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INVENTORY OF INTERNATIONAL INITIATIVES RELATED TO SUSTAINABLE MATERIALS

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FOREWORD

This Inventory of International Initiatives related to Sustainable Materials Management (SMM) was financed by the Flemish Public Waste Agency (OVAM) and prepared by Sander de Bruyn (CE), Ester van der Voet (CML), Lauran van Oers (CML), Maartje Sevenster (CE), Gerdien van de Vreede (CE) and Marissa Korteland (CE). Comments from the OECD Working Group on Waste Prevention and Recycling have further improved the content of the document.

This project forms part of the OECD work on Sustainable Materials Management which is managed by the Working Group on Waste Prevention and Recycling. The Working Group recommended the declassification of this document on 18 July 2008.

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INVENTORY OF INTERNATIONAL INITIATIVES RELATED TO SUSTAINABLE MATERIALS MANAGEMENT

EXECUTIVE SUMMARY

The OECD Working Group on Waste Prevention and Recycling (WGWPR) launched a new work area on Sustainable Materials Management in 2005. Sustainable Materials Management (SMM) is a relatively new approach in waste management strategies. The WGWPR has agreed to the following working definition for the SMM [ENV/EPOC/WGWPR/RD(2005)5/FINAL]:

"Sustainable Materials Management is an approach to promote sustainable materials use, integrating actions targeted at reducing negative environmental impacts and preserving natural capital throughout the life-cycle of materials, taking into account economic efficiency and social equity"

Compared to traditional waste management, Sustainable Materials Management introduces sustainability and lifecycle perspectives.

Introduction

Life-cycle thinking applied to materials is not new. From the perspective of products and materials many initiatives have been developed which add life-cycle elements to existing policy areas and other activities. These include sustainable production and consumption, eco-design, integrated product policy, eco-efficiency or sustainable natural resource use. Although these initiatives start from different perspectives, they boil down to similar approaches by taking the life cycle perspective on the transformation of materials into products and services and, finally, waste.

Scope and Objectives of the Study

This study provides a summary of international initiatives that are relevant for Sustainable Materials Management. Initiatives have been defined here broadly as comprising various elements, such as information gathering, development of methods, networking, exchange of experience, and generation of ideas and policy measures, including the development of policy tools, programmes and strategies. Such initiatives have been investigated at the level of:

- 1. Global International Organisations (e.g. UN and UN-related organisations);
- 2. Regional International Organisations (e.g. G8, EU and OECD);
- 3. International Business and Industry Associations, International Standard Associations and environmental NGOs (only selected initiatives); and
- 4. Research organisations (only selected initiatives).

In order to limit the scope of the present study some rigor has been applied to the criteria whether an initiative would be relevant for SMM or not. Initiatives had to take a life-cycle perspective into account, focus on reducing

environmental impacts throughout the life-cycle of materials, and bear a relationship with waste and material policies in general. Using these criteria a total of 68 initiatives have been identified at the international level.

Results of the study

The 68 initiatives are presented as datasheets in the Annex of the document. The datasheets give a concise description of the initiatives oriented on aims, goals and results and more specific information related to documents, websites, contact persons, types of materials, products and environmental impacts that are considered, etc. In addition, the usefulness of these initiatives for SMM is discussed briefly.

In the report the initiatives are introduced in two levels:

- i) Categorized by the organisations that have launched the initiatives; and
- ii) Categorized by content where the initiatives have been headed under the various themes they originate from (such as eco-design, or sustainable production and consumption).

Main Findings

This inventory shows that there are many on-going activities related to Sustainable Materials Management. However, the starting point from end-of-life materials, as elaborated by the WGWPR, is relatively new. Most of the initiatives are meant to improve information, network building or to learn from other experiences. Based on the inventory findings, rather few international initiatives are developed for policy making or policy formulations and only a few initiatives have led to concrete new policy measures. From the perspective of international programmes, it seems that there is still a gap, both in knowledge and experience, how life-cycle thinking can be incorporated in existing international environmental policies. This finding, however, cannot necessarily be assumed for national policies as this inventory did not undertake an evaluation of national programmes relevant to Sustainable Materials Management. While national and sub-national initiatives were not covered in this inventory, the WGWPR has also examined SMM policies at the national level through a survey of national SMM policy initiatives (ENV/EPOC/WGWPR(2008)3/FINAL), and any gaps in initiatives addressing policy making or policy formulation is appropriately addressed within the context of that survey. This inventory does consider a few national initiatives that have grown into an international network (e.g. Japanese 3R; Chinese Circular Economy) and may lend some insight into which national policies relevant to SMM have garnered sufficient momentum to become expanded to receive international attention.

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For more general information about the **OECD Environment Programme**, visit our website at: <u>http://www.oecd.org/env/</u> or send an Email to <u>env.contact@oecd.org</u>

GLOSSARY OF ACRONYMS

3R	Reduce – Reuse – Recycle
ANPED	Northern Alliance for Sustainability
APRSCP	Asia Pacific Roundtable for Sustainable Consumption and Production
BIGAS	Bayer crop science Integrated environmental Gains Along the supply
	chain for Sustainable agriculture
CDM	Clean Development Mechanism
CEC	The North American Commission for Environmental Cooperation
CEO	Chief Executive Officer
CER	Certified Emission Reductions
CIRAIG	Interuniversity Research Centre for the Life Cycle of Products,
	Processes and Services
CO_2	Carbon dioxide
COICOP	Classification of Individual Consumption by Purpose
CSI	Cement Sustainability Initiative
CSCP	Centre on Sustainable Consumption and Production
CSR	Corporate Social Responsibility
D4S	Design for Sustainability
DITC	Division on International Trade and Commodities
DTIE	Division of Technology, Industry and Economics
EC	European Commission
EEA	European Environmental Agency
EEEI	European Eco-Efficiency Initiative
EIONET	European Information an Observation Network
ELV	End-of-life Vehicles
EMA	Environmental Management Accounting
EPI	Environmental Performance Indicator
EPLCA	European Platform on Life Cycle Assessment
ETAP	Environmental Technologies Action Plan
EUP	Energy using Products
FAO	Food and Agriculture Organization
G8	Group of Eight
GEN	Global Eco-labelling Network
GIN	Greening of Industry
GPPP	Green Public Procurement Policies
GRI	Global Reporting Initiative
GRIP	Norwegian foundation for Sustainable Consumption and Production
IBEP	International Bio-energy Platform
ICCA	International Council of Chemical Associations
ICMM	International Council on Mining and Metals
ICSPAC	International Coalition for Sustainable Production and Consumption
IEA	International Energy Agency

IEC	International Electrotechnical Commission		
IFCS	Intergovernmental Forum on Chemical Safety		
IISD	International Institute for Sustainable Development		
IPP	Integrated Product Policy		
IPPC	Integrated Pollution Prevention and Control		
ISEE	International Society for Ecological Economists		
ISF	Integrated Strategies Forum		
ISIC	International Standard Industrial Classification (of all economic		
	activities)		
ISIE	International Society of Industrial Ecology		
ISO	International Organization for Standardization		
JRC	Joint Research Centre		
LCA	Life-Cycle Assessment		
LCI	Life-Cycle Inventory		
LCIA	Life-Cycle Impact Assessment		
LCM	Life-Cycle Management		
MFA	Material Flow Analysis		
MMSD	Mining, Minerals and Sustainable Development		
NAGPI	North American Green Purchasing Initiative		
NASCP	North America Sustainable Consumption and Production		
NATO	North Atlantic Treaty Organization		
NCPC	National Cleaner Production Centre		
NESPEMS	New European Phased Environmental Management System		
NGO	Non-Governmental Organisation		
PSS	Product Service Systems		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals		
R&D	Research and Development		
SAICM	Strategic Approach to International Chemicals Management		
SBCI	Sustainable Building and Construction Initiative		
SCP	Sustainable Consumption and Production		
SDF	Sustainable Development Framework		
SETAC	Society of Environmental Toxicology and Chemistry		
SFA	Substance Flow Analysis		
SMM	Sustainable Materials Management		
SPAC	Sustainable Production and Consumption		
SPC	Sustainable Product Criteria		
SPP	Sustainable Public Procurement		
UN	United Nations		
UNCTAD	United Nations Conference on Trade and Development		
UN DESA DSD	United Nations Department of Social Affairs – Division for		
	Sustainable Development		
UNEP	United Nations Environmental Programme		
UNIDO	United Nations Industrial Development Organisation		
US	United States		
WBCSD	World Business Council for Sustainable Development		
WEEE	Waste Electrical and Electronic Equipment		
WGEIO	Working Group on Environmental Information and Outlooks		
WGWPR	Working Group on Waste Prevention and Recycling		
WPNEP	Working Party on National Environmental Policies		
WTO	World Trade Organisation		
	-		

1. BACKGROUND

1.1 Introduction

For the last 20 years the OECD Working Group on Waste Prevention and Recycling (WGWPR) has been developing and promulgating international waste policies aiming at preventing and reducing waste generation and managing the residues in an environmentally sound manner. However, looking only at wastes, i.e. end-of-life materials resulting from human activities, is no longer sufficient. To date, waste minimisation policies have not kept pace with the increasing waste generation that is associated with economic growth and increasing materials consumption. This concern has given rise to a need for more creative and far-sighted solutions that employ *life-cycle thinking* to reducing in a cost-effective manner the negative environmental impacts (or externalities) associated with the increasing use of materials.

Environmental problems are generated along the entire life-cycle of products – extending from the extraction of raw materials needed for products, to the manufacture of intermediate and final goods, to their packaging and consumption, and finally, to their reuse, recycling and disposal.

Natural resources are a foundation of economic activity and human welfare. They provide raw materials, energy, as well as environmental and social services. Governments and international organisations are increasingly confronted with their management and efficient use which is the key to economic growth and sustainable development. This topic is of emerging importance to most of the OECD member countries, since many of them are trying to move away from a heavily waste-oriented view and develop materials-based approaches.

It is important that public policies target those points of materials life-cycle at which the potential environmental and economic benefits are likely to be the largest. The life-cycle approach helps to identify these points. OECD work in the area of Sustainable Materials Management (SMM), begun in 2005, focuses on this opportunity.

This SMM work was started in 2005 with a workshop to: i) set the scene for this work area; ii) explore the present understanding and status of activities towards sustainable materials management in member countries and international organisations; iii) define the needed terms; and iv) determine the most pressing areas for future work.

The WGWPR also decided to take forward three SMM projects in 2006 -- one of them being "an inventory of international initiatives related to Sustainable Materials Management". It was further decided that this work would be undertaken by Belgium, in close co-operation with the OECD Secretariat and the OECD Steering Group on SMM.

1.2 Objectives of the Inventory

The WGWPR considered useful to undertake an inventory of SMM-related activities within international organisations for the following reasons:

- Due to the limits of waste prevention and minimisation policies and the continuous overall increase of consumption, the use of materials in a sustainable manner has become an emerging challenge of the new century which most countries have now to face. By combining and sharing their knowledge and experience through international organisations involved in economics and environment, countries have a better chance of developing synergies that will allow to tackle the issue of SMM successfully;
- Due to globalisation, production processes, transport, management, rules and regulations concerning materials in one country may lead to negative environmental impacts in others. Since the use of materials has an international dimension, cooperation between countries is needed. The best forum for this cooperation are international organisations; and
- Finally, in order to prevent duplication of work, but rather benefit from possible existing knowledge and experience on SMM, and to identify possibilities for co-operation in the field of SMM, the WGWPR recommended in December 2005 that the OECD carefully look for activities of relevance for SMM which are already in progress or under development in other international organisations.

Consequently, it would be crucial to know which other international organisations/bodies are working on SMM or developing such policy approaches. To this end, UN bodies, such as United Nations Environmental Programme (UNEP), United Nations Conference on Trade and Development (UNCTAD), United Nations Industrial Development Organisation (UNIDO), Food and Agriculture Organisation (FAO), the World Business Council for Sustainable Development (WBCSD), the Group of Eight, G8 (Reduce-Reuse-Recycle, 3R), the World Bank, the European Commission (EC) and its institutions or agencies will be explored.

This report aims to give a summary of international initiatives that are relevant for sustainable materials management, and to:

- Categorize the initiatives in clusters, both with respect to content and organisational levels;
- Discuss which initiatives are relevant for the OECD WGWPR SMM-activities; and
- Organise the initiatives in a database which can be used for further activities in this field.

1.3 Study methodology

In order to execute the study several definitional choices had to be made. These relate to questions like:

- i) What is an initiative?
- ii) How is SMM understood for the purposes of this inventory, so that it would be possible to determine which initiatives should be taken into consideration?
- iii) Which organisations will be considered in the inventory?

These considerations are elaborated below.

1.3.1 Understanding of an Initiative

An initiative is here understood a public act, action or statement by an organisation, or group of organisations aiming to solve a problem or organise action related to sustainable materials management. It is not limited to the development and implementation of policy measures, tools, programmes and

strategies or establishment of "process"-type approaches, and includes related information gathering, development of methodologies, networking and information sharing.

1.3.2 Understanding of Sustainable Materials Management for this Inventory

There is obviously a broad understanding of what sustainable materials management is, however, a more detailed understanding is needed for this inventory, to draw a line between what SMM is and what it is not. After all, just about all the processes of production and consumption are bound up in one way or another with the use of materials. Any policy that intervenes in production or consumption will therefore also intervene, directly or indirectly, in material supply chains underlying those processes.

Thus the understanding relates to two aspects:

- i) What is SMM?
- ii) What are materials?

The WGWPR agreed in December 2005 on the following working definition for SMM. The working definition is intended as a guide for focusing the OECD work on SMM and can be revised or improved as appropriate as the work evolves:

"Sustainable Materials Management is an approach to promote sustainable materials use, integrating actions targeted at reducing negative environmental impacts and preserving natural capital throughout the life-cycle of materials, taking into account economic efficiency and social equity."

The WGWPR also agreed to the following explanatory notes to the working definition:

"Materials" include all those extracted or derived from natural resources, which may be either inorganic or organic substances, at all points throughout their life-cycles.

"Life-cycle of materials" includes all activities related to materials such as extraction, transportation, production, consumption, material/product reuse, recovery and disposal.

An economically efficient outcome is achieved when net benefits to society as a whole are maximised.

A variety of policy tools can support SMM, such as economic, regulatory and information instruments and partnerships.

SMM may take place at different levels, including firm/sector and different government levels.

SMM may cover different geographical areas and time horizons."

For the purposes of this study the OECD working definition of SMM is understood as follows:

- i) SMM adopts a life-cycle approach as its basic premise;
- ii) The aim of SMM is to reduce the negative environmental impacts of materials use and preserve natural capital, taking into account economic efficiency and social equity;
- iii) SMM actions aim to promote reducing environmental impacts throughout the lifecycle directly; we are not concerned here with measures having an indirect effect, such as CO2 emissions trading;

iv) It is characteristic of SMM that it seeks integration of actions: environmental policies cannot be built in isolation from other policy fields; and

The first element gives a clear demarcation: an initiative has to take a life-cycle perspective, otherwise it is not SMM.

The second element puts forward the necessity that the initiative aims to reduce the environmental impacts of materials use. Initiatives solely devoted to social aspects in a life-cycle perspective (child labour!) are therefore not considered as SMM. Further, initiatives which are not directly relevant to materials use, are not covered by this definition either (*i.e.* fisheries policy, biodiversity policy).

According to **the third element**, the initiative must directly target one or more components of the life-cycle. Initiatives having an indirect effect on the life-cycle (such as CO₂-emission trading) are not considered as part of SMM.

The fourth element concerns integration of actions. Many non-environmental considerations affect the environmental impacts from materials over the life cycle. Hence, SMM policies best seek to integrate with such considerations in order to create synergies and minimise potential negative impacts.

This is a difficult criterion to use in the inventory as the integrative aspect is not always clear. It is taken here as a criterion that policy measures aiming to reduce a specific material in a specific product are mostly not SMM but part of other policies, for example, policies aiming to reduce toxicity¹. However, it is noted that in such risk management efforts, SMM can support and assist in ensuring the most effective and efficient risk management choices are made.

Using these four elements, insight has been gained of what is SMM for the purposes of this study. In practice there is no universally valid definition that will serve equally well across the board in establishing what constitutes SMM. The demarcation lines adopted here can nonetheless provide a useful handle.

Finally, we have **to understand what a "material" is**. A material is the useful part of natural resource which is extracted from it for further processing and use. However, in the context of SMM it should be noted that a material is something that sooner or later would end up as waste, or a recoverable material. In this way it is determined that water and air included in materials are counted in, but water and air as such are rather considered resources than materials. However, in the case of water this understanding could be challenged.

1.3.3 Organisations included in this Inventory

The main orientation in this investigation is on international initiatives. For clarity and ease of reference in the list of policy initiatives, the following categorisation of organisations is used:

1. Global Intergovernmental Organisations like UN and UN-related organisations;

¹ This is a mere practical step needed to limit the number of initiatives. By considering only the first 3 elements, for example, there is a risk that hundreds of policy initiatives from various (inter)national organisations be captured unnecessarily in the datasheets. Consider all the various product regulations in force, for example, with separate measures banning use of cadmium in batteries, toys, beer crates and so on. These all have the specific aim of reducing environmental pollution and are based (in part) on a life-cycle approach. However, these measures are very specific and may not be interesting for the broader scope of initiatives relevant for SMM (Definition of natural resource: A substance or condition which exists in nature that can be exploited for economic benefit).

- 2. Regional Intergovernmental Organisations, like G8, EU and OECD and initiatives financed through these organisations;
- 3. International Business and Industry Associations, International Standards Associations and NGOs (*not exclusive*); and
- 4. Research organisations (only the largest initiatives).

The inventory of SMM activities under business and research organisations is less thorough than that of intergovernmental organisations. This is due to the fact that providing the full range of initiatives in this area would extend the scope and timeline of the present study.

National and sub-national initiatives were not covered in this inventory. The OECD has separately surveyed national SMM initiatives in 2007. This study, however, includes some national initiatives that have had an international impact (*see* Section 2.5).

1.4 Sustainable Materials Management in wider Perspective

(EU addition here; 2 sentences from page 21) In recent years a wide range of initiatives have been taken in numerous settings with the goal of reducing the environmental impacts of production and consumption throughout product life cycles, "from cradle to grave" or even "from cradle to cradle". These initiatives have been prompted largely by a realisation that although current environmental policy is certainly making great strides, at some stage of the supply chain there will still be environmental impacts - often beyond national borders - that continue to accelerate the overall degradation of the planet's ecosystems. One of the strategies to overcome this is to close the cycles of our industrial metabolism (Ayres, 1989)².

From the perspective of waste, in particular, many such initiatives have been put forward. It is evident that it is not very cost-effective to focus policy solely on waste, the final link in the product chain. It is often simply more effective as well as cheaper to improve matters by taking action further upstream (Von Weizsäcker, *et al.* 1997). The automotive industry, for example, has had good experience with design modifications enabling materials to be better recycled in the end-of-life stage.

Such initiatives share the common feature that the aim is to reduce the environmental impacts throughout the life-cycle of product, materials, or activities. They have been labelled differently in the literature, depending on the focus of the initiatives in the life-cycle:

- "Sustainable production and consumption" is a term for initiatives that aim to integrate chain analysis in decisions relating to production and consumption;
- "Integrated product policy" seeks to minimise environmental degradation by looking at all phases of a product's life-cycle (and taking action where it is most effective);
- "Sustainable natural resource use" investigates minimising environmental impacts from the use of natural resources throughout the life-cycle;
- "Sustainable materials management" aims to minimise environmental impacts from the use of materials throughout the life-cycle. The focus of SMM, as defined by the OECD, is on all stages of the life-cycle from material extraction from natural resources to end-of-life management; and
- Eco-efficiency, finally, is a management strategy 'doing more with less'—In practice, ecoefficiency is achieved through the pursuit of three core objectives: i) Increasing product or

² Such issues have been labelled differently as societal metabolism (Fischer-Kowalski 1997).

service value; ii) Optimising the use of resources; and iii) Reducing environmental impacts throughout the life-cycle.

In addition there are initiatives like *Corporate Social Responsibility*, or *Eco-design* that share many of the views of the initiatives mentioned above.

As all these initiatives take a life-cycle perspective, they are more or less similar. After all, the life cycle implies that natural resources feed into materials which feed into products that are consumed and recovered or disposed of. The similar characteristics of these initiatives can be summarised as follows:

- They take a life-cycle perspective;
- They often point at the greater effectiveness of environmental policies when taking a life-cycle perspective;
- They often point at the lower costs (greater efficiency) that can be achieved when taking a lifecycle perspective;
- They may take into account and seek to minimise environmental damages experienced by the South;
- They may suggest the need for an integrated approach to environmental problems in creating a greater coherence between existing environmental policies (the so-called umbrella function of these initiatives).

In other words, initiatives need not to be labelled SMM in order to be considered as contributing to SMM. Also many initiatives that do not make reference to the term SMM are in fact dealing with issues that are important for SMM.

1.5 Structure of the Report

The description of initiatives is given in the Annex which contains 68 initiatives relevant for SMM. These 68 initiatives together provide an overview of the field, but do not cover the whole range of possible initiatives, as outlined in Section 1.3.3. Nevertheless they do give a reasonable overview of what is going on in the field internationally.

The initiatives can be headed to organisational types (i.e. global and regional international organisations, business, national organisations, etc.), or by substance (i.e. sustainable production, ecodesign, waste management, etc.). Both classifications are elaborated in this study. This is due to the fact that the selected search approach has been oriented in these two ways, and both with respect to the organisations as to the subjects covered, only the most relevant initiatives are included. Hence, in Chapter 2 initiatives are introduced from the perspective of organisations, and in Chapter 3 from a substantive perspective. Chapter 4 will then provide the conclusions. The initiatives themselves are presented on datasheets in the Annex.

When referring in the text to a particular initiative, this is done by "#" and a number, i.e. #43, which makes it easy to locate the initiative in the Annex.

1.6 Accountability

As this report is principally an inventory of initiatives, information regarding the specific nature, development, outcomes, players, etc. of the SMM-related initiatives should not be considered complete or comprehensive. Readers are invited to use the various Internet and other references provided in the text and the data sheets to learn more about the specific details associated with the listed initiatives.

2. THE INITIATIVES BY ORGANISATIONS

2.1 Introduction

Many organisations have introduced initiatives that are relevant for SMM according to the definition outlined in paragraph 1.3. In this chapter an overview is presented of the initiatives of the main organisations relevant for SMM.

2.2 Global Intergovernmental Organisations

There are several global organisations like the UN, FAO and World Bank that have programmes concerned with the sustainable use of resources and materials taking a lifecycle perspective. As these organisations have only limited power and means, their programmes are generally restricted to agendasetting, training, public education, harmonisation and facilitation. Such initiatives can nevertheless have a substantial influence on the thinking and policy of individual countries and international organisations, and lead to major regulations. This is reflected in the Kyoto and Montreal protocols, for example, both of which were secured under UN leadership.

2.2.1 United Nations

Since its creation in 1972 the United Nations Environmental Programme, **UNEP**, has pursued the goal of a more environmentally benign and, since 1987 a more sustainable development of global society. Most UNEP initiatives relate to the use of natural resources like water, land, timber and fish. Over the past 10 years there has also been a growing focus on issues relating to the economy. Cleaner production, life cycle economy and environmentally sound management are recurrent terms in UNEP documents. The Malmö Declaration of 2000 appeals countries to develop initiatives for "cleaner and more efficient technologies for a life cycle economy" (#3). This has led to the establishment of the Life-Cycle Initiative (LCIn, #17) in collaboration with the Society of Environmental Toxicology and Chemistry (SETAC), home of the LCA scientific community. In the Life-Cycle Initiative activities are being developed under the headings of Life-Cycle Thinking, Life-Cycle Management and Life-Cycle Assessment (LCA). Though focused primarily on products and services, this LCI initiative also has implications for materials and resource use.

In 2002, following the World Summit on Sustainable Development, the Life-Cycle Initiative was transferred to the Ten Year Framework of Programmes on Sustainable Consumption and Production, also known as the Marrakesh process (#22). This Framework, of grand design, has a number of Task Forces, each chaired by an individual (European) country. Several of these, such as the Sustainable Building and Construction Task Force (#14), have resources or materials as their main focus and are therefore included in the datasheets.

One recent development is the establishment of the International Panel for Sustainable Resource Management (Resource Panel, #20). Established by UNEP, with the support of a wide range of governments, the European Commission and representatives from civil society, the new scientific panel

is part of an international partnership on resource management. It will look at the impacts on resources and materials used in all phases of their life cycle.

In this area of sustainable production and consumption, originating from the Ten Year Framework, the UN has many initiatives. Taken up in the database are the following (*see* also Table 1):

- General: Life-Cycle Initiative, the newly established Centre of Sustainable Consumption and Production and the International Panel on Sustainable Resource Management launched in November 2007, Asian-Pacific Roundtable on Sustainable Production and Consumption, Nordic Roundtable on Sustainable Production and Consumption (#4; #28);
- On production: Sustainable Building & Construction, Design for Sustainability, Product Service Systems (#14);
- *On consumption*: Sustainable Lifestyles, Sustainable Products; Sustainable Product Criteria Database (Table 1);
- On waste: Integrated Resource Management pilot projects in developing countries; and
- *On trade*: Sustainable Public Procurement, Biotrade, and the GRIP initiative on North-South business relations (#13).

Sheet Number [*]	Organisation	Title of the initiative
13	UN	Sustainable Public Procurement (Switzerland) - 10-
	DESA/UNEP	Year Framework of Programmes on Sustainable
	partnership	Consumption and Production Patterns: The Marrakech
	1	Process
22	UN	SPC initiatives database - 10-Year Framework of
	DESA/UNEP	Programmes on Sustainable Consumption and
	partnership	Production Patterns: The Marrakech Process
14	UN	Sustainable Building & Construction (Finland) - 10-
	DESA/UNEP	Year Framework of Programmes on Sustainable
	partnership	Consumption and Production Patterns: The Marrakech
		Process
15	UN	Sustainable Products (United Kingdom) - 10-Year
	DESA/UNEP	Framework of Programmes on Sustainable
	partnership	Consumption and Production Patterns: The Marrakech
		Process
16	UN	Sustainable Lifestyles (Sweden) - 10-Year Framework
	DESA/UNEP	of Programmes on Sustainable Consumption and
	partnership	Production Patterns: The Marrakech Process
20	UNEP	International Panel on Sustainable Resource
		Management
17	UNEP/SETAC	UNEP/SETAC Life-Cycle Initiative
	partnership	
28	UNEP/Wuppertal	Collaborating Centre on Sustainable Consumption and
	Institute	Production (CSCP) UNEP/WI
	partnership	
12	UNEP	UNEP's Product Service Systems and Sustainability
5	UNEP	UNEP's Sustainable Building & Construction Initiative
		(SBCI)
4	UNEP	Asia Pacific Roundtable for Sustainable Consumption
		and Production (APRSCP)
3	UNEP	International Declaration on Cleaner Production
2	UNEP	National Cleaner Production Centres
18	UNEP	UNEP's Design for Sustainability (D4S) Activities
21	UNEP	UNEP/IAPSO Product Criteria Database

Table 1. UN related Activities relevant to SMM

*The sheet number gives the number where these initiatives can be found in the datasheets (Annex).

Since the starting point in the Ten Year Framework of Life-Cycle Thinking, all these initiatives are, directly or indirectly, relevant to Sustainable Materials Management. These initiatives generally aim at knowledge build-up and dissemination, networking, exchange of ideas and experiences, setting up pilot projects and advising governments. The Roundtables are regional structures for conferencing.

A separate branch of UN activities is connected with the concept of Cleaner Production:

- The National Centres for Cleaner Production (#2); and
- The Declaration on Cleaner Production (#3).

The Declaration on Cleaner Production has the decoupling of economy and environment as its core principle, to be reached by minimising environmental impacts of production by technical means. The National Centres deal with more specific issues, for example for specific sectors or services. These, too, can be relevant to Sustainable Materials Management, especially when targeted at products and services.

2.2.2 Other UN-related Organisations

One of the developments that may have major consequences for future use of resources and materials is the growing interest of policy-makers in biomass as a source of energy and materials and the widespread interest that has immediately been displayed by the biotechnology sector. There is already a plethora of policy initiatives in this area, many of them with ambitious targets. International organisations, too, are developing activities in this field. The Biofuel Initiative, launched by UNCTAD in 2005, seeks to help developing countries make optimum use of their renewable energy potential, particularly when it comes to biofuels. At the initiative of the FAO the International Bio-energy Platform (IBEP) was recently set up to advice government and industry on formulating policies in this area. Another objective is to establish bio-energy R&D programmes. In this area, the following initiatives are included in the database:

- FAO IBEP (#8);
- UNCTAD BioTrade initiative (#10) and Biofuel initiative (#23);
- SAICM (#56)
- IFCS related initiatives (#57 and #58).

The **FAO** is concerned mainly with the big issues of the future with respect to agriculture: how the world's population is to be fed, and the associated question of how water, land, timber and fish resources are to be managed. The FAO's vision on these matters is set out in its "Strategies for a Sustainable Agricultural and Rural Development". Another important task of the FAO is to collect and disseminate statistics on land and water use, agricultural output, pesticide and fertiliser use, and production, consumption and international trade of fish and timber. Together, this represents an extremely extensive and useful data set providing key insights into all kinds of trends in these areas.

Sheet	Organisation	Title of the initiative
Number		
19	Food and Agriculture Organization	FAO sustainable Development
	(FAO)	(activities)
8	Food and Agriculture Organization	International Bio Energy Platform
	(FAO)	(IBEP)
10	UNCTAD	BioTrade initiative
23	UNCTAD	Biofuels initiative
56	UNEP	Strategic Approach to International
		Chemicals Management (SAICM)
57	Intergovernmental forum on	North American Sustainable
	chemical safety (IFCS)	Consumption and Production Database
58	Intergovernmental forum on	INFOCAP
	chemical safety (IFCS)	

Table 2. Other UN related Organisations' Activities relevant to SMM

The Strategic Approach to International Chemicals Management (SAICM), adopted by the International Conference on Chemicals Management (ICCM) on 6 February 2006 in Dubai, United Arab Emirates, is an international policy framework to foster the sound management of chemicals. SAICM

(#56) was developed by a multi-stakeholder and multi-sectoral Preparatory Committee and supports the achievement of the goal agreed at the 2002 Johannesburg World Summit on Sustainable Development of ensuring that, by the year 2020, chemicals are produced and used in ways that minimise significant adverse impacts of chemicals on the environment and human health.

