



HORIZON EUROPE

THE EU RESEARCH & INNOVATION PROGRAMME

2021 – 2027



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The new European Research Area



#ResearchImpactEU
#EUResearchArea

Boosting R&I for prosperity through ERA

- R&I as a key driver of economic and social prosperity and well-being
- ERA as a policy tool to boost R&I in Europe:
 - Build a European internal market for knowledge to boost R&I
 - Launched 20 years ago
 - Activities focused mainly on reducing R&I fragmentation and overlaps in Europe

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 prepare crises

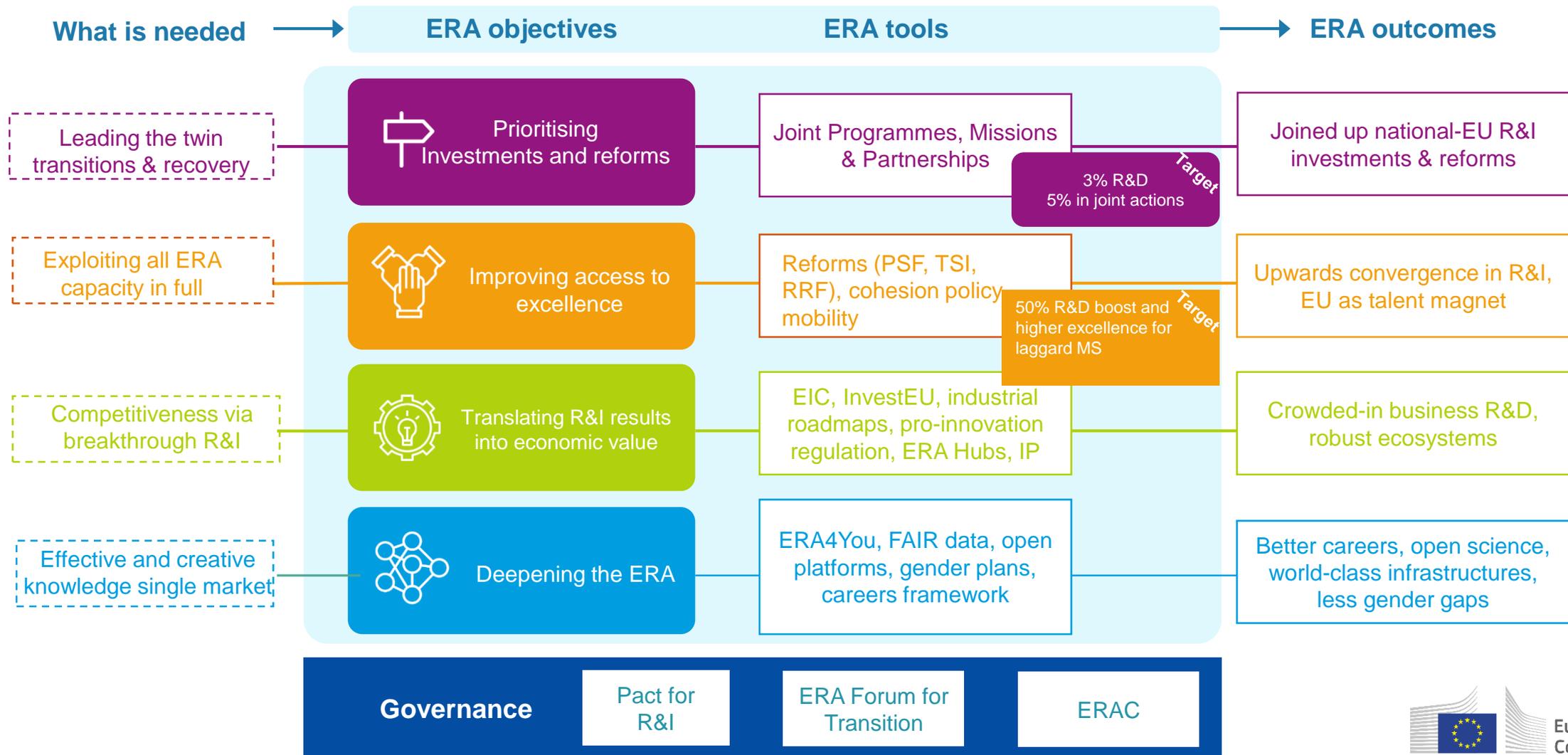
health, digital, socio-economic and climate R&I are essential



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



Horizon Europe contributing towards a renewed ERA

Pillar 1

Excellent Science

European Research Council

Marie Skłodowska-Curie Actions

Research Infrastructures

Pillar 2

Excellent Science Global Challenges and European Industrial Competiveness

- Health
- Culture, Creativity and Inclusive Society
- Civil Security for Society
- Digital, Industry and Space
- Climate Energy and Mobility
- Food Bioeconomy, Natural Resources, Agriculture and Environment

Joint Research Centre

Pillar 3

Innovative Europe

European Innovation Council

European innovation ecosystems

European Institute of Innovation and Technology

Widening Participation and Strengthening the European Research Area

Widening Participation and Spreading Excellence

Reforming and Enhancing the European R&I system

Horizon Europe contributing towards a renewed ERA

Complementarities



European
Research Area

- Traditional ERA priorities **will continue** to be supported by the EU's Framework Programme for Research and Innovation (coming up: Horizon Europe)
- Member States will be encouraged and supported, through dedicated Horizon Europe measures and complementarities with smart specialisation strategies under Cohesion Policy
- Towards reducing R&I fragmentation (improving access to research infrastructures, improving quality of science, promoting mobility and better careers,...)

