

ERA MONITORING 2023 'SCOREBOARD'



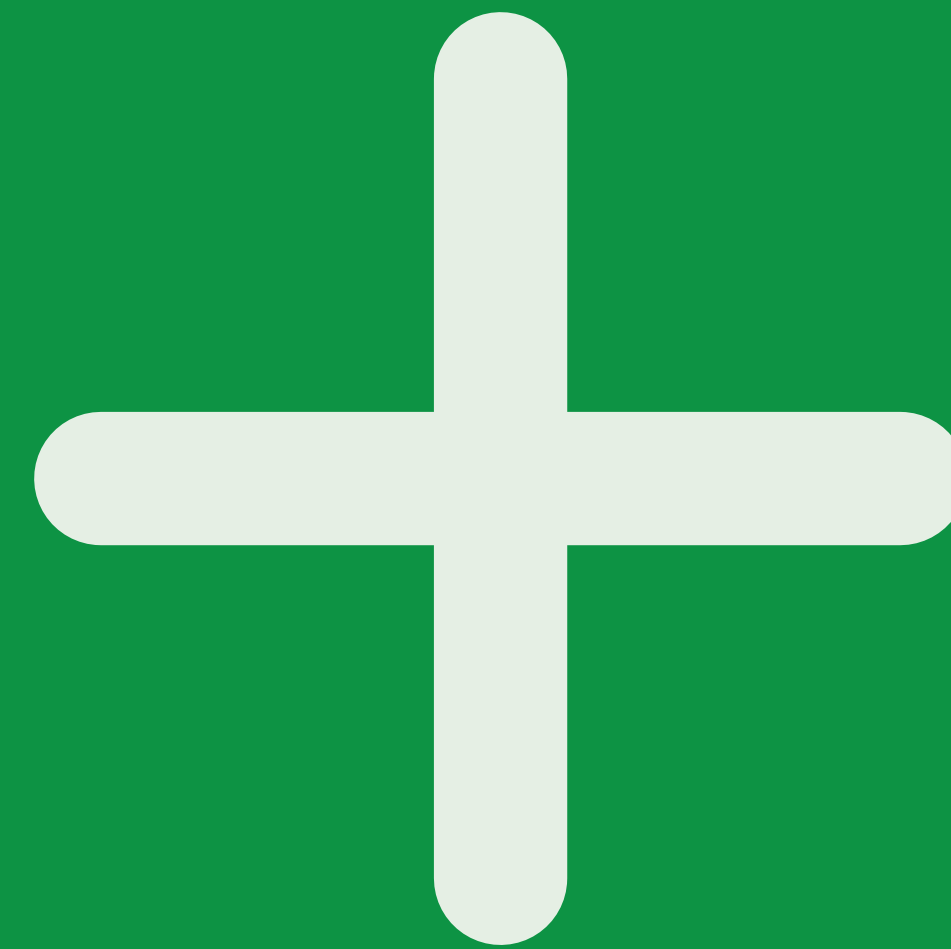
THE EUROPEAN RESEARCH AREA (ERA) SCOREBOARD...

- ...is a component of the new ERA Monitoring Mechanism covering 18 indicators, including two general indicators measuring progress in the European R&I system and 16 specific indicators – one for each Pact for R&I priority
- ...assesses the collective progress of ERA priorities using aggregated data at EU level, whereas the ERA Dashboard focuses on developments in individual Member States
- ...combines information on relative performance change over given intervals: since 2010, from 2015, and for the last three years

OF THE INDICATORS MEASURED...

- ...datasets are only available for 15 indicators – two are currently under construction and one unavailable
- ...metrics for most indicators show if and how the performance on each of the indicators has been converging or diverging across Member States
- ...based on trend analysis for each period, they are deemed to have shown 'substantial positive change', 'slower positive change', or 'little to no positive change'





PRIORITY AREAS WHERE THE EU IS SHOWING THE HIGHEST LEVEL OF POSITIVE CHANGE...

- R&D investments
- Gender equality
- Global engagement
- Synergies with sectorial policies and industrial policies
- Coordination of R&I investments



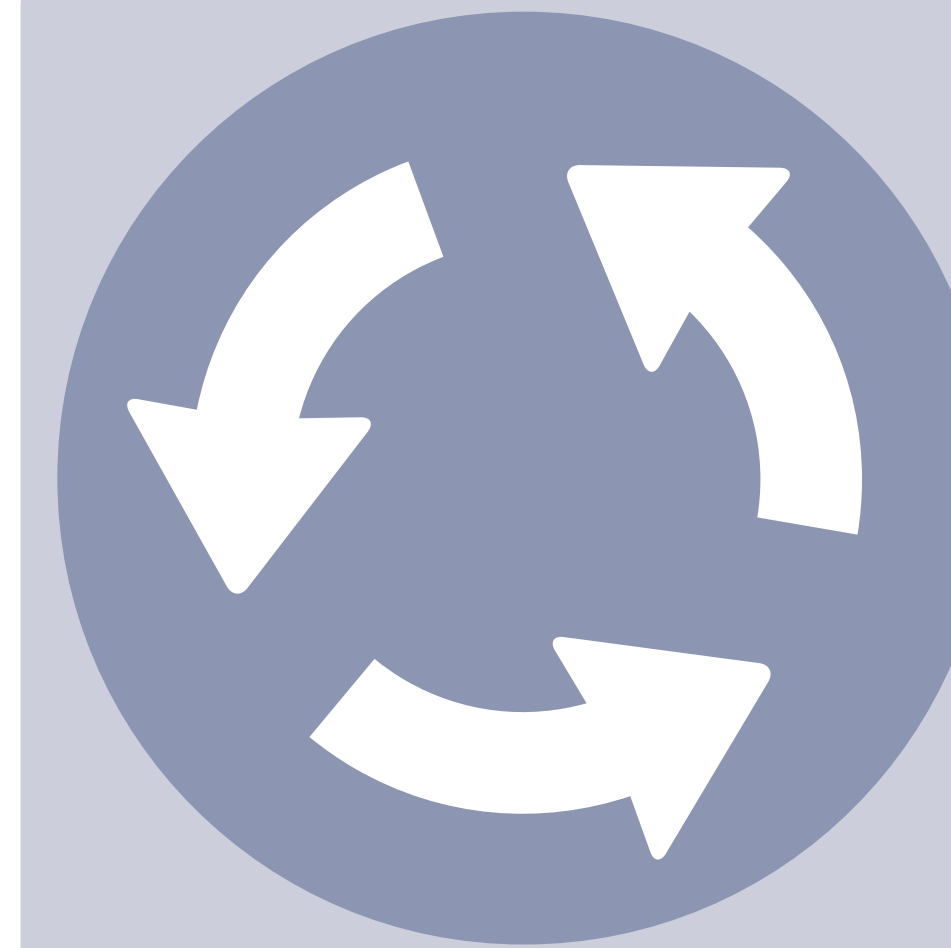
PRIORITY AREAS WHERE THE EU IS SHOWING THE LOWEST LEVEL OF POSITIVE CHANGE...