The **Intergovernmental forum on chemical safety (IFCS) is** a UN affiliated body and has launched two initiatives which serve as a database on chemical management plans (INFOCAP, #58) and Sustainable Production and Consumption (#57). In paragraph 4.3 these databases are described in some more detail from the perspective of alternative sources of information on initiatives worldwide.

2.3 International Business and Industry Associations, International Standards Organisations and NGOs

There is an increasing realisation that business and industry hold many of the keys to changing production and consumption patterns. Life-Cycle Assessment has a long strand in business areas and programmes devoted to reducing environmental impacts over the lifecycle have been introduced since the 1980s. Such initiatives have been labelled as cleaner production, eco-efficiency, zero-emission initiatives, and design for environment (DfE) or industrial ecology. Recently, such initiatives have often been headed under Corporate Social Responsibility (CSR) – a concept that states that organisations have a duty of care to all of their stakeholders in all aspects of their operations, which goes beyond their statutory obligation to comply with legislation.

The number of business initiatives focussing on networking and information exchange is virtually unlimited as almost every sector has deployed initiatives in fields close to SMM. It is, however, difficult to assess which initiatives go beyond mere intentional declarations and organising a few workshops.

One of the organisations that clearly goes further than just elaborating concepts related to SMM is the **World Business Council for Sustainable Development (WBCSD)**, which is probably also the best known and influential organisation in this respect. The WBCSD is a network organisation which brings in "some 180 international companies in a shared commitment to sustainable development through economic growth, ecological balance and social progress". It launched an eco-efficiency programme (#56) which has now been followed up by various sectoral activities (#53). Many activities deal with energy, but materials are, for example, a specific focus in the Cement Sustainability Initiative (#54).

The **Greening of Industry** network (<u>http://www.greeningofindustry.org</u>/) is in this case important as a bridge between business, government and researchers. It is also one of the oldest networks around in this area.

From a sectoral perspective, the initiatives that have been undertaken at the **International Council on Mining and Metals (ICMM)** are relevant for SMM as lifecycle thinking has gained a prominent role in the environmental activities from this organisation. They have introduced a work programme based on the concept of Materials Stewardship (#52) The programme aims to ensure the responsible provision of materials and supervision of material flows towards the creation of maximum societal value and minimum impact on man and the environment. ICMM has published guidance on materials stewardship. It's commitment to materials stewardship is demonstrated through Principle 8 of the ICMM Sustainable Development Framework. A similar initiative has been established by the chemical industry oriented on product stewardship (#60). The International Council of Chemical Associations Long Term Global Product Strategy is broad based and includes for example guidance on sharing good practice along the value chain, a management system for implementation of product stewardship and a process for systematic risk assessment of chemicals.

Sheet	Organisation	Title of the initiative
Number	_	
48	Ceres	Global Reporting Initiative (GRI)
47	Greening of Industry	Greening of Industry (GIN)
	(GIN)	
49	International Council on	Declaration by the Metals Industry on Recycling
	Mining and Metals	Principles
	(ICMM)	
51	International Council on	Materials Stewardship
	Mining and Metals	
	(ICMM)	
50	International Council on	Sustainable Development Framework (SDF)
	Mining and Metals	
52	(ICMM)	
53	World Business Council	Cement Sustainability Initiative
	for Sustainable	
52	Development (WBCSD)	
52	world Business Council	(MMSD)
	Development (WDCSD)	(MMSD)
55	World Dusiness Council	Eas officiancy programma
55	for Sustainable	Eco-efficiency programme
	Development (WBCSD)	
54	Global Eco Jabelling	The Global Eco Jabelling Network (GEN)
57	Network (GEN)	The Global Leo-labeling Network (GLN)
59	ICSPAC	SPAC Watch
46	ICSPAC	ICSPAC
45	Northern Alliance for	Sustainable Production and Consumption
	Sustainability (ANPED)	Working Group
60	ICCA	Global Product Strategy
	International	
	Organization for	
61	Standardization (ISO)	ISO 14000 Family
	International	
	Electrotechnical	
62	Commission (IEC)	IEC Technical Committee 111

Table 3. Overview of Business Organisations and NGOs with Initiatives relevant to SMM

The overview of business organisations is not exhaustive. Especially in the field of CSR many activities have been undertaken at the global, regional or national levels. Organisations like **Business for Social Responsibility (BSR)** (<u>http://www.bsr.org/</u>) aim to help companies achieve success in ways that demonstrate respect for ethical values, people, communities and the environment. Such initiatives (similar ones have been employed by the UNICE and a dozen of other organisations) have not been included in the database, however, as Life-Cycle Assessment only plays minor roles in such initiatives.

The important **Global Reporting Initiative** (#48), a large multi-stakeholder network of thousands of experts oriented on CSR, co operate with UNEP/SETAC lifecycle initiative (#17) when it comes to life cycle activities.

Standards are a type of instrument that can ensure desirable characteristics of products and services such as quality, environmental friendliness, safety, reliability, efficiency and interchangeability. When products, systems, machinery and devices work well and safely, it is often because they meet standards. In the case of environmental standards, their use or implementation is intended to be environmentally beneficial or to reduce negative environmental impacts of activities. The **ISO 14000 family** (#61) addresses "environmental management". This result in activities/initiatives the organization undertakes to minimize harmful effects on the environment caused by its activities and to achieve continual improvement of its environmental performance. For its part, the work under **IEC Technical Committee 111** (#62) is intended to prepare the necessary guidelines, basic and horizontal standards, including technical reports, in the environmental area on electrical and electronic equipment.

The overall purpose of the **GEDnet** network (<u>http://www.gednet.org/</u>) is to foster co-operation and encourage information exchange among its members and other parties operating or developing Type III Environmental Product Declaration programmes and to discuss key issues in developing such programs. A type III environmental declaration provides information regarding the environmental aspects of products and services based on information from life cycle assessment studies according to the ISO 14040-series of standards.

Environmental and other NGOs have fostered many initiatives relevant for SMM. Many of these activities have a local character and are therefore not included in this overview. Some activities related to sustainable production and consumption. The International Coalition for Sustainable Production and Consumption (ICSPAC) (#46) offers an agenda, research reports and various tools that can be useful in the field of sustainable production and consumption and the lifecycle thinking. The Global Eco-labelling Network GEN (#55) aims to improve, promote, and develop the "eco-labelling" of products and services. These NGO initiatives very much cooperate with business and can be considered as joint effort between business and the NGO community.

2.4 Regional Intergovernmental Organisations

2.4.1 European Union (EU)

The EU is of immediate relevance for the present review because there are a series of directives and proposals at EU level that include many elements of the concept of SMM³.

In the 6th Environmental Action Programme of the EC (EC, 2001) concepts like life- cycle assessment, resource efficiency and waste prevention were introduced as important concepts of future environmental policies in the EU. In subsequent years, the actions announced in the 6th EAP have been

3

In addition, many OECD countries are members of the EU as well.

translated into communications and other policy plans. In the environmental policies of the European Union the life cycle approach is featuring now more prominently than a decade ago. At the moment the three main policy cornerstones are the EU's communications in the fields of:

- Product policy (Integrated Product Policy (IPP) Green Book, COM(2001)68 and COM(2003)302) to be extended by a Sustainable Consumption and Production (SCP) Action Plan in 2008 (#39);
- Natural resources (Strategy, COM(2005)670) (#31); and
- Waste prevention and recycling (Strategy, COM(2005)666) (#44).

Although these three policy tracks have their origin in various themes of EU policy (*see* Figure 1), they are very much intertwined. The Thematic Strategy on Waste Prevention and Recycling (#31) is explicitly positioned under the headings of both sustainable development and waste management and to a certain extent reflects an evolution in thinking as discussed in Section 1.4. Thus, the focus of EU waste policy is shifting increasingly from the end of the product life-cycle to the cycle as a whole, and the implementation of concrete targets or standards in legislation is advancing. It is no coincidence that this Strategy is entitled "Making work of sustainable use of natural resources". It is closely allied to the Thematic Strategy on Sustainable Use of Natural Resources, but is at the same time also geared to simplifying and modernising older waste policy tracks by integrating the provisions of the waste oil directive (75/439/EEC) and the hazardous waste directive (91/689/EEC) into the revised and updated framework directive on waste (2006/12/EC). Moreover, the implementation of the Strategy will be closely linked to the clarification and modification of the scope of the Integrated Pollution Prevention and Control (IPPC) Directive and to additional waste management activities.



Figure 1. EU Policy Tracks relevant to SMM and Waste (legislation in italics is not covered in this study)

The Thematic Strategy on natural resources complements IPP. Both tracks are based on life cycle thinking, but while IPP takes the product as its point of departure, the Resource Strategy is more allembracing, in a sense intervening earlier in the chain. Several encompassing implementation measures will be proposed in the forthcoming Sustainable Consumption and Production (SCP) Action Plan.

The notions of IPP and waste prevention find concrete expression in a range of legislation, including several directives relating to waste policy and in particular the end-of-life phase of specific consumer goods, including:

- End-of-life vehicles (2000/53/EC), (#40);
- Packaging and packaging waste (1994/62/EC, revised by 2004/12/EC), (#41);
- Electrical and electronic equipment (2002/95&96/EC), (#42); and
- Batteries and accumulators (2006/66/EC), (#43).

As it stands at the moment, the packaging directive contains a limited set of life-cycle-oriented measures, including targets for recycling and incineration with energy recovery, a heavy metal ban, and a set of essential requirements specific to the manufacturing and composition of packaging (limited volume and weight, design for re-use, recycling and recovery, elimination of hazardous substances, etc). The life- cycle-oriented goals are also cited as an underlying motive for drawing up the present directive with a possibility for their future elaboration in more detail.

The end-of-life vehicles directive is primarily concerned with issues like limiting the use of dangerous substances or making allowance in vehicle design and manufacture for later dismantling, reuse and recycling. Although such measures have life cycle thinking in mind, at the time of drafting the directive, they were rather based on the end-of-life impacts rather than on the optimisation of economic-environmental considerations over the life-cycle. A full assessment of the life-cycle impacts of vehicles (transport) is ongoing under the Sustainable Consumption and Production agenda.

Article 5 of the new directive on (waste) batteries and accumulators (2006/66/EC) explicitly elaborates the notion of optimising the life-cycle environmental performance of batteries and accumulators, and highlights that the marketing of batteries with less polluting substances should be encouraged. The article cites dangerous substances and heavy metals, but the scope for optimisation does not end there, reuse, recycling and recovery obviously also have a major part to play. The directive on waste electrical and electronic equipment, or WEEE directive, sets explicit targets for the recovery and recycling of this type of equipment (and component parts). Product design that facilitates dismantling and recycling is explicitly cited as a key issue, but life cycle policy in the sense of e.g. materials selection is lacking.

The IPP philosophy is also reflected in the "Eco-design" directive on energy-using products (2005/32/EC), which strictly speaking comes under the heading of energy policy (Figure 11). In this directive eco-design is defined as:

"The integration of environmental aspects into product design with the aim of improving the environmental performance of the energy-using product throughout its life-cycle".

With energy-consuming appliances the use phase is generally the dominant factor in life cycle environmental impact. One of the key aims of this directive is therefore to improve energy efficiency through better product design and construction. In the context of sustainable materials usage the use phase is difficult to integrate, because it is not necessarily the case that less material is always better in terms of life-cycle environmental impact. In the case of heavy duty electrical equipment, for example, a

minimum diameter of copper wire can be recommended as the reduction in electrical resistance and its associated losses of power may be more significant than savings on materials.

The establishment of the European "Eco-label" (several EC decisions in 2000) also ties in with lifecycle thinking. Following from the IPP strategy, one of the ideas being considered in this context is to introduce differentiated charges based on the Eco-label or some other form of environmental label. However, these tracks are still fairly 'soft' and do not yet focus on the life-cycle. Therefore, they were not included in this study.

Although most EU legislation relevant for SMM is based on product or waste policies, a couple of other initiatives are interesting for SMM also. First there has been the introduction of the Thematic Strategy on the Sustainable Use of Natural Resources in 2005. This Strategy sets out a programme in order to reduce environmental impacts from resource use over the next 25 years. Lifecycle thinking has been explicitly rooted in this initiative. Secondly, the EU also has running programmes on cleaner technology (# 35), corporate social responsibility (#36) and the EU financed a network for sustainable production and consumption (#34) and also a handbook on green procurement (EC, 2004, not included, *see* also Section 3.5.1). Finally, Eurostat (not included here) and the EEA also provide statistics and studies relevant to SMM. Within EEA there is a Topic Centre on Resource and Waste Management (#37), the source of several studies that focus on sustainable materials management. One of the aims of this Topic Centre is to collect information on material flows and their associated environmental impacts.

Another example of SMM is Regulation (EC) No 761/2001 of the European Parliament and of the Council of 19 March 2001 allowing voluntary participation by organisations in a Community ecomanagement and audit scheme (EMAS) (not included here). The Eco-Management and Audit Scheme (EMAS), EU voluntary instrument which acknowledges organisations that improve their environmental performance on a continuous basis. EMAS registered organisations are legally compliant to run an environment management system and report on their environmental performance through the publication of an independently verified environmental statement. They are recognised by the EMAS logo, which guarantees the reliability of the information provided.

Other areas of the EU touch upon the issue of sustainable materials management. In its plans for project funding for development aid ("external action"), for example, the EU has also established directives relating to sustainable management of natural resources (COM(2006)20), "External Action: Thematic Programme For Environment and Sustainable Management of Natural Resources including Energy"). However, this mainly relates to criteria for funding and falls short of being included in this review on the ground that the policy initiatives must bear a relation with waste.

In summary, although many of the aims laid down in current EU legislation still relate to traditional waste management (recovery, recycling, incineration with energy recuperation), there is now a definite trend towards taking a life cycle approach. The two thematic strategies cited are clear examples in this respect and a number of statements and articles in the packaging, end-of-life vehicles and battery directives reflect the same spirit. In addition, the principle of eco-design (including "design for recycling") has also been incorporated in various directives. Table 4 gives an overview of the various activities within the EU in fields that are interesting for SMM.

34	European	Network Sustainable Consumption Research Exchange
26	Commission	
36	European	EU Corporate Social Responsibility
	Commission	
31	European	Thematic Strategy on the Sustainable Use of Natural Resources
	Commission	
39	European	Integrated Product Policy (IPP)
	Commission	
44	European	Thematic Strategy on the Prevention and Recycling of Waste
	Commission	
41	European	Directive 94/62/EC of the European Parliament and of the Council
	Commission	of 20 December 1994 on Packaging and Packaging Waste
40	European	Directive 2000/53/EC of the European Parliament and of the
	Commission	Council of 18 September 2000 on End-of life Vehicles
42	European	Directive 2002/96/EC of the European Parliament and of the
	Commission	Council of 27 January 2003 on Waste Electrical and Electronic
		Equipment (WEEE)
43	European	Directive 2006/66/EC of the European Parliament and of the
	Commission	Council on Batteries and Accumulators and Waste Batteries and
		Accumulators
35	European	Environmental Technologies Action Plan
	Commission	
38	European	Directive 2005/32/EC of the European Parliament and of the
	Commission	Council Establishing a Framework for the Setting of Eco-design
		Requirements for Energy-using Products
11	European	European Platform on Life Cycle Assessment
	Commission	
67	European	Regulation (EC) No. 1907/2006 of the European Parliament and of
	Commission	the Council of 18 December 2006 concerning the Registration,
		Evaluation, Authorisation and Restriction of Chemicals (REACH)
37	EEA	EEA Topic Centre on Resource and Waste Management

Table 4. Initiatives relevant for SMM from the EU or EU funded Organisations

Research on life-cycle aspects in the EU has been included in the EC Joint Research Centre (JRC-IES and JRC-IPTS). The JRC-IES play an important role in developing and disseminating LCA methodology and data and the JRC-IPTS in working on prognostive techno-economic models and on identifying products with the highest environmental impact and improvement potential.

2.4.2 Organisation for Economic Co-operation and Development (OECD)

In addition to the WGWPR activities, the OECD is engaged with issues relevant to sustainable materials management aspects in three other trajectories. Several links of cooperation between them have been established:

1. The OECD work programme on material flows (MF) and resource productivity (RP), steered by the Working Group on Environmental Information and Outlooks (WGEIO), supports the implementation of the OECD Council recommendation on MF and RP adopted in April 2004. The aim is to improve knowledge about the flows of materials within and among countries, so as to better understand the physical resource base of countries' economies and to inform related policies and management approaches. This is done by providing guidance on how to measure material flows and resource productivity, paying attention to: i) How material flow accounts and indicators can be constructed in a coherent framework that countries can easily implement and further adapt to their own needs; and ii) How material flow indicators can be selected to suit policy needs and how they can be interpreted and used. The work has benefited from a sequence of workshops hosted by member countries (Helsinki, June 2004; Berlin, May 2005; Rome, May 2006; Tokyo, September 2007). Main outputs include a series of guidance documents that have been drafted in a joint effort by a group of experts from OECD countries led by the OECD Secretariat, and a pilot database building on existing national and international data sources;

- 2. The OECD has also been engaged actively in Green Public Procurement resulting in a "Council Recommendation in 2002 on Improving the Environmental Performance of Public Procurement (#33). A report to the OECD Council assessing the implementation of the Recommendation was published in early 2007, <u>http://www.olis.oecd.org/olis/2006doc.nsf/linkto/env-epoc-wpnep(2006)6-final;</u> and
- 3. Finally, the OECD was launching in 2007 Horizontal Work on Sustainable Production which is meant as an analysis of measures to arrive at sustainable manufacturing production. As this is not yet operational, it is not included in the overview presented in this study.

The OECD-linked International Energy Agency (IEA) has established a collaborative framework encompassing a great many countries which aims to research, develop and promote bio-energy technologies (# 9).

2.4.3 North Atlantic Treaty Organization (NATO)

In 1999, NATO, the North Atlantic Treaty Organization, implemented a project on Sustainable Building for Military Infrastructure (#63). The goal was to network and gather information on ways to reduce the environmental implications of military activities through a life-cycle approach, from the planning, the construction, to their operation and the demolition of building. Fully appreciating the project's success as forums for the exchange of knowledge, the participants expressed keen interest in follow-up seminars. Participants meet every two years.

2.4.4 North American Commission for Environmental Cooperation (CEC)

The North American Commission for Environmental Cooperation (CEC), a regional intergovernmental organization created by Canada, Mexico and the United States, under the North American Agreement on Environmental Cooperation, addresses regional environmental concerns, helps prevent potential trade and environmental conflicts, and promotes the effective enforcement of environmental law. The Agreement complements the environmental provisions of the North American Free Trade Agreement. For example, the CEC has established the North American Green Purchasing Initiative (NAGPI, #64) in order to promote green procurement practices and policies in North America (<u>http://www.cec.org/pubs_docs/documents/index.cfm?varlan=english&ID=12411</u>). NAGPI includes SMM characteristics such as the focus on evaluating the environmental impacts of the products and services an organization will purchase, rather than the waste it will produce.

Encouraging Green Purchasing (independent project). The purpose of this project is to help increase the proportion of "green products and services" in the procurement decisions of institutions including governments at all levels, universities, hospitals, and private companies, and thus reduce their impact on the environment and human health. The project aims to promote the improvement of regional and national coordination and greater policy coherence concerning the purchase of green office supplies,

energy from renewable resources, and green cleaning supplies. In practical terms, it supports the development of information, tools and practical approaches for use by institutions. The project in its entirety addresses the sustainable development and the environmental conservation and protection objectives of the NAAEC and NAFTA.

Clean Electronics Pollution Prevention Partnership (CEP3) (<u>http://www.cec.org</u>). This component builds on previous experiences in North America in exploring a trilateral cooperation mechanism to facilitate the transition of the electronics industry to meet new global environmental requirements. It aims to help improve competitiveness, access to global markets and environmental performance while advancing pollution prevention strategies in North America.

The project is designed to provide resources, technical assistance, and promote voluntary efforts to eliminate or significantly reduce the uses of electronic products manufactured or imported in the North American market that contain a variety of hazardous and toxic constituents. The project could include harmonization of current efforts in North America, such as the EPEAT tool in the United States and TerraChoice in Canada, implementation of best management practices, promotion of compliance assistance tools for pollution prevention programmes, and cleaner production technologies.

The CEP3 will promote a coordinated effort to align the goals of the partnership, recognizing the need for programme flexibility and effective communication, to provide participants with the ability to leverage available resources to help promote improved environmental performance throughout North America.

The CEP3 will be guided by the designated Parties' representatives and the existing North American Pollution Prevention Partnership (NAP3). The NAP3 invites representation from the Parties and companies and/or associations within the electronics industry. Industry associations such as The Electronics Industries Alliance (EIA), The National Electrical Manufacturers Association (NEMA), The IPC – the Association Connecting Electronic Industries (IPC), Canieti (*Cámara Nacional de la Industria de Informática, Electrónicas y Telecomunicaciones*) and Electronics Product Stewardship (ESP) Canada, are expected to participate in the project. A CEP3 steering committee will coordinate the activities proposed under this component. It will have representation from industry, government, academia, and nongovernmental organizations from all three countries, including one representative from each of the NAP3 pollution prevention roundtables. The CEC will support the programme activities of the steering committee, and ensure timely reporting on activities and results to the NAP3 and the public.

2.5 National initiatives

Although national initiatives are not considered in this study, some initiatives which originate from national policy plans have been included as they clearly have an international orientation where more parties than just national parties are involved. In addition, this section shortly elaborates concepts like green procurement and eco-labelling frequently encountered in national initiatives. As such initiatives often are related to lifecycle thinking, they may be of interest for OECD in their future research activities.

2.5.1 National initiatives with international orientation

Some national initiatives that have been developing into international initiatives are included in this review. Table 5 gives an overview of three such initiatives which, although they primarily have been taken by an individual country, have resulted in a wider audience and networking.

It should be noted that the focus of this inventory is on multinational initiatives. Many, if not most, OECD member countries have undertaken activities that would fit within this study's definition of SMM

and that have an international reach, component or impact. It is not within the mandate of this project nor practically feasible within this one report to include and explore a representative sample of them all.

6	G8 (Group of Eight)	3-R initiative (Japan, G8)
30	National Development and Reform Commission - China	Circular Economy (China)
1	GRIP - Nordic Ad-Hoc group on SCP consortium	Nordic Roundtable on Business Relations and Sustainable Consumption and Production in a North/South perspective

Table 5. Overview of National Initiatives with wider Audience

2.5.2 Other types of national initiatives

At the national level many other initiatives take place which may be important for SMM as they focus on life cycle thinking Here we consider two types of them relevant for SMM that do have resulted in concrete actions: eco-labelling and green procurement.

Eco-labelling. Since 1977, when the 'Blue Angel' scheme was initiated by the German government, several national labelling systems have been set up (Melser and Robertson, 2005). These include 'Environmental Choice Programme' (Canada), 'Green Seal' (USA), 'Eco-mark' (Japan) and many more. 'Nordic Swan' and 'Euro-flower' are examples of multi-country initiatives. The labels apply their criteria on a broad variety of non-food product categories; electronics, clothing, office supplies, cleaning products etc. Some incorporated services such as tourism as well. Increasingly eco-labelling is endorsed from the private business sector. To date, no eco-label exclusively focuses on waste reduction and management but most do take a lifecycle perspective, including end-of-life management.

Green procurement. In recent years, green procurement initiatives have received increased attention. Several private businesses and government agencies at regional, national and local levels tried to include environmental and social considerations into their buying decisions. Green procurement means the purchase of products and services that have less environmental impacts than available alternatives. The direct aim is to support sustainable consumption and production patterns.

Many countries have introduced greener public purchasing policies. Examples are Canada, United States, Austria, United Kingdom, Netherlands, France and Denmark (OECD, 2003).

2.6 Research organisations

A number of national Life-Cycle Assessment database activities are ongoing globally. Presently Australia, Brazil, China, Denmark, Germany, Japan, Malaysia, Switzerland, Thailand, and the US are having formal national activities. As illustrative example, the US project may be detailed: The National Renewable Energy Laboratory (NREL) and its partners created the U.S. Life-Cycle Inventory (LCI) database to help life-cycle assessment experts answer their questions about environmental impacts. This database provides a cradle-to-grave accounting of the energy and material flows into and out of the environment that are associated with producing a material, component, or assembly. It is online accessible storeroom of data collected on commonly used materials, products, and processes. The data were critically reviewed following the project data review protocol. Information about the protocol and the database is contained in the U.S. LCI Database Project Development Guidelines and the User's Guide for Life-Cycle Inventory Database, <u>http://www.nrel.gov.lci</u>.

On an international level, the EC Joint Research Centre's IES also plays an important role in developing, harmonising, and disseminating recommended LCA methodology and reference LCI data, as well as recommended LCIA impact methods and factors (*see* initiative #11). The Joint Research Centre's IPTS works on prognostive techno-economic studies and on identifying the products with the highest environmental impact and improvement potential (#7).

The Sustainable Business and Construction Initiative (SBCI), co-ordinated by UNEP, aims to encourage decision makers in the construction industry and its stakeholders, including government, to develop and implement policies, strategies and practices that are cleaner, safer and make efficient use of natural resources. It recognises that there is considerable potential for improving the long-term performance of buildings by taking into account long-term benefits and costs, and using life cycle approaches to identify sustainable construction opportunities. The SBCI will operate as a reference source for the numerous voluntary activities and guidelines which are currently enacted at a national or regional level. Doing this will enable the initiative to provide a common platform for stakeholders, to establish performance baselines and to develop tools and strategies.

Chain analysis, the research activity relevant for SMM, is supported and developed at various international scientific gremia. Methodology development around Life Cycle Assessment and its economic counter-part, Life Cycle Costing, is concentrated in the Society of Environmental Toxicology and Chemistry (SETAC), the principal International organisation for LCA scientists. The link with Life-Cycle Management is established, among others, in the bi-annual LCM conferences organized by academia and business. The UNEP-SETAC Life Cycle Initiative (#17), another important body for methodology development, aims at establishing common practices and consensus on difficult methodological issues. Standardisation of the LCA methodology takes place in the ISO framework. ISO 14040 contains directions for LCA studies, especially targeted at the methodological framework and terminology. The EC Joint Research Centres (JRC-IES and JRC-IPTS) also play an important role in developing, disseminating and standardizing LCA methodology and data (see initiatives #07 and #11). In Canada, notably in Ouebec, the Interuniversity Research Centre for the Life-Cycle of Products, Processes and Services (CIRAIG, # 65) is another example of research organisation that generates, integrates, and interprets relevant knowledge in the fields of life cycle assessment and products, processes, and services management in order to support industries and governments in their transition towards sustainable development.

Material flow accounting and Substance Flow Analysis has its, originally European but now global, focus in ConAccount (#29). This platform for MFA researchers and users started out as a Concerted Action of the EU 5th Framework Programme, but still is alive even after the EU grant has since long been terminated. MFA standardisation further is taken up by Eurostat, who have issued a methodological guide in 2002. Eurostat, in harmony with the OECD, recommends EU member states to keep track of the material base of their economy by drafting economy-wide MFA accounts.

There are many more methods in the field of environmental and sustainability analysis, such as Risk Assessment, Environmental Impact Analysis, Integrated Analysis, the more economic oriented environmental Cost Benefit Analysis, Input Output Analysis with environmental extensions, and various forms Eco-Efficiency Analysis, and the more technology oriented Design for the Environment, Design for Sustainability, and Design for Recycling, each with their own platforms of methodology development. All these may or may not include aspects of chain analysis, design and management. LCA and MFA however can be considered core methods in the field of chain analysis, since these two have cradle-to-grave chains as their research object.

MFA, SFA and other supporting methods for chain analysis are also the core business of the International Society of Industrial Ecology (ISIE, #27). The ISIE, established in 2001, organises

biannual conferences and co-organises an annual LCA case study symposium with SETAC. The ISIE issues a scientific journal, the Journal of Industrial Ecology. Together with the International Journal on LCA and the one on Ecological Economics, this is the most important place where methodology development and case study results related to chain analysis is published and discussed. Many research institutes, academic and others, contribute to the development of the Industrial Ecology research, of which chain analysis in its various shapes is an important part. The International Society for Ecological Economics (ISEE, #26) also serves as a platform for such methods, but on a smaller scale. Methods such as LCA and MFA fall into the category of analysis of the physical economy, one of the many topics of interest of the ISEE.

In many countries University institutes, Consultant and Research Centres are working on Life Cycle Assessment, generating, integrating, and interpreting relevant knowledge in the fields of life-cycle assessment and products, processes, and services management, in order to support industries and governments in their transition towards sustainable development.

Methodologies of chain analysis typically can be used to support policies of chain management. In international fora, such policies are gaining momentum. The EU Waste Strategy, Integrated Product Policy and Resource Strategy are examples of chain oriented policies. While LCA has long been the method of choice for IPP, a broader "life-cycle thinking" is increasingly finding its way into end-of-life policy.

The Yale University (USA) Stocks and Flows Project (#66) is evaluating current and historical global flows of important metals, determining the stocks available in different types of reservoirs and the flows among the reservoirs, developing scenarios of possible futures of metal use, and assessing the environmental and policy implications of the results. As of fall 2007, the group has completed work on copper, zinc, chromium, lead, iron, nickel, and silver, comprising complete cycle characterizations for all countries using significant amounts of these materials (more than 50), nine world regions including Europe, North America, and Asia, and the planet as a whole. Targeted studies of a few states and cities have also been accomplished. The group is now in the process of similar research on stainless steel. Specialized studies on tin, tungsten, and aluminium have been done as well. These comprehensive cycles, and their interpretation and implications, will be published in the scholarly literature as they are completed.

