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*HOW ARE COUNTRIES APPROACHING THEIR AI
STRATEGIES AND POLICIES?*

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From Principles to implementation - OECD.AI, OECD AI policy observatory (early 2020)

An inclusive online hub for AI information, evidence and policy options

1 AI Principles

- » OECD AI Principles
- » Practical implementation guidance



2 Policy areas

- » Jobs, skills, health, transport and more



3 Trends & data

- » OECD metrics & methods
- » Live data from partners



4 Countries and Initiatives

- » National strategies policies
- » Stakeholder initiatives



Multi-disciplinary



Evidence-based



Global multi-stakeholder partnerships



35+

Countries have launched national AI strategies since 2017

Many countries have a strategy to leverage AI for competitiveness, productivity, national security, and to help address societal challenges.

45+

Countries are contributing to the OECD.AI

OECD.AI, launching in late 2019, aims to help countries encourage, nurture and monitor the responsible development of trustworthy AI systems.

220+

National AI policies, initiatives and instruments

Database detailing national AI policies and instruments.

Policies investing in AI research and development (Recommendation 1)

Countries and Initiatives

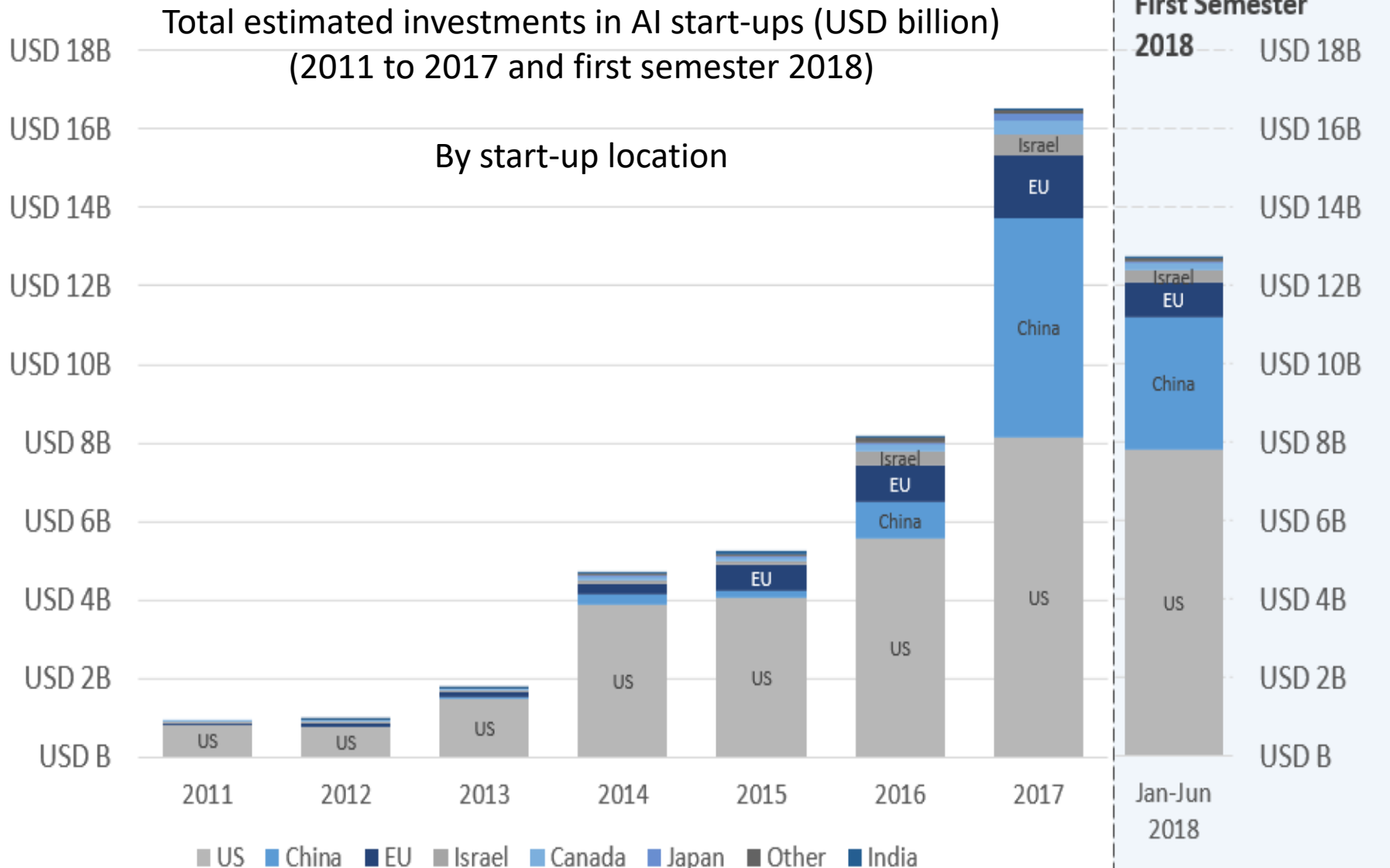
» National strategies and policies
Other stakeholder initiatives



