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# Mapping of Circular Economy in North Macedonia

**Diagnostic meeting with the Working Group** 



OECD Global Relations South East Europe

### Agenda

Key features of the project: objectives, timeline and main project pillars

North Macedonia's key economic features and their relevance to circular economy

**Environmental trends and recent developments relevant to circular economy** 

**Existing circular economy policy landscape and initiatives in North Macedonia** 

Potential circular economy priority areas for North Macedonia

# **PROJECT PRESENTATION**

### **Project objectives**

- Building on the greening work carried out as part of *the OECD South East Europe's Competitiveness Outlook* and *SME Policy Index* assessments, drawing on the OECD circular economy roadmap methodology and following the identified needs of the WB economies:
  - **Support for design** of circular economy (CE) roadmaps to Albania and North Macedonia to serve as blueprint for their CE transition
  - Support for implementation of CE roadmaps for WB economies, through different capacity building activities
- Broad societal consensus involvement of a wide range of stakeholders in a continuous dialogue
- Direct contribution to the Economic and Investment Plan and the Green Agenda for the Western Balkans
- Compass and the engine for a **sustainable recovery**

### **CE roadmap methodology**

#### **1. Diagnostics: state of play of circular economy in North Macedonia**

- Sectoral analysis and comprehensive review of the policy and regulatory frameworks
- Consultation process with key stakeholders to obtain insight into their views, experiences, challenges, needs and concerns regarding the circular transition:

#### 2. Prioritisation: identification of priority sectors/focus areas key to CE transition

- Assessment to identify key economic sectors to be involved in the circular economy transformation, by considering:
  - Economic importance (e.g. contribution to GDP, employment, productivity)
  - Circular potential (waste management, resource and energy intensiveness)
  - Government priorities
  - Gaps and feasibility for CE transformation
- Identification of good practices that can be transferred to the economy

### **Timeline and key milestones**

Q4 2022	<ul> <li>Inception meetings to understand specific CE-related needs</li> <li>Mapping relevant stakeholders and institutions to create a wider CE stakeholder platform</li> </ul>
Q1 2023	<ul> <li>Nomination of the CE coordinator and the CE working group</li> <li>Analytical work: identifying the state-of-play of CE in North Macedonia</li> <li>Kick-start meeting with the key CE stakeholders in North Macedonia</li> </ul>
Q2, Q3 2023	<ul> <li>19 April: Regional kick-off event at OECD Istanbul Centre coupled with a study visit</li> <li>Diagnostics meeting and consultation with key stakeholders on the CE transition and the state of play of CE</li> <li>Identifying the priority CE-related sectors/focus areas</li> </ul>
September 2023	<ul> <li>Meeting with CE working group to reach consensus on identified priority areas</li> </ul>
Q4 2023, Q1 2024	<ul> <li>Review of the draft CE roadmap by the CE working group</li> <li>Wider consultation process</li> </ul>
Q2 2024	• <b>Publishing</b> of the CE roadmap

### **Role of the CE working group**

- Led by the CE coordinator and the OECD team, facilitate the CE roadmap development process
- **Participate in meetings throughout the project,** as part of the support for CE roadmap design:
  - Take part in consultations run by the OECD to share views on the circular economy transition in North Macedonia and provide further information/data where necessary
  - **Participate in prioritisation meeting** to reach agreement on the priority CE areas/sectors in September in Skopje
- Provide feedback on the draft CE roadmap
- Participate in the support for implementation activities and regional knowledge sharing, if relevant

# DIAGNOSTIC OF CIRCULAR ECONOMY IN NORTH MACEDONIA



## *North Macedonia's key economic features and their relevance to circular economy*

# North Macedonia's key economic features relevant to circular economy

#### **SERVICES**

North Macedonia is a **service-oriented economy,** with wholesale and retail trade accounting for the largest share.

**Exports of services grew substantially but remain relatively low** despite the strong potential.

The **large share of SMEs working in the service sector** can be a key driver in achieving circular objectives.





Value added by grouped activity in North Macedonia (% of GDP), 2021

■ Agriculture ■ Industry ■ Services





# North Macedonia's key economic features relevant to circular economy

#### **INDUSTRY**

**Expanded over the past decade:** establishment of **special economic zones** played important role.

**Metallurgy** is the largest industry but is energy and carbon-intense and the production of secondary materials is almost non-existent.

**Textile** is the second biggest industry but is characterised by low recycling and reuse, leading to pressure on resources.

The strong recovery of the **automotive industry** is a key driver of economic rebound.

Industry represents	Metals production
22.5% of GDP and	accounts for <b>11%</b> of
31% employment	exports
Textile accounts for <b>10%</b> of exports and <b>13%</b> of industrial GDP	The automotive industry was responsible for <b>65%</b> of exports in Jan 2021



#### Value added by grouped activity in North Macedonia (% of GDP), 2021

■ Agriculture ■ Industry ■ Services





Sources: World Bank, 2022; OECD, 2021; Invest North Macedonia, 2022

# North Macedonia's key economic features relevant to circular economy

#### AGRICULTURE

Prevalence of **subsistence farming**, **low-skilled** and **low-waged jobs** in the agriculture sector.