3. THE INITIATIVES BY CONCEPTS AND TYPES OF ENVIRONMENTAL POLICY

3.1 Introduction

In addition to the classification presented in Chapter 2, this chapter will categorize the initiatives according to content. Although all the initiatives included in this overview have life cycle thinking as an important element, they originate from different perspectives and emphasize different elements important for SMM. These perspectives will be given here in this chapter.

First, in Section 3.2, initiatives oriented on sustainable production and consumption will be presented. In Section 3.3., initiatives from the perspective of production (i.e. eco-design, cleaner production, etc.) will be presented. Section 3.4 will investigate initiatives that have been started from a specific point of departure in the life-cycle. Section 3.5 will then list initiatives that have been formulated for specific types of environmental policy.

3.2 Sustainable Production and Consumption

Changing consumption patterns" is the subject of Chapter 4 of Agenda 21. At its third session, in 1995, the Commission on Sustainable Development adopted an International Work Programme on Changing Consumption and Production Patterns, from which the concept of "sustainable production and consumption" has emerged.

The concept of sustainable production and consumption is explicitly based on a life cycle perspective, as can be seen from this adopted definition⁴:

"Sustainable production and consumption is the use of goods and services that respond to basic needs and bring a better qualify of life, while minimizing the use of natural resources, toxic materials and emissions of waste and pollutants over the life cycle, so as not to jeopardize the needs of future generations." Symposium: Sustainable Consumption. Oslo, Norway; 19-20 January 1994.

Within the inventory we have included the most important international initiatives on sustainable production and consumption, which includes various initiatives by the UNEP/UN DESA consortium (initiatives #13-16; #22), the CSCP centre (#28) at Wuppertal by the UN/Wuppertal Institute, the UN Newsletter on SCP (#28), the EC's European Platform on LCA (#11), Norway (#1) and NGOs (ICSPAC, #46; #59 and ANPED #45). They tend to be oriented to networking and information gathering.

3.3 Initiatives based on Production and Products

The application of life cycle thinking started to take off in industry as early as the 1980s. Within industry various instruments have been introduced which have been named differently as: pollution prevention, cleaner technology, cleaner production, eco-design, loop closing, and environmental

⁴ Many other definitions exist, though, see http://www.iisd.org/susprod/principles.htm.

management systems. Starting from an industry perspective, the scope has been broadened over the years to take a life cycle perspective at industrial processes and intermediate inputs in the production processes. Recently social-economic aspects have come to the foreground, which has been labelled as corporate social responsibility (CSR). CSR originates in the three pillars of sustainability as defined especially in business (PPP, Planet, People, and Profit).

A related strand of initiatives is oriented on products. Integrated product policies (IPP) and Cleaner Products are ways to minimize the environmental impacts over the life cycle. In a way, the influential UN Life Cycle initiative (#17) also originated in this field but is nowadays applicable to a wider range of aspects, including natural resource management.

3.3.1 Corporate Social Responsibility (CSR)

Corporate Social Responsibility (CSR) is an evolving concept that does not have a universally accepted definition. Generally, CSR is understood to be the way firms integrate social, environmental and economic concerns into their values, culture, decision making, strategy and operations in a transparent and accountable manner and thereby establish better practices within the firm, create wealth and improve society.

CSR is perceived as an important step towards sustainable development in a rapidly globalizing world. There are numerous initiatives on the area of CSR and all initiatives meant for business (i.e. #47-56) are one way or the other linked to CSR. In addition to these business initiatives, our datasheets include one initiative from the EU that has published a Communication on Corporate Social Responsibility (#36). This Communication sets out guidelines and plans for future work in this area which is basically oriented on promotion of CSR as a concept and the promotion of voluntary environmental instruments, such as environmental management systems and the Eco-label scheme.

3.3.2 Eco-design and Integrated Product Policies

Eco-design is an approach to design of a product with special consideration for the environmental impacts of the product during its whole lifecycle. The idea to address environmental questions at the design stage derives from the observation that at least 70% of the decisions concerning pollution in the subsequent manufacturing, use and disposal stages are made during the design of a product (Sheng, 1995). Life-cycle engineering, green design and manufacturing, and design for the environment are some other terms associated with eco-design.

In the datasheets, there are several initiatives included with respect to eco-design, which includes the EU Directives establishing a framework for the setting of eco-design requirements for energy-using products (#38) and vehicles (#40), and the UN activities related to eco-design (#18). Many other initiatives mention eco-design as a mean towards lowering environmental impacts.

Integrated Product Policy (IPP) seeks to minimise environmental impacts by looking at all phases of a products' life-cycle and taking action where it is most effective. The concept has increasingly gained interest, especially in Europe, over the last fifteen years. The US has also taken a life-cycle approach in many of programmes and uses a variety of tools which assess and attempt to reduce life-cycle impacts of products, including product design and design for environment (DfE) tools, environmentally preferable purchasing programmes and voluntary partnerships to encourage the reduction of priority chemicals. Many initiatives on IPP exist at the level of national states. From the organisations considered in this inventory, included are initiatives from the UN (#12; #16; #18), the EC European Platform on LCA (#11), and the EC Communication on IPP (#39). The Communication considers eco-design as a key to ensure that products on the market become more environmentally benign.

Although important as a policy tool, eco-design and IPP initiative lack any quantifiable targets. The IPP-communication (#39) suggests, for example, that targets may be derived from targets to be set within the framework of the Thematic Strategy on Sustainable Use of Natural Resources.

3.3.3 Cleaner Production and Eco-efficiency

Cleaner Production is a strategy for increasing the efficiency of natural resource use and minimising wastes. Pollution and risks to human health and safety are reduced at the source, rather than the end of the production process, i.e. the "end-of-pipe" stage. The adoption of Cleaner Production typically involves improving maintenance practices, upgrading or introducing new technology, or changing production processes. It results in meeting consumers' needs with more environmentally compatible, quality products and services. As well as reducing pollution, this strategy also generates tangible economic savings for a business enterprise by improving the overall efficiency of production.

Within the present inventory the international declaration on cleaner production and the establishment of cleaner production centres is taken into account (#2; #3). Also the EU Environmental Technologies Action Plan (ETAP, #35) is worthwhile mentioning in this respect.

3.4 Specific Materials or Phases in the Chain

Many initiatives have their origins in a certain stage in the life-cycle chain of products and materials. Originally starting from consideration of the eco-efficiency of the production of materials or manufactured products such initiatives enlarged their scope taking life-cycle elements into account.

3.4.1 Bio-energy

One of the areas where recently life cycle perspectives have been applied is the field of bio-energy and biomaterials. The reasons are clear: biofuels can be applied as a substitute for fossil fuels, however, during the production of biofuels negative side-effects occur over the life cycle. The question is how much these side-effects are off-set by the reduction in CO_2 -emissions.

Bio-energy is relevant for this inventory as it can be produced from biomass waste flows. In addition, the discussion on bio-energy contains many elements that are of interest to SMM as the principles that guide the discussion (i.e. the life cycle impacts) conform to SMM.

A comprehensive overview of the many initiatives in this field has been given by van Dam *et al.*, (2006). We have included here in the database the most relevant initiatives at the level of the UN (#10, #23), IEA (#9) and FAO (#8).

3.4.2 Chemicals

Implementation of Chapter 19 of Agenda 21 has shifted from being a primary undertaking of the Inter-Governmental Forum on Chemical Safety to that of the recently negotiated Strategic Approach to International Chemicals Management (SAICM, #56). SAICM is a policy framework for international action on chemicals that was adopted in 2006 following development by a multi-stakeholder and multi-sectoral process. Successful implementation of SAICM would contribute significantly to meeting the expectations contained in the UNCED Agenda 21 report and to achieving the goal agreed at the 2002 Johannesburg World Summit on Sustainable Development of ensuring that, by the year 2020, chemicals are produced and used in ways that minimize significant adverse impacts on the environment and human health. SAICM comprises the following three core components:

- The Dubai Declaration, a political statement, which expresses the commitment to SAICM by Ministers, heads of delegation and representatives of civil society and the private sector;
- The Overarching Policy Strategy, which sets out: the scope of SAICM; the needs it addresses; objectives for risk reduction, knowledge and information, governance, capacity-building and technical cooperation and illegal international traffic; underlying principles; and financial and institutional arrangements; and
- A Global Plan of Action, which sets out proposed "work areas and activities", is a working tool and guidance document that may be used by all stakeholder groups. It will be further developed during the implementation of SAICM.

SAICM has many proposed actions to address the full life cycle of chemicals and it identifies numerous pertinent scientific, technical and administrative needs for developing countries and countries with economies in transition.

Chemicals are also covered by the Intergovernmental Forum on Chemical Safety (IFCS, #57; #58) which has, amongst others, a database on sustainable production and consumption practices. Also the International Council of Chemical Associations (ICCA) has deployed activities in the sphere of life-cycle assessment (#60). Within the EU REACH (#67) has also entailed a number of studies and proposals which have partly been based on life-cycle assessment. Cement is explicitly considered in the initiative by the WBCSD (#53).

3.4.3 Metals

The Yale University (USA) Stocks and Flows Project (#66) is focused on the global flows of important metals. The importance of metals in the world economy makes it important to understand their stocks and flows. More specifically, three issues are worthy of attention:

- The historical reservoir for the materials used by our technological society has been virgin stocks (ore bodies, mineral deposits, and the like). For a variety of reasons, those stocks may become inadequate or unavailable at some times or places in the future. Other reservoirs exist, however, a principal one being materials or products in use, stored, or discarded over the years by corporations and individuals. These reservoirs might become very important in the next few decades of rapid population growth and resource and energy use;
- A second consideration is that society's use of energy in the extraction and processing of materials is part of the general evaluation of energy limits and energy provisioning; and
- A third issue is that the loss of resources by dissipation or landfilling can sometimes be problematic from an environmental standpoint.

These issues can be addressed by developing cycles for the stocks and flows of materials of interest, particularly if the cycles are temporally and spatially resolved. These comprehensive cycles, and their interpretation and implications, will be published in the scholarly literature as they are completed.

3.4.4 Natural Resources

Several initiatives have been employed that take the mining and metals sector as a starting point, by the WBCSD (#57, now finished) and the ICMM (#51 and #52). ICMM has developed a Sustainable Development Framework with 10 key principles which its Members are committed to implementing. To

facilitate effective reporting of the industry performance the ICMM cooperated with the Global Reporting Initiative to develop a Mining and Metals Supplement to the GRI Guidelines.

Life-cycle initiatives have gained interest by the mining and metals sector as a way of minimizing environmental impacts along the value chain of materials. By maximizing the economic value gained from the resources, impacts per unit of service (or product) may decline. ICMM has developed guidelines on materials stewardship to promote the practical implementation of maximising value in the minerals and metals life cycle.

Two initiatives in the field of sustainable resource management (SRM) bear mentioning in this inventory of SMM initiatives given the potential linkages and synergies between the two fields. The EU Thematic Strategy on the sustainable use of natural resources (#31) defines a range of actions for the next 25 years to decouple the environmental impacts of the use of natural resources from economic growth. The Thematic Strategy Resources is supported with life cycle methods and data by the EC's European Platform on LCA (#11). Such issues have also been identified by the UN/SETAC Life-Cycle Initiative as being important (#17).

The EU Thematic Strategy on the Sustainable Use of Natural Resources proposes to establish a panel (#20) in 2007. As such, UNEP launched the International Panel for Sustainable Resource Management. Its main tasks will be to provide scientific assessment on the sustainable use of natural resources. The Panel will identify knowledge and capacity gaps in developing and transition countries and suggest initiatives to overcome obstacles, by means of capacity building, training, education, demonstration projects and formation exchange.

3.4.5 End-of-life Management

Both at the level of EU and other organisations initiatives have been undertaken to enlarge issues about waste management with life cycle considerations. One example is the Japanese 3R-initiative dealing with waste prevention from a life-cycle perspective (#6). Within the EU several initiatives (i.e. #40-43), originating from a waste management perspective, have included life cycle elements in their operations. The EU Thematic Strategy on the Prevention and Recycling of Waste (#44) might become especially interesting in the future as policy objectives outlined here are closely linked to the OECD-SMM objectives.

3.5 Specific Policy Instruments

Finally, initiatives can be headed according to the policy instruments that they aim to establish. We can distinguish here initiatives on green procurement and initiatives on eco-labelling. In addition to these two areas which have been included into the database, we briefly touch upon extended producer responsibility and economic instruments as two other areas which we find important in this field as several initiatives might consider these instruments in the future.

3.5.1 Green Procurement

Green procurement is important for SMM as sustainable procurement may imply the reduction of resource consumption and thereby the reduction of waste generation (Government of Canada, 2006).

Much of the focus on green procurement has been on the public sector, which is an important market force. It accounts for a significant fraction of demand (Marron, 2003). Besides, governments

might encourage businesses and households to follow similar purchasing policies⁵. Green public procurement procedures and initiatives have been applied by the OECD (#33), and the UN (#13; #16) which aim to set out guidelines for green public procurement and aim to stimulate such initiatives. Many more initiatives exist at the national and local level.

3.5.2 Eco-labelling

Over the years, the number of eco-labelling programmes has grown significantly. They cover lots of product categories, ranging from household cleaning goods to natural resource based products. Eco-labelling means that products which meet specific environmental standards are certified and labelled with a special symbol. The aim is to change consumer behaviour by providing information on the environmental impact of a product. Simultaneously, eco-labels would offer a market incentive for producers to improve environmental management. It is therefore no coincidence that eco-labels are stimulated, especially from NGOs (the Global Eco-labelling Network, #54).

There are different types of eco-labelling programmes. They vary, among others, in origin, degree of voluntariness, product and process coverage, certification procedures and scope of influence.⁶ To date, no eco-label exclusively focuses on waste reduction and management. However, labelling schemes that assess products' life-cycles are relevant for actors involved in this sector. Their 'cradle to grave' approach includes the environmental impact of products' reuse and disposal. Many eco-labels take such a life-cycle perspective, particularly those covering industrial-based products, but not all. Some solely focus on the production stage, for instant labels on wood (FSC) and fish (MSC). In addition to life-cycle approaches, eco-labels concerning tourism facilities are worth noticing. They also include criteria on waste reduction, i.e. material use, and waste separation.

3.5.3 Extended Producer Responsibility (EPR)

Some initiatives on cleaner products stem from the concept of extended producer responsibility. EPR is a policy approach in which producers of consumer products are required to accept significant responsibility for the management/disposal of those products after their use (OECD, 2001).

EPR is based on the idea that if manufacturers are more directly made to pay for the waste created by their products, they will design them differently to reduce that waste (and reduce costs). A wide range of programmes (both mandatory and voluntary) fall under the Extended Producer Responsibility umbrella, including "take back" programmes and deposit/refund systems.

EPR programmes are now well-established internationally and many initiatives exist in many countries. The OECD WGWPR has been actively involved in the EPR-programmes. It is however, still very unclear to which extent EPR programmes result in waste prevention, e.g. through changes in product design. Most EPR programmes do, however, show a clear improvement in recycling rates (OECD, 2005).

⁵ Several ways of positive and negative interaction between public and private initiatives are explored in Marron (2003).

⁶ In response, the International Organisation for Standardization (ISO) defined three generally accepted types of eco-labels. Type I labels are based on voluntary, life-cycle assessment of products' environmental performance through independent third party certification. They are awarded to environmentally preferable products. Type II labels involve environmental claims made by manufacturers, importers or retailers themselves. Type III labels are neutral. They list product information but contain no judgment (IISD/UNEP, 2005). The design of most eco-labels comes closest to ISO type I, even if they assess only part of product's life-cycles.
EPR programmes are often specified to specific products and have therefore not been included in this inventory - over 25 countries have systems for packaging recovery and recycling (e.g., European Union Packaging and Packaging Waste Directive; Ontario, Canada's CSR system; bottle deposit legislation in U.S. states). There are also programmes to promote recovery and recycling of batteries, paints, automobiles, tires and electronic equipment. While most are in Europe and North America, they are being expanded to Eastern European countries that join the EU, as well as in Asia and Latin America. The revenues from such programmes are often earmarked for waste management, especially recycling projects.

3.5.4 Taxation of Materials

Governments may tax materials, or specific materials in products, in order to reduce their use. To date, there is only one product group that is clearly taxed as an input in products or production processes: ozone depleting substances. The US issued an excise tax that applied to bulk imports of class I ozone depleting substances (e.g. CFCs, halons, carbon tetrachloride, methyl chloroform), and products containing and manufactured with those substances. Countries like Australia focus on inputs. They charge the import of ozone depleting chemicals and use revenues to finance awareness programmes.

Taxes on packaging provide another example of taxation aimed to reduce the use of certain materials or even abandon certain types of packaging. In Iceland, Hungary, Denmark and Belgium there exists a tax on (beverage) packages made of glass, plastic, paper and/or cardboard. Norway taxes non-refillable beverage containers and Sweden poses a fee on imported aluminium cans. Denmark, Italy and Ireland have placed a tax on plastic carrier bags in order to reduce their use.

4. CONCLUSIONS

When the individuals working on this inventory began their task, none had a full appreciation for the number and diversity of projects that would be included. They simply wanted to be able to take advantage of the work that others are doing and not repeat it. Indeed, the number of projects described in this document is a testament to the importance that many people around the world place on the issue we are calling sustainable materials management. The initiatives listed in this inventory are diverse with respect to scope, number of activities and organisational strength. Many initiatives have only started during the last two years. It is difficult to assess which initiatives will be most influential. Based on the level of ambition and current activities, some arguments can be made that the initiatives from UNEP on Sustainable Production and Consumption form a coherent framework and might become important for SMM in the future. Also the EU triangle with Thematic Strategies on waste prevention and natural resources and the communication on Integrated Product Policy might become an important cornerstone for further activities relevant to SMM. Furthermore, the 3R initiative by G8 and Japan might become an important analytical framework in the near future.

This listing and the projects it describes will be useful to the OECD as it plans future work in the area of sustainable materials management. It will also be useful to the individual member countries and to non-OECD member countries as well. Finally, it should be useful to the people working on the projects themselves, so they can know what others are doing, plan their work accordingly and join forces where that appears to be a good idea.

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Additional Information Sources

As stated in the introductory chapter, this inventory is not exhaustive. Many more initiatives which take into account life-cycle aspects exist. Especially at the national and local level initiatives exist which have not been included in this overview. There are several convenient databases on Internet which can be searched through looking for particular initiatives. They are listed below.

1. UN/World Bank Sustainable Procurement

http://www.uneptie.org/pc/sustain/policies/green.asp

What it is: Database to show what criteria are used by organisations to apply sustainability to their procurement practices

Contains: About 100+ initiatives on Green Procurement from supranational, national, local or business authorities. Search terms: organisations

2. OECD/EEA database on instruments used for environmental policy and natural resources management

http://www2.oecd.org/ecoinst/queries/index.htm

What it is: an overview of economic instruments (environmentally related taxes, fees and charges, tradable permit systems, deposit refund systems, environmentally motivated subsidies) and voluntary approaches in OECD countries for the environment and natural resources used in environmental policy in OECD Member countries, EEA member countries and countries otherwise co-operating with EEA, not being members of OECD.

Contains: Over 1,000 economic instruments (taxes, subsidies, tradable emission permits) Search terms: Country, ISIC-code, COICOP-codes, Environmental Domain (Water Pollution; Air Pollution; Climate Change; Land Contamination; Waste Management; Natural Resource Management; Noise; Ozone Layer Protection; Energy Efficiency; Transport; Land Management).

Remarks: There seem no economic instruments for specific lifecycle aspects.

3. UN Sustainable Consumption and Production (SCP) initiatives

http://webapps01.un.org/dsd/scp/public/Welcome.do?gotoScp=Go+to+the+SCP+database

What it is: The Sustainable Consumption and Production (SCP) database provides a basis for reviewing international cooperation mechanisms on SCP.

It can also serve as a source of information on such mechanisms and activities for the use of national and regional initiatives seeking international cooperation. It identifies the organizations active in each area and the nature of their activities, and indicates sources of further information.

Contains: over 100 initiatives covering the scope of "sustainable production and consumption". Search terms: Geographic scope (regions or individual countries); Areas of work (e.g. fields of interest, about 40 items can be selected); Activity types and Target groups.

4. UN Best Practices Database

http://www.bestpractices.org/

What it is: Searchable database that contains over 2,650 proven solutions from more than 140 countries to the common social, economic and environmental problems of an urbanizing world. It demonstrates the practical ways in which public, private and civil society sectors are working together to improve governance, eradicate poverty, provide access to shelter, land and basic services, protect the environment and support economic development.

Contains: Over 2600 initiatives, often at local community level Search terms: Free text search. Lifecycle returned 0 hits; Waste returned 121 hits.

5. EU Sustainable Production and consumption website

http://forum.europa.eu.int/Public/irc/env/wssd/home

What it is: This website provides selected examples on sustainable production and consumption policies and initiatives in a number of EU Member States. It is not a comprehensive list of all existing policies and initiatives from the contributing Member States. It was launched at The European Stakeholder Meeting on Sustainable Consumption and Production in Ostend 24-26 November 2004. *Contains:* Unknown number of initiatives. Search terms: Free text search. Lifecycle returned 2 hits; Waste returned 23 hits. Remarks: Database is not updated. Most information reflects from 2003-2005.

6. EEA's Wastebase

http://waste.eionet.europa.eu/wastebase

What it is: WasteBase is an electronic database with information on waste and waste management in Europe. This includes waste quantities, policies, plans, strategies, and instruments.

Contains: About 200 waste management plans and success stories on waste prevention. Search terms: Free text search. Life cycle returned 3 hits in the section "Waste management plans". There is also a part devoted to "success stories in waste management" which can search in topics like ecodesign, efficient consumption, etc.

7. INFOCAP

http://www.who.int/ifcs/infocap/

What it is: Infocap contains examples related to chemicals management.

Contains: About 600 entries, mostly on projects related to chemicals management, a few policy plans and training and guidance documents.

8. Database on sustainable consumption and production on North America

http://nasca.icspac.net/db/

What it is: The NASCP Database aims at facilitating cooperation among organizations in Canada, United States and Mexico that are interested in promoting sustainable consumption and production. *Contains*: About 200 initiatives related to SCP in North America. Search terms include sector, focus area, country, organisations and tools. Life cycle returned 45 initiatives from merely governmental and academic initiatives.

9. EC JRC's Directory of life-cycle databases, software tools, and service providers

http://lca.jrc.ec.europa.eu

What it is: This online directory provides independent, well structured, and detailed information on service, software and data resources in the area of life cycle thinking in support of business and public authorities.

Contains: Descriptive and multiple classifying information and contact data on presently 100 service providers, 40 databases, and 26 software tools

ANNEX

A. List of the Initiatives

Nr.	Initiative title	Organisation
1	Nordic Roundtable on Business Relations and Sustainable Consumption	GRIP
	and Production in a North/South perspective	
2	National Cleaner Production Centres	UNEP
3	International Declaration on Cleaner Production	UNEP
4	Asia Pacific Roundtable for Sustainable Consumption and Production	UNEP
	(APRSCP)	
5	UNEP's Sustainable Building & Construction Initiative (SBCI)	UNEP
6	3-R initiative (Japan, G8)	G8
7	Sustainable Production and Consumption (SUSPROC) activities of JRC- IPTS	JRC-IPTS
8	International Bio Energy Platform (IBEP)	FAO
9	Bio energy technology	IEA
10	BioTrade initiative	UNCTAD
11	European Platform on Life-Cycle Assessment JRC-IES	RC-IPTS
12	UNEP's Product Service Systems and Sustainability	UNEP
13	Sustainable Public Procurement (Switzerland) - 10-Year Framework of	UN DESA/UNEP consortium
	Programmes on Sustainable Consumption and Production Patterns: The	
	Marrakech Process	
14	Sustainable Building & Construction (Finland) - 10-Year Framework of	UN DESA/UNEP consortium
	Programmes on Sustainable Consumption and Production Patterns: The	
	Marrakech Process	
15	Sustainable Products (United Kingdom) - 10-Year Framework of	UN DESA/UNEP consortium
	Programmes on Sustainable Consumption and Production Patterns: The	
	Marrakech Process	
16	Sustainable Lifestyles (Sweden) - 10-Year Framework of Programmes on	UN DESA/UNEP consortium
	Sustainable Consumption and Production Patterns. The Marrakeen Process	
17	UNEP/SETAC Life Cycle Initiative	UNEP/SETAC consortium
18	UNEP's Design for Sustainability (D4S) Activities	UNEP
19	FAO sustainable Development (activities)	FAO
20	International Panel on the Sustainable Use of Natural Resources	UNEP/EC
21	UNEP/IAPSO Product Criteria Database	UNEP
22	SPC initiatives database - 10-Year Framework of Programmes on	UN DESA/UNEP consortium
	Sustainable Consumption and Production Patterns: The Marrakech Process	
23	Biofuels initiative	UNCTAD
24	SETAC Professional Interest Group on Life Cycle Assessment	EMPA
25	Life Cycle Management International Conference	Swiss Federal Institute of Technology
		(ETH)
26	International Society for Ecological Economists, Research Agenda	International Society for Ecological
		Economists
27	International Society of Industrial Ecology, Research Agenda	International Society for Industrial
		Ecology
28	Collaborating Centre on Sustainable Consumption and Production (CSCP)	UNEP/Wuppertal Institute consortium
	UNEP/WI	

29	ConAccount: Coordination of Regional and National Material Flow Accounting for Environmental Sustainability	ConAccount
30	Circular Economy (China)	National Development and Reform Commission - China
31	Thematic Strategy on the sustainable use of natural resources	European Commission
32	Recommendation of the Council on Material Flow Accounting	OECD
33	Recommendation of the Council on Improving the Environmental Performance of Government	OECD
34	Network Sustainable Consumption Research Exchange	European Commission
35	Environmental Technologies Action Plan	European Commission
36	EU Corporate Social Responsibility	European Commission
37	EEA Topic Centre on Resource and Waste Management	EEA
38	Directive 2005/32/EC of European Parliament and Council establishing a framework for the setting of ecodesign requirements for energy-using products	European Commission
39	Integrated Product Policy (IPP)	European Commission
40	Directive 2000/53/EC of the European Parliament and of the Council of 18 September 2000 on end-of life vehicles	European Commission
41	European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste	European Commission
42a	Directive 2002/96/EC of the European Parliament and of the Council of 27 January 2003 on waste electrical and electronic equipment (WEEE)	European Commission
42b	Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)	European Commission
43	Directive 2006/66/EC of European Parliament and Council on batteries and accumulators and waste batteries and accumulators	European Commission
44	Thematic Strategy on the prevention and recycling of waste	European Commission
45	Sustainable Production and Consumption Working Group	Northern Alliance for Sustainability (ANPED)
46	ICSPAC	ICSPAC
47	Greening of Industry (GIN)	Greening of Industry (GIN)
48	Ceres	Ceres
49	Declaration by the Metals Industry on Recycling Principles	International Council in Mining and Metals (ICMM)
50	Sustainable Development Framework (SDF)	International Council in Mining and Metals (ICMM)
51	Integrated Materials Management (IMM)	International Council in Mining and Metals (ICMM)
52	Mining, Minerals and Sustainable Development (MMSD)	World Business Council for Sustainable Development
53	Cement Sustainability Initiative	World Business Council for Sustainable Development
54	The Global Eco-labelling Network (GEN)	Global Eco-labelling Network (GEN)
55	Eco-efficiency	World Business Council for Sustainable Development
56	Strategic Approach to International Chemicals Management (SAICM)	UNEP
57	North American Sustainable Consumption and Production Database	Intergovernmental Forum on Chemical Safety (IFCS)
58	INFOCAP	Intergovernmental Forum on Chemical Safety (IFCS)
59	SPAC Watch	ICSPAC
60	Global Product Strategy	ICCA
61	ISO 14 000 Family	ISO
62	IEC	International Electrotechnical Commission (IEC)

63	NATO	NATO
64	NAGPI	CEC
65	CIRAIG	Interuniversity Research Centre
66	Yale University Stocks and Flows Project	Yale University
67	Registration, Evaluation, Authorisation and Restriction of Chemicals	European Commission
	(REACH)	_

B. Description of the Initiatives

Nordic Roundtable on Business Relations and Sustainable Consumption and Production 01					
in a North/South Perspective					
		1			
Organisation	group on SCP consortium CPIP is the	GPID was establishe	Description		
Norwegian foundation	for Sustainable Consumption and	Environment GRIP	nromotes and supports sustainable		
Production	for Sustainable Consumption and	Divitoiment. OKii	promotes and supports sustainable		
Description		pi	oddetion and consumption patterns		
The Nordic Roundtable c	ontributes to formulation of UN and EU t	policies on sustainable pr	oduction and consumption Experts		
from business governme	ents academia and NGOs exchanged ex	periences from initiative	s that have been taken to promote		
SCP.	into, academia and 10005 chemanged en	perionees nom minutive	s that have been taken to promote		
Overall objective					
Find out how business re	lations in a North/South perspective can	contribute to more sustai	inable production and consumption		
patterns and what govern	ments and business should do to promote	necessary changes			
Specific goals					
Give concrete examples	of what has been done by business. Iden	tify the driving forces a	nd barriers and identify options to		
strengthen the driving for	ces and lower the barriers				
Results	The results from the roundtable have b	been published as a repo	rt, which is being used to promote		
TT T T	international cooperation in this area	0.51			
Website	http://www.grip.no/nordicroundtable20	105/			
Reports	North/South business relations and Sus	stainable Consumption a	nd Production: A driving force for		
	sustainable development? (Norden, 200	15) 15/2005 04 000/20	· · · · · · · · · · · · · · · · · · ·		
-	http://www.grip.no/nordicroundtable20	05/2005-04-08%20repor	t-final.pdf		
Initiative type	Networking				
Instruments	2005	F . P	2005		
Starting year	2005	Ending year	2005		
Scope of the initiative	Not monified for our hunding on the	Drug drug4	Not monifie		
Sector	Not specific, focus on business sector.	Product	Not specific		
		waste	Not specific		
Env. Impacts	All	Socio-econ. Impacts	aime to minimize environmental		
			impact under present		
			technological and economic		
			limits		
Geographical focus	Target: Nordic countries	Indicators	Various not explicitly		
Geographical locus	impact assessment: Location	Indicators	mentioned		
	independent / World				
Assessment	Accessment				
Usefulness for SMM					
Networking of results and good examples from activities on Sustainable Production and Consumption in businesses					
Relation to other initiatives					
10-year framework of programmes on Sustainable Consumption and Production, SCP					
Contact	Contact				
Mr. M. Standley: martin.standley@grip.no					