Countries are strengthening AI research capabilities.
Some are developing AI standards.

- Allocating national budget for AI R&D
 - *Australia, Canada, France, Japan, US, etc.*
- Creating AI research institutes (e.g. Centres of Excellence)
 - *Canada, EU, France, UK, etc.*
- Developing AI standards
 - *Australia (Standards Australia)*
 - *Russia (Technical Committee on Standardization of AI)*
 - *US through NIST (ongoing plan)*

Investments in AI start-ups



Policies to foster a digital ecosystem for AI (Recommendation 2)

Countries and Initiatives

» National strategies and policies
Other stakeholder initiatives



Develop, or adapt, ecosystem for AI development and use, notably access to technologies & infrastructure.

Support SMEs

- Finland – FAIA
- Germany – SME 4.0 Excellence Centres
- UK – Investment Fund, Digital catapult

Supporting data sharing mechanisms

- Sweden – Data Factory
- Singapore – Virtual Singapore Platform
- UK – Data Trusts
- EU – Common Data Space

Create AI Clusters / Hubs

- Canada – Toronto, Montreal
- Germany – Stuttgart Cyber Valley

Facilitate public procurement of AI systems and services

- Canada – List of vendors
- UK – Guidance on AI for the public sector

Shaping an enabling policy environment for AI (Recommendation 3)

Countries and Initiatives

» National strategies and policies
Other stakeholder initiatives



Adapting policy and regulatory framework to support an agile transition from R&D to real use of AI.

- Providing **experimentation environment** (e.g. test bed and sandbox)
 - Testbed: **Germany** (AI living labs)
 - Sandboxes: **Finland, France, UK** (ICO's ...), etc.
- Reviewing and adapting their **regulatory framework**
 - **Germany**
 - **US** (regulatory reform for self-driving vehicles and drones)

Building human capacity and preparing for labour market transformation (Recommendation 4)

Countries and Initiatives

» National strategies and policies
Other stakeholder initiatives



To prepare for the AI transformation, countries are empowering people to use and interact with AI systems by education and training programmes.

- Offering course or fellowship program on **AI at university level**
 - **Finland**: Elements of AI – AI online course
 - **France, Germany, UK**, etc.: increase AI researchers
- Providing **training programs to workers**
 - **Ireland**: Skillnets
 - **US**: American AI Initiative

International co-operation for trustworthy AI (Recommendation 5)

Countries and Initiatives

» National strategies and policies
Other stakeholder initiatives



To advance, or complement, the expertise in AI, countries are engaging in partnership or cooperative framework both at bilateral and multi-lateral levels.

- Examples of **bilateral cooperation** include:
 - France – Canada
 - France – Germany

- **Multi-lateral cooperation**:
 - European Union initiatives
 - Nordic-Baltic countries (e.g. Nordic AI Network)

Many countries prioritise AI in mobility and health

National AI strategies have placed a strategic focus on a handful of sectors, with **healthcare and mobility** emerging as a common priority to many of them.

Sector focus of selected national AI strategies

	France	Germany	UK	India	Japan	Singapore	United States
Mobility	●	●	●	●	●	●	●
Healthcare	●	●	●	●	●	●	●
Manufacturing		●	●		●		●
Energy			●				●
Education				●			●
Defence/Security	●						●
Finance						●	
Environment	●						●
Other sectors				●			●

Source: OECD.AI, Countries & initiatives (forthcoming)

Responsibilities / co-ordination for national AI strategies

Countries and Initiatives

» National strategies and policies
Other stakeholder initiatives



Many countries have established, or are considering, appropriate governance mechanisms to ensure a coordinated, whole-of-government approach. Such mechanisms include:

➤ Government body to oversee implementation

- **France:** AI co-ordination function within the PM's Office
- **UK:** Office for Artificial Intelligence
- **US:** AI IWG

➤ Expert advisory Committees

- **Austria:** Austrian Council on Robotics and AI
- **Canada:** Advisory Council on AI
- **UK:** AI Council
- **US:** Select Committee on AI under NSTC

➤ Ethics bodies

- **Singapore:** Advisory Council on the Ethical Use of AI and Data
- **UK:** The Centre for Data Ethics and Innovation

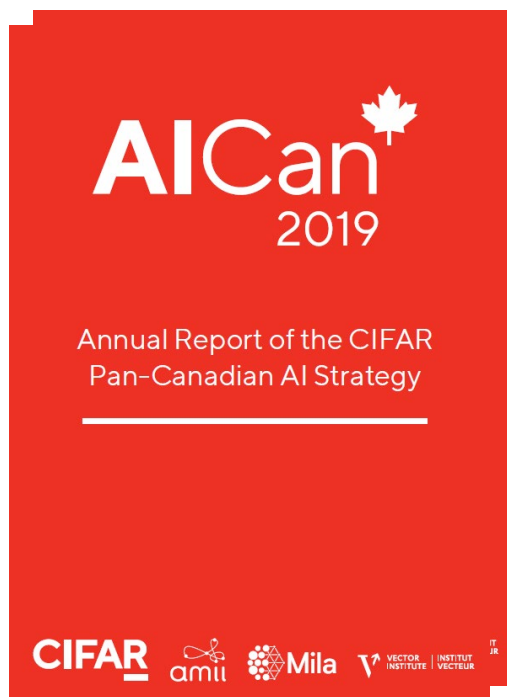
Evaluating the implementation of national AI strategies and policies

Countries and Initiatives

» National strategies and policies
Other stakeholder initiatives



A few countries have started to evaluate their first year of implementation of their national AI strategy (Canada and UK).



OECD.AI will show more detail on National AI Strategies and Policies ...

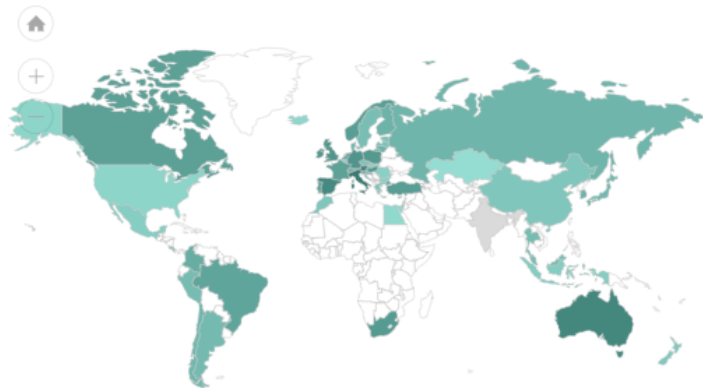
Countries and Initiatives

» National strategies and policies
Other stakeholder initiatives



Territories

By initiative count ▾



European Union (124)

