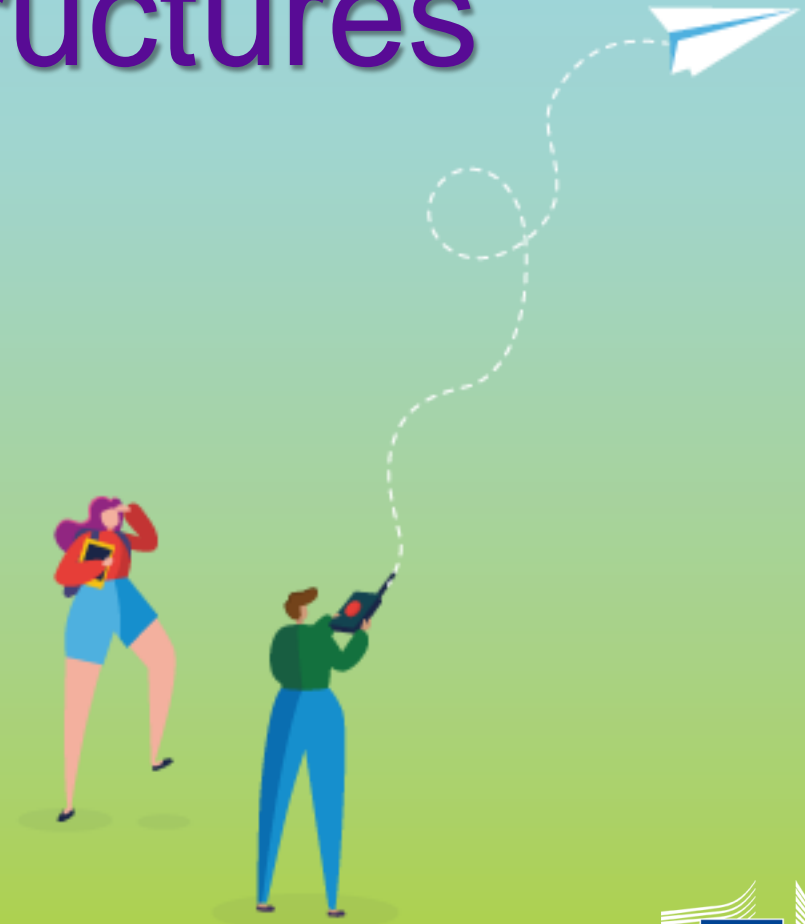


Technology Infrastructures in the New ERA



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TIs are gaining momentum

- April 2019: Staff working document on technology infrastructures (TIs)
- Sept. 2020: New ERA action 10 on TI governance
- Dec. 2020: Council conclusions highlighting development of TI strategy
- Nov. 2021: ERA policy agenda, action 12

- Outputs from dedicated policy workshops and seminars (e.g. ConcordI, JRC-EARTO)

Aims for TIs and beyond

- Creating an integrated European TI landscape.
- Providing services for industry and SMEs along the entire knowledge and value creation chain.
- Building cross-border, long-term and trusted innovation ecosystems.
- Creating stronger pan-European integration of RD&I capacities with industry and SMEs.

ERA Policy Agenda: R&I for the green/digital transition

Taking up together the challenges posed by the twin green and digital transition, and increasing society's participation in the ERA

Action 12 – Accelerate the green/digital transition of Europe's key industrial ecosystems

Set of foreseen activities

- Consultation process on R&I-related needs of industries, including skilling/upskilling needs, digitalisation, R&I driven standardisation, common technology roadmaps, and research and technology infrastructures
- Develop a robust policy framework to better support fundamental research at national and European levels to generate breakthrough knowledge and innovation
- Development of a policy approach to link industrial and R&I policies, notably on how to accelerate the industrial take-up of R&I results, and launch pilots in transport and energy industrial ecosystems
- Development of industrial technology roadmaps on low carbon technologies for energy-intensive industries and on circular industrial technologies
- Development of a coordination mechanism to provide industry with the technology infrastructures needed to test, validate and upscale innovations
- Address the social adaptation of the green (and digital) transitions

Challenges to be addressed

Strengthening and accelerating the transfer of R&I to the economy

Increase private and public investments on R&I in sectors where low-carbon technologies are needed

ERA policy agenda action 12 in detail (1/2)

Four activities

- Development of **industrial technology roadmaps** on low carbon technologies for energy-intensive industries and on circular industrial technologies.
- Creation of a **coordination mechanism** to provide industry with the technology infrastructures needed to test, validate and upscale innovations.
- Build policy framework to better **support transfer** of fundamental/low TRL research results to industrial R&I.
- Address the **social adaptation** of the green (and digital) transitions.

ERA policy agenda action 12 in detail (2/2)

Two processes

- **Consultation process** on the R&I-related needs of industry, including skilling/upskilling needs, digitalisation, R&I driven standardisation, common technology roadmaps, and research and technology infrastructures.
- Development of a policy approach to **link industrial and R&I policies**, notably on how to accelerate the industrial take-up of R&I results, and launch pilots in transport and energy industrial ecosystems.

Specific TI activities ahead (1/2)

Responding to the needs of industry and SMEs and coordination of activities

- Establishing a **pilot advisory board** (as a start) for pillar II activities for TIs.
- Launching a **number of pilot areas** for technology infrastructures, in line with the main policy objectives.

Reflection on funding models

- **Stock taking** of the policy initiatives and current funding instruments and streamlining public and private funding.
- Possibly subjecting (parts of) funding from existing programmes to support **overarching priority setting** on TIs.
- Reflection on a plan for a **technology infrastructure funding scheme**.

Specific TI activities ahead (2/2)

- Promoting stronger **synergies with research infrastructures** by integrating currently fragmented research infrastructure services for industry into the broader TI strategy.
- Promoting **innovation** at ecosystem-level
- Combining and completing the existing **repositories and mappings of TIs** at EU level.
- Link sectorial roadmaps, **prioritisation and coordination of investments** in TIs at EU level.
- Development of **TI access conditions** for to ensure access on a transparent and non-discriminatory basis and on market terms.
- Alignment of action 12 with the **European Skills Agenda** to avoid gaps or overlap between the two.

HORIZON-INFRA-2022-DEV-01-02:

Cooperation, synergies and networking between research infrastructures and technology infrastructures

Type: CSA | Opening: 19/01/2022 | Deadline: 20/04/2022 | max one project funded | EUR 1.5 million EU-funding

Policy context:

- New ERA: CSA will support Commission in New ERA action 10 (on RIs & TIs) and in development of a European strategy on technology infrastructures. This is linked to the ERA policy agenda actions 8 (Strengthening RIs) and 12 (Accelerating twin transition).

Expected outcomes:

- Addressing the needs of industrial and SME users of research and technology infrastructures (RIs & TIs).
- Strengthening collaboration between RIs & TIs and integration of industry/SME relevant services in prioritised areas.
- Alignment of RI & TI activities with other relevant actions.

Scope:

- Support to: (i) Mapping (including also relevant RI services) and prioritisation; (ii) Operations and guidelines; (iii) Governance; (iv) Outreach and communication