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Widening actions in HE



Horizon Europe contributing towards a renewed ERA

Widening participation and strengthening the ERA part

2. Improving access to excellence

- Teaming, Twinning, COST, Excellence hubs, Excellence Initiative for HEIs
- Balancing brain circulation, for research Western Balkans managers, sup

1. Prioritising investments

- Teaming, Policy Support Facility
- Support for policy makers

networking



3. Translating R&I results into economic value

- Excellence Hubs, (Teaming)
- Standardisation booster, Innnowwide Bridging, IP mgmt

4. Deepening the ERA

- ERA Chairs, Twinning, COST
- Empowering universities
- Strengthening R&I talents
- Science education & communication
- Ethics and integrity, gender
- Open Science

Part

Widening Participation & Strengthening the European Research Area (ERA):

Widening Participation and Spreading Excellence

- Teaming, Twinning, ERA Chairs,
- European Cooperation in Science and Technology (COST)
- Boosting National Contact Points' (NCPs) activities, pre-proposal checks and advice
- Brain circulation
- Excellence initiatives (hubs + universities)
- Possibility for entities from widening countries to join already selected collaborative R&I actions
- Recognition of participation
- Matchmaking services

€ 2,96 billion

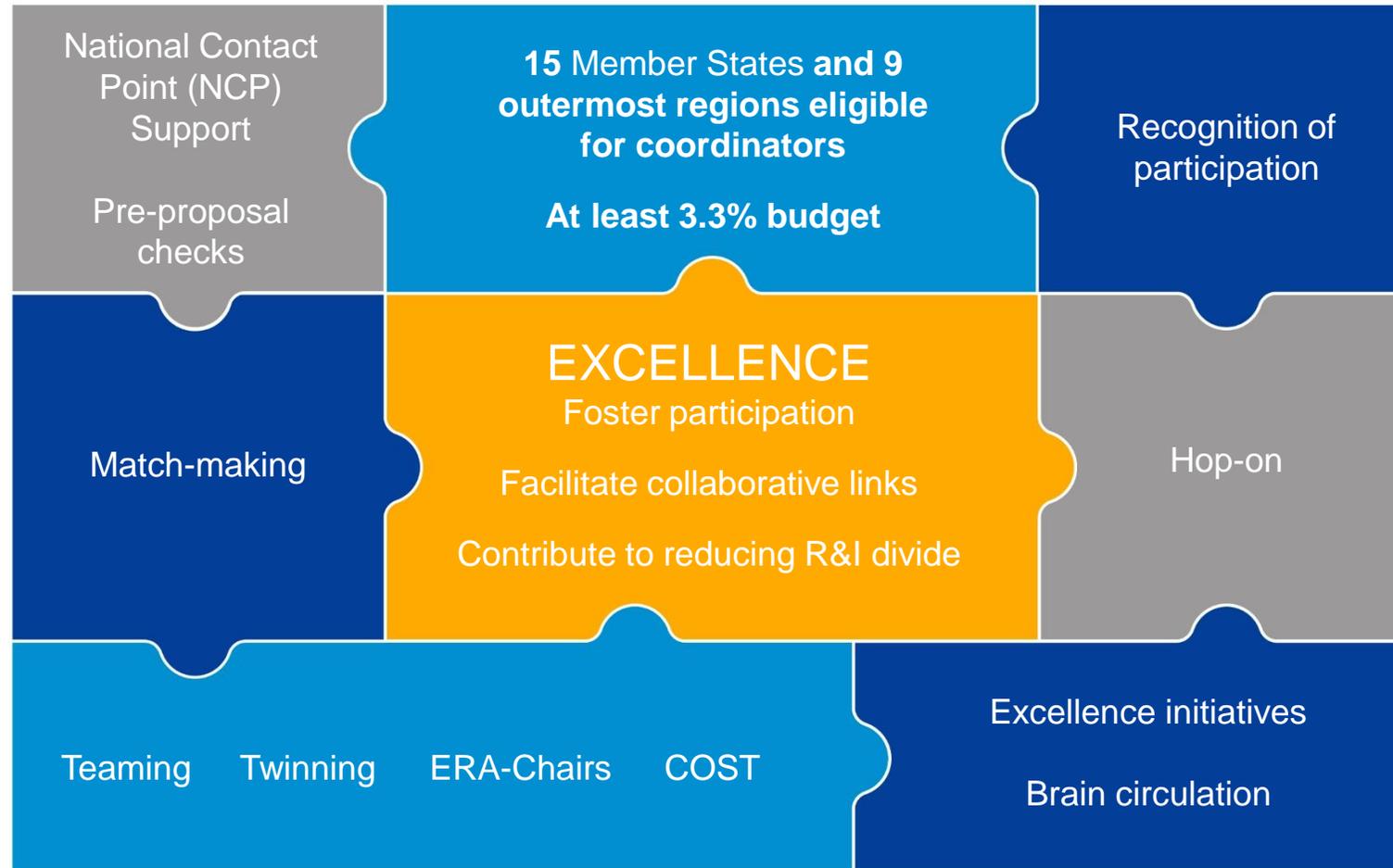
Reforming and enhancing the EU R&I system

