



3rd Peer-Learning Workshop on the use and impact of AI in the public sector

AI National Strategies: preliminary results overview

24 June 2021

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Joint Research Centre – European Commission*

AI Watch report on national AI strategies



Released at the webinar on National AI strategies: where are we now and what's next? | 22 June 2021

- Learn about emerging trends in AI policies in EU countries
- Discuss the role of national AI policies in building ecosystems of excellence and trust in AI
- Learn about the EC and the OECD's work to monitor and analyse national AI policies

This AI Watch report and the recording of the webinar are available on the [AI Watch](#) portal

AI Watch

- Knowledge service from the European Commission launched in December 2018
 - “to monitor the development, uptake and impact of Artificial Intelligence for Europe”
- Developed by JRC in close collaboration with DG CONNECT
 - To support monitoring and development of the European strategy for AI
 - Based on scientific evidence
- Contributes to monitoring the Coordinated Plan on AI



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Main AI Watch main publications... so far

- AI Worldwide Ecosystem Mapping
- **National Strategies on AI**
– in collaboration with OECD
- AI in the Public Sector
- AI and Health and Healthcare
- AI History Timeline
- AI Standardisation*

Scientific publications, methodology reports

* forthcoming

AI Watch portal: https://ec.europa.eu/knowledge4policy/ai-watch_en



AI for the public sector



AI Landscape and Dashboard



Strategic Actions and Coordination

Data: a cornerstone for AI

– Toward a Common European Data Space

For an application of AI to be ready for market entry it has to learn on the basis of training data. Additionally, it may need further data sources in order...

Education and Skills

Education and training are crucial to harness AI, but AI can also help us rethink what competences and skills will be needed in the future to live...

Evolution of AI technology

Although AI has a long history of development, recent breakthroughs have impacted multiple application domains and industrial sectors.

Evolution of AI uptake

AI as a general-purpose technology can rapidly spread across industry sectors and yield strong positive growth effects.

Key Enablers

The Digital Single Market and its regulatory framework will provide key enablers to enhance AI adoption.

Social perspective

It is crucial to think how the concepts of autonomy and identity of individuals, as well as security, safety and privacy issues might change under the influence of AI. AI WATCH...



EC-OECD cooperation on national AI policies



STIPCOMPASS
INTERNATIONAL DATABASE ON STI POLICIES

M 7.4. What strategies (or plans, roadmaps) and other types of policy initiatives, if any, make up your national artificial intelligence (AI) policy?

0: Declared for significant part of lifetime; programming incentives that support the development, use, adoption and/or diffusion of artificial intelligence systems

- ✓ H4ELCOORSTRUM (2019-2021)
- ✓ H4I5I0DATAVALUE PPP (2019-2020)
- ✓ COMMON EUROPEAN DATA SPACE (2019-...)
- ✓ COORDINATED PLAN ON ARTIFICIAL INTELLIGENCE (2019-...)
- ✓ COUNCIL CONCLUSIONS ON THE COORDINATED PLAN ON THE DEVELOPMENT AND USE OF ARTIFICIAL INTELLIGENCE MADE IN EUROPE (2019-...)
- ✓ DECLARATION OF COOPERATION ON AI (2019-...)
- ✓ DIGITAL EUROPE PROGRAMME (2019-2027)
- ✓ DIGITAL INNOVATION HUBS (2016-...)
- ✓ EU COMMUNICATION ON ARTIFICIAL INTELLIGENCE (2018-...)
- ✓ EU STRATEGY FOR ARTIFICIAL INTELLIGENCE (2018-...)
- ✓ EUROPEIC INITIATIVE (2019-2026)
- ✓ EUROPEAN NETWORK OF AI EXCELLENCE CENTRES (2019-2022)
- ✓ ETT FLAGSHIP: HUMAN BIAS PROJECT (2019-2020)
- ✓ FINANCING OF ARTIFICIAL INTELLIGENCE AND BLOCKCHAIN TECHNOLOGIES (2019-...)
- ✓ HIGH-LEVEL EXPERT GROUP ON ARTIFICIAL INTELLIGENCE (2018-2020)

Survey on national AI policies, collecting qualitative and quantitative data




OECD.AI
Policy Observatory

National AI policies & strategies
This section provides a list repository of over 300 AI policy initiatives from 40 countries, territories and the EU. Click on a country / territory / group by subcategory to get by the policy.