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National Cleaner Produ	ction Centres		02	
Organisation United Nations Industrial United Nations Envir Technology, Industry, Production and Consumpt	Organisation Description United Nations Industrial Development Organisation (UNIDO); UNEP is the designated authority of the United Nations in environmental issues at the global and regional level Division of Technology, Industry, and Economics (UNEP-DTIE), Eventorial consumption Branch			
Description				
The UNIDO/UNEP Prog	gramme for National Cleaner Production	on Centres (NCPCs) is	a unique programme of capacity	
building to help developn	nent of the Cleaner Production concept at	t the national level in de-	veloping countries and countries in	
transition	- -		^ -	
Overall objective				
The purpose of an NCPC	is to build local capacity to implement Cl	leaner Production in deve	eloping countries and economies in	
transition. NCPC's target	primarily is to transfer know-how and no	t to transfer only technol	ogy	
Specific goals				
Raise awareness of Clean	her Production through (i) Demonstrate	effectiveness; (ii) Train	local experts; (iii) Help to obtain	
financing for investments:	(iv) Disseminate technical information;	(v) Provide policy advice	2	
Results	There are 24 centres established since 1	994		
Website	http://www.uneptie.org/pc/cp/ncpc/activ	vites.htm		
Reports	http://www.uneptie.org/pc/cp/reportspd	f/NCPCbkgnd.pdf		
Initiative type	Networking			
Instruments				
Starting year	1994	Ending year	Ongoing	
Scope of the initiative				
Sector	Not specific (in developing countries)	Product	Not specific	
Material	Not specific	Waste	Not specific	
Env. impacts	All	Socio-econ. impacts	Taken into account as the	
Geographical focus	Target: Global (developing countries) impact assessment: Location independent/World	Indicators	initiative aims to minimize environmental impact under present technological and economic limits Various, not explicitly men- tioned.	
Assessment				
Usefulness for SMM				
A network for promotion	of cleaner production, if applied to proces	ss chains (i.e. products ar	nd services), is useful for SMM	
Relation to other initiatives				
International Declaration on Cleaner Production				
Contact				
Programme Officer G. Clark				
garrette.clark@unep.fr				

International Declaration on Cleaner Production 03				
OrganisationUnited Nations Environment Programme, Division of Technology, Industry, and Economics (UNEP-DTIE), Production and Consumption BranchUNEP is the environment of the second sec	Description UNEP is the designated authority of the United Nations in environmental issues at the global and regional level			
Description	any and practice of Cleaner Draduction			
The international Declaration is a voluntary but public communent to the strat	egy and practice of Cleaner Production			
To achieve economic, environmental and health/safety benefits by promotential impact under present technological and economic limits	tion of Cleaner Production i.e. the minimum			
Specific goals				
Consensus on a Cleaner Production 'vision': (i) catalyse implementation of	f strategies tools technologies institutes: (ii)			
Support the growing network of organisations: (iii) training and education	on (iv) demonstration projects and technical			
assistance	si, (iv) demonstration projects and technical			
Results The signatory list provides an overview of the s	ignatory organisations, organised by signatory			
category. see at: http://www.uneptie.org/pc/cp/decla	aration/sig list.htm			
Signatory feature shows what signatories ha	we done in the Implementation, see at:			
http://www.uneptie.org/pc/cp/declaration/feature.ht	m			
Website http://www.uneptie.org/pc/cp/declaration/home.htm	1			
Reports				
Initiative type Networking				
Instruments				
Starting year 1998 Ending year	Ongoing			
Scope of the initiative				
Sector Not specific Product	Not specific			
Material Not specific Waste	Not specific			
Env. impacts All Socio-econ. ir	npacts Taken into account as the initiative			
	aims to minimize environmental impact under present technological and economic limits.			
Geographical focus Location independent/World Indicators	Various, most likely MFA or LCA indicators, Economic indicators (investments, proceeds, value added, etc.)			
Assessment				
Usefulness for SMM A network for promotion of cleaner production if applied to process chains (i.e. products and services) is useful for SMM				
Relation to other initiatives				

Asia Pacific Roundtable	Asia Pacific Roundtable for Sustainable Consumption and Production (APRSCP) 04				
Organisation			Description		
United Nations Envir	Jnited Nations Environment Programme, Division of UNEP is the designated authority of the United Nations i				
Technology, Industry,	and Economics (UNEP DTIE),	environmental iss	sues at the global and regional level		
Production and Consumpt	tion Branch				
Description					
To foster dialog among in	dustry, government, academia, and non-	government organization	s in the region to address pollution		
problems and solutions					
Overall objective					
Provide support that will	enhance information flow and human	resources development,	and will strengthen public/private		
partnerships to stimulate t	he promotion and implementation of clea	ner production strategies	and technologies in the region		
Specific goals					
(i) To promote technolog	y and information exchange; (ii) develop	a network ; (iii) foster re	egional cooperation; (iv) encourage		
active participation from	interested stakeholders; (v) to serve as a s	source of analysis and rev	view		
Results	Various notes, handbooks, training m	aterial and papers on in	ndicators, methods and tools, see		
	http://www.aprscp.org/default.htm. Pro	ject on sustainable agric	ulture named BIGAS (Bayer Crop		
	Science Integrated Environmental Gai	ins Along the Supply C	Chain for Sustainable Agriculture)		
	addresses environmental, economic and	d social issues using thr	ee recent tools: the Environmental		
	Performance Indicator System (EPI	or ISO14031), Enviror	imental Management Accounting		
	(EMA) and Phased EMS (BS8555)				
Website	http://www.aprscp.org/default.htm				
Reports					
Initiative type	Networking				
Instruments	1007				
Starting year	1997	Ending year	Ongoing		
Scope of the initiative			21		
Sector	Not specific, concretely there is a	Product	Not specific		
	sustainable agricultural project	***			
Material	Not specific	Waste	Not specific		
Env. impacts	All	Socio-econ. impacts	Taking into account using the		
C	Tanant initiations, Designal (Asia and	T . P t	Variana mast libely MEA		
Geographical focus	Target initiative: Regional (Asia and	Indicators	various, most likely MFA		
	Impact accomment: Location		investments proceeds value		
	independent/World		added etc.		
100 000 m ou t	independent/world added etc.				
Assessment Usofulnoss for SMM					
A network focussed on si	istainability aspects in the Asian pacific r	region based on a life ov	ale annroach		
A network locussed on sustainability aspects in the Asian pacific region based on a fine cycle approach					
Relation to other initiati	ves				
World Summit on Sustainable Development, Task force of the 10-year Framework of Programmes on Sustainable					
Consumption and Product	tion. In addition, various forms of cooperation	ation between APRCP an	d European Commission		
Contact					
mail@aprscp.org					

UNEP's Sustainable Bui	UNEP's Sustainable Building & Construction Initiative (SBCI) 05			
Organisation United Nations Envir Technology, Industry, and and Consumption Branch	Organisation United Nations Environment Programme, Division of Technology, Industry, and Economics (UNEP DTIE), Production and Consumption Branch UNEP is the designated authority of the United Nations in environmental issues at the global and regional level			
Description In partnership with inter (SBCI) to promote and su	national leading companies, UNEP init pport sustainable solutions in the building	iates the Sustainable Bu g and construction sector	ilding and Construction Initiative	
Overall objective To address (environmenta	al) sustainability in the building and const	ruction sector		
Specific goals (i) Establish global basel support of sustainable bui	line scenarios; (ii) develop tools and str lding and construction	ategies; (iii) implement	pilot projects; (iv) promoting and	
Results	Sustainable Building & Co http://www.uneptie.org/pc/SBCI/SB	nstruction Initiative CI_2006_InformationNo	Information note, 2006 te.pdf	
Website	http://www.uneptie.org/pc/home.htm			
Reports	http://www.uneptie.org/pc/pc/SBCI/SB	CI 2006 InformationNo	te.pdf	
Initiative type	Networking			
Instruments				
Starting year	2006	Ending year		
Scope of the initiative				
Sector	Building and construction sector	Product	The entire life span of buildings,	
Material	Construction materials, fuels	Waste	energy Building and construction waste; waste of manufacturers	
Env. impacts	Focus on CO_2 emissions, energy efficiency and depletion of resources and waste generation. Other areas will be defined later.	Socio-econ. impacts	Benefits of construction sector for society will be part of the global baseline scenarios	
Geographical focus	Location independent/World	Indicators	At first CO_2 emissions and energy efficiency	
Assessment				
Usefulness for SMM Initiative deals with environmental impacts of building and construction materials, based on a lifecycle approach				
Relation to other initiatives Cooperation with Task Force Sustainable Building & Construction (Fin) - The Marrakech Process				
Contact SBCI secretariat sbci@unep.fr				

3-R initiative (Japan, G8)					
Organisation			Description		
G8 (Group of Eight)		The G8 Group is an unofficial forum of the heads of the			
		leading industriali	ized democracies (Russia, U.S., Britain,		
		Frai	nce, Japan, Germany, Canada and Italy)		
Description					
The 3R Initiative is a plat	form for governments and internation	al organisations			
Overall objective					
to promote the "3Rs" (red	duce, reuse and recycle) globally so a	as to build a sound-mate	erial-cycle society through the effective		
use of resources and mate	rials and minimization of environmer	ital impacts			
Specific goals					
I Inventory of Nationa	Il Policies and 3Rs				
2 Reduction of Barrier	s to the International Flow of waste				
3 Cooperation between	Developed and Developing Countrie	es			
4 Cooperation among	Stakeholders				
5 Promotion of Scienc	e and Technology Suitable for the 3R	S C1 C C			
Results	3R Portfolios (country inventories	s of best practices of a	Brs) issues and background papers of		
	an huilding a Sound Material Cuala	Society	strategies, many examples from Japan		
Wabsita	http://www.env.go.in/recycle/3r/en/	index html			
Reports	e nup://www.env.go.jp/recycle/3r/en/index.nimi				
Initiative type		outime/issues_paper.pdi			
Instruments					
Starting year	2005	Ending year			
Scope of the initiative					
Sector	Not specific	Product	Not specific		
Material	Not specific	Waste	Not specific		
Env. impacts	All, focus is on waste flows,	Socio-econ. impacts	Environmental improvements if		
	however also a Life Cycle Impact		economic feasible		
	approach is mentioned				
Geographical focus	Location independent/World	Indicators	Most likely various: e.g. focus on		
			material/waste flow indicators, LCIA		
			indicators (e.g. global warming),		
			effectiveness		
Assassment			enectivelless		
Assessment Usefulness for SMM					
Use united for SMM					
and economic impacts T	he reduction of waste by respectively	consumption reduction	reuse and recycling is the core issue of		
the initiative. The network	k will provide many examples.	consumption reaction,			
Relation to other initiati	Ves				
3Rs is promoted as part of	of the 10-Year Framework of Program	nmes on Sustainable Con	nsumption and Production Patterns. the		
Circular Economy concept of China is brought into 3Rs as one of China's strategies for chain management					
Contact		~			
3R@env.go.jp					

Sustainable Production and Consumption (SUSPROC) activities of JRC-IPTS 07				
Organisation			Description	
Joint Research Centre - Institute for Prospective Technological The mission of the IPTS is to provide customer-drive				
Studies (JRC-IPTS)		support to the EU pol	licy-making process by researching	
Unit: Competitiveness &	Sustainability (C&S)	science-based respo	onses to policy challenges that have	
		both a socio-econon	nic and a scientific or technological	
			dimension.	
Description				
SUSPROC supports the	implementation and further developmen	t of the EU strategy for	sustainable development, the EU	
Environmental Action Pla	an and the integration of environmental c	oncerns in other Europea	an policy areas through prospective	
socio- and techno-econom	nic research and method development.			
Overall objective				
To support the policy-ma	king process related to specific priority i	ssues identified in the E	uropean Union's SDS (Sustainable	
Development Strategy) ar	nd EAP (Environmental Action Plan): the	sustainable use of resour	rces and environment and health.	
Specific goals				
 Identification, charac 	terisation and assessment of technologica	l options for sustainable	production and consumption.	
- Development of Env	vironmentally Extended Input-Output to	ols for policy analysis	Assessment of the environmental	
improvement potentia	al of products and of related policy measu	ires.		
- Methodology develo	pment and techno-economic analysis r	elated to the developm	ent and implementation of waste	
policies		-	-	
policies.				
 Prospective analysis of the second sec	on the interactions between innovation, co	ompetitiveness and emplo	oyment.	
 Cost-effectiveness ar 	d cost-benefit analysis to support impact	assessment of policies, r	neasures and technologies.	
Results	Publications on clean technologies, env	vironmental improvement	t potential of products, , regulation	
	& innovation & competitiveness, waste	, environment policy ana	lysis	
	• • • • • • • • •	1 1		
Website	http://www.jrc.es/activities/sustainable_	_development/susproc.cfi	m	
Reports				
Initiative type	method development, information gathe	ering		
Instruments Starting year	1004	Ending yoon	angoing	
Starting year	1994	Enuling year	oligoling	
Scope of the initiative	A 11	Product	1	
Matarial	A11	Wasta	all	
Fny impacts	All types of environmental impacts	Socio-econ impacts	ves	
Env. impacts	(not specified)	Socio-econ. impacts	yes	
Geographical focus	EU	Indicators	Several environmental social	
Geographical locus		Indicators	and economic indicators	
Assessment				
Usefulness for SMM				
Method development and	scenario analysis on integrated environ	mental, economic and so	ocial assessment of production and	
consumption patterns.	, .	,	, I	
Relation to other initiati	ves			
The activities of the actio	n related to the sustainable use of resource	es are concentrated arou	nd the Action Plans on Sustainable	
Production and Consump	tion and on Sustainable Industrial Policy	, the Thematic Strategy	on the Sustainable Use of Natural	
Resources, the Integrated	Resources, the Integrated Product Policy and the Thematic Strategy on the Prevention and Recycling of Waste.			
Contact				
Louis Delgado (action lea	Louis Delgado (action leader)			

International Bio Energ	International Bio Energy Platform (IBEP) 08				
Organisation Description					
Food and Agriculture	Organization (FAO), Sustainable	The FAO has the challenge to satisfy people's rights to food			
Development Departme	ent, Research and Technology	security and, at the	e same time, ensure that the natural		
Division (RTD) - Environ	iment	resource base remains pr	oductive for the future. The FAO's		
		Sustainable Development	t Department - RTD - Environment		
		advises governments	on integrated policy, planning, and		
		-	management of natural resources		
Description					
An international platform	for organizing and facilitating a multidi	sciplinary and global appr	oach on Bio energy.		
Overall objective					
Ensure the delivery of sus	tainable, equitable and accessible bio en	nergy sources and services.			
Specific goals					
Provide information for	policy and decision making: (i) design	n bio energy production	and utilization systems; (ii) Build		
institutional capacity; (iii)) Enhance access to energy services from	m bio energy systems; (iv)	Facilitate exchange, collaboration		
and integration					
Results	Expected outcomes: (1) tools/guidelin	nes for decision-makers; (ii) capacity building and training;		
	(iii) strategies institutionalized; (iv) best-management practices facilitated; (v) synergies with other				
	renewable resource usages; (iv) a fram	nework for implementation	l.		
Website	http://www.fao.org/sd/dim_en2/en2_0	60501_en.htm			
Reports	ftp://ftp.fao.org/docrep/fao/009/A0469	PE/A0469E00.pdf			
Initiative type	information gathering/method develop	oment/networking			
Instruments	2007	D P	2012		
Starting year	2006	Ending year	2012		
Scope of the initiative					
Sector	(Blo) energy	Product	(Bio) energy		
Material	Bio fuels	Waste	Biomass residues and wastes		
			from agriculture, municipal		
F • (waste and industrial waste		
Env. Impacts	All, but mainly depiction of lossil	Socio-econ. Impacts	sustainability criteria are		
Coordinational former	Leastion independent/World	Indiantan	Depletion of recourses amiggion		
Geographical locus	Location independent/world	Indicators	of global warming gases		
Assassmant			of global warning gases		
Assessment Usefulness for SMM					
A network focussed on s	ustainability aspects of bio energy takin	g into account the value of	hain from hiomass resources to hio		
fuel end products includi	ng cost-effective use of organic residues	and wastes as a resource	for high energy		
Relation to other initiati	ves	, and musics us a resolutee .			
Bio fuels initiative also fr	Rio fuels initiative also from UN i.e. UNCTAD				
Contact					
sd-dimensions@fao.org					
su-uniclisions/grad.org					

IEA Bioenergy Technolo	ogy		09		
Organisation	Organisation Description				
International Energy Age	ncy (IEA)	The International Energy Agency (IEA) is an autonomous			
		body within the OECI	D to advise 26 Member countries in		
		their effort to ensure r	eliable, affordable and clean energy		
			for their citizens.		
Description					
IEA Bio energy is an or	ganisation set up in 1978 by the Intern	hational Energy Agency	(IEA) with the aim of improving		
cooperation and informat	ion exchange between countries that have	e national programmes il	i bio energy research, development		
IEA Bio energy aims to a	contents the use of environmentally sour	d and cost competitive 1	nio energy on a sustainable basis		
and thereby achieve a sub	stantial contribution to future energy dem	and cost-competitive i	no energy on a sustainable basis,		
Specific goals	stantial contribution to future energy den	lanus.			
To improve cooperation a	and information exchange between countr	ries that have national pro	ogrammes in bio energy research		
development and deployn	nent	ies that have hattohat pro	grammes in ore energy research,		
For details on tasks, see a	t http://www.jeabjoenergy.com/OurWork	aspx			
For details on Task librar	y, see at http://www.ieabioenergy.com/Li	bLinks.aspx			
For details on IEA Bio en	ergy library, see at http://www.ieabioene	rgy.com/Library.aspx			
Results	The work of IEA Bio energy is carried	out through a series of	Tasks, each having a defined work		
	programme.	c			
Website	http://www.ieabioenergy.com/				
Reports	http://www.ieabioenergy.com/Index.asp	рх			
Initiative type	Networking/information gathering				
Instruments					
Starting year	1978	Ending year	Ongoing		
Scope of the initiative	1		1		
Sector	(Bio) energy	Product	(Bio) energy		
Material	Bio fuels	Waste	Biomass residues and wastes		
			from agriculture, municipal		
F • •		.	waste and industrial waste		
Env. impacts	All, but mainly depiction of fossil	Socio-econ. impacts	Economic sustainability is taken		
Coognaphical forms	L contion independent/World	Indicators	Depletion of resources, emission		
Geographical locus	Location independent/ world	Indicators	of global warming gases cost		
			effectiveness		
Assessment	I		circetiveness		
Usefulness for SMM					
A network focussed on si	ustainability aspects of bio energy taking	into account the value c	hain from biomass resources to bio		
fuel end products, includ	ing cost-effective use of organic residues	and wastes as a resource	e for bio energy. The International		
Energy Agency was foun	Energy Agency was founded in 1974 as an autonomous body within the OECD. Membership consists of 25 of the 29 OECD				
member countries					
Relation to other initiatives					
Contact					
http://www.ieabioenergy.	com/ContactUs.aspx				

Bio Trade Initiative			10
Organisation United Nations Conference on Trade and Development (UNCTAD) Development (UNCTAD) Development (UNCTAD) promotes the development-friendly integration of Division on International Trade and Commodities (DITC)			
Description Bio Trade refers to those derived from native biodi	e activities of collection, production, tra versity under the criteria of environmenta	nsformation, and commonly social and economic su	ercialisation of goods and services Istainability
Overall objective UNCTAD Bio Trade Init Diversity	iative promotes sustainable Bio Trade in	support of the objective	es of the Convention on Biological
Specific goals To set up programmes the derived from biodiversity	hat enhance the capability of developin (e.g. forestry), for both domestic and inte	g countries to produce vernational markets	value-added products and services
Results	At a regional and national level Bio Trade assists developing countries in the formulation and implementation of National Bio Trade Programmes. Criteria are developed to certify sustainable Bio Trade projects		
Website	http://www.biotrade.org/index.htm		
Reports	http://www.biotrade.org/BTFP/BTFP-d	ocs/Concept_Notes/UNC	CTAD_MEA_Workshop_C
Initiative type	Networking		
Instruments	100 5	[
Starting year	1996	Ending year	?
Scope of the initiative		1	1
Sector	Mainly agricultural, forestry and	Product	(Natural) biological resources
Material	Biomass, (natural) biological	Waste	
Env. impacts	Mainly biodiversity and depletion of natural biological resources and genetic material.	Socio-econ. impacts	Social and economic sustainability criteria are included
Geographical focus	Focus on countries which are rich in biodiversity and have a clear interest in developing a national capacity to promote biotrade	Indicators	Criteria to protect biodiversity, however indicators are not explicitly mentioned
Assessment			
Usefulness for SMM Sustainable upchain processes of (exotic) biological resources			
Relation to other initiatives Convention on Biological Diversity (CBD); UNCTAD's Plan of Action (Bangkok, 2002, and São Paulo, 2004) Convention on Biological Diversity (CBD); UN Commission on Sustainable Development (CSD); United Nations Millennium Development Goals (MDG); World Summit on Sustainable Development (WSSD)			
Contact http://www.biotrade.org/I	ntro/Contacts/bti-contacts.htm		

European Platfor	m on Life Cycle Assessment at JRC-IES	5	11
Organisation	sion Joint Research Centre - Institute	The mission of the IES	Description
for Environment a	nd Sustainability (JRC-JES)	support to EU policies	for the protection of the environment
in cooperation wit	h DG Environment. Directorate for	contributing	to sustainable development in Europe
Sustainable Devel	opment and Integration		
Description	• • • •	•	
The project provid	les scientific and technical support for the	development and especially	implementation of life-cycle-related
policies in the EU	U dealing with natural resources, products	s, consumption, and waste.	At the same time it supports private
business in applyin	ng life cycle methods and improves the acc	cess to and quality of data.	
Overall objective			
To improve credi	bility, acceptance and practice of Life C	Cycle Assessment (LCA) in	business and public authorities, by
providing reference	e life cycle inventory data and recommendate	nded methods and life cycle	impact assessment factors for LCA
work and applicati	ons.		
Specific goals			
Furonean Pefere	ale. nee Life Cycle Data System (ELCD) with	inventory data and impact as	sessment factors:
- Handbook of tech	bnical guidance documents for LCA:	inventory data and impact as	sessment factors,
- LCA information	n hub to ease the access to data and meth	hods as well as information	resources (third-party data software
tools, and service	providers) and to facilitate knowledge exch	nange.	resources (and party data, software
Results	News, presentations and minutes at http:	//lca.irc.ec.europa.eu/EPLCA	/news.htm
Website	http://lca.jrc.ec.europa.eu/		
Reports	http://lca.jrc.ec.europa.eu/EPLCA/delive	erables.htm	
Initiative type	Method development, data compilation,	networking, information gath	nering,
Instruments	Information giving, cooperation.		
Starting year	2005	Ending year	2008
Scope of the initia	tive	1	1
Sector	all	Product	all
Material	all	Waste	all
Env. impacts	All types of environmental impacts	Socio-econ. impacts	not covered
Geographical	location independent, world, EU	Indicators	Life-cycle impact assessment
locus Assassment			Indicators
Assessment Usofulnoss for SN	1M		
Supporting busine	ny ass and public authorities in Europe w	ith reference data and reco	ommended methods on Life Cycle
Assessment (I CA)			
Relation to other initiatives			
To support the implementation of the Thematic Strategies on the Prevention and Recycling of Waste and on the Sustainable			
Use of Natural H	Resources, the Integrated Product Policy	(IPP) Communication and	d the preparation of the upcoming
Sustainable Consu	mption and Production (SCP) Action Plan	•	
Contact			
European Platform	n on Life Cycle Assessment		
http://lca.jrc.ec.eu	<u>copa.eu</u>		
lca@jrc.it			

UNEP's Product Se	UNEP's Product Service Systems and Sustainability 12			
Organisation United Nations F	Organisation United Nations Environment Programme Division of UNEP is the designated authority of the United Nations in			
Technology Indus	try and Economics (UNEP DTIE)	environmental iss	uses at the global and regional level	
Production and Cons	roduction and Consumption Branch			
Description	*	L		
Product Service Syst	tems (PSS) invites business to shift its focus	from selling products to se	elling the utility. A mix of products	
and services can the	reby fulfil the same client demands with less	environmental and social i	mpacts	
Overall objective				
To raise awareness of	of Product Service Systems (PSS) as a new c	oncept for business to i	mprove their sustainability	
performance				
Specific goals				
Results	UNEP's publication on Product-Service	Systems and Sustainabil	ity: Opportunities for sustainable	
	solutions (UNEP, 2002)	2		
	UNEP's brochure on The Role of Product	Service Systems in a Sustai	nable Society	
	http://www.uneptie.org/pc/sustain/reports/j	pss/pss-brochure-final.pdf		
	Meeting Report: Meeting of the Retail	Industry on Sustainable D	evelopment (UNEP DTIE, 2002)	
	http://www.uneptie.org/pc/sustain/reports/	Retail/Nov4Mtg2002/MtgR	eport_RetailSustDevp_Nov4.pdf	
	Sustainable Solutions, Developing Produc	cts and Services for the F	uture (Martin Charter and Ursula	
	Tischner (eds.), 2001), Greenleaf Publishir	ng, Sheffield, UK		
Website	http://www.uneptie.org/pc/sustain/design/p	oss.htm		
Reports	http://www.uneptie.org/pc/sustain/reports/	pss/pss-imp-7.pdf		
Initiative type	Networking			
Instruments			- ·	
Starting year	2002	Ending year	Ongoing	
Scope of the initiativ	ve		17	
Sector	Services (all sectors)	Product	Not specific	
Material	Not specific	Waste	Not specific	
Env. impacts	All	Socio-econ. impacts	Not explicitly mentioned	
Geographical	Location independent/World	Indicators	Life Cycle Assessment	
focus			indicators	
Assessment				
Usefulness for SMN	A			
PSS aims at reducing	g material consumption, waste generation an	id environmental impacts b	y equal deliverance of functions by	
shifting from products to services				
Relation to other in	litiatives			
Contact				
sc@unep.fr				
\sim \cdot				

International Task Force Sustainable Public Procurement (Switzerland) - 10-Year Framework of Programmes on			
Sustainable Consumption and Production Patterns: The Marrakech Process13			
Organisation United Nations Departm Sustainable Development Environment programme	nent of Social Affairs, Division for (UN DESA DSD) and United Nations (UNEP).	UN DESA is standards of living, economic and social p the designated	Description the UN department concerned with full employment, and conditions of rogress and development. UNEP is d authority of the United Nations in environmental issues
Description		1	
A voluntary initiative lea	d by a country to promote and support	the implementation of S	ustainable Public Procurement, by
developing tools and supp	borting capacity building in both develope	ed and developing countr	les
To promote and support	the implementation of Sustainable Bubli	a Draguramant (SDD) h	y developing tools and supporting
capacity building in both	developed and developing countries	ic ribeurement (Srr), b	y developing tools and supporting
Specific goals	developed and developing countries		
Development of a toolkit	to implement SPP, research and dissem	nination, implementation	of pilot projects, networking with
stakeholders in different c	countries	, <u>r</u>	••• F····· F···J·····
Results	Not publicly accessible yet		
Website	http://www.uneptie.org/pc/sustain/10ye	ar/taskforce.htm	
Reports	http://www.uneptie.org/pc/sustain/resou	urces/MTF/Fact_sheet_M	ITF_procurement.pdf
Initiative type	Networking		
Instruments			
Starting year	2006	Ending year	?
Scope of the initiative			
Sector	Not specific	Product	Not specific
Material	Not specific	Waste	Not specific
Env. impacts	All	Socio-econ. impacts	Including economic and social
Geographical focus	Location independent/World	Indicators	aspects (costs, benefits) Not explicitly mentioned
Assessment			
Usefulness for SMM A network to support the implementation of SPP in pilot countries. Research on environmental, social, economic and legal aspects of SPP (i.e. chain analysis of up chain processes of materials). Stimulation of cooperation of stakeholders and countries			
Relation to other initiatives			
World Summit on Sustainable Development, Task force of the 10-year Framework of Programmes on Sustainable Consumption and Production (Marrakech process) cooperation with The Marrakech Task Force - Sustainable Products (United Kingdom)			
Contact			
Mr P Kristensen			
philip.kristensen@buwal.	admin.ch		