- Strengthening the evidence base for R&I policy
- Foresight
- Support for policy makers to the ERA development
- **Support to national R&I policy reform, including Policy Support Facility**
- Attractive researcher careers and links with higher education
- Open science, citizen science and science communication
- Gender equality
- Ethics and integrity
- Support to international cooperation
- Scientific input to other policies
- Support to the Programme implementation
- Support for National Contact Points
- Support to dissemination & exploitation

€ 0,44 billion



Widening participation/spreading excellence



Novelties for Widening under Horizon Europe:

- Full alignment with **new ERA strategic priorities**
- **Continuation of core widening instruments** Teaming, Twinning and ERA Chairs with some improvements in response to lessons learnt
- **Research cost for CSA eligible** under Teaming, Twinning and ERA Chairs
- More emphasis on **developing research management capacities**
- **Full integration of COST** under widening, 80% of actions must have significant widening dimension
- **Fixed list of eligible Member States** to host the main beneficiary (EU13 + PT + EL) + Associated Countries
- **EU Outermost Regions** fully eligible to host the co-ordinator
- Full implementation of “**Advancing Europe**” package with a number of additional support schemes to boost participation of less research performing countries
- More integrated policy approach and **enhanced synergies** with regional policy, transnational missions, regional smart specialisation strategies etc.

Destination #1: Improved access to excellence

Objective: to create a portfolio of complementary actions that will build R&I capacities in Widening countries enabling them to advance to the competitive edge at European and international level.

Main impact:

- Increased science and innovation capacities for all actors in modernised and more competitive R&I systems in widening countries
- Reformed institutions and increased attractiveness for talents
- Higher participation success in Horizon Europe and more consortium leadership roles
- Stronger linkages between academia and business and improved career permeability
- Strengthened role of the Higher Education sector in research and innovation
- Better involvement of regional actors in R&I process
- Improved outreach to international scale for all actors

Destination #2: Attracting and mobilising the best talents

Main impacts:

- Inciting institutional reforms in research institutions in widening countries
- Better use existing research infrastructures and populate them with excellent talents
- Attract first-class talents and turn them into game changers in institutions
- Revert brain drain
- Improved linkages between academic and business, notably by overcoming sectoral barriers
- Free circulation of knowledge and expertise in line with ERA priorities

Widening participation and strengthening the ERA WP

- **Destination #1:** Improved access to excellence
 - Teaming
 - Twinning (incl. special call WBC)
 - Excellence Hubs
 - European Excellence Initiative for Higher Education Institutions
 - R&I Policy making in Western Balkans
 - Hop-on facility
 - (under other actions) COST

- **Destination #2:** Attracting and mobilising the best talents
 - ERA Chairs
 - Fostering balanced brain circulation: ERA Fellowships
 - Fostering balanced brain circulation: ERA Talents

- **Destination #3:** Reforming and enhancing the EU research and innovation system 2021-2024

Comparison of key characteristics widening actions with other schemes outside widening WP

Actions in WP	Consortium structure	Target group and scale of operation	Policy objectives
Teaming	Main beneficiary + 1 or 2 strategic advanced partners	Single centre of excellence to be modernised or created, relevant at national scale	Develop light houses and role models to stimulate reforms of national R&I system, increase level of excellence of national R&I system, mobilise new investments
Twinning	Main beneficiary and focused network of partnering organisations	Individual institutions and small network of advanced partnering institutions. Institutional scale with European outreach	Develop excellence in a chosen R&I domain for the main beneficiary with the help of twinning partners, increase visibility of main beneficiary and upskill its staff
ERA Chairs	Mono-beneficiary host organisation with optional single partner organisation	Excellent individuals and their teams, institutional scale	Excellent scientists and their teams to become game changers at institutional level, develop new research strands and raise level of excellence
Excellence hubs	Group of 2 or 3 placed based innovation ecosystems based on the quadruple helix approach	Research institutions, firms, local/regional government, societal actors, local regional scale with cross border dimension	Foster innovation excellence in place based (local/regional) innovation ecosystems, improve science business linkages, regional dimension of widening, bottom-up approach
Excellence Universities	Network of European Universities, co-ordinates by university from widening country	Universities at European Level	Support transformation of HE institutions towards excellence and international profile



Thank you!

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<http://ec.europa.eu/horizon-europe>



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