

Innovation and Technological Valorisation Towards the SDGs

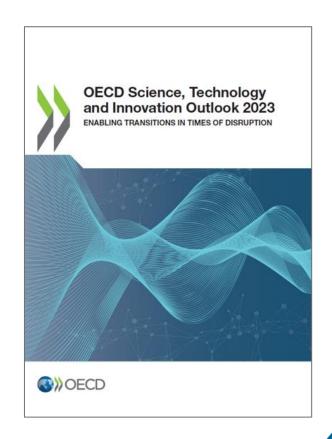
16 November 2023





STI in an Age of Disruptive Change

- Disruptive shocks and crises and a greater emphasis on the resilience function of STI
- Climate change and the need for greater directionality in STI policy and international cooperation
- Strategic competition and the growing securitization of STI policy
- Rapid rise of emerging technologies and demand for improved governance





An agenda for transformative STI policies

NEW MODES OF PARTNERSHIP



How to spur and deepen **STI cooperation** between firms, the public research system, governments, and non-profit sectors for transition?



How to **engage society in STI** to further transitions?

How to promote cross-government coherence on STI-enabled transitions that depend on several government bodies cooperating?





How to leverage **international STI cooperation** in the interest of transitions?

INNOVATION ENABLERS



How to direct **private financing and public funding** to support transitions?

How to develop and implement emerging technologies to enable just transitions?

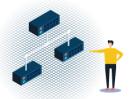




How to **gear research and technical infrastructures** towards transitions?

How to nuture the skills and capabilities required for STI-enabled transitions?





How to ensure various **framework conditions** for STI are conductive to supporting transitions?

How to develop and use **knowledge** and evidence that support transitions?



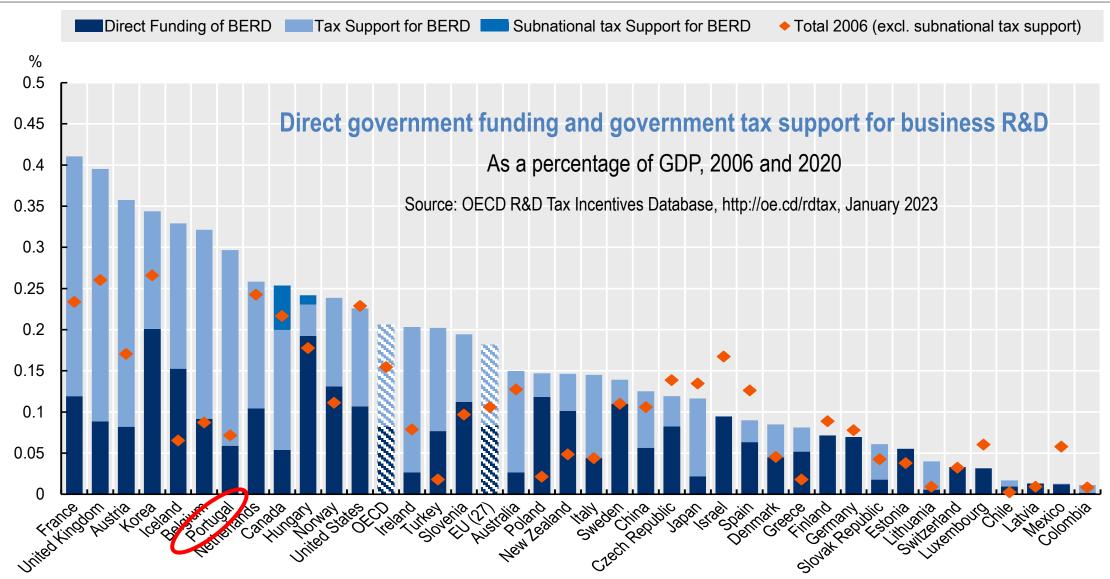


Three key policy imperatives

- 1. Ensure directionality in research and innovation incl. financing and collaboration
- 2. Promote inclusion co-operation and partnerships, favoring whole-of-government approaches, multistakeholder & citizen engagement, co-creation
- 3. Prioritize anticipatory technology governance, focusing on alignment, anticipation, agility, stakeholder engagement, international co-operation