International Task Force Sustainable Building & Construction (Finland) - 10-Year Framework of Programmes on			
Sustainable Consumptio	on and Production Patterns: The Marra	IKECH Process	14
Organisation			Description
United Nations Departm	nent of Social Affairs, Division for	UN DESA is	the UN department concerned with
Sustainable Development	(UN DESA DSD) and United Nations	standards of living,	full employment, and conditions of
Environment programme	(UNEP).	economic and social p	rogress and development. UNEP is
		the designated	authority of the United Nations in
		-	environmental issues
Description			
A voluntary initiative lea	d by a country to develop local and nati	onal policies and legisla	tion to secure the sustainability of
construction, use and mai	ntenance of the built environment.	· · · · · · · · · · · · · · · · · · ·	······································
Overall objective			
The development of log	cal and national policies and legislatic	on to secure the sustai	nability of construction use and
maintenance of the built e	environment Main focus on energy (effici	ency savings renewable	es)
Specific goals	in the internet in the internet of the interne	eney, suvings, renewable	
A di idian			
Activities:		1)	
background data: mapping	g out the baseline condition (document re	search)	
internal exchange of best	and worst practices (workshop, web)		
research projects on jointl	y determined issues		
dissemination of successf	ul policies		
Results	not publicly accessible yet		
Website	http://www.uneptie.org/pc/sustain/10ye	ar/taskforce.htm	
Reports	http://www.uneptie.org/pc/sustain/resou	irces/MTF/SBC TF min	i ToR 14Feb06.pdf
Initiative type	Networking		
Instruments			
Starting year	2006	Ending year	?
Scope of the initiative			
Sector	Building and construction, transport,	Product	Buildings, (renewable) energy
	energy		
Material	Construction materials (renewable)	Waste	Construction waste
	energy		
Env. impacts	Mainly depletion of fossil fuels and	Socio-econ. impacts	Not explicitly mentioned
-	climate change, but also health and	-	
	fire hazards caused by traditional		
	fuels.		
Geographical focus	Location independent/World	Indicators	Mainly energy efficiency and
	-		carbon dioxide emissions
Assessment			
Usefulness for SMM			
A network to support the	e implementation of concrete projects th	at lead to energy efficie	ency and sustainability of the built
environment globally, considering the impacts of the built environment from resource extraction to demolition.			
Relation to other initiati	ves		
World Summit on Sust	ainable Development, Task force of	the 10-year Framework	of Programmes on Sustainable
Consumption and Produc	tion (Marrakech process) cooperation wit	h UNEP's Sustainable B	Building and Construction Initiative
(UNEP SBCI)			
Contact			
Ms K Taipale			
taipale@hse.fi			

International Task Force Sustainable Products (United Kingdom) - 10-Year Framework of Programmes on Sustainable Consumption and Production Patterns: The Marrakech Process				
Organization Description				
United Nations Departm	nent of Social Affairs Division for	UN DESA is	the LIN department concerned with	
Sustainable Development	(UN DESA DSD) and United Nations	standards of living	full employment and conditions of	
Environment programme	(UNEP)	economic and social n	rogress and development UNEP is	
Environment programme	(orth).	the designated	d authority of the United Nations in	
		the designated	environmental issues	
Description				
A voluntary initiative lea	d by a country to raise awareness of pro	oduct policy as a means	of achieving international product	
development and environ	mental objectives and to encourage coope	eration and innovation on	product eco-design	
Overall objective	<u></u>			
To raise awareness of pro	duct policy as a means of achieving inter	national product develop	ment and environmental objectives	
and to encourage coopera	tion and innovation on product eco-desig	n		
Specific goals	<u> </u>			
Raise awareness of produ	et policy.			
Support practical pro	oduct eco-design			
encourage national n	olicy to improve the environmental perfo	rmance of products		
Construct and estable	ish practical co-operative projects	inance of products		
 Monitor and report p 	rogress			
Results	Not publicly accessible yet			
Wobsito	http://www.upeptie.org/pc/sustain/10ve	ar/taskforce.htm		
Reports	http://www.uneptie.org/pc/sustain/resou	rces/MTE/UK%20TE%	20Sustainable%20produ	
Initiative type	Networking	arees/14111/01x/02011/02	205ustamaole/020produ	
Instruments				
Starting year	2005	Ending year	?	
Scope of the initiative		g,	-	
Sector	Not specific, product manufactures	Product	Not specific	
Material	Not specific	Waste	Not specific	
Env. impacts	All, whole life environmental impacts	Socio-econ. impacts	Not explicitly mentioned	
Geographical focus	Location independent/World	Indicators	Not explicitly mentioned	
Assessment				
Usefulness for SMM				
a network for development	it of databases and methods for chain ana	lysis and management		
Relation to other initiati	ves			
World Summit on Sustainable Development, Task force of the 10-year Framework of Programmes on Sustainable				
Consumption and Production (Marrakech process) a response to a number of international gatherings:				
• 3Rs (Reduce, Reuse, Recycle) Conference, Japan				
Right Lights 6, Shanghai				
G8 Summit, Gleneagles				
UN commission on Sustainable Development				
• UN Marrakech Process				
Contact				
Chris.Baker@defra.gsi.go	ov.uk			

International Task Force Sustainable Lifestyles (Sweden) - 10-Year Framework of Programmes			
Organisation Descr United Nations Department of Social Affairs, Division for Sustainable Development (UN DESA DSD) and United Nations Environment programme (UNEP) UN DESA is the UN department concerne standards of living, full employment, and condit economic and social progress and development. Un the designated authority of the United Nations environmental			Description the UN department concerned with full employment, and conditions of rogress and development. UNEP is d authority of the United Nations in environmental issues
Description A voluntary initiative lea capacity building on edu sustainable lifestyles	ad by a country to support implementation and communication for sustaination	ion of projects on sustai bility; and assembling	nable lifestyles; develop tools and results and inspiring examples on
Overall objective Main goal is to develop a sustainable lifestyles	nd support the implementation of sustaina	able policies and projects	that enable the adoption of
Specific goals Planned outcomes: Communication on Sustainable Consumption such as website, manuals guidelines training courses			
Results Website Reports	Not publicly accessible yet http://www.uneptie.org/pc/sustain/10year/taskforce.htm		
Initiative type Instruments	Networking		
Starting year	2005	Ending year	?
Scope of the initiative			
Sector	Consumers, lifestyle	Product	Not specific
Material Env. impacts	All	Waste Socio-econ. impacts	Not specific Economic and social aspects of consumption will be taken into account by the task force as well
Geographical focus	Location independent/world	Indicators	Based on LCIA methodology
Assessment			
Usefulness for SMM Networking of results and good examples from ongoing work on sustainable consumption, using life cycle analysis of lifestyles. Support for the implementation of projects at the regional and/or sub regional and national level			
Relation to other initiatives World Summit on Sustainable Development, Task force of the 10-year Framework of Programmes on Sustainable Consumption and Production (Marrakech process)			
Contact Ms G Blomquist			
gunilla.blomquist@sustainable.ministry.se			

UNEP/SETAC Life Cyc	UNEP/SETAC Life Cycle Initiative 17			
Organisation United Nations Environment Programme (UNEP) Society of Environmental Toxicology and Chemistry (SETAC)		Description UNEP is the designated authority of the United Nations in environmental issues. SETAC is a non-profit, worldwide professional society engaged in research, development and education of environmental problems and natural resources		
Description International Life Cycle F	Partnership to enable users around the wor	rld to put life cycle thinki	ing into effective practice	
Overall objective To develop and dissemina services over their entire	ate practical tools for evaluating the oppo- life cycle to achieve sustainable developn	ortunities, risks, and trade	e-offs associated with products and	
Specific goals Collect and disseminate management; provide a ba	information on data and methods, rel asis for capacity building;	ation to other tools, su facilitate the use of LC	ccessful applications; support LC C based information and methods	
Results	 UNEP/SETAC Life Cycle Initiative Publications, <i>see</i> at: http://lcinitiative.unep.fr/default.asp?site=lcinit&page_id=F14E0563-6C63-4372-B82F-6F6B5786CCE3 Life Cycle Management (LCM): - Definition study Life Cycle Inventory (LCI): - Definition study; overview globally available LCI databases 			
Website Reports Initiative type Instruments	 Life Cycle Impact Assessment (LCIA): - Summary of LCIA methods http://lcinitiative.unep.fr/ http://www.uneptie.org/pc/sustain/lcinitiative/ Associated Journal: The international Journal of Life Cycle Assessment Networking Giving information 			
Starting year	2002	Ending year	2010	
Scope of the initiative			1	
Sector Material Env. impacts Geographical focus	Not specific Product Not specific Not specific Waste Not specific All Socio-econ. impacts In development Location independent/World Indicators Environmental impacts, det depend on LCIA methodol used			
Assessment				
A network for development of databases and methods for chain analysis and management				
Relation to other initiatives Malmö Declaration Ten years Framework of Programmes on Sustainable Consumption and Production				
Contact http://lcinitiative.unep.fr/	· · ·			

UNEP's Design for Sust	ainability (D4S) activities		18
Organisation Description			
United Nations Envir	ronment Programme, Division of	UNEP is the designated	authority of the United Nations in
and Consumption Branch	L'Economics (UNEP DTIE), Production	environmental iss	sues at the global and regional level
Description			
Activities related to Eco-	design to raise awareness, build capacitie	es and demonstrate pract	ical applications within businesses
in developing economies		o una actionomene prace	
Overall objective			
Activities on Design for	Sustainability are to raise awareness, bui	ld capacities and demon	strate practical applications within
businesses in developing	economies	-	
Specific goals			
Activities on Design for	Sustainability are to raise awareness, bui	ld capacities and demon	strate practical applications within
businesses in developing	economies		
Results	1 Design for Sustainability: A global gu	iide. (in prep)	
	2 Design for Sustainability: A Practical	Approach for Developin	g Economies (in prep)
	More publications can be found at:	11	14.19
Wahaita	http://rosinant.antenna.ni/schet/impro?-	ud=schetres1p3&-10fm	at=resources.ntmi&-view
Reports	http://www.uneptie.org/pc/sustani/desig	in/design-subpage.num	
Initiative type	Networking		
Instruments	The working		
Starting year	2002	Ending year	Ongoing
Scope of the initiative		g,	
Sector	Designers, manufacturers in	Product	Not specific
	developing countries		
Material	Not specific	Waste	Not specific
Env. impacts	All	Socio-econ. impacts	Not explicitly mentioned
Geographical focus	Target group: developing countries	Indicators	Most likely Life Cycle Impact
	Impacts: Location independent/World		Assessment indicators
Assessment			
Usefulness for SMM	1		we at the second solution of the second
D4S is an approach which	n companies can use to improve efficien	cies, product quality and	market opportunities, while at the
same time improving env	are relevent for rouse and/or reculin	up is on developing eco	nomies. Eco-design may take into
account design issues that are relevant for reuse and/or recycling. The target group is developing economies. D4S is one			
been followed by develop	ed economies	and pollution generatin	ig development patterns that have
Relation to other initiati	ves		
iteration to other initiati			
Contact			
sc@unep.fr			

FAO sustainable Develo	pment (activities)		19	
OrganisationFoodFood and Agriculture Organization (FAO)FooSustainable Development Department, Research and Technology Division – Environmenttime th Research		Description Food and Agriculture Organization of the United Nations has the challenge to satisfy people's rights to food security and, at the same time, ensure that the natural resource base remains productive for the future. The FAO's Sustainable Development Department - Research Technology Division - Environment advises governments on integrated policy, planning, and management of natural resources.		
Description FAO has various researc account environmental, so	h and policy projects related to ocial and economic impacts	sustainable agricultura	l production of food and energy, taking into	
Overall objective				
An environmental, econor	mical and social sustainable sec	urity of food (and energy	/) globally	
Specific goals				
Results	numerous projects and data	bases on agriculture a	nd food and energy production, land use,	
Wahaita	biodiversity, climate change, o	desertification, erosion e	tc.	
Reports	http://www.fao.org/sd/			
Initiative type	Information gathering			
Instruments	mormation gathering			
Starting year		Ending year		
Scope of the initiative		Linuing jour		
Sector	Agriculture	Product	Food, energy	
Material	biomass, (natural)	Waste	Biomass residues and wastes from	
	biological resources		agriculture	
Env. impacts	All, related to agricultural	Socio-econ. impacts	Social and economic research of	
	activities		agricultural sector included	
Geographical focus	World, but much focus on developing countries	s on Indicators remote sensing of e.g. biodiversity, climate change, natural resources, desertification, soil erosion etc. time-series records from over 210 countries and territories covering statistics on prices, production and consumption of materials in on agriculture, fisheries, forestry, nutrition, food aid, land use and population		
Assessment				
Usefulness for SMM				
There are many activities related to Geo information, monitoring and assessment of resources etc. But the activities are not				
really chain management/analysis				
Relation to other initiatives				
sd-dimensions@fao.org				

Organisation United Nations Environment Programme, Division of Technology Industry and Economics (UNEP DTIE) Description Established by UNEP, with the support of a wide range governments the European Commission at	ion		
United Nations Environment Programme, Division of Established by UNEP, with the support of a wide range governments the European Commission at			
Technology Industry and Economics (LINEP DTIE) governments the European Commission at	e of		
feemiology, industry, and Economics (Orther Diffe), governments, the European Commission and	and		
Sustainable Consumption and Production Branch representatives from civil society, the new scientific pan	anel		
is part of an international partnership on resour	irce		
managemen	ent.		
Description			
International scientific panel that will look at the impacts on resources and materials used in all phases of their life cycle.			
Overall objective			
To contribute to increasing resource-efficient economic growth in all regions in the world, and to assist in decreasing t	the		
environmental impacts associated with economic growth (de-coupling) in a life-cycle perspective			
Specific goals			
Scientific assessment on the use of resources, advice on gathering of information on the use of resources and environment	ntal		
Impacts in a life cycle perspective, advice on capacity building and international knowledge exchange on the use of resources	es		
Results Panel launched on 9 November 2007			
Website http://www.uneptie.org/pc/sustain/initiatives/resourcepanel/index.htm			
Reports			
Information gathering, scientific assessments.			
Instruments			
Starting year 2007 Ending year ?			
Scope of the initiative	-		
Sector Not specific Product Not specific, as final product natural resources	t of		
Material Not specific, as intermediate material Waste Not specific			
of natural resources			
Env. impacts All, during the full life-cycle of a Socio-econ. impacts Also social and econom	mic		
resource impacts are taken into account.	t.		
Geographical focus Location independent/World Indicators Eco-efficiency, environment	ntal		
impacts (most likely MFA at	and		
LCA indicators), economic an	and		
social impacts			
Assessment			
Usefulness for SMM			
An international scientific panel to assess the environmental and partly the economic and social aspects for sustainab	able		
resource management at the global level.			
Relation to other initiatives			
Input/output to other programmes, like the 10-year framework on sustainable consumption and production, the G8 3R (reduce,			
reuse and recycle) Initiative led by Japan, the Chinese circular economy approach, the EU thematic strategy on the sustainable			
use of natural resources and the UN Millennium Ecosystem Assessment.			
Contact			
sc(@unep.fr			

UNEP/IAPSO Product	Criteria Database		21
OrganisationDescriptionUnited Nations Environment Programme, Division of Technology, Industry, and Economics (UNEP DTIE), Production and Consumption BranchUNEP is the designated authority of the United Nations in environmental issues at the global and regional level			
Description The database intends to or It contains listings of envi	ffer a series of procedural and methodolo	gical approaches to envir	onmentally sustainable purchasing.
Overall objective The primary objective of	the database is to function as an internatio	onal directory on environ	mentally sustainable procurement
Specific goals This database intends to c	offer a series of procedural and methodolo	ogical approaches to envi	ronmentally sustainable purchasing
Results	Database containing procedural and r purchasing	nethodological approach	es to environmentally sustainable
Website	http://www.uneptie.org/pc/sustain/polic	cies/green_find.asp	
Reports	http://www.uneptie.org/pc/sustain/polic	cies/green_find.asp	
Initiative type	Information gathering		
Instruments			
Starting year	2001	Ending year	Ongoing
Scope of the initiative			
Sector	Not specific	Product	Not specific
Material	Not specific	Waste	Not specific
Env. impacts	All	Socio-econ. impacts	not explicitly mentioned
Geographical focus	Location independent/World	Indicators	Most likely LCA indicators
Assessment			
Usefulness for SMM			
The database contains examples of SMM i.e. green purchasing initiatives and the used procedural and methodological			
approaches			
Relation to other initiatives			
Related to Marrakech Task Force - Sustainable Public Procurement			
Contact			
sc@unep.fr			
or an an april			

Sustainable Consumption and Production initiatives (SCPI) database - 10-Year Framework of Programmes on Sustainable Consumption and Production Patterns: The Marrakech Process 22			
Organisation United Nations Department of Social Affairs -Division for Sustainable Development (UN DESA DSD) United Nations Environment programme (UNEP)		rrakech Process 22 Description UN DESA is the UN department concerned with standards of living, full employment, and conditions of economic and social progress and development. UNEP is the designated authority of the United Nations in environmental issues	
Description Database containing initiatives on Sustainable Consumption and Production. Serves as a source for information and possible cooperation			
Overall objective	Sustainable Consumption and Droduction	Initiatives all ever the w	rould
Specific goals Review international cooperation Identification of mechanisms, activities and organisations involved in SCPI			
Results Website Reports Initiative type Instruments	SCP initiatives database is operational http://webapps01.un.org/dsd/scp/public/Welcome.do http://webapps01.un.org/dsd/scp/public/Welcome.do Information gathering		
Starting year	Unknown	Ending year	Unknown
Scope of the initiative			
Sector Material Env. impacts	Not specific Not specific All	Product Waste Socio-econ. impacts	Not specific Not specific Included in some of the listed
Geographical focus	Various geographical scales, depends on initiative, but mainly global	Indicators	Initiatives Initiative dependent
Assessment			
Usefulness for SMM The database contains initiatives related to consumption and production chain analysis and management			
Relation to other initiatives World Summit on Sustainable Development, Task force of the 10-year Framework of Programmes on Sustainable Consumption and Production (Marrakech process)			
Contact http://www.un.org/esa/sustdev/contact.htm			

