Advanced Technologies
for Industry

International reports on the technology and policy landscape of non-EU countries

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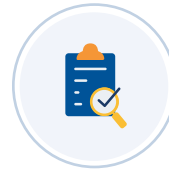
The International Reports

The **International Reports** explore the technology and policy landscape of non-EU countries including USA, China, Canada, Japan, South Korea and Russia. These reports provide European policymakers insights into the most recent developments from overseas. Country performance regarding advanced technologies is presented based on patents, trade and investment data. A concise and informative review of policies relevant for advanced technology development and deployment is also part of the reports.

Sections of the International Reports

Description of the industry and the key activities including a deep dive into patent applications, international competitiveness and investment activities.

Activities and capacities in advanced technologies

Provides an overview and policy context, including government policies towards technology development and adoption, and government initiatives to foster specific advanced technologies.

Key actors, policy and governance framework

About the Advanced Technologies for Industry (ATI) project

The ATI project – funded by the European Commission – supports the **implementation** of Europe's new growth strategy with a systematic monitoring of **technological trends** and reliable, **up-to-date data** on advanced technologies, and provides policymakers, industry representatives and academia with:

Robotics   Connectivity Photonics   Advanced Materials   Security
Artificial Intelligence
Advanced manufacturing Technology   Internet of Things   Micro- and Nanoelectronics
Industrial Biotechnology   Mobility   Blockchain   Cloud Computing   Nanotechnology
Big Data   Augmented and Virtual Reality

Report on the United States: advanced technology landscape and related policies in the United States of America

Lessons learnt by the **United States of America** in adopting Nanotechnology for the EU

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Advanced technology landscape and related policies in the United States of America

Facilitate easy access to core facilities to enable startup companies to develop prototypes and test new applications.

Define an overarching strategy for student recruitment and support to attract technology talent.

Implement policies reflecting the interdisciplinary nature of nanotechnology and that enable the nanotechnology ecosystem to reach out and tap into other digital and technological ecosystems.

Set-up policy frameworks that stimulate responsible nanotechnology and safe research and commercialisation.

https://ati.ec.europa.eu/reports/international-reports/report-united-states-america-technological-capacities-and-key-policy

Report on Russia: technological capacities and key policy measures

Lessons learnt by **Russia** in adopting advanced technologies for the EU

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Report on Russia: technological capacities and key policy measures
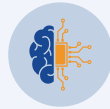
Define a strategy that ensures accelerated development of technologies, such as Artificial Intelligence (AI), through research, availability of resources and improvement of training systems to develop skills.

Incentivise supporting projects through, for example, subsidies for partial reimbursement of investment loan costs, or the provision of financing for Research & Development.

Stimulate interests from investors, both venture capital funds and business angels, to invest in companies, startups and small- and medium-sized enterprises (SMEs).

Regarding Blockchain uptake, standardise the architecture and ontology, develop requirements for its hardware and software tools and regulate the scope of applications for the technology.

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Report on China: advanced technology landscape and related policies in China

Lessons learnt by **China** in adopting Advanced Manufacturing and Robotics for the EU

Advanced Technologies for Industry – International reports

Advanced technology landscape and related policies in China

Define a unified, overarching strategy for the development of Advanced Manufacturing and Robotics on an international level.

European clusters should further facilitate and coordinate technological development across national borders to gain international visibility and relevance.

Support an increase in the digital maturity of European firms on a broad basis to upgrade their digital readiness in the business sector.

Improve the image and openness for automation and robotics to attract talent.

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Report on South Korea: technological capacities and key policy measures

Lessons learnt by **South Korea** in adopting advanced technologies for the EU

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Report on South Korea: technological capacities and key policy measures

Invest in the development of technologies and supporting an ecosystem of services through a collaboration between private and public actors, involving cities directly.

Launch initiatives that aim to establish a digital foundation to reduce the cost of trade.

Support blockchain and cryptocurrencies uptake, by setting up a framework for regulation and legalisation of cryptocurrencies and crypto exchanges.

To support Robotics uptake, investing in developing service-oriented robots for areas such as healthcare, rehabilitation, and disaster response.

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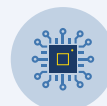## Report on Japan: technological capacities and key policy measures

Lessons learnt by **Japan** in adopting advanced technologies for the EU

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Report on Japan: technological capacities and key policy measures

Make science and technology policy a key component in the EU development strategy, with a focus on leveraging innovation to kick-start faster growth.

Offer and expand financial support to SMEs that want to invest in new technologies and to use public procurement to boost innovation in SMEs.

Define a unified, overarching strategy for the development to promote science and technology at a European and international level.

Support the uptake of AI specifically, invest in the development of a data linkage infrastructure.

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Report on Canada: technological capacities and key policy measures

Lessons learnt by **Canada** in adopting advanced technologies for the EU

Advanced Technologies for Industry – International reports

Report on Canada: technological capacities and key policy measures

Support entrepreneurs and companies through specific programmes with their scientific innovation and research so that they can grow and compete in the global market.

Acquire and equip citizens with skills to enable them to join, compete and grow in the (digital) economy.

Invest and scale up to support and grow companies with a strong focus in developing the start-up and scale-up ecosystems and to attract further investment.

Leverage on opportunities from emerging technologies to create new sectors and job roles.

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Report on the United Kingdom: technological capacities and key policy measures

Lessons learnt by the **United Kingdom** in adopting advanced technologies for the EU

Advanced Technologies for Industry – International reports

Report on the United Kingdom: technological capacities and key policy measures

Build world-class digital infrastructure to help organisations and citizens thrive in and access the digital world.

Ensure everyone has access to the digital skills they need, starting in the education system to improve children's digital skills and knowledge.

Define strategies to support all businesses in becoming a digital business, including policies to increase exports and broaden the number of businesses with access to e-marketplaces.

Enable organisations, citizens and governments to access and use data to fuel the economy in a secure and trusted way.

https://ati.ec.europa.eu/reports/international-reports/report-UK-technological-capacities-and-key-policy-measures

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