Direct funding of Business R&D in the policy mix

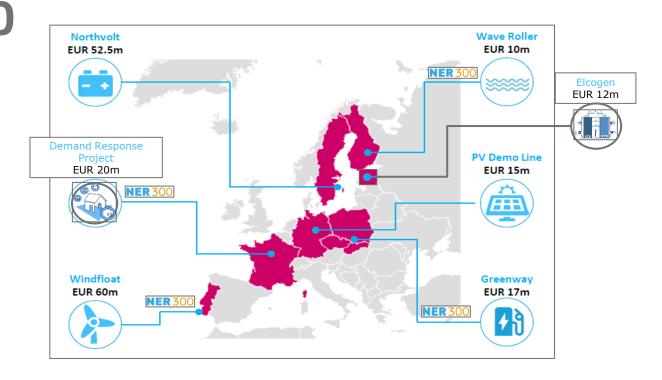




The role of blended finance

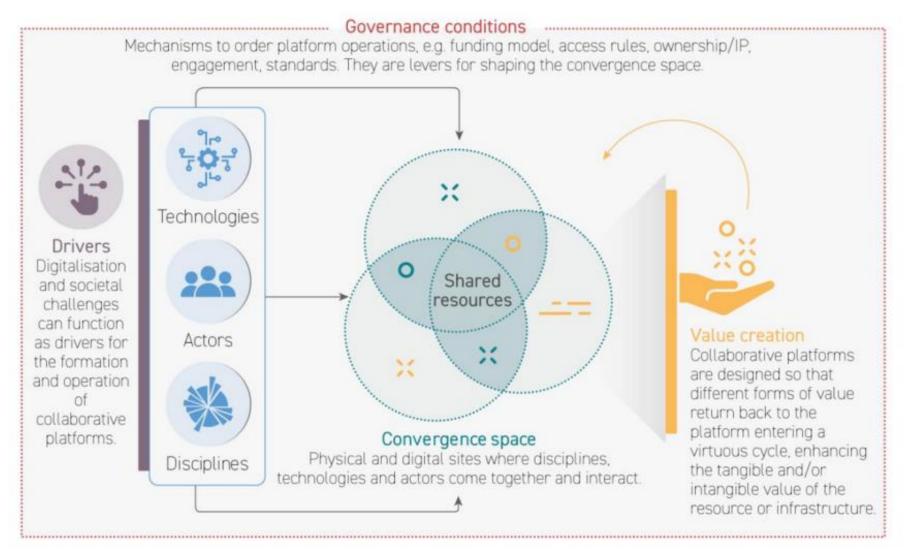
Blended finance can help scale up private investments in R&D and innovation to better meet sustainability challenges in both developed and developing countries, while increasing directionality.

E.g. InnovFin Energy Demo Projects





Deepen STI relationships and modes of partnership



Source: OECD, Collaborative platforms for emerging technology, STI Policy paper April 2021 No. 109



Co-creation case Study: GreenCoLab

Key Takeaways

- diversified long-term financial sustainability
- ☐ industry-supported capacity-building
- ☐ independent monitoring through international and independent advisors and evaluators
- strong citizen engagement





Leveraging enabling technologies responsibly

Actors at country and international levels seek guidance and agreement on how to embed foundational values in technology to make innovation more responsible and responsive to societal needs.

Key messages

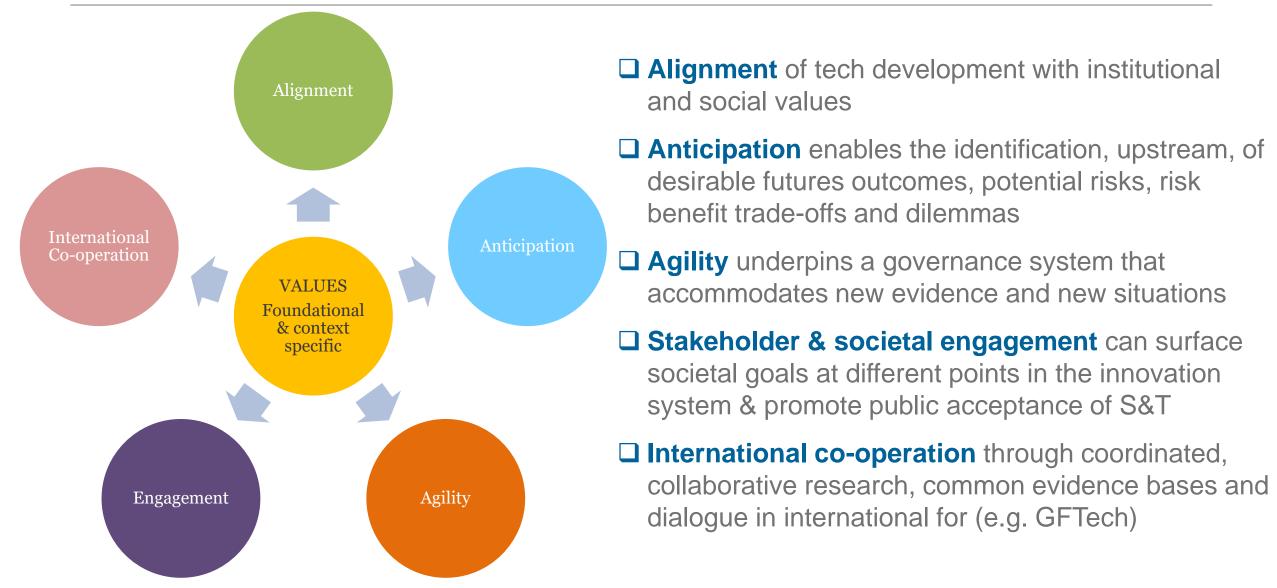
Innovators and societal stakeholders (funders, researchers, tech developers, associations etc) need to be brought in the **technology governance process**. This should occur at both the **national and international levels**.

General and anticipatory framework for the governance of emerging technologies is needed, to **use common tools and learning** to help address many recurrent policy issues and dilemmas.

An anticipatory tech governance framework could act as a force for technological cooperation at the international level by reinforcing the commonality and commitment of these values and tools.



Anticipatory tech governance: embedding values





Science and technology policy: Shared challenges, transformative actions

OECD Science and Technology Policy Ministerial

23-24 April 2024

INNOVATION to accelerate sustainability transitions, while embedding shared values in the governance of science and emerging technologies and reaffirming the need for international co-operation in science, technology, and innovation to address global challenges.

- 1. Ministerial opening: science, technology and innovation policies for transitions in times of disruption
- 2. Responsible science and technology: aligning values for good governance
- 3. Transformative science, technology and innovation approaches for climate challenges (plenary followed by 3 breakouts)
- 4. International STI actions in science, technology and innovation to address global challenges
- 5. Ministerial closing Endorsing the Ministerial Declaration



THANK YOU



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