**Agricultural productivity is very low** and further development of the sector is undermined by several factors.

Agricultural and food products exported most: tobacco, lamb meat, vegetables and fruits and wine.

**Organic production** has grown in recent years.

Agriculture represents 7.2% of GDP and 10% of employment Agricultural productivity is **less than 25%** of the EU

Agricultural and food products account for **10%** of exports



#### Value added by grouped activity in North Macedonia (% of GDP), 2021





Sources: World Bank, 2022; OECD, 2021; Invest North Macedonia, 2022; Ministry of Agriculture, Forestry and Water Management, 2021

# *Environmental trends and recent developments relevant to circular economy*

### Environmental trends relevant to circular economy – Energy and emissions trends

**High dependency on oil and coal energy** generation undermines North Macedonia's climate commitments and the long-run sustainability of its energy sector. **Electricity and heat generation** is responsible for 72% of CO<sub>2</sub> emissions, mainly covered by coal.

# 5.1 34.9 49.4

■ Cement ■ Gas ■ Oil ■ Coal

#### Energy mix in North Macedonia and the EU (% of total energy), 2020

**Renewable energy** only accounts for 14% of North Macedonia's energy supply, the lowest share in the Western Balkans, and nearly all is derived from hydro generation.





CO<sub>2</sub> emissions by source, 2021

# Environmental trends relevant to circular economy – *materials trends*

North Macedonia is endowed with **considerable natural resources**, but **high levels of extraction** cause environmental pressures.

North Macedonia's **DMC** has been on a slight decreasing trend since 2015, with **resource productivity** reaching an all-time high value in 2018.

North Macedonia's DMC is dominated by **fossil energy materials** due the high reliance on fossil fuels followed by **biomass**, due to the relatively high contribution of agriculture to GDP and the use of firewood for heating.

**Metal ores'** DMC is 3 times higher than in the EU due to the strong mining sector.

**Circular bioeconomy:** more resource efficient primary production, waste management (composition and anaerobic digestion) and the use of residues in agricultural practices

Resourceefficiencyeffortsinminingoperations,smeltingandrefining:processingofresiduesandsecondarymetalsandmaterials



#### Structure of DMC in North Macedonia (% of total DMC), 2021





# Environmental trends relevant to circular economy – *waste trends*

North Macedonia level of **municipal waste generation** has been increasing over years, but data collection remains a challenge (based on estimations).

80% of the population was served by **waste collection services** in 2020, mainly so in urban areas (compared to 98% in the EU).

Municipal and industrial waste management is a challenge. Waste separation at source is almost non-existent and the majority of waste is landfilled or untreated. Recycling is mainly conducted by informal waste pickers.

Bring systems for **packaging waste**, regulated under **EPR schemes** are established.

#### Municipal waste treatment (%), 2020



### *Existing circular economy policy landscape and initiatives in North Macedonia*

### Existing policy landscape relevant to circular economy



# Existing policy and regulatory landscape relevant to circular economy

#### Waste management

The Law on Waste Management was adopted in 2021 and a set of laws targeting specific waste streams and management schemes were adopted in parallel, fully transposing the EU waste Framework and regulating EPR schemes.

The National Plan for Waste Management (2021-2031) and the National Waste Prevention Plan (2022-2028) are expected to accelerate the circular transition by reducing waste production and increasing levels of reuse, recycling, and recovery of products.

#### **Public procurement**

The **Law on Public Procurement** (2019) includes relevant provisions on green public procurement, and the **Law on Energy Efficiency** (2020) introduces requirements specific to energy efficiency.

#### **Private sector and industry**

The **Industrial Strategy with a focus on Manufacturing (2018-2027)** has a key objective to "Catalyse Green Industry and Green Manufacturing".

The SME Strategy (2018-2023) has a special focus on environmental policies.

**The Plan for Accelerated Growth (2022-2026)** foresees the introduction of several instruments to promote and finance green projects.

The development of the **Smart Specialisation Strategy** envisage the transition to the circular economy.

# Overview of main circular economy stakeholders in North Macedonia



# POTENTIAL CIRCULAR ECONOMY PRIORITY AREAS FOR NORTH MACECONIA



### **Potential CE priority areas for North Macedonia**

- 1. Textile
- 2. Metallurgy
- 3. Automotive
- 4. Mining
- 5. Agri-food sector
- 6. Municipal waste / improving waste prevention and recycling
- 7. Plastics
- 8. Upscaling CE business models
- *9. Horizontal:* Economic instruments (green public procurement, landfill tax, household waste charge, extended producer responsibility schemes)





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#### Thank you for your attention!

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