



Research Infrastructures in the new European Research Area

#ResearchImpactEU
#EUResearchArea



The European Research Area: 20 years on



Successes

- 37 **Research Infrastructures** implemented with close to 20 billion euro in investment
- 7 billion euro in **joint programmes** between Member States
- Better **research careers**: Charter and Code for Researchers, EURAXESS
- European **Open Science** Cloud



Points for improvement

- **3% target** not reached, lagging in private investment, public investment stagnated
- Significant **divides in R&I performance** across the EU
- More ambitious **policy reforms**
- Need to improve on **translating R&I results to the economy and to support the transition and the recovery**
- Progress to **gender equality** has been slow: only 24% of top positions in higher education sector are occupied by women
- Better involvement of **citizens and society**

Delivering on the transitions and the recovery

- Europe faces **societal, ecological and economic challenges**, aggravated by **#coronavirus** → it is high time to retool ERA so that it delivers on **Europe's recovery** to:



Accelerate the twin transition

and new solutions in areas such as the decarbonisation of industry or sustainable mobility



Strengthen resilience and crises preparedness

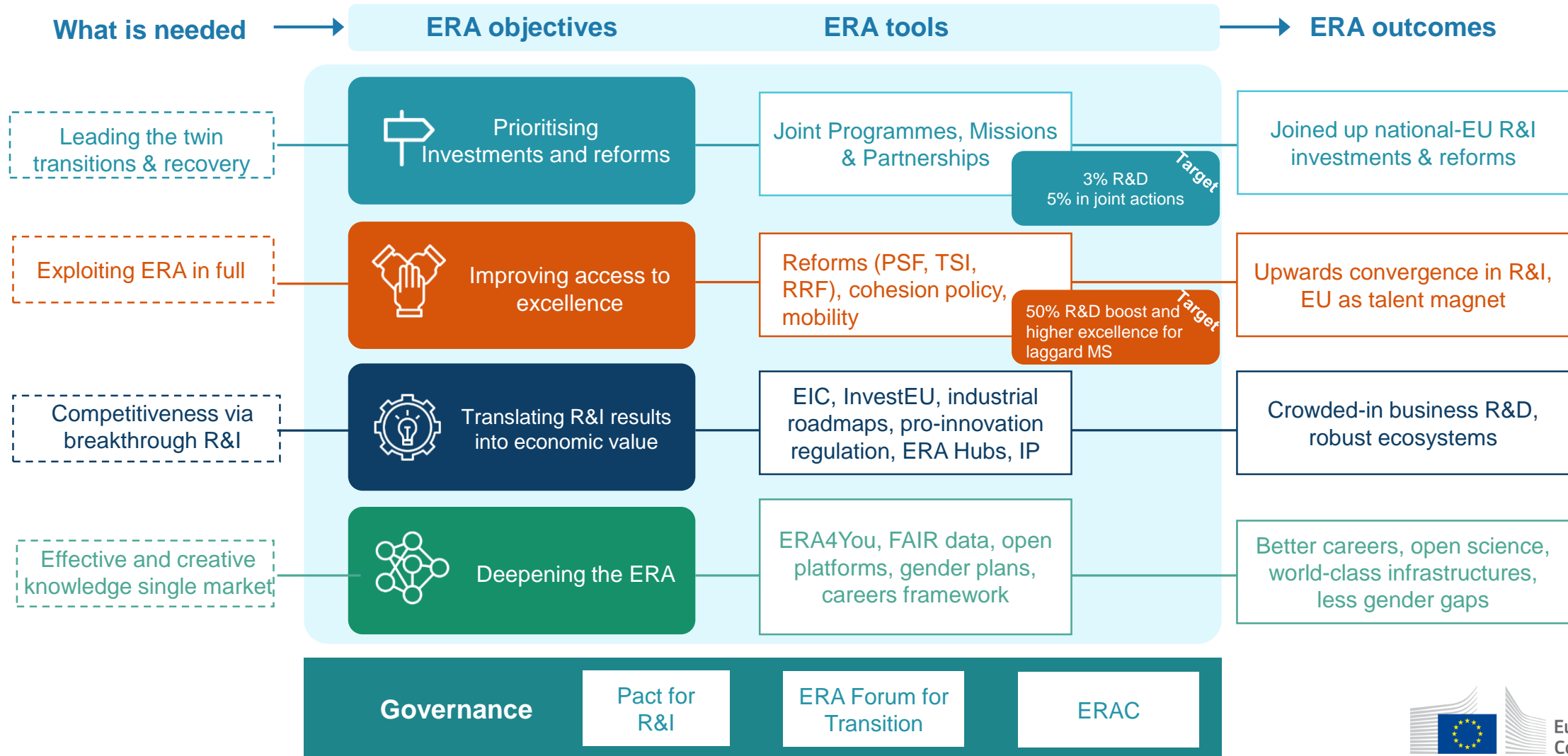
health, digital, socio-economic and climate R&I are essential



Support Europe's competitive edge

in the global race for knowledge and tech sovereignty in cybersecurity, space, AI, 5G and e-mobility

A stronger ERA for the future



Deepening the ERA – by ensuring that European science and business has access to world-class research and technology infrastructures

- ✓ Big success of current ERA: development and networking of pan-European RIs
- ✓ Commission SWD on Technology infrastructures (2019)
- ✓ ESFRI White Paper ‘Making science happen’ (2020)

Action 10 of ERA Communication :

*Support ESFRI to work towards a world-class research infrastructures ecosystem focusing on the broader range of the **EU’s policy priorities** and improve its **governance** to address the broadened focus of its activity by the end of 2021, and establish a new governance structure for **Technology Infrastructures**.*

Deepening the ERA - by ensuring that European science and business has access to world-class research and technology infrastructures

Implement ESFRI White Paper and establish an updated governance structure for research and technological infrastructures

- ☐ Common performance monitoring framework
- ☐ Strategic alignment of ESFRI Roadmap with policy needs (notably Green Deal and digital transformation)
- ☐ Strengthened dialogue between ESFRI and RIs stakeholders
- ☐ Strengthened ESFRI capacity & governance structure
- ☐ European Technology Infrastructures Strategy

Research Infrastructures in Horizon Europe – how it will support our policy initiatives in 2021-2022

Novel ‘Impact-driven intervention logic’, starting from long-term ‘destinations’

- ❑ Destination # 1 . Developing, consolidating and optimising European Research Infrastructures to maintain global leadership
- ❑ Destination # 2 . Enabling an operational, open and FAIR ecosystem for the EOSC
- ❑ Destination # 3 . RI services to support health research, accelerate the green and digital transformation, and advance frontier knowledge
- ❑ Destination # 4 . Next generation of scientific instruments, tools and methods and advanced digital solutions
- ❑ Destination # 5 . Network connectivity – Enabling collaboration without boundaries