Themes

By initiative count ▾

Filter

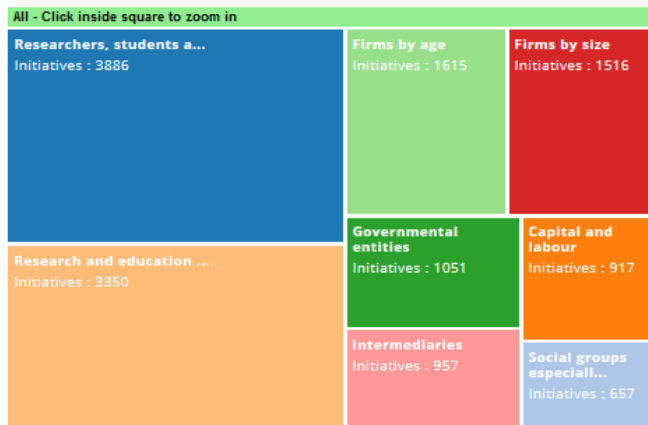


Policy instruments



Target groups

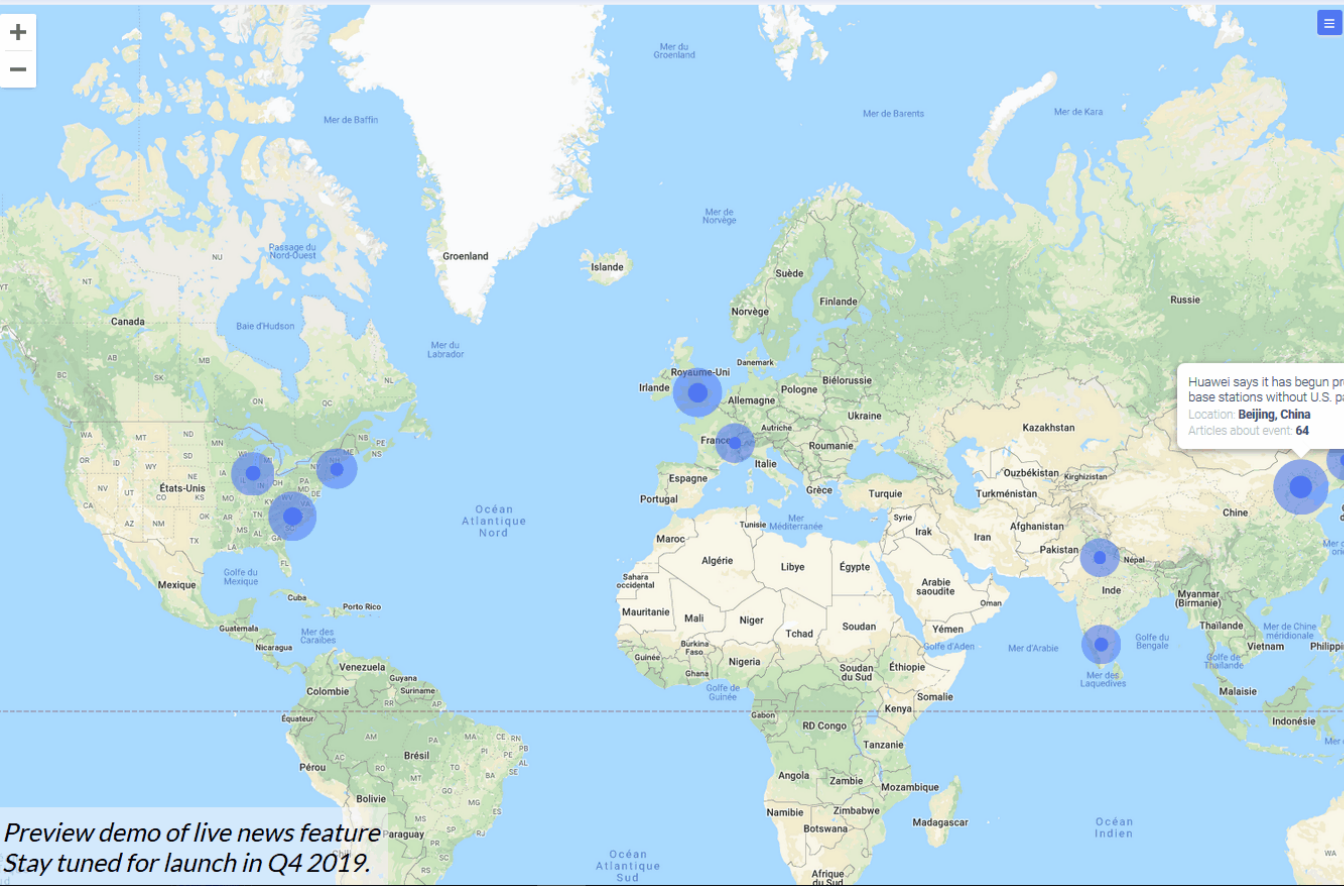
By initiative count ▾



... as well as live data and AI news

Trends & data

- » OECD metrics and methods
- Live data from partners



ARTICLES	EVENTS
	HUAWEI Beijing, China Huawei says it has begun producing 5G base stations without U.S. parts 64 articles 2019-09-26
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	Sydney, Australia Shark-spotting drone service expanding to search for crocodiles 12 articles 2019-09-26
	(unknown location) Skydio 2: the self-flying future of drones starts at \$999 29 articles 2019-10-01
	Bangalore, India Tiger Global leads \$50 million round in NoBroker 11 articles 2019-10-01
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Preview demo of live news feature
Stay tuned for launch in Q4 2019.

Thank you

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OECD work on AI: <http://www.oecd.ai>