- Scientific leadership
- Challenge-based ERA actions
- Synergies with education and the European Skills Agenda
- More investments and reforms in countries and regions with lower R&I performance
- Support to prioritise and secure long-term R&I investments and policy reforms



PRIORITY AREAS WHERE THE EU IS SHOWING THE SECOND HIGHEST LEVEL OF POSITIVE CHANGE...

- Researchers' careers and mobility
- Knowledge valorisation
- Active citizen and societal engagement in R&I



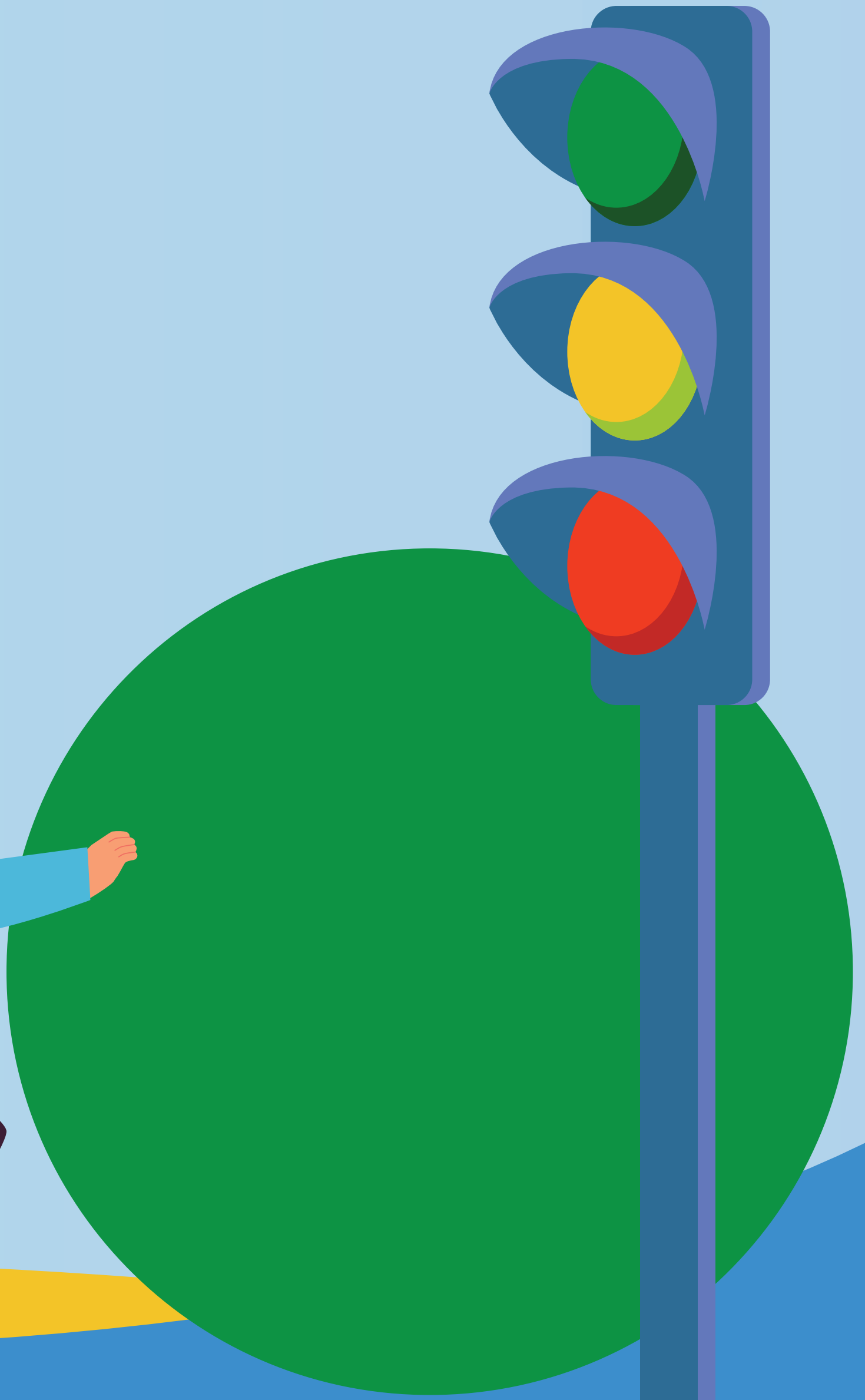