Biofuels initiative			23
Organisation			Description
United Nations Confe	rence on Trade and Development	UNCTAD promotes th	ne development-friendly integration
(UNCTAD)	*	of Division on In	ternational Trade and Commodities
			(DITC)
Description			
An international expert g	roup to help developing countries increa	use the production, use, a	and trade of bio-fuels resources and
technology			
Overall objective			
The aim of the initiative i	s to help developing countries make the n	nost of their renewable e	nergy potential
Specific goals	· · · · · · · · · · · · · · · · · · ·	Di. C. 1	· · · · · · · · · · · · · · · · · · ·
Main goals are economi	c and social development by developing	g Biofuel activities in d	eveloping countries. Land-use and
environmental problems	Will be taken into account	······	ntring Including on accomment of
Results	Sectoral leasibility studies available for	or a small group of cou	intries. Including an assessment of
Wabsita	http://www.unctad.org/Templates/Page	asp?intItemID=4004&lc	$n \sigma = 1$
Poports	http://www.unctad.org/templates/Webf	lver asp?docID=5001&ir	mg^{-1}
Initiative type	Networking	iyer.asp: doerD 5771æn	intening 100-relang 1
Instruments	Tetworking		
Starting year	2005	Ending year	?
Scope of the initiative			
Sector	Bio energy sector in developing	Product	Energy
~~~~~	countries	Trouter	8)
Material	Bio fuels	Waste	Certified emission reductions
			(CERs)
Env. impacts	Depletion of fossil fuels, climate	Socio-econ. impacts	Primary focussed on economic
	change certified emission reductions		and social issues in developing
	(CERs)		countries
Geographical focus	Developing countries	Indicators	primary: economic, social,
			secondary: environmental (land
			use, climate change) certified
			emission reductions (CERs)
Assessment			
Usefulness for SMM			
Mainly relevant for the assessment of different options of treatment of agricultural products and waste for energy production			
Relation to other initiatives			
The Expert Meeting on the New and Dynamic Sectors of World Trade			
International Bio Energy Platform from FAO			
UNCTAD/Earth Council Institute - Carbon Market Programme			
Clean Development Mechanism, see:			
http://unfccc.int/kyoto_protocol/mechanisms/clean_development_mechanism/items/2718.php			
Contact			
info@unctad.org			

SETAC Professional Interest Group on Life Cycle Assessment 24				
Organisation SETAC (Society of Environmental Toxicology and Chemistry)		Description SETAC is a non-profit, worldwide professional society engaged in research, development and education of environmental problems and natural resources		
Description				
An international infrastru	acture to support the mission of the SE	TAC and SETAC Euro	pe Life-Cycle Assessment (LCA)	
groups in advancing the s	groups in advancing the science, practice, and application of LCA and related approaches worldwide			
Overall objective	Overall objective			
To advance the science, p	ractice, and application of LCA to reduce	the resource consumption	on and environmental burdens	
associated with products,	packaging, processes, or activities	1		
Specific goals				
Core tasks in	clude planning and organizing LCA se	essions and conferences	, coordination of topical working	
groups, preparation and	global integration of SETAC LCA publ	ications, and promotion	of the UNEP/SETAC Life-Cycle	
Initiative				
Results	SETAC books on LCA methodology Io	urnal: Integrated Enviro	nmental Assessment and	
	SETAC books on LCA methodology journal: integrated Environmental Assessment and Management Journal: Environmental Toxicology and Chemistry, SETAC meetings, incl. I.C.A.			
Wabsita	Management- Journal: Environmental Toxicology and Chemistry- SETAC meetings, Incl. LCA			
Poports	nup.//www.setae.org/nubes/who_intgrj			
Initiativo typo	Method development			
Instruments	Wethod development			
Starting yoar		Ending yoor		
Starting year		Enung year		
Scope of the initiative	Not specific	Product	Not specific	
Matorial	Not specific	Weste	Not specific	
Fny impacts	environmental aspects and potential	Socio ocon importe	Not specific	
Env. impacts	environmental impacts (e.g. resource	Socio-econ. impacts	According to the SETAC LCA	
	use and environ-mental consequences		definition LCA does not address	
	of releases) throughout a product's		economic considerations or	
	life cycle		social effects	
Geographical focus	Various, depends on method	Indicators	Various, depends on method	
Assessment	· ····································		·	
Usefulness for SMM				
Methodology development supporting SMM studies and policies				
Relation to other initiatives				
Contect	be I AC Life Cycle Initiative			
SETAC Europa				
setac@setaceu.org				
setae@setaceu.org				

Life Cycle Management International Conference 2007 25			
Organisation Description			Description
Swiss Federal Institute of Technology (ETH) Zurich		ETH Zurich is a science and technology university in the	
		engineering science	es and architecture, system-oriented
		sciences, mat	hematics and natural sciences areas
Description			
Bi-annual international con	nference on Life Cycle Management		
Overall objective			
Facilitate exchange of know	owledge between researchers, academic	s, and professionals from	m industrial enterprises and public
institutions working on the	e application and implementation of l	ife cycle approaches, me	thods and tools for sustainability
Specific goals			
Results	Articles on various topics are publishe	d in the previous LCM	2005 Proceeding Book- LCM2007
	has published a preliminary list of sessi	ons in LCM2007	
Website	http://www.lcm2007.org/		
Reports	http://www.etseq.urv.es/aga/lcm2005/index.jsp		
Initiative type	Method development		
Instruments		1	1
Starting year	2003	Ending year	Ongoing
Scope of the initiative		1	1
Sector	Not specific, including waste	Product	Not specific
	management and recycling		
Material	Not specific	Waste	Not specific
Env. impacts	Various, depends on method	Socio-econ. impacts	Economic and sometimes social
			aspects might be part of the
<i>a</i>	** * * * * * *	<b>- -</b> .	methodology
Geographical focus	Various, depends on method	Indicators	Various, depends on method
Assessment			
Usefulness for SMM			
Methodology development supporting SMM studies and policies			
<b>Relation to other initiativ</b> LCM2005	ves		
Contact			
ETH			
info@lcm2007.org			
http://www.lcm2007.org/contact.html			

International Society for Ecological Economists, Research Agenda 26				
Organisation	Organisation Description			
International Society for Ecological Economists (ISEE)		ISEE is a not-for-pro-	fit, member-governed, organization	
, , , , , , , , , , , , , , , , , , ,		dedicated to advancing	g understanding of the relationships	
		among ecological, socia	al, and economic systems for nature	
Description				
The International Society	for Ecological Economists (ISEE)	facilitates understanding betw	veen economists and ecologists and	
the integration of their thinking into a trans-discipline aimed at developing a sustainable world				
Overall objective				
ISEE is a not-for-profit,	member-governed, organization de	edicated to advancing understa	anding of the relationships among	
ecological, social, and eco	onomic systems for the mutual well-	-being of nature and people		
Specific goals				
The Society assists its m	nembers and ecological economists	s generally, regional societies	of ecological economics, related	
societies, and other organ	izations in such matters of commor	n concern as can be dealt with i	more effectively by united action	
Results	ISEE newsletter- Journal Ecologi	ical Economics- listing of EE	meetings & conferences- listing of	
	EE research programmes- listing	of EE education		
Website	http://www.ecoeco.org			
Reports				
Initiative type	Method development			
Instruments				
Starting year	2001	Ending year	Ongoing	
Scope of the initiative				
Sector	Not specific	Product	Not specific	
Material	Not specific	Waste	Not specific	
Env. impacts	Various, depends on method	Socio-econ. impacts	Relationships among ecological,	
			social, and economic systems	
Geographical focus	Various, depends on method	Indicators	Various, depends on method	
Assessment				
Usefulness for SMM				
Methodology development supporting SMM studies and policies				
Relation to other initiatives				
Contact				
International Society for Ecological Economics				
http://www.ecoeco.org/about/contact.htm				

International Society of Industrial Ecology, Research Agenda 27				
Organisation			Description	
International Society for Industrial Ecology (ISIE)		The ISIE promotes industrial ecology as a way of finding		
		innovative solu	tions to complicated environmental	
		problems, an	d facilitates communication among	
	scientists, engineers, policymakers and manag			
Description				
A platform for scientists t	A platform for scientists to promote industrial ecology, i.e. integrate environmental concerns and economic activities			
Overall objective				
The mission of the ISIE is	s to promote the use of industrial ecology	in research, education,	policy, community development,	
and industrial practices				
Specific goals				
The mission of the ISIE is	s to promote the use of industrial ecology	in research, education,	policy, community development,	
and industrial practices				
Results	ISIE newsletter- Journal of Industrial I	Ecology- listing of IE co	onferences- listing of IE Academic	
	programmes- listing of IE dissertations			
Website	http://www.is4ie.org			
Reports				
Initiative type	Networking			
Instruments		1		
Starting year	2001	Ending year	Ongoing	
Scope of the initiative		1		
Sector	Not specific	Product	Not specific	
Material	Not specific	Waste	Not specific	
Env. impacts	All	Socio-econ. impacts	Various, depends on method	
Geographical focus	Various, depends on method	Indicators	Various, depends on method	
Assessment				
Usefulness for SMM				
Academic discourse, methodology development and case studies supporting SMM studies and policies				
Relation to other initiatives				
Contact	la adu			
Secretary ISIE, IsHe@yale.edu				
http://www.1s41e.org				
Collaborating Centre on Sustainable Consumption and Production (CSCP) UNEP/Wuppertal Institute 28				
----------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------	----------------------------------	-----------------------------------------------------------------------------------------------------	--
Organisation United Nations Environm Wuppertal Institute (WI)	ent Programme (UNEP)	UNEP is the designated	<b>Description</b> d authority of the United Nations in ues at the global and regional level.	
		The Wupperta sustainability w	Il Institute is a knowledge centre on with focus on ecology, economy and society	
<b>Description</b> The CSCP is a not-for-p	rofit think-tank and "do-tank" from the	collaboration between t	wo institutions: the UNEP and the	
Wuppertal Institute.           Overall objective           Control to provide scientific			no in the Sold of SOD	
Specific goals Report trends in SCP	to support to activities undertaken by ON	EF and other organisatio	iis in the field of SCP	
$\Rightarrow$ Contribute to the imp	plementation of policies and measures air	ned at SCP patterns		
$\Rightarrow$ Support private sector	ors/consumers in understanding their role	in achieving SCP pattern	15	
$\Rightarrow$ Achieve cooperation	and leverage with partners			
Results	A newly established organisation the	at will generate and e	valuate initiatives on Sustainable	
Website	http://www.scp-centre.org/			
Reports	http://www.uneptie.org/pc/sustain/resou	urces/CSCP_Brochure.pd	lf	
Initiative type	Networking			
Instruments				
Starting year	2005	Ending year	Ongoing	
Scope of the initiative				
Sector	Not specific	Product	Not specific	
Material	Not specific	Waste	Not specific	
Env. impacts	All	Socio-econ. impacts	Also economic and social	
Geographical focus	Location independent/World Indicators Various, most likely MFA indicators and LCA indicators			
Assessment				
Usefulness for SMM CSCP is a research institute focussed on SMM in the areas of both scientific research and project implementation				
Relation to other initiatives				
Contact	Contact			

ConAccount			29
Coordination of Regional	and National Material Flow Accounting	for Environmental Susta	inability
Organisation		D 1 1 0	Description
ConAccount		Research platform	n informally managed by a steering
		committee of	Wuppertal Institute, IFF, CML and
			Statistics Sweden
Description			
Overall objective			
Establishing a platform for	or research in the area of Material Flow A	ccounting and Substance	e Flow Analysis
Specific goals			
To support the information	on exchange between the scientists develo	oping MFA and the users	s of the results, to provide the basis
for the development of a	coherent framework of MFA methodolog	y, to promote the use of I	MFA for statistics and policy
Results			
Website	www.conaccount.net		
Reports			
Initiative type	Method development, networking		
Instruments			
Starting year	1996	Ending year	Ongoing
Scope of the initiative			
Sector	All sectors	Product	Not specific
Material	Not specific	Waste	Not specific
Env. impacts	All/none	Socio-econ. impacts	none
Geographical focus	All scale levels	Indicators	Related to societal metabolism
			of mass, materials, substances
Assessment			
Usefulness for SMM			
Methodology development	nt supporting SMM studies and policies		
Relation to other initiati	ves		
No formal relationship			
Contact			
www.conaccount.net, Ste	tan_Bringezu: stefan.bringezu@wupperin	nst.org	

Circular Economy (China) 30				
Organisation China Council for Interna Environment and Develo Circular Economy	nisation a Council for International Cooperation on ronment and Development, Task force on ilar Economy Communication development, Task force on Communication development, Task force on Commun			Description e Chinese Government, CCICED is ninate international experience and development, to carry out in-depth s environment and development, to to the Chinese Government, and to ecessary, with a view to integrating tring the sustainability of economic development in China
Description The CCICED Task Forces environment and develop materials use can only be	s organise meetings and oment. The Task Force sustainable in case of a	l conferences and Circular Econom circular economy	advices the Chinese gove y started from the obse where materials are for	ernment on issues of (international) ervation that the current growth in a large part recycled.
<b>Overall objective</b> The object of the Task For economy in China based run development targets, contributions to promote t	orce on Circular Econor on the review of both d to provide policy sim the development of circ	my is to identify plots to identify plots to identify plots and foreing the second sec	priority areas and provide gn experience, incentive lysis based on suitable	e policy system to develop circular theory as well as current and long quantitative models, and to make
Specific goals Development based on the circular economy becomes essential for China to reach an overall well-off (shao kong) society by sustaining fast-paced economic growth while mitigating negative ecological impact and creating more job opportunities. This society is defined as quadrupling the country's GDP from 2002 to 2020, while enhancing social equality and environmental				all well-off (shao kong) society by eating more job opportunities. This social equality and environmental
Results Website Reports	http://eng.cciced.org/cn/company/Tmxxb143/fl143.asp?siteid=1&lmid=5236			
Initiative type Instruments	networking			
Starting year	1992 (CCICED), 2002	2 (CE)	Ending year	Ongoing
Scope of the initiative	A 11		D., 1.4	Not see 26
Sector Material	All sectors		rroduct Waste	Not specific
Env. impacts	All/none		Socio-econ. impacts	none
Geographical focus	China		Indicators	None mentioned
Assessment				
Usefulness for SMM Legislation will be developed to implement a circular economy.				
Relation to other initiatives No formal relationship				
Contact secretariat@cciced.org				

Thematic Strategy on the Sustainable Use of Natural Resources       31				
Organisation European Union European Commission DG Environment	Description The European Union is a union of 27 European countrie The European Commission is the executive body of the EU The Directorate General for the Environment develops and enforce environmental legislation in EU			
<b>Description</b> Overarching policy plan t be applied through existin	o reduce the impacts on and emerging enviror	the environment	from our use of natural r t the level of the EU mer	esources. The approach set out will nber states.
<b>Overall objective</b> To reduce the negative entropy referred to as de-coupling	nvironmental impacts g . For renewable resourc	generated by the use this means also	use of natural resources in the staying below the threshold the staying below the threshold the stay of the stay o	in a growing economy – a concept nold of overexploitation.
Specific goals (i) Data Centre to enhance High-Level Forum which	e and improve knowled discusses national meas	dge on resource t sures; (iv) an Inte	use and environmental in rnational Panel on the sur	npacts; (ii) develop indicators; (iii) stainable use of natural resources.
Results Website	The Commission will review the progress made in achieving the strategy's objective in 2010 and then every five years. This review will feed into the final evaluation of the Sixth EAP http://ec.europa.eu/environment/natres/			
Reports Initiative type Instruments	http://ec.europa.eu/environment/natres/pdf/com_natres_en.pdf policy measures, information gathering To be developed, the EC thinks primarily at economic instruments (tax differentiation.).			
Starting year	2006		Ending year	2030
Sector Material Env. impacts Geographical focus	All sectors Natural resources All EU and it's worldwide	e impacts	Product Waste Socio-econ. impacts Indicators	Not specific Not specific To be taken into account but not main orientation To be developed in 2008 in cooperation with Data centres (Eurostat)
Assessment Usefulness for SMM The development in the Thematic Strategy will be relevant for OECD-SMM as many of the challenges (i.e. defining indicators, defining policy instruments) are similar to that of SMM Relation to other initiatives Formal relation to the thematic Strategy on Waste and the IPP Directive. Relation to UN initiatives especially in the field of the International Panel (#20)				
Contact				

Recommendation of the	<b>Council on Material Flow Accounting</b>		32	
Organisation Description				
Organisation for Econo	omic Cooperation and Development	The OECD provid	les governments with the analytical	
(OECD), Working Grou	p on Environmental Information and	basis to develop environmental policies that are effective		
Outlooks (WGEIO)	-	and economically efficient, amongst others through		
		performance reviews, o	data collection, policy analysis, and	
		projections. WO	GEIO advises on methodologies for	
		environmental in	dicators and accounting systems; it	
		issues recommendation	ns that help countries improve their	
		environmental inform	nation systems and produce reliable	
			data	
Description				
Initiative that urges OECI	D member countries and the OECD to def	ine and implement a frar	nework for material flow accounts	
Overall objective				
Take steps to improve inf	ormation on material flows, including its	quality and relevance for	environmental management	
Specific goals				
Develop methodologies t	o enhance knowledge of material flows	within and among count	ries; consolidate and improve data	
collection; develop tools t	to measure resource productivity and ma	terial flows including	estimation methods, accounts and	
indicators				
Results	In 2007 there will be a report to the	e Council on progress a	achieved by Member countries in	
	implementing this Recommendation a	nd auxiliary materials,	like a Guidance Manual, will be	
	written			
Website				
Reports	http://www.oecd.org/dataoecd/3/63/315/1298.pdf			
Initiative type	Method development			
Instruments	2004	<b>F</b> 1		
Starting year	2004	Ending year		
Scope of the initiative				
Sector		Product	Not specific	
Material	Not specific	Waste		
Env. impacts	weight of throughput of materials in	Socio-econ. impacts	No attention	
Coordinational former	orco	In dia stars	MEA toma aftin diastant	
Geographical locus	OECD	Indicators	MFA type of indicators	
Assessment Usofulnoss for SMM				
Usefulness for SMM Motorial flow accounts can if detailed arough the a teal to analyze accounty wide trands in material consumption. Some of				
the indicators in the MEA framework may provide a rough estimation of future trends in waste disposal				
Relation to other initiati	ves	ion of future trends in we		
To the OFCD WGWPR SMM initiative				
Contact				
Dr. Yuichi Moriguchi, mo	origuti@nies.go.jp			
	00-0-0-jp			

Recommendation of the Council on Improving the Environmental Performance of				
Government			33	
Organisation			Description	
Organisation for Econo	omic Co-operation and Development	The OECD provid	les governments with the analytical	
(OECD), Working Party	on National Environmental Policies	basis to deve	elop environmental policies that are	
(WPNEP)		environmentally en	ffective and economically efficient,	
		amongst others	through performance reviews, data	
		collecti	on, policy analysis, and projections	
Description				
Initiative recommends O	ECD member states to take measures to	introduce and stimulate	Green Public Procurement Policies	
(GPP). The initiative gi	ves an overview of GPP in member	countries and investigation	ates barriers, implementation and	
measurement issues				
Overall objective	that Mamhar acustrics take greater acco	unt of any iron montal as	neiderations in public progurament	
The OECD recommends	that Member countries take greater acco	formoneo of nublic process	rement	
Specific goals	n order to improve the environmental per	tormance of public proce	nement	
Specific goals	develop grooper public purchasing polici	as amongst others by pr	aviding policy inconting	
development of indicators	actions schemes	es amongst others by pro	oviding policy incentives,	
December of indicators	Conferences have been held publication	n of the Recommondation	n Recently special interest was put	
Results	on issues of chemical safety in green pr	ocurement	n. Recently special interest was put	
Wahsita	on issues of chemical safety in green procurement			
Reports	http://webdomino1.oecd.org/horizontal/oecdacts.nsf/linkto/C(96)39			
Initiative type	Method development			
Instruments	Wellou development			
Starting year	1996	Ending year	NA	
Scope of the initiative			I.	
Sector	Government	Product	Not specific	
Material	Not specific	Waste		
Env. impacts	All	Socio-econ. impacts	No	
Geographical focus	OECD with worldwide consequences	Indicators	Indicators need to be developed	
Assessment				
Usefulness for SMM				
Green procurement can be seen as a way to minimize environmental impacts over the lifecycle and is hence related to				
prevention				
Relation to other initiatives				
Contact				

Network Sustainable Co	nsumption Research Exchange	(SCORE)	34	
Organisation			Description	
The Network project SCC	DRE	SCORE acts as one of the EU	I's central support structures for the	
		UN's 10 Year Framew	ork of Programmes for Sustainable	
	Consumption and Production (SCP			
Description				
An initiative funded by th	e EU to establish a network on Su	istainable Consumption and Proc	duction	
Overall objective				
In a series of workshops	and conferences they analyse th	e state of the art in SCP resear	ch, and promote cases of (radical)	
sustainable consumption	for mobility, agro-food and energy	y use.		
Specific goals				
To gain understanding in	the concept of SCP and how a 'ra	idical' change to SCP may be go	verned and realised: in workshops.	
cases will be analysed on	'implementability', and policy 'pr	rescriptions' will be worked out	that can support implementation	
Results	Two workshops have been held.			
Website	http://www.score-network.org/s	core/score module/index.php		
Reports				
Initiative type	Networking			
Instruments	8			
Starting year	2005	Ending year	2008	
Scope of the initiative		· · · · · ·		
Sector	Not specific	Product	Not specific	
Material	Not specific	Waste		
Env. impacts	All	Socio-econ. impacts	Yes	
Geographical focus	World	Indicators	No indicators	
Assessment				
Usefulness for SMM				
Can be a network which is relevant for SMM especially when it comes to implementing policies taking a life-cycle				
perspective and introduction of cases relevant to SMM				
Relation to other initiatives				
UN's SCP-initiative				
Contact				
Arnold Tukker: arnold.tul	kker@tno.nl			

<b>Environmental Technol</b>	ogies Action Plan		35	
Organisation			Description	
European Union		The Europ	pean Union is a union of 27 European countries	
European Commission		The Europea	an Commission is the executive body of the EU	
DG Environment		The Directorate Gen	eral for the Environment develops and enforces	
	environmental legislation in EU			
Description				
Concrete steps and a f	ramework for enhancing th	ne development and d	issemination of environmental technologies,	
emphasising synergies be	tween the three dimensions of	of sustainable developm	ent taking into account environmental impacts	
outside EU				
Overall objective		4	structure income the surflite of life of	
Aims to namess the full	potential of technology to rec	auce pressures on our n	atural resources, improve the quality of the of	
	nulate economic growth			
The entire proposed fol	l into three main astagarias:	gotting from research	to markets; improving market conditions; and	
acting globally	i into unce main categories.	getting from research	to markets, improving market conditions, and	
Posults	Technology platforms have	heen established in te	chnological areas relevant for eco-innovation	
Results	Networks of testing centres	are being established an	d should prepare the ground for a possible FU-w	
Website	http://ec.europa.eu/environr	ment/etan/index_en_htm	a should prepare the ground for a possible 10-w	
Reports	http://eur-lex europa eu/Lex	UriServ/site/en/com/200	)4/com2004_0038en01_ndf	
Initiative type	R&D			
Instruments				
Starting year	2004	Ending year	NA	
Scope of the initiative	•			
Sector	Not specific	Product	Not specific	
Material	Not specific	Waste		
Env. impacts	All types of impacts	Socio-econ. impacts	Yes	
Geographical focus	EU with worldwide	Indicators	No indicators	
	consequences			
Assessment				
Usefulness for SMM				
The ETAP is not limited	to end-of-pipe technologies b	ut explicitly aims to redu	ace negative environmental impacts throughout	
the life-cycle. Life cycle c	costing promotion is part of E	TAP. ETAP can be perce	eived as a means towards prevention	
Relation to other initiatives				
EU Sustainable Developn	nent Strategy			
Contact				

EU Corporate Social Re	sponsibility		36	
Organisation			Description	
European Union	The European Union is a union of 27 European countrie			
European Commission	The European Commission is the executive body of the E			
DG Environment		The Directorate Gener	al for the Environment develops and	
		enfo	rces environmental legislation in EU	
Description				
An EU Strategy to prom	ote CSR (Corporate Social Respo	onsibility). The Communication	n on CSR was based on a series of	
consultation rounds with	member states and the business se	ctor after the publication of a C	Green Paper on CSR in 2001	
<b>Overall objective</b>				
To promote CSR in the E	U			
Specific goals				
Raising awareness and in	proving knowledge on CSR and	reporting on its achievements;	Helping to mainstream and develop	
open coalitions of cooperations	ation; Ensuring an enabling enviro	onment for CSR	1 0 1	
Results	Various conferences, working g	groups and documents have be	en prepared. A new Communication	
	on CSR has been established in	2006.		
Website	http://ec.europa.eu/employment	social/soc-dial/csr/index.htm		
Reports	Communication on CSR(COM(	2006/136 final) of 22.03.2006	1	
Initiative type	All	, , ,		
Instruments				
Starting year	2001	Ending year	NA	
Scope of the initiative				
Sector	Business sector	Product	Not specified	
Material	Not specified	Waste		
Env. impacts	All types of environmental impa	act Socio-econ. impacts	Yes through promotion of core	
_			labour standards in bilateral	
			agreements	
Geographical focus	EU with worldwide consequence	es Indicators	No indicators have been	
	developed			
Assessment				
Usefulness for SMM				
CSR can be an important vehicle for SMM				
Relation to other initiati	ves			
The EU Communication	COM(2002)82 "towards a global i	partnership for sustainable deve	elopment" (13.2.2002)	
Contact		I I I I I I I I I I I I I I I I I I I	1 ( - · · · · )	

EEA Topic Centre on R	esource and Waste Management		37
Organisation			Description
EEA		The EEA is an agend	cy of the European Union (EU) and
		one of the decentra	lised Community bodies. The EEA
		aims to support su	ustainable development through the
		provision of targeted,	relevant and reliable information to
			policy-making agents
Description			
See above			
Overall objective			
The mission of the Topic	c Centre is to provide reliable and compa	rable data and informati	ion on resource and waste for each
country in Europe to deci	sion-makers and the public		
Specific goals			
(i) Management and anal	ysis of data on waste and material flows,	incl. development and u	pdate of indicators and fact sheets;
(ii) Assessment of policy	instruments; (iii)	Estimating environmenta	al impacts of waste and resources
Results	Establishment of Wasteba	se: an electronic datab	ase with selected information on
	waste and waste manageme	nt in Europe	ase with selected information on
Wahsita	http://waste eionet europa eu/	in in Europe	
Donorts	Many report to be downloaded from their website		
Initiative type	Information gathering	ien website.	
Instruments	information gathering		
Starting year	1997	Ending year	NA
Score of the initiative	1777	Linuing year	
Sector	not specific special orientation on	Product	Not specific
~~~~~	waste	1100000	
Material	Not specific	Waste	Not specific
Env. impacts	All environmental impacts but	Socio-econ, impacts	
paeus	special orientation on waste	socio ccom impacto	
Geographical focus	EEA	Indicators	Strong focus on MFA related
Geographicar rocus		indicators	indicators combined with
			research into lifecycle impacts
Assessment	1	1	
Usefulness for SMM			
Useful as source of info	ormation on wastes and material flows.	Wastebase can be used	to investigate initiatives in EEA
countries			0
Relation to other initiati	ives		
The Topic Centre is part of	of the European Information and Observation	tion Network (Eionet), se	et up to help the
EEA to retrieve information, identify issues and produce information on Europe's environment			
Contact	- •		
(Mr.) Pawel KAZMIERC	ZYK: Pawel.Kazmierczyk@eea.eu.int		
<u> </u>			

Directive 2005/32/EC of European Parliament and Council establishing a Framework for					
the setting of Ecodesign	the setting of Ecodesign Requirements for Energy-using Products 38				
Organisation			Description		
European Union	The European Union is a union of 27 European countr				
European Commission		The European C	ommission is the executive body of the EU		
DG ENV		The Directorate	General for the Environment develops and		
			enforces environmental legislation in EU		
Description					
This framework directive	defines the principles, conditions a	nd criteria for setting en	vironmental requirements for energy-using		
appliances (eco-design)					
Overall objective					
Establishing a framework	for eco-design for energy-using pro-	oducts to ensure free mov	rement in internal market. Setting of		
requirements which the er	nergy-using products must fulfil in o	order for them to be place	ed on the market and/or put into service		
Specific goals					
No concrete targets or goa	als are set in the directive. Some pri-	ority product groups are	identified for application of the Directive		
Results	The effectiveness of the directive	and its implementations	will be reviewed no later than 2010		
Website	http://ec.europa.eu/enterprise/eco_	_design/index_en.htm			
Reports	http://ec.europa.eu/enterprise/eco_	_design/index_en.htm			
Initiative type	Policy measures				
Instruments	Eco-design				
Starting year	2005	Ending year			
Scope of the initiative					
Sector	Energy using products	Product	Energy using products		
Material	Various	Waste	Energy using products		
Env. impacts	Focus on energy / climate	Socio-econ. impacts	None		
_	change, but in principle others				
	as well				
Geographical focus	EU	Indicators	Eco-label meant to benchmark products		
Assessment					
Usefulness for SMM					
An example of life cycle	policy that explicitly includes raw	material consumption	next to a focus on energy efficiency. Raw		
material selection and use is one of the parameters of eco-design for EuP's. Materials consumption and waste generation as well					
as possibilities for recovery of materials have to be assessed for each phase of the life cycle.					
Relation to other initiati	ves				
IPP and WEEE. Directives 92/42/EEC, 96/57/EC and 2000/55/EC are considered official implementations of the Eco-design					
directive, even though pre	edating it				
Contact					

Integrated Product Polic	cy (IPP)		39	
Organisation			Description	
European Union		The European Union is a union of 27 European countries		
European Commission		The European	Commission is the executive body of the EU	
DG ENV		The Directora	te General for the Environment develops and	
			enforces environmental legislation in EU	
Description				
IPP calls for involvement	of all parties at all possible level	s of action and through	but the life cycle of products. EU acts on IPP	
are the 2001 Green Paper	and a 2003 Communication that f	focuses on conditions to	improve the life cycle profile of products	
Overall objective				
Stimulating (environment	al) life cycle thinking in product c	chains and improving lif	re cycle environmental performance of	
products				
Specific goals				
Currently no regulation and	nd no quantifiable targets are part	of IPP		
Results	Directives for specific produ	acts/sectors have built	on the ideas in the Green Paper and	
	Communication			
Website	http://ec.europa.eu/environment	/ipp/home.htm		
Reports	http://europa.eu/scadplus/leg/en	/lvb/l28011.htm		
Initiative type	All			
Instruments	Pricing, labelling, green procure	ement		
Starting year	2001	Ending year		
Scope of the initiative				
Sector	Not specific	Product	Not specific	
Material	Not specific	Waste	Not specific	
Env. impacts	All integrated	Socio-econ. impacts	To be taken into account; IPP is ultimately	
			about sustainable development	
Geographical focus	EU	Indicators	Life cycle information established in	
			separate working groups	
Assessment				
Usefulness for SMM				
Product life-cycle management is a starting point for SMM for economic actors, as the product is core business. The IPP pilot				
assessment by Nokia is an illustration. However, because of the diversity, it is hard to set targets or monitor changes				
Relation to other initiatives				
Directives based on IPP:	WEEE, ELV, EUP, Batteries and	Packaging. Also strong l	ink with the natural resource strategy	
Contact				

Directive 2000/53/EC of the European Parliament and of the Council of				
18 September 2000 on E	nd-of life Vehicles		40	
Organisation			Description	
European Union		The Europe	an Union is a union of 27 European countries	
European Commission		The European	Commission is the executive body of the EU	
DG ENV		The Directorate General for the Environment develops and		
			enforces environmental legislation in EU	
Description				
EU directive to prevent w	aste from vehicles and reduce was	ste by reuse, recycling ar	nd recovery	
Overall objective				
Prevention of waste from	vehicles and reuse, recycling and	recovery of end-of life	vehicles (components) to reduce the disposal	
of waste. Improvement of	environmental performance of al	l economic operators in	the life cycle	
Specific goals				
Cease the use of mercury,	hexavalent chromium, cadmium	or lead in new vehicles.	Increase recovery and recycling rates to 95%	
and 85% respectively by 2	2015			
Results	According to the 2006 study, er	vironmental benefits ma	ay be attributed to the directive, although full	
	potential has not been realised.	. Additional benefits of	the 2015 targets will be small as economic	
	incentive for recycling is strong			
Website	http://europa.eu/scadplus/leg/en	/lvb/l21225.htm		
Reports	http://europa.eu/scadplus/leg/en	/lvb/l21225.htm		
Initiative type	policy measures			
Instruments	Standards			
Starting year	2000	Ending year		
Scope of the initiative				
Sector	Vehicles	Product	Vehicles	
Material	Various (heavy metals, waste	Waste	Waste vehicles (components)	
	oil, battery acid, tyres, glass			
	etc)			
Env. impacts	Various, final waste	Socio-econ. impacts	Not specific	
Geographical focus	EU	Indicators	Recovery and recycling rates by weight	
Assessment				
Usefulness for SMM				
Reducing impacts along l	ife cycle is one of the main purpo	oses of the Directive. Pro	oduct design for recycling is the primary tool	
for this; however, Member States are only held to make sure that product design does not prevent recycling and recovery				
Relation to other initiatives				
Amended by decisions 2002/525/EC, 2005/438/EC, 2005/673/EC				
Contact				

European Parliament and Council Directive 94/62/EC of 20 December 1994 on			
Packaging and Packaging Wa	aste		41
Organisation	rganisation Desc		
European Union		The European Unio	on is a union of 27 European countries
European Commission		The European Comm	ission is the executive body of the EU
DGENV		The Directorate General for the Environment develops and	
		enfe	orces environmental legislation in EU
Description	1 11. 4. 1		da
Provides that the Member State	es shall take measures to prevent	the formation of package	ging waste, which may include
national programmes and may	encourage the reuse of packagin	ig. Amended by Directives	2004/12/EC and 2005/20/EC
Uverall objective	as of postering wests reduce the	a anvironmental import of	and and analyzing worth
Specific goals	se of packaging waste, feduce the	e environmentar impact of j	backaging and packaging waste
Targets for recovery and recycl	ing for 2001 and 2008 (as amond	ed by 2004/12/EC) Target	s for the period 2000 2014 to be set
in 2007 at the latest	ling for 2001 and 2008 (as amend	leu by 2004/12/EC). Taiget	s for the period 2009-2014 to be set
nii 2007 at the latest	National monitoring of package	ing waste and recovery/reco	veling rates
Website	http://ac.auropa.au/anyiranman	t/wasta/packaging_index h	tm
Poports	http://ec.europa.eu/environmen	a/lyb/121207 htm	tiii
Reports	Deliev meesures	1/10/121207.11011	
Initiative type	Policy measures		
Instruments	Standards	D 1	
Starting year	1994	Ending year	none
Scope of the initiative			
Sector	Not specific	Product	Not specific
Material	Packaging (glass, plastics,	Waste	packaging
	wood, paper waste:		
	& board, aluminium, steel)		
Env. impacts	All	Socio-econ. impacts	Food safety, hygiene
Geographical focus	EU	Indicators	Waste volume, recovery and
			recycling rates by weight per
			material
Assessment			
Usefulness for SMM			
The 'soft' section (essential re-	quirements) deals with life cycle	issues, such as design to n	ninimize environmental impact at the
waste stage. In practice, the add	ded environmental effect of the D	pirective turns out to be limit	ited
Relation to other initiatives			
Amended by Directives 2004/1	2/EC and 2005/20/EC		
Contact			

Directive 2002/96/EC of the European Parliament and of the Council of 27 January 2003				
on Waste Electrical and	Electronic Equipment (WEEE)		42a	
Organisation			Description	
European Union	The European Union is a union of 27 European countrie			
European Commission		The European Commission is the executive body of the EU		
DG ENV		The Directorate General for the Environment develops and		
		enforces environmental legislation in EU		
Description				
EU directive to reduce the	e disposal of waste (components of)	electrical and electronic	equipment	
Overall objective				
Prevention of waste elect	rical and electronic equipment (WE	EEE), and reuse, recyclin	ng and other forms of recovery to reduce the	
disposal of waste. Improv	e the environmental performance of	f all operators involved i	n the life cycle	
Specific goals		·		
Free return of waste equi	pment by final holder. Rate of sepa	rate collection of at leas	t 4 kg on average per inhabitant from private	
households by 31/12/2006	6. Also rates of recovery by a	n average weight per ap	pliance by 31/12/2006 (varies per type)	
Results	First round of implementation rep	orts due in 2007 (coveri	ing 2004-2006) and review of the directive in	
	2008	× ×	e ,	
Website	http://europa.eu/scadplus/leg/en/ly	vb/l21210.htm		
Reports	http://europa.eu/scadplus/leg/en/ly	vb/121210.htm		
Initiative type	Policy measures			
Instruments	Standards			
Starting year	2003	Ending year	NA	
Scope of the initiative				
Sector	Electrical and electronic	Product	Electrical and electronic equipment	
	equipment		1 1	
Material	Materials used in electrical and	Waste	Waste electrical and electronic equipment	
	electronic equipment, hazardous		(WEEE)	
	substances			
Env. impacts	All	Socio-econ. impacts	None	
Geographical focus	EU	Indicators	Collection rate in kg per inhabitant.	
			recovery and recycling rate per appliance	
			type	
Assessment	I		51	
Usefulness for SMM				
In its current implementation, the life cycle aspect and generic materials management are not very strong in the directive				
Relation to other initiati	Ves			
Amended by directive 2003/108/EC. A parallel directive 2002/95/EC deals with the restriction of use of hazardous substances in				
electrical and electronic equipment. Related to IPP, 'Ecodesign' directive				
Contact				

Directive 2006/66/EC of European Parliament and Council on Batteries and			
Accumulators and Waste Batteries and Accumulators 43			
Organisation			Description
European Union		The Europe	an Union is a union of 27 European countries
European Commission		The European	Commission is the executive body of the EU
DG ENV		The Directora	te General for the Environment develops and
			enforces environmental legislation in EU
Description			
EU directive establishing	rules for batteries to be placed on	the market and for the	collection, treatment and recycling of waste
batteries and accumulator	S		
Overall objective			
Improve environmental p	erformance of batteries and accum	ulators over the life cyc	ele, by prohibiting hazardous substances and
improving collection, trea	tment, recycling		
Specific goals			
Targets for collection. Ba	ttery recycling processes have to me	eet recycling efficiencies	
Results	Not available yet		
Website	http://ec.europa.eu/environment/w	vaste/batteries/index.htm	
Reports	http://europa.eu/scadplus/leg/en/lv	vb/121202.htm	
Initiative type	Policy measures		
Instruments	Standards for content of hazardou	s substances	
Starting year	2006	Ending year	NA
Scope of the initiative	•		
Sector	Batteries and accumulators	Product	Batteries and accumulators
Material	Various, hazardous sub-stances	Waste	Batteries and accumulators
Env. impacts	Various, but most important	Socio-econ. impacts	None
-	(implicit) toxicity		
Geographical focus	EU	Indicators	Collection rate, recycling efficiencies
Assessment	·		
Usefulness for SMM			
Example of a policy instr	ument with explicit life-cycle persp	pective. Also resulted in	a ban on substances that shouldn't end up in
landfill			-
Relation to other initiatives			
IPP; Repealing 91/157/EEC			
Contact			

Thematic Strategy on th	e Prevention and Recycling of Wa	Thematic Strategy on the Prevention and Recycling of Waste 44			
Organisation		Description			
European Union		The European Union is a union of 27 European countries			
European Commission		The European Commission is the executive body of the EU			
DG ENV		The Directorate	General for the Environment develops and		
		enforces environmental legislation in EU			
Description					
This communication sets	out a framework for European wa	ste policy in the coming	g years, and lays the basis, inter alia, for a		
revision of the framework	C Directive on waste				
Overall objective					
In current context importa	ant aim of the initiative is introducir	ng life-cycle thinking in l	EU waste policy. An explicit aim of linking		
the resource stage and wa	ste stage of life cycles also in policy	making is stated			
Specific goals					
Implementation in a new	framework directive on waste				
Results	Implementation in a new framework directive on waste by 2010				
Website	http://ec.europa.eu/environment/v	vaste/strategy.htm			
Reports	http://europa.eu/scadplus/leg/en/l	vb/l21197.htm			
Initiative type	All				
Instruments	Legislation (review and update)				
Starting year	2005	Ending year	2010		
Scope of the initiative					
Sector	Not specific	Product	Not specific		
Material	Not specific	Waste	Not specific		
Env. impacts	In theory all impacts over the	Socio-econ. impacts	Life-cycle thinking explicitly also in		
	life cycle		terms of economic efficiency		
Geographical focus	EU	Indicators	To be decided		
Assessment					
Usefulness for SMM					
Introduction of life-cycle	thinking in the waste framework di	rective will provide a di	rect link to SMM. A strong link exists with		
the Thematic strategy on Resources COM(2005)670					
Relation to other initiati	ives				
Framework directive on waste 2006/12/EC, thematic strategy on resources COM(2005)670					
Contact					

Sustainable Production a	and Consumption Working Group		45
Organisation Northern Alliance for Sustainability (ANPED)		Description ANPED works to empower Northern civil society in creating and protecting sustainable communities and societies world-wide. ANPED now has over one hundred member organisations, all working towards a better quality of life for everyone within the Earth's carrying capacity (Agenda 21)	
Description This programme, one of seven undertaken by ANPED, promotes and monitors progress towards sustainable production and consumption on the national and international level. Key elements of the work are ecological fiscal reform; clean and eco-effective production; education, information and public participation for sustainable consumption and production; corporate reasonability and accountability.			
Overall objective To provide a vehicle for A	NPED members to increase their knowle	edge, capacity and effecti	veness in promoting sustainable
production and consumpti Specific goals ANPED works on severa production and consumpti http://www.anped.org/ind	production and consumption policy and practice Specific goals ANPED works on several thematic issues through its working groups. Each working group works to change unsustainable production and consumption patterns from its own angle, <i>see</i> :		
Results Website Reports	The Working Group organized a number of meetings, workshops, skillshares and papers. Developed a SPAC campaign toolkit for NGOs http://www.spac.anped.org/ http://www.spac.anped.org/publications.aspx		
Initiative type Instruments	Networking	Ending yoon	
Starting year Scope of the initiative	2003	Ending year	
Sector Material Env. impacts Geographical focus	Not specific/not specified Not specific/not specified All/not specified Worldwide, but strong focus on Europe	Product Waste Socio-econ. impacts Indicators	Not specific/not specified Not specific/not specified All/not specified
Assessment			
Usefulness for SMM Initiative addresses both the production and the consumption of goods. Life cycle initiatives are recognized as a tool to promote cleaner production and extended producer responsibility Relation to other initiatives ICSPAC (#46) Contact			
erol.hofmans@anped.org			