Home > Countries & territories > National strategies & policies

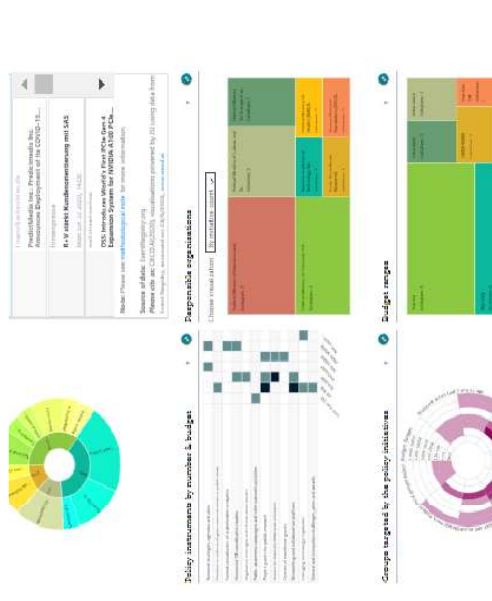
AI Principles > Policy areas > Trends & data > Countries & territories > About

Country selection: [dropdown menu]

Policy instruments > Target groups

Map showing countries with flags and a list of countries below.

OECD.AI Policy Observatory contains joint EC-OECD database with over 650 national AI policies



Interactive country & EU dashboards (60+) and EC-JRC analytical reports

Policy instruments by number & budget

Groups integrated by the policy initiatives

Budget ranges

OECD Secretariat World Trade Policy Panel 4: Expansion System for MFN AEO/PCN...

Number of cases over 2018-2020: 1422

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AI Watch Reports on National AI Strategies

Main objectives

- Present an overview of national AI policy initiatives in the European Union and Associated Countries
- Provide a useful resource for Member States' policy makers to help them compare their strategy to those of other countries, and to identify areas for collaboration;
- Support, at the EU level, the monitoring of the implementation of the Coordinated Plan on Artificial Intelligence and provide input for its development

AI Watch Reports on National AI Strategies

- Based on
 - Public information
 - Information from EC-OECD STIP Compass survey
 - Engagement with Member States
- Validated by Member States
- Published jointly on [AI Watch](#) portal and OECD AI Policy Observatory ([OECD.AI](#))
- New in 2021
 - Coverage of associated countries Norway and Switzerland
 - AI initiatives in health and environment
 - New sections: e.g. Insights analysis



AI policies by country

This web page contains the country chapters for the EU Member States, Norway and Switzerland with detailed information about policies identified in their national AI strategies. The collection of AI policies is conducted jointly by the European Commission's Joint Research Centre (JRC) and the OECD Digital Economy Policy Division. DECD and AI Watch have exchanged content for publication on their respective platforms.

[Austria](#)

[Croatia](#)

[Denmark](#)

[France](#)

[Belgium](#)

[Cyprus](#)

[Estonia](#)

[Germany](#)





























[Bulgaria](#)

[Czech Republic](#)

[Finland](#)

[Greece](#)

Overview of National AI Strategies

Country	Status	Date	Country	Status	Date
 Austria	In progress		 Italy	In progress	
 Belgium	In progress		 Latvia	Published	Feb. 2020
 Bulgaria	Published	Dec. 2020	 Lithuania	Published	Mar. 2019
 Croatia	In progress		 Luxembourg	Published	May 2019
 Cyprus	Published Last update	Jan. 2020 Jun. 2020	 Malta	Published	Oct. 2019
 Czech Republic	Published	May 2019	 Netherlands	Published	Oct. 2019
 Denmark	Published	Mar. 2019	 Norway ^{AC}	Published	Jan. 2020
 Estonia	Published	Jul. 2019	 Poland	Published	Dec. 2020
 Finland	Published Last update	Oct. 2017 Nov. 2020	 Portugal	Published	Jun. 2019
 France	Published	Mar. 2018	 Romania	In progress	
 Germany	Published Last update	Nov. 2018 Dec. 2020	 Slovakia	Published	Jul. 2019
 Greece	In progress		 Slovenia	Published	May 2021
 Hungary	Published	Sept. 2020	 Spain	Published	Dec. 2020
 Ireland	In progress		 Sweden	Published	May 2018

Some Highlights of the 2021 Edition

All EU Member States and Associated Countries have ambitious plans.

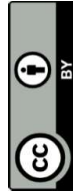
National strategies notably focus on (in all or in several countries):

- AI education and skills
- research and innovation to drive AI developments into successful products and services, also by improving collaboration and networking
- regulation framework to address ethical and legal issues
- data and ICT infrastructure
- COVID-19 pandemic and climate change – in most recent strategies
- manufacturing, agriculture, healthcare, transport and energy

Engagement with Member States and Associated Countries

- AI Watch Steering group composed of Member States and Associated Countries representatives
- Country representatives contribution to this report
 - Responded to calls for input
 - Validated country chapters; provide comments or additional information which was included in the report
- We are very thankful for these contributions and for working together on the report

Thank you!



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