ICSPAC, various initiati	ives		46	
Organisation			Description	
ICSPAC	AC International Coalition for Sustainable Production			
		Consumption		
Description			· · · · · · · · · · · · · · · · · · ·	
NGO initiative on sustain	able production and consumption. Is emb	edded in a broader netwo	ork of 13 NGO partners	
Overall objective				
To provide an effective	information exchange and networking	vehicle for NGOs and	d citizen organizations promoting	
sustainable production and	d consumption (SPAC) policies and pract	ices		
Specific goals				
(i) Commitment to develo	oping National Policy Frameworks to pr	comote sustainable produ	uction and consumption (including	
implementation of the r	evised UN Guidelines on Consumer P	rotection); (ii) Reformi	ng perverse subsidies and public	
investment promoting un	sustainable production and consumption	; (iii) Promoting citizen	access to meaningful information,	
while challenging irrespo	nsible information sources, such as pror	notion of unsustainable	consumption values and habits to	
children; (iv) Encouraging	g producer responsibility and corporate ac	countability		
Results	Initiated the SPAC Watch initiative, me	onitors the Marrakech p	rocess, provides a long list of links	
	to relevant/related websites and reports			
Website	www.icspac.net			
Reports	http://www.icspac.net/pubs/			
Initiative type	Information gathering			
Instruments		r		
Starting year	1999	Ending year		
Scope of the initiative		T		
Sector	Not specific(specifically water,	Product	Not specific consumption	
	energy, human products settlements,			
	food, advertising & general)			
Material	Not specific	Waste	Not specific	
Env. impacts	All	Socio-econ. impacts		
Geographical focus	Worldwide	Indicators		
Assessment				
Usefulness for SMM				
Initiative focuses on both	the production and the consumption of g	goods. Life cycle analys	es is one of the topics addressed in	
the production phase				
Relation to other initiati	ves			
SPAC Watch, related to In	ntegrative Strategies Forum (ISF)			
Contact				
info@icspac.net				

Greening of Industry Ne	etwork (GIN)		47
Organisation	uisation Descripti		
Greening of Industry Network (GIN)		The Greening of Industry Network is an international	
C 7		association of research	ners, business leaders, activists, and
	policy makers dedicated to building a sustainable f		
Description			
See above			
Overall objective			
The Greening of Industry	Network develops knowledge and transfo	orms practice to accelerate	te progress toward a sustainable
society	1 0	1	1 0
Specific goals			
~peene gouis			
Results	Organized several workshops and confe	rences, published report	s and books
Website	http://www.greeningofindustry.org/		
Reports	http://www.greeningofindustry.org/publ	lications.html	
Initiative type	Networking		
Instruments	5		
Starting year	1991	Ending year	
Scope of the initiative			
Sector	Not specific	Product	Not specific
Material	Not specific	Waste	Not specific
Env. impacts	All/not specific	Socio-econ, impacts	Increasing the quality of life of
F	· · · · · · · ·	~~~···	all people of current and future
			generations
Geographical focus	Worldwide	Indicators	5
Assessment			
Usefulness for SMM			
Basically a knowledge network which might serve as information source for SMM practices in business.			
Relation to other initiatives			
Contact			

Ceres Sustainability Repo	rting and other activities		48
Organisation			Description
Ceres		Ceres is the largest co	alition of investors, environmental
		and public intere	est organizations in North America
Description			
A national network (US) of	f investors, environmental organizations	and other public interes	t groups working with companies
and investors to address sus	tainability challenges such as global clima	ate change	
Overall objective			
Integrating sustainability in	to capital markets for the health of the p	lanet and its people. Cer	es launched the Global Reporting
Initiative (GRI), now the	e de-facto international standard (used	by over 850 company	nies) for corporate reporting on
environmental, social and e	conomic performance		
Specific goals			
			11 .1.1. CODI
Results	36 companies have published reports o	on sustainability issues a	ccording to the guidelines of GRI
TT <i>T</i> T <i>T</i>	and Ceres.		
Website	www.ceres.org		
Reports	http://www.ceres.org/pub/		
Initiative type			
Instruments	1000	L	I
Starting year	1989	Ending year	
Scope of the initiative	1	1	
Sector	Not specific	Product	Not specific
Material	Not specific	Waste	Not specific
Env. impacts	Mainly climate change	Socio-econ. impacts	
Geographical focus	US/Worldwide	Indicators	Not specified
Assessment			
Usefulness for SMM			
Although particularly focussed on climate change impacts, life cycle analysis play a minor role in some of the studies and			
principles Ceres endorses			
Relation to other initiative	28		
Ceres launched the Global	Reporting Initiative (GRI)		
Contact			
http://www.ceres.org/ceres/	contact.php		

Declaration by the Metals	Industry on Recycling Principles		49
Organisation			Description
International Council on M	ining and Metals (ICMM)	ICMM's vision is a viable mining, minerals and metals	
		industry that is	widely recognised as essential for
		modern living an	nd a key contributor to sustainable
			development
Description			
2 page declaration paper	on which approach should be used for	assessing the benefits o	f recycling: the recycled content
approach or the end-of-life	recycling approach. Paper endorsed by 17	companies and institutes	from the metal industry
Overall objective			
Environmental models and	policy discussions that concern product re	ecycling should character	ize material recycling in a manner
that is appropriate and that	promotes the objectives of sustainable dev	elopment	
Specific goals			
Results	Conclusion: for purposes of environme	ental modelling decision	-making and policy discussions
1105 4115	involving recycling of metals, the me	tals industry strongly s	upports the end-of-life recycling
	approach over the recycled content appr	oach	
Website	http://www.icmm.com/publications/146	8Declaration on Recycl	ing Principles lca2006 11 pdf
Reports	http://www.icmm.com/publications/146	8Declaration on Recvel	ing Principles lca2006.11.pdf
Initiative type	Method development		
Instruments	1		
Starting year	2006	Ending year	2006
Scope of the initiative			
Sector	Metal	Product	Not specific metal products
Material	Metal	Waste	· · ·
Env. impacts	Not specified	Socio-econ. impacts	
Geographical focus	Not specified	Indicators	
Assessment			
Usefulness for SMM			
It advocates the use of life cycle analysis in decision making			
Relation to other initiatives			
Contact			
info@icmm.com			

Sustainable Developme	nt Framework (SDF)		50
Organisation			Description
International Council on	Mining & Metals (ICMM)	ICMM's vision is	a viable mining, minerals and metals
		industry that is wide	ly recognised as essential for modern
D : ('		living and a key co	ontributor to sustainable development
Description	ICMM another to most their metainship		ate The Freedom and a company three
All initiative to help the	An initiative to help the ICMM members to meet their sustainable development commitments. The Framework comprises three		
Overall objective	incipies, public reporting and independent	assurance	
All member companies	are required to implement the ICMM Si	ustainable Development	Framework and comply with policy
commitments made by th	ne ICMM Council	usumuole Development	Francework and comply with policy
Specific goals			
Underpinning the Frame	work is a commitment to sharing good pra	actice across the industry.	This is done through the publication
of good practice guidanc	e documents and tools which are developed	ed in close co-operation v	vith members
Results	The ICMM Council, made up of memb	er CEOs, has committed	corporate members to implement the
	ICMM Sustainable Development Frame	ework. A 'good practice'	website was launched. Toolkits are
	being developed, for example on co	ommunity development	(with the World Bank), resource
	endowments (with UNCTAD and the W	Vorld Bank) and on imple	ementing materials stewardship in the
	minerals and metals value chain (with I	CMM members).	
Website	http://www.icmm.com/sd_framework.pl	hp	
Reports	http://www.icmm.com/publications/145	9SDF_English.pdf	
Initiative type			
Instruments	2001	T. J	1
Starting year	2001	Ending year	
Scope of the initiative	Mining	D 1 . 4	Not monifie mining and heats
Sector	Nining	Product	not specified
Material	not specific materials related to	waste	not specified
Env impacts	A 11	Sacia acon impacts	Various
Coographical focus	Worldwide	Indicators	various
Assessment	Wolldwide	Indicators	
IIC. L			
Usefulness for SMM One of the 10 principles is to facilitate and encourage responsible product design use re-use recycling and disposal of products			
A good prosting with site	uves lounched in 2004 in portnambin with	LINCTAD LINED	the LIV Department for Internetic-sel
A good-practice website was launched in 2004 in partnership with UNCTAD, UNEP and the UK Department for International			
Development (DFID) - www.goodpracticemining.org. This initiative is a follow-up of the MMSD (#55) initiative			
info@icmm.com			
into archini.com			

Integrated Materials M	Integrated Materials Management (IMM) 51			
Organisation International council on I	Mining & Metals (ICMM)	Description ICMM's vision is a viable mining, minerals and metals industry that is widely recognised as essential for modern living and a key contributor to sustainable development		
Description				
An initiative from the	mining sector to help its members me	eet their sustainable de	velopment commitments, and drive	
performance improvement	nt across the industry as a whole, oriented	l on material stewardship	and encouraging regulation based on	
Sound science				
To ensure that the level responsible design, use, r	and patterns of use of mineral commode- e-use, recycling and disposal of the mater	dities are aligned with string industry	ustainable development. To promote produces	
Specific goals				
\Rightarrow Promoting and facil	itating materials stewardship: Materials s	stewardship is built on th	e premise that all participants have a	
shared responsibilit	y for the performance of the whole ma	aterials cycle of which w	we are part, well beyond our direct	
operations		5		
\rightarrow Encouraging regulat	tion that is based on sound science			
	ICMM published a guidance docum	ent on materials stewa	rdship and ICMM members have	
1000100	developed several projects related to IM	IM	P	
Website	http://www.icmm.com/integ_materials.p	ohp		
Reports	www.icmm.com/library_pub_detail.php	?rcd=199		
Initiative type	All			
Instruments		Ending man		
Starting year		Ending year		
Scope of the initiative	Mining	Droduct	Not specific mining products	
Matarial	Not specific materials related to	Wasta	Not specific (not specified)	
wateriai	mining	vv aste	Not specific (not specifica)	
Env. impacts	ALL	Socio-econ. impacts	Not addressed	
Geographical focus	Worldwide	Indicators	Published a guidance document on	
0			materials stewardship	
Assessment				
Usefulness for SMM				
The IMM programme takes a life cycle approach to the production and use of minerals. Life cycle analysis serves as a tool for				
material stewardship Relation to other initiat	•			
Kelation to other initiatives Mining Minerals and Sustainable Development (MMSD)				
Contact:				
info@icmm.com				

Mining, Minerals and Sustainable Development (MMSD) 52				
Organisation World Business Council	for Sustainable Development	Description The World Business Council for Sustainable Development (WBCSD) is a CEO-led, global association of some 190 companies dealing exclusively with business and		
			sustainable development	
Description		1		
The MMSD Project was	s an independent two-year process of co	onsultation and research	which aimed to understand how to	
maximise the contribution	on of the mining and minerals sector to s	in the mining costor	it the global, national, regional, and	
Overall ebjective	iprised nine wBCSD member companies	in the mining sector		
Examining key sustainab	ility challenges for the mining sector			
Specific goals	sinty chanenges for the mining sector			
To assess the global mi	ning and minerals sector in terms of th	e transition to sustainabl	e development and to propose key	
elements for improvement	nt		te development and to propose key	
Results	Organized several workshops: provided	a means for ideas and i	nformation to surface: offered some	
Results	opportunity to test those ideas with d	liverse knowledgeable a	udiences: derived a set of guiding	
	principles for sustainable development	area genere a	autonoos, aonvoa a sov or garang	
Website				
	http://www.wbcsd.org/templates/Templa	ate w BCSD5/layout.asp?t	ype=p&MenuId=ODA&	
Demonto	doOpen=1&ClickMenu=LeftMenu http://www.ijed.org/mmgd/finglroport/ir	dow html		
Reports Initiativo tumo	Networking information authoring	idex.num		
Initiative type	Networking, information gathering			
Starting year	1000	Ending yoon	2002	
Starting year	1)))	Enung year	2002	
Scope of the initiative	Mining	Product	Not specific mining products	
Material	Not specific mined minerals	Waste	Not specific	
Env impacts	All: see 'scope' other aspects of	Socio-econ impacts	Both addressed: see 'scope: other	
Env. impacts	relevance'	Socio ccon. impacts	aspects of relevance'	
Geographical focus	Worldwide	Indicators		
Assessment				
Usefulness for SMM				
Minimizing waste and er	vironmental damage along the whole of t	he supply chain is listed a	s one of the principles of sustainable	
development. "Breaking	New Ground: Mining, minerals & sustain	able development" (WBC	CSD, 2002) is the final report of this	
initiative which emphasized that there are many perspectives and challenges for the mining sector with respect to both satisfying				
growing demand for materials and sustainable development				
Relation to other initiatives				
The International Council on Mining and Metals (ICMM; www.icmm.com) has been created by the companies to implement				
MMSD findings. Also re	lated to the Global Mining Initiative(http:	//www.icmm.com/gmi.ph	ap)	
Contact				
Director E. Derobert				
derobert@wbcsd.org				

Cement Sustainal	oility Initiative		53		
Organisation	•		Description		
World Business Co	ouncil for Sustainable Development	The World Busin	ess Council for Sustainable Development (WBCSD)		
		is a CEO-lee	d, global association of some 190 companies dealing		
	exclusively with business and sustainable developm				
Description					
In 1999, ten leadi	ng cement companies representing on	e-third of the world	ld's cement production - embarked on the Cement		
Sustainability Initi	ative (CSI)		-		
Overall objective					
To find new way	s to meet the sustainability challeng	e of: (i) reducing	the industry's ecological footprint; (ii) increasing		
stakeholder engage	ement ; (iii) understanding the industry	's social contribution	ons		
Specific goals					
The Agenda for A	ction focuses on: (i) Climate protection	on, fuels and raw m	naterials use, employee health and safety, emissions		
(ii) Reduction, loca	al impacts (iii) Reporting and commun	ication.			
The agenda details	specific commitments for future comp	any actions			
Results	Developed guidelines for use of fuel	s and raw materials	s relevant to cement production, for safety reporting,		
	for CO ₂ reporting, for environmen	tal and social imp	pact assessment and for emissions monitoring and		
	reporting. Members have agreed to f	ollow these guideli	nes		
Website	http://www.wbcsd.org/templates/Ter	nplateWBCSD5/la	yout.asp?type=p&MenuId=NzY&doOpen		
	=1&ClickMenu=LeftMenu				
Reports	http://www.wbcsd.org/templates/Ter	nplateWBCSD5/la	yout.asp?type=p&MenuId=NzY&doOpen		
	=1&ClickMenu=LeftMenu				
Initiative type					
Instruments					
Starting year	1999	Ending year			
Scope of the initia	tive				
Sector	Cement industry	Product	Cement		
Material	Materials used for cement production	n Waste	Air emissions, dust emissions, solid		
Env. impacts	All, as specified in Environmenta	al Socio-econ.	Very broad, as specified in Environmental and		
	and social impact assessmen	nt impacts	social impact assessment guidelines (2005)		
	guidelines waste and storm water	rs			
	(i.e. all) (2005)				
Geographical	Worldwide	Indicators	Environmental an social impact assessment guide:		
focus			http://www.wbcsd.org/web/publications/		
			cement esia guidelines.pdf		
Assessment	1		<u></u>		
Usefulness for SMM					
As a practical example how commitment of business can be set up. Participants have agreed upon the guidelines and monitor					
their environmental impacts in a comparable manner					
Relation to other initiatives					
Contact					
H. Klee: klee@wb	csd.org				

The Global Eco-labelling Network (GEN) 54				
Organisation			Description	
Global Eco-labelling Network (GEN)		The Global Eco-labelling Network (GEN) is a non-profit		
5		association of thi	rd-party, environmental performance	
		labelling organ	izations founded in 1994 to improve.	
		promote, and develo	p the "eco-labelling" of products and	
		r	services	
Description				
See above				
Overall objective				
To improve, promote, a	nd develop the "eco-labelling" of produc	ets and services. To set	criteria for and certify products and	
services with lower envir	ronmental burdens and impacts t	han comparable products	/services with the same function.	
Specific goals				
	1			
Results	Organizing and visiting various conferences, providing Technical Assistance Programmes			
Website	http://www.gen.gr.jp/index.html			
Reports	http://www.gen.gr.jp/publications.html			
Initiative type	Networking			
Instruments				
Starting year	1994	Ending year		
Scope of the initiative				
Sector	Not specific	Product	Not specific	
Material	Not specific	Waste	Not specific	
Env. impacts	All types of environmental impacts	Socio-econ. impacts	No explicit reference	
	(not specified)			
Geographical focus	Worldwide	Indicators	No indicators specified	
Assessment				
Usefulness for SMM				
Initiative aims to stimulate eco-labelling. An "eco-label" is a label which identifies overall environmental preference of a				
product (i.e. good or service) within a specific product category based on life cycle considerations				
Relation to other initiatives				
International Social and Environmental Accreditation and Labelling (ISEAL) Alliance				
Contact				
DaVinci KAMIYACHO	: dc3h-mzn@asahi-net.or.jp			

Eco-efficiency program	Eco-efficiency programme 55			
Organisation World Business Council	for Sustainable Development	Description The World Business Council for Sustainable Development (WBCSD) is a CEO-led, global association of some 190 companies dealing exclusively with business and sustainable development		
Description The programme is based and pollution	on the concept of creating more goods an	nd services while using fev	wer resources and creating less waste	
Overall objective Eco-efficiency calls for t	ousinesses to achieve more value from lov	ver inputs of materials and	d energy and with reduced emissions	
Specific goals Companies should seize companies, by designing	e opportunities for more eco-efficiency, eco-efficient products and by finding new	, e.g. by reducing consu ways to meet costumers	imption, by cooperating with other 'needs	
Results Website Reports Initiative type Instruments	The eco-efficiency concept has been adopted by numerous companies all over the world. The programme has developed indicators for measuring eco-efficiency. Business has also pushed eco-efficiency as a policy concept and has met with some success. In 2005 this programme was taken over by other programmes http://www.wbcsd.org/templates/TemplateWBCSD5/layout.asp?type=p&MenuId=MTE1M Q&doOpen=1&ClickMenu=LeftMenu Eco-efficiency: Creating more value with less impact. (WBCSD, 2000) Information and method development			
Starting year	1992	Ending year	2005	
Scope of the initiative		1		
Sector	Not specific	Product	Not specific	
Material	Not specific	Waste	Not specific	
Env. impacts Geographical focus	All Socio-econ. impacts To help companies grow more qualitatively than quantitatively Social impacts not addressed Worldwide Indicators List of value and environmental indicators and eco-efficiency ratios			
Assessment				
Usefulness for SMM Eco-efficiency opportunities can emerge at any point in the entire life-cycle of a product and offer a way of organizing the thinking about SMM				
Relation to other initiatives Eco-efficiency Metrics & Reporting, European Eco-efficiency Initiative (EEEI)				
Contact Project Director Brigitte Monsou: monsou@wbcsd.org				

Organisation UNEP Chemicals Description Adopted Development in 2002 and the United Nations Environmental Programme (UNEP) and endorsed by the Ohannesburg World Summit on Sustainable Development in 2002 and the New York World Summit in September 2008. It has been developed by a multi-stakeholder Preparatory Committee, co-convened by UNEP, the Intergovernmental Forum on Chemical Safety (IFCS) and the Inter-Organization Programme for the Sound Management of Chemicals (IOMC). Description Adopted by the International Conference on Chemicals Management (SAICM) is an international policy framework to foster the sound management of chemicals Overall objective SAICM was developed by a multi-stakeholder and multi-sectoral Preparatory Committee and supports the achievement of the goal agreed at the 2002 Johannesburg World Summit on Sustainable Development of ensuring that, by the year 2020, chemicals are produced and used in ways that minimize significant adverse impacts on the environment and human health. Specific goals SAICM was developed by a multi-stakeholder and multi-sectoral Preparatory Committee and supports the achievement of the goal agreed at the 2002 Johannesburg World Summit on Sustainable Development of ensuring that, by the year 2020, chemicals are produced and used in ways that minimize significant adverse impacts on the environment and human health. Specific goals SAICM comprises three core texts: The Dubai Declaration expressing the commitment to SAICM by Ministers, heads of delegation and representatives of civil society and the private sector, The Overarching Policy Strategy setting out hescope of SAICM, the needs it addresses and objectives for risk troduction, knowledge and information, goavernance, capacity-building and technical so	SAICM – Strategic Appro	ach to International Chemicals Manag	ement	56	
UNEP Chemicals The Strategic Approach was mandated by the United Nations Environmental Programme (UNEP) and Nations Environmental Programme (UNEP) and endorsed by the Johannesburg World Summit on Sustainable Development in 2002 and the New York World Summit in September 2005. It has been developed by a multi-stakeholder Preparatory Committee, co-convened by UNEP, the Intergovernmental Forum on Chemicals Safether Preparatory Committee, co-convened by UNEP, the Intergovernmental Forum on Chemicals (MOMC). Description Adopted by the International Conference on Chemicals Management (ICCM) on 6 February 2006 in Dubai, United Arab Emirates, the Strategic Approach to International Chemicals Management (SAICM) is an international policy framework to foster the sound management of chemicals Overall objective SAICM was developed by a multi-stakeholder and multi-sectoral Preparatory Committee and supports the achievement of the goal agreed at the 2002 Johannesburg World Summit on Sustainable Development of canstring that, by the year 2006, chinicals are produced and used in ways that minimize significant adverse impacts on the environment and human health. Specific goals SAICM comprises three core texts: The Dubai Declaration expressing the commitment to SAICM by Ministers, heads of delegition and representatives of cris risk reducine, knowledge and information, governance, capacity-building and technical cooperation, and illegal international traffic, and A Global Plan of Action governance, capacity-building and technical cooperation, and illegal international traffic, and A Global Plan of Action setting out proposed 'work areas and activities' for insplementation of the Strategic Approach. Results The ICCM duly decided to establish the "Quick Start	Organisation			Description	
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Bits Constrained by a multi-stakeholder and multi-sectoral Preparatory Committee and supports the achievement of the goal agreed at the 2002 Johannesburg World Summit on Sustainable Development of ensuring that, by the year 2020, chemicals are produced and used in ways that minimize significant adverse impacts on the environment and human health. Specific goals SAICM comprises three core texts: The Dubai Declaration expressing the commitment to SAICM by Ministers, heads of delegation and representatives of civil society and the private sector, The Overarching Policy Strategy setting out the scope of SAICM, the needs it addresses and objectives for risk reduction, knowledge and information, governance, capacity-building and technical cooperation, and illegal international traffic, and A Global Plan of Action setting out proposed "work areas and activities" for implementation of the Strategic Approach. Results The ICCM duly decided to establish the "Quick Start Programme for the implementation of Strategic Approach Objectives. The objective of the QSP is to support initial enabling capacity building and implementation activities in developing countries, least developed countries, small island developing States and countries with economies in transition. Several regional meetings planned and the second session of ICCM will take place in May 2009 Website http://www.chem.unep.ch/saicm/ Not specific Not specific Product Not specific Scepe of the initiative Global Plan of Action implementing the Strategic Approach Not specific Material Not specific Not specific Not specific	foster the sound management	nt of chemicals	gement (b/meivi) is an i	international policy framework to	
SAICM was developed by a multi-stakeholder and multi-sectoral Preparatory Committee and supports the achievement of the goal agreed at the 2002 Johannesburg World Summit on Sustainable Development of ensuing that, by the year 2020, chemicals are produced and used in ways that minimize significant adverse impacts on the environment and human health. Specific goals SAICM comprises three core texts: The Dubai Declaration expressing the commitment to SAICM by Ministers, heads of delegation and representatives of civil society and the private sector, The Overarching Policy Strategy setting out the scope of SAICM, the needs it addresses and objectives for risk reduction, knowledge and information, governance, capacity-building and technical cooperation, and illegal international traffic, and A Global Plan of Action setting out proposed "work areas and activities" for implementation of the Strategic Approach. Results The ICCM duly decided to establish the "Quick Start Programme for the implementation of Strategic Approach. Objectives. The objective of the QSP is to support initial enabling capacity building and implementation activities in developing countries, least developed countries, small island developing States and countries with economies in transition. Several regional meetings planned and the second session of ICCM will take place in May 2009 Website http://www.chem.unep.ch/saicm/ Initiative type Minimize significant adverse impacts of chemicals on the environment and human health. Instruments Global Plan of Action implementing the Strategic Approach Starting year Ending year Scepe of the initiative Global B	Overall objective				
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	for the Sound Management	of Chemicals (IOMC) and UNDP as well	as other intergovernment	al organizations.	

North American Sustai	inable Consumption and Production Da	tabase	57
Organisation Intergovernmental Forur	n on Chemical Safety (IFCS)	Description IFCS provides an open, transparent and inclusive forum for discussing issues of common interest and also new and emerging issues in the area of sound management of chemicals	
Description Internet users can acce programmes throughout Overall objective	ss a single website to find information North America	on sustainable consum	ption and production initiatives and
The NASCP Database interested in promoting s	aims at facilitating cooperation among of sustainable consumption and production	organizations in Canada,	United States and Mexico that are
Specific goals			
Results Website Reports Initiative type Instruments	The Database currently contains over 200 entries, that can be searched by sector, focus area, country, 'tools and approaches', organization type or keyword http://nasca.icspac.net/db/ Information gathering		
Starting year		Ending year	
Scope of the initiative			
Sector Material	Not specific Not specific/not specified	Product Waste	Not specific/not specified Not specific
Env. impacts	Not specified	Socio-econ. impacts	Several of the focus areas listed in the db consider social and economic impact (e.g. poverty, trade and transport)
Geographical focus	North America (Canada, Mexico, US)	Indicators	Not specified
Assessment Usefulness for SMM The database uses a sustainable production and consumption (SPAC) approach, which means that the production and consumption of a product are seen as inextricably interwoven stages in a product's life cycle chain Relation to other initiatives North American Sustainable Consumption Alliance partners: Commission for Environmental Cooperation of North America, Canadian Centre for Pollution Prevention, Environment Canada - National Office for Pollution Prevention, Integrative Strategies Forum, UNEP, Univ. of Massachusetts Lowel, univ. de Sonora Contact			
Contact			

INFOCAP			58	
Organisation	n on Chemical Safety (IFCS)	IFCS provides an oper	Description transparent and inclusive forum for	
intergeventillental Forum on enemiear surery (if es)		discussing issues	of common interest and also new and	
		emerging issues	s in the area of sound management of	
Description			chemicais	
Information Exchange N	Network on Capacity Building for the Second	ound Management of Ch	emicals. This initiative is purely an	
information exchange wh	here contributors can post information relation	ating to the sound manage	ement of chemicals	
Overall objective Facilitating systematic e chemicals	exchange and public accessibility of info	ormation on capacity bui	lding for the sound management of	
Specific goals				
INFOCAP provides the f	tollowing five different information service	ces related to chemicals m	in an agement:	
Information regarding Pa	ast. On-going and Planned Projects: (iv) T	raining/Guidance Docum	ents: (v) Network Points of Contact	
Results	The database has been established and e	evaluated	, ()	
	www.who.int/ifcs/infocap/docs/SG39_l	NFOCAP_Evaluation_Fu	uture_with_SG34_annex.pdf	
Website	www.infocap.info	1		
Reports	http://ecb.jrc.it/infocap/english/docs/bro	ochure_Users_en.pdf		
Initiative type	Information gathering			
Starting year	2003	Ending year	NA	
Scope of the initiative		Linung your		
Sector	Not specific sectors (not specified)	Product	Not specific chemical products	
Material	Chemicals	Waste	Prevention and disposal of	
			obsolete chemicals; sound	
Ener increase	All/not aposified	Sector com immeda	management of hazardous waste	
Env. Impacts Geographical focus	Worldwide	Indicators	Not specified	
Assessment	wondwide	Indicators	Not specifica	
Usefulness for SMM				
The scope of I	NFOCAP covers information exc	hange on capacity by	uilding activities related to all	
chemicals and all stages of the chemical life cycle. The initiative might serve as a reference database for				
other initiatives going on in this field. However, the scope of initiatives is limited (see also section 4.4 of				
this report)				
Relation to other initiatives				
Contact				

SPAC Watch			59	
Organisation		Internet in al Con	Description	
ICSPAC		International Coalition for Sustainable Production and Consumption		
Description				
An NGO initiative to mo	onitor national progress towards sustainable	e production and consum	ption	
Overall objective				
The ultimate purpose of resulting from unsustain	t the SPAC Watch initiative is to help r able production and consumption	everse the current negat	ive environmental and social trends	
Specific goals	^			
SPAC Watch offers a civ	vil society perspective to the dialogue on p	production and consumpti	on policies and practices, monitoring	
and assessing progress b	y governments from rhetoric to realization	1		
Results	Organised side events at the World St	ummit on Sustainable D	evelopment at New York, Bali and	
	Johannesburg; released a report called "	Waiting for delivery'		
Website	http://www.icspac.net/spacwatch/			
Reports	http://www.icspac.net/spacwatch/reports	s.aspx		
Initiative type	Information gathering			
Instruments			1	
Starting year	1999	Ending year		
Scope of the initiative				
Sector	Not specific	Product	Not specific consumption products	
Material	Not specific	Waste	Not specific	
Env. impacts	Not specific	Socio-econ. impacts	Help to reverse social trends	
			resulting from unsustainable	
			production and consumption	
Geographical focus	Worldwide	Indicators		
Assessment				
Usefulness for SMM				
Initiative focuses on both the production and the consumption of goods. Life cycle analyses is one of the topics addressed in the				
production phase				
Relation to other initiatives				
ICSPAC				
Contact				
info@icspac.net				

ICCA Global Product	Strategy		60	
Organisation The International Counc	Organisation Descri The International Council of Chemical Associations (ICCA) ICCA is the world-wide voice of the chemical ind			
		representing chemical	manufacturers and producers all over	
the world. It accounts for more than 75 per cent of			For more than 75 per cent of chemical	
			manufacturing	
Description				
The chemical industry, i	represented by ICCA, introduced an innov	vative Global Product Str	ategy (GPS) to enhance stewardship	
best practices within t	he industry and throughout the produc	t chain. Product stewar	dship is defined as the industry's	
management of the heal	th, safety and environmental aspects of a	product throughout its tot	al life cycle, working in cooperation	
with upstream and down	stream users			
Overall objective	the set of the set	the states and states in		
To enhance stewardship	best practices within the industry and thro	bugnout the product chain		
Specific goals	others, acts guidelines for continuously in	meraving product starrow	lahin norformonoo including grootor	
transparency: facilitates	the development and sharing of manager	ment practices: promotes	a tiered process for evaluating risk	
and identifying appropri	ate risk management actions for chemical	s in commerce: calls for	measuring industry performance and	
nublic reporting improv	wes product stewardship cooperation with	h downstream customers	of the chemical industry: supports	
nartnershins with intergo	overnmental organizations and others to en	hance product stewardshi	in	
Results	The initiative is announced but is still to	be further developed		
Website	http://www.icca-chem.org/section02d.http://www	tml		
Reports	http://www.icca-chem.org/pdf/icca_glob	bal product strategy%20	.pdf	
Initiative type	Networking and guidelines	0)		
Instruments				
Starting year	2006	Ending year		
Scope of the initiative				
Sector	Chemical sector	Product		
Material	Chemicals	Waste		
Env. impacts	All	Socio-econ. impacts		
Geographical focus	Worldwide	Indicators		
Assessment				
Usefulness for SMM				
This initiative takes a life cycle perspective but is still to be developed. Could be interesting if ICCA establishes life cycle based				
principles in it's guidelines				
Relation to other initiat	tives	the immlementation of its	Clabel Deschart Strete en east site to	
ICCA is now further developing their cooperation to ensure that the implementation of its Global Product Strategy contributes				
improvement of chemical sofety				
Contact	ai surery			
Contact				

ISO 14000 family			61	
Organisation			Description	
International Organization	on for Standardization (ISO)	ISO is the worl	d's largest developer and publisher of	
		International Sta	ndards. It is a network of the national	
		standards institu	al Socretariat in Conque Switzerland	
		country, with a Centra	that coordinates the system	
			that coordinates the system.	
		ISC) is a non-governmental organization.	
Description				
ISO has more than 16 50	00 International Standards and other types	of normative documents	in its current portfolio. ISO's work	
programme ranges from	standards for traditional activities, such as	devices information and	communication technologies and to	
standards for good mana	gement practice and for services The ISC	14000 family addresses	"environmental management" This	
results in activities/initia	tives the organization undertakes to minin	nize harmful effects on th	e environment caused by its	
activities and to achieve	continual improvement of its environmen	tal performance.	2	
Overall objective				
Standards ensure desirab	e characteristics of products and services	such as quality, environ	nental friendliness, safety, reliability,	
efficiency and interchang	geability - and at an economical cost. In the	te case of environmental s	standards their use or	
environment	led to be environmentally beneficial of to		iental impacts of activities on the	
Specific goals				
The ISO 14000 standard	ds are practical tools for an organization	with the vision to unde	erstand that implementing a strategic	
approach can bring retur	n on investment in environment-related n	neasures. The implementa	ation of these standards is focused on	
the establishment of an	environmental management system (EM	IS) that can guide an org	ganization toward achieving its own	
Results	ISO 14000 standards can lead to benefit	ts like the following:		
1054105	\Rightarrow reduced cost of waste manage	ement		
	\Rightarrow savings in consumption of end	ergy and materials		
	\Rightarrow lower distribution costs			
	\Rightarrow improved corporate image am	ong regulators, customer	s and the public	
	\Rightarrow framework for continual impr	ovement of environments	al performance	
Website	http://www.iso.org/iso/home.htm			
Reports	ISO 14000 Environmental Management	t Standards Collection is a	available at:	
	http://www.iso.org/iso/publications_and	<u>1 e-</u>		
Initiativo typo	products/management_standards_public	cations.htm#090504		
Instruments	Standards			
Starting year	1947	Ending year	Ongoing	
Scope of the initiative				
Sector	All	Product	All	
Material	All Environmental canacta and notantial	Waste	Not specific	
Env. Impacts	environmental impacts throughout	Socio-econ. Impacts		
	product/process life-cvcle			
Geographical focus	All	Indicators	Through the work of	
			environmental performance	
			evaluation.	
Assessment Usofulnoss for SMM				
ISO 14000 family could	contribute to SMM in the following areas	:		
• Environmental Management Systems (ISO 14001, 14004, 14005)				
Environmental Labelling (ISO 14020 series)				
• Environmental Performance Evaluation (ISO 14030 series)				
Environmental Life-cycle Assessment (ISO 14040 series) Environmental Product Design (ISO Guide 64, ISO 14062)				
Relation to other initiatives				
Contact				
1111p.//www.1so.org/1so/st	anualus_development/contacts.ntm			

IEC Technical	Committee 111		62
Organisation			Description
International El	ectrotechnical Commission (IEC)	IEC is the leading publishes internation and related technoloc standardization and a	ng global organization that prepares and nal standards for all electrical, electronic ogies. These serve as a basis for national is references when drafting international tenders and contracts.
Description The work under reports, in the er	IEC TC 111 intends preparing the necessary gr	uidelines, basic and horizo	ontal standards, including technical
The working gro	ours under the committee are the following one		
WG 1 · Materia	declaration for electrical and electronic equipt	ment	
WG 2 : Environ	mentally conscious design for electrical and ele	ectronic products and system	ems
WG 3: Test me WG HWG4 · Re	thods of hazardous substances		
In addition, then	e are Project Teams in the following areas :		
PT 62476 : Guid	dance for assessing compliance of finished good	de with respect to restricti	on of use of hazardous substances
<u>PT 62542</u> : Stan	dardization of environmental aspects - Glossar	y of terms	on of use of hazardous substances
Overall objecti	ve		
• To prepare in close co	operation with other product committees of IEC	standards, including techn	lical reports, in the environmental area,
• To liaise w	ith product committees in the elaboration of en	vironmental requirements	of product standards in order to foster
common te	chnical approaches and solutions for similar pr	oblems and thus assure continue activities worldwide	in order to become a focal point for
discussions	s concerning standardization.		
Specific goals	· · · · · · · · · · · · · · · · · · ·		1
 Give manu Simplify ir 	facturers a way to prove which substances then provide and exporting electrical and electronic	r electrical and electronic	products contain.
agents can	use to ensure that products entering the mark	et adhere to legislation co	oncerning restricted substances, such as
lead and ca	dmium.	<u> </u>	
Results	(ECD): Test methods for selected hazardous	n forms; Guidance on materials: Guidance on sa	ample preparation for testing: Guidance
	on assessing compliance of finished goods;	Guidance on environmen	tal terminology (as it pertains to EEE);
	Currently consideration is being given to the well as performance measurements for electro	development of informat	ion on recycling, reuse and recovery as
Website	http://www.iec.ch/cgi-		ity
Demente	bin/procgi.pl/www/iecwww.p?wwwlang=e&	wwwprog=dirdet.p&prog	db=db1&committee=TC&number=111
Initiative	Standard development		
type			
Instruments Starting year	Guidance documents, international standards,	, test methods	Ongoing
Scope of the ini	tiative	Ending year	ongoing
Sector	Electrical energy services, electrical power	Product	Large household appliances: Small
	equipment, information and communication		household appliances; Computing &
	technologies, medical devices, appliances		communications equipment;
			Power tools: Toys and sports:
			Automatic dispensers
Material	Current substances considered include lead,	Waste	Product waste management control of
	(CrVI), polybrominated biphenyls (PBB)		hazardous substances
	and polybrominated diphenyl ethers		
	(PBDE). The material declaration working group is also developing the forms so that		
	the scope of substances of concern can be		
	expanded if required.		
Env. Impacts	Chemicals, energy efficiency, environmental consideration during product and systems design	Socio-econ. Impacts	
--	---	----------------------	--
Geographical	Worldwide	Indicators	
focus			
Assessment			
Usefulness for S	SMM		
Environmentally	conscious design for electrical and electronic	products and systems	
Hazardous mate	rial profiles		
Performance measurement for recycling and recyclability			
Relation to other initiatives			
Contact			
Chairman: Mr. Koichi MORI (JP)			
http://www.iec.ch/cgi-			
bin/procgi.pl/www/iecwww.p?wwwlang=e&wwwprog=dirdet.p&progdb=db1&css_color=purple&committee=TC&number=11			
1			

Sustainable Building fo	or Military Infrastructure		63	
Organisation Description				
The North Atlantic Trea	ty Organization (NATO).Note: The	NATO is an alliance of 26 countries from North America		
Committee on the Challenges of Modern Society (CCMS)		and Europe commi	tted to fulfilling the goals of the North	
agreed to implement a short term ad hoc project "Sustainable		Atlantic Treaty. The	SPS Committee is the primary NATO	
Building in Military Infr	astructure". The NATO Science for	committee supporting	g practical cooperation in civil science	
Peace and Security (SPS) Committee is the new Committee at and innov			. It focuses on security, environmental	
NATO that was formed through the merger of the CCMS and sustainability and other defined priorities of its Par			d other defined priorities of its Partner	
the Science Committee. nations				
Description				
In 1999 the Department	of National Defence of Canada and the M	inistry of Defence of the	Netherlands agreed to organize a	
NATO CCMS short-terr	n project on the environmental and econor	nic benefits of applying	sustainability concepts to specific	
elements of defence infr	astructure. Fully appreciating the project's	s success as forums for th	e exchange of knowledge, the	
Participants expressed ko	een interest in follow-up seminars.			
Overall objective	anmontal impact of military activities by i	maravina thair any iran	antal practices, by accessing the	
Reducing the enviro	ormance of their infrastructure and by she	ring the lessons learned	iental practices, by assessing the	
Specific goals	ormance of their infrastructure and by shar	ing the lessons learned.		
Specific goals	anting information on the implementation	of quatoinable building i	n the nerticipating countries.	
• Surveying and pres	enting information on the implementation		n the participating countries,	
Exchanging experie	ences concerning policy, strategies and imp	prementation processes;		
 Presenting example Dressi din a information 	s of sustainable building projects;			
Providing informati	ion on design and decision-making tools a	vallable on the market;		
• Expanding the netw	vork of experts; and			
Establishing plans i	for future action.			
	1			
Results	The results from the seminars have be	en published as reports.	Also, establishment of a sustainable	
	building web site to facilitate ongoing knowledge transfer.			
Website	http://www.nato.int/science/pilot-studies	s/SBMI/sbm1-index.htm		
Reports	The results of the "Sustainable Building	for Military Infrastructu	re" project can be found in CCMS	
T • /• /• /	reports no. 246 (Phase I), no. 263 (Phase	e II) and No. 2/5 (procee	edings of third Seminar).	
Initiative type	Networking. Exchange of knowledge an	a experience by means c	of seminars and website	
Instruments	1000	T	On again a	
Starting year	1999	Ending year	Ongoing	
Scope of the initiative	Duilding construction domalition	Due due et	Duildings	
Sector	Construction metarials	Product	Building demolition herordous	
Wraterial	Construction materials	waste	waste	
Env. Imposts	Environmental performance energy	Socio ocon imposte	waste	
Env. Impacts	saving energy efficiency and	Socio-econ. impacts		
	sustainable energy issues in buildings			
Geographical focus	Location independent/world	Indicators		
Assassment	Location independent/ world	Indicators		
Usefulness for SMM				
A network to share infor	mation about the implementation of conc	rete projects that lead to a	energy efficiency and sustainability of	
the built environment. It considers the impacts of the built environment from a life cycle perspective				
Relation to other initiatives				
Contact				
www.nato.int/science/i	www.pato.int/science/pilot-studies/SRMI/sbmi-contact.htm			

North American Green	Purchasing Initiative (NAGPI) (Con	nmission for Environn	nental Cooperation) 64
Organisation	8		Description
Commission for Environmental Cooperation (CEC),		The CEC was cr	eated by Canada, Mexico and the United
established under the Nor	th American Agreement on	States	under the North American Agreement on
Environmental Cooperation	on	Environmental Coope	eration to address regional environmental
		conflicts	and promote the effective enforcement of
		connets, a	environmental law.
Description		L	
A steering committee m	ade up of major governmental group	s and agencies involv	ed in green purchasing North America
coordinates the activities	of this initiative		
To promote green procure	ement practices and policies in North A	merica	
Specific goals	shout produces and ponetes in Portin P	literieu	
Compile and maintain	n a list of ongoing green purchasing ac	tivities to avoid uninter	ided duplication of effort;
Create a unified voic	e to engage manufacturers, purchasers,	politicians, the media a	and the general public;
Develop and maintai	n a database of supporting tools and pro	ocurement policies used	across North America;
Identify research nee	ds (such as the need to better quantify e	environmental benefits	of green purchasing);
 Seek funding to addit Excilitate development 	ess those needs;	eficial to all: and	
Launch coordinated	campaigns to improve the performance	of specific commodity	areas.
Results	NAGPI developed "Eco-Eval", a gr	een purchasing self-ass	sessment tool which is designed to help
	organizations evaluate the environm	ental implications of t	heir purchasing systems and to identify
	opportunities for improvement. They have published many papers to provide information about		
	green purchasing on topics including certification and progurement. NACI	ng best practices, trac	le policy, and environmental labelling,
Website	http://www.cec.org/programs_project	ts/trade environ econ/r	nagpi/index.cfm?varlan=english
Reports	http://www.cec.org/programs_project	ts/trade_environ_econ/r	hagpi/docs.cfm?varlan=english
Initiative type	Network, method development, infor	mation gathering and di	issemination
Instruments	Green procurement, labelling		
Starting year	2002	L'nding yoor	
Scanting year	2002	Ending year	Completed
Scope of the initiative Sector	All sectors	Product	Any commodity purchased, including
Scope of the initiative Sector	All sectors	Product	Any commodity purchased, including services
Scope of the initiative Sector Material	All sectors Products and services purchased by	Product Waste	Any commodity purchased, including services All waste that could be generated by
Scope of the initiative Sector Material	All sectors Products and services purchased by an organization	Product Waste	Any commodity purchased, including services All waste that could be generated by an organization's products or services
Scope of the initiative Sector Material Env. impacts	All sectors Products and services purchased by an organization All	Product Waste Socio-econ.	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by reducing costs
Scope of the initiative Sector Material Env. impacts	All sectors Products and services purchased by an organization All	Product Waste Socio-econ. impacts	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous
Scope of the initiative Sector Material Env. impacts	All sectors Products and services purchased by an organization All	Product Waste Socio-econ. impacts	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous materials management, conserving
Scope of the initiative Sector Material Env. impacts	All sectors Products and services purchased by an organization All	Product Waste Socio-econ. impacts	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous materials management, conserving resources, reducing back-end costs of
Scope of the initiative Sector Material Env. impacts	All sectors Products and services purchased by an organization All	Product Waste Socio-econ. impacts	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous materials management, conserving resources, reducing back-end costs of pollution by preventing it in the first place and degrassing costs for grace
Scope of the initiative Sector Material Env. impacts	All sectors Products and services purchased by an organization All	Product Waste Socio-econ. impacts	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous materials management, conserving resources, reducing back-end costs of pollution by preventing it in the first place, and decreasing costs for green products and services by creating
Scope of the initiative Sector Material Env. impacts	All sectors Products and services purchased by an organization All	Product Waste Socio-econ. impacts	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous materials management, conserving resources, reducing back-end costs of pollution by preventing it in the first place, and decreasing costs for green products and services by creating economies of scale. The health of
Scope of the initiative Sector Material Env. impacts	All sectors Products and services purchased by an organization All	Product Waste Socio-econ. impacts	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous materials management, conserving resources, reducing back-end costs of pollution by preventing it in the first place, and decreasing costs for green products and services by creating economies of scale. The health of employees and communities can be
Scope of the initiative Sector Material Env. impacts	All sectors Products and services purchased by an organization All	Product Waste Socio-econ. impacts	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous materials management, conserving resources, reducing back-end costs of pollution by preventing it in the first place, and decreasing costs for green products and services by creating economies of scale. The health of employees and communities can be improved. Leading by example can
Scope of the initiative Sector Material Env. impacts	All sectors Products and services purchased by an organization All	Product Waste Socio-econ. impacts	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous materials management, conserving resources, reducing back-end costs of pollution by preventing it in the first place, and decreasing costs for green products and services by creating economies of scale. The health of employees and communities can be improved. Leading by example can encourage others to take up green
Scope of the initiative Sector Material Env. impacts	All sectors Products and services purchased by an organization All North America (Canada United	Product Waste Socio-econ. impacts	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous materials management, conserving resources, reducing back-end costs of pollution by preventing it in the first place, and decreasing costs for green products and services by creating economies of scale. The health of employees and communities can be improved. Leading by example can encourage others to take up green procurement. The "Eco-Eval" tool measures:
Scope of the initiative Sector Material Env. impacts Geographical focus	All sectors Products and services purchased by an organization All North America (Canada, United States, Mexico)	Product Waste Socio-econ. impacts	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous materials management, conserving resources, reducing back-end costs of pollution by preventing it in the first place, and decreasing costs for green products and services by creating economies of scale. The health of employees and communities can be improved. Leading by example can encourage others to take up green procurement. The "Eco-Eval" tool measures: Material/waste flow, Life-cycle
Scope of the initiative Sector Material Env. impacts Geographical focus	All sectors Products and services purchased by an organization All North America (Canada, United States, Mexico)	Product Waste Socio-econ. impacts	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous materials management, conserving resources, reducing back-end costs of pollution by preventing it in the first place, and decreasing costs for green products and services by creating economies of scale. The health of employees and communities can be improved. Leading by example can encourage others to take up green procurement. The "Eco-Eval" tool measures: Material/waste flow, Life-cycle indicators, Acquisition planning,
Scope of the initiative Sector Material Env. impacts Geographical focus	All sectors Products and services purchased by an organization All North America (Canada, United States, Mexico)	Product Waste Socio-econ. impacts	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous materials management, conserving resources, reducing back-end costs of pollution by preventing it in the first place, and decreasing costs for green products and services by creating economies of scale. The health of employees and communities can be improved. Leading by example can encourage others to take up green procurement. The "Eco-Eval" tool measures: Material/waste flow, Life-cycle indicators, Acquisition planning, Sourcing and Bid Solicitation
Scope of the initiative Sector Material Env. impacts Geographical focus	All sectors Products and services purchased by an organization All North America (Canada, United States, Mexico)	Product Waste Socio-econ. impacts	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous materials management, conserving resources, reducing back-end costs of pollution by preventing it in the first place, and decreasing costs for green products and services by creating economies of scale. The health of employees and communities can be improved. Leading by example can encourage others to take up green procurement. The "Eco-Eval" tool measures: Material/waste flow, Life-cycle indicators, Acquisition planning, Sourcing and Bid Solicitation practices
Scope of the initiative Sector Material Env. impacts Geographical focus <u>Assessment</u> Usefulness for SMM	All sectors Products and services purchased by an organization All North America (Canada, United States, Mexico)	Product Waste Socio-econ. impacts	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous materials management, conserving resources, reducing back-end costs of pollution by preventing it in the first place, and decreasing costs for green products and services by creating economies of scale. The health of employees and communities can be improved. Leading by example can encourage others to take up green procurement. The "Eco-Eval" tool measures: Material/waste flow, Life-cycle indicators, Acquisition planning, Sourcing and Bid Solicitation practices
Scope of the initiative Sector Material Env. impacts Geographical focus <u>Assessment</u> Usefulness for SMM Provides a concrete way	All sectors Products and services purchased by an organization All North America (Canada, United States, Mexico) Tor governments and organizations for	Product Waste Socio-econ. impacts Indicators	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous materials management, conserving resources, reducing back-end costs of pollution by preventing it in the first place, and decreasing costs for green products and services by creating economies of scale. The health of employees and communities can be improved. Leading by example can encourage others to take up green procurement. The "Eco-Eval" tool measures: Material/waste flow, Life-cycle indicators, Acquisition planning, Sourcing and Bid Solicitation practices
Scope of the initiative Sector Material Env. impacts Geographical focus <u>Assessment</u> Usefulness for SMM Provides a concrete way consumption and product	All sectors Products and services purchased by an organization All North America (Canada, United States, Mexico) for governments and organizations to ion chain analysis management	Product Waste Socio-econ. impacts Indicators	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous materials management, conserving resources, reducing back-end costs of pollution by preventing it in the first place, and decreasing costs for green products and services by creating economies of scale. The health of employees and communities can be improved. Leading by example can encourage others to take up green procurement. The "Eco-Eval" tool measures: Material/waste flow, Life-cycle indicators, Acquisition planning, Sourcing and Bid Solicitation practices
Scope of the initiative Sector Material Env. impacts Geographical focus <u>Assessment</u> Usefulness for SMM Provides a concrete way consumption and product Relation to other initiati	All sectors Products and services purchased by an organization All North America (Canada, United States, Mexico) for governments and organizations for ion chain analysis management ves	Product Waste Socio-econ. impacts Indicators	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous materials management, conserving resources, reducing back-end costs of pollution by preventing it in the first place, and decreasing costs for green products and services by creating economies of scale. The health of employees and communities can be improved. Leading by example can encourage others to take up green procurement. The "Eco-Eval" tool measures: Material/waste flow, Life-cycle indicators, Acquisition planning, Sourcing and Bid Solicitation practices
Scope of the initiative Sector Material Env. impacts Geographical focus Assessment Usefulness for SMM Provides a concrete way consumption and product Relation to other initiati Could help countries to Performance of Public Pr	All sectors Products and services purchased by an organization All North America (Canada, United States, Mexico) for governments and organizations to ion chain analysis management ves implement OECD Recommendation popurement	Product Waste Socio-econ. impacts Indicators to analyse their procut of the Council C(20	Any commodity purchased, including services All waste that could be generated by an organization's products or services Governments and organizations can save money by: reducing costs associated with waste and hazardous materials management, conserving resources, reducing back-end costs of pollution by preventing it in the first place, and decreasing costs for green products and services by creating economies of scale. The health of employees and communities can be improved. Leading by example can encourage others to take up green procurement. The "Eco-Eval" tool measures: Material/waste flow, Life-cycle indicators, Acquisition planning, Sourcing and Bid Solicitation practices

Contact			
The Intermiversity Res	search Centre for the Life Cycle of Products Proce	4-550-4528.	65
Organisation	earch centre for the Life Cycle of Froducts, Frod	esses and Services (CINAIG)	Description
Interuniversity research centre		Description The CIRAIG's mission is to generate, integrate, and interpret relevant knowledge in the fields of life cycle assessment and products, processes, and services management in order to support industries and governments in their transition towards sustainable development, notably in Québec and Canada	
Description The CIRAIG generates, integrates, and interprets relevant knowledge in the fields of life cycle assessment and products, processes, and services management.			
Overall objective			
To improve credibi providing reference	lity, acceptance and practice of Life Cy data and recommended methods for LCA s	vcle Assessment (LCA) in tudies.	business and public authorities, by
Specific goals Main deliverables are: - L CA information hub to ease the access to data and methods and to facilitate knowledge exchange			
Results	Industrial projects, events, publications, s	scientific communications, n	lews
Website	www.ciraig.org	······································	
Reports	Thousands of references in Life Cycle As	ssessment	
Initiative type	Research, teaching, networking, information gathering.		
Instruments	Documents centre, Qualification system for international LCA database, LCA software (Gabi, Simapro, TEAM, KCL-Eco), Simplified LCA methods, expert service for critical review (ISO 14040), technological and scientific watch services		
Starting year	2001	Ending year	ongoing
Scope of the initiativ	ve		
Sector	All	Product	all
Material	All	Waste	all
Env. impacts	All types of environmental impacts	Socio-econ. impacts	yes
-	(not specified)		
Geographical focus	Worldwide	Indicators	LCA-impact assessment indicators
Assessment			
Usefulness for SMM			
Supporting business and public authorities in Canada with reference data and recommended methods on Life Cycle Assessment (LCA)			
Relation to other initiatives			
The CIRAIG is an official partner of the United Nations Environment Programme (UNEP) / Society of Environmental			
Toxicology and Chemistry (SETAC) Life Cycle Initiative.			
Contact CIRAIG, Tel.: +1-514-340-4711 #4122, info-ciraig@polymtl.ca			

CIRAIG, Tel.: +1-514-340-4711 #4122, info-ciraig@polymtl.ca

Yale University Stocks a	and Flows Project		66
Organisation Descriptio			
Yale University, Center for Industrial Ecology, School of		The Center for Industrial Ecology (CIE) was established in	
Forestry & Environmental Studies		September 19	98 to provide an organizational focus for
		research in ind	ustrial ecology. Faculty research interests
		include the theoret	cal basis of industrial ecology, the cycles
		of materials, techno	logical change and the environment, eco-
		industrial urba	n development, industrial symbiosis, and
			product and producer policy issues.
Description			
This project is evaluating	current and historical flows of specific	technologically signification	cant materials, determining the stocks
available in different types of reservoirs and the flows among the reservoirs, developing scenarios of possible futures of metal			
use, and assessing the env	ronmental and policy implications of t	the results. As of fall, 2	007, the group has completed work on
copper, zinc, chromium, l	ead, iron, nickel, and silver, comprising	g complete cycle charac	terizations for all countries using
significant amounts of the	ese materials (more than 50), nine work	d regions including Eur	ope, North America, and Asia, and the
planet as a whole. Target	ed studies of a few states and cities have	e also been accomplish	ed. The group is now in the process of
similar research on staining	ess steel. Specialized studies on tin, tun	gsten, and aluminum ha	we been done as well. These
comprehensive cycles, an	a their interpretation and implications,	will be published in the	scholarly literature as they are
Overall abjective			
The historical reservoir for	or the materials used by our technologic	al society has been virg	in stocks (ore bodies, mineral deposits
and the like) For a variet	y of reasons, those stocks may become	inadequate or unavailal	ale at some times or places in the future
Other reservoirs exist ho	wever a principal one being materials	or products in use store	d or discarded over the years by
corporations and individu	als. These reservoirs might become ver	y important in the next	few decades of ranid population growth
and resource and energy i	use A second consideration is that soci	etv's use of energy in the	e extraction and processing of materials
is part of the general eval	uation of energy limits and energy prov	visioning A third issue	is that the loss of resources by
dissipation or landfilling	can sometimes be problematic from an	environmental standpo	nt. These issues can be addressed by
developing cycles for the	stocks and flows of materials of interes	st, particularly if the cyc	eles are temporally and spatially
resolved.		,	1 5 1 5
Specific goals			
Results			
Website	http://research.yale.edu/stafproject/		
Reports	http://research.yale.edu/stafproject/?c	=publications	
Initiative type	Research		
Instruments	Material Flow Analysis		1
Starting year	1999	Ending year	Ongoing
Scope of the initiative	1	·	
Sector	All sectors	Product	Major metal containing products
Material	metals	Waste	Major metal containing waste
Env. impacts	All types	Socio-econ.	
	Constitution of a constitution of the	impacts	
Geographical focus	Spatial levels of studies include	Indicators	
	the planet		
Assassmant	the planet.		
Lisefulness for SMM			
Useruiness for SMM Understanding global flows of motols and imposts			
Understanding ground flows of incluis and impacts			
Relation to other initiatives			
International Society for	Industrial Ecology, ConAccount		
Contact			
Thomas Graedel <thomas< td=""><td>s.graedel@yale.edu></td><td></td><td></td></thomas<>	s.graedel@yale.edu>		

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)67				
Organisation			Description	
European Union		The European U	nion is a union of 27 European countries	
European Commission		The European Con	nmission is the executive body of the EU	
DG ENV. ENTR		The Directora	te General for the Environment develops	
			environmental legislation in EU	
		The Directorate Ge	neral for Enterprise and Industry aims to	
		ensure t	he competitiveness of European Industry	
Description			ensure the competitiveness of European mausury	
EU Regulation introducin	g a new system for registration, eva	luation, authorisation and	d restrictions of chemicals	
Overall objective				
To improve the protection	n of human health and the environi	ment through the better	and earlier identification of the intrinsic	
properties of chemical sub	stances. Enhancement of innovative	e capacity? and competit	iveness of the EU chemicals industry	
Specific goals				
To create a central Europ	bean database in the European Che	mical Agency (ECHA)	for chemical substances. Industry is to	
register substances includ	ing information on risks and safe us	e of chemical substances		
Results	ECHA operational; pre-registration	on ongoing until 1 Decen	1ber 2008	
Website	http://echa.europa.eu			
Reports				
Initiative type	Policy measures			
Instruments	Regulation; Database, authorisation	on of substances of very	high concerns, restrictions	
Starting year	2007	Ending year	NA	
Scope of the initiative				
Sector	All sectors	Product	Chemicals	
Material	All chemical substances	Waste	Not specific	
Env. impacts	Safe, authorised or restricted	Socio-econ. impacts	Positive occupational and public	
	use of chemicals; substitution of		health impact Estimated benefits €50	
	dangerous chemicals		billion over 30 years. Estimated costs	
			to industry €5.2 billion over 15 years	
Geographical focus	EU	Indicators	Registration rate	
Assessment				
Usefulness for SMM				
Creation of a knowledge base on chemical substances allowing earlier and better identification of intrinsic properties of				
substances. Progressive substitution of the most dangerous chemicals when suitable alternatives have been identified				
Relation to other initiatives: Proposal for Regulation on the Classification, Labelling and Packaging of Substances and				
Mixtures (2009). This incorporates the classification criteria and labelling rules agreed at UN level: Globally Harmonised				
System of Classification and Labelling of Chemicals (GHS).				
Contact				
ENV-REACH-Help-Net@ec.europa.eu; ENTR-REACH-Help-Net@ec.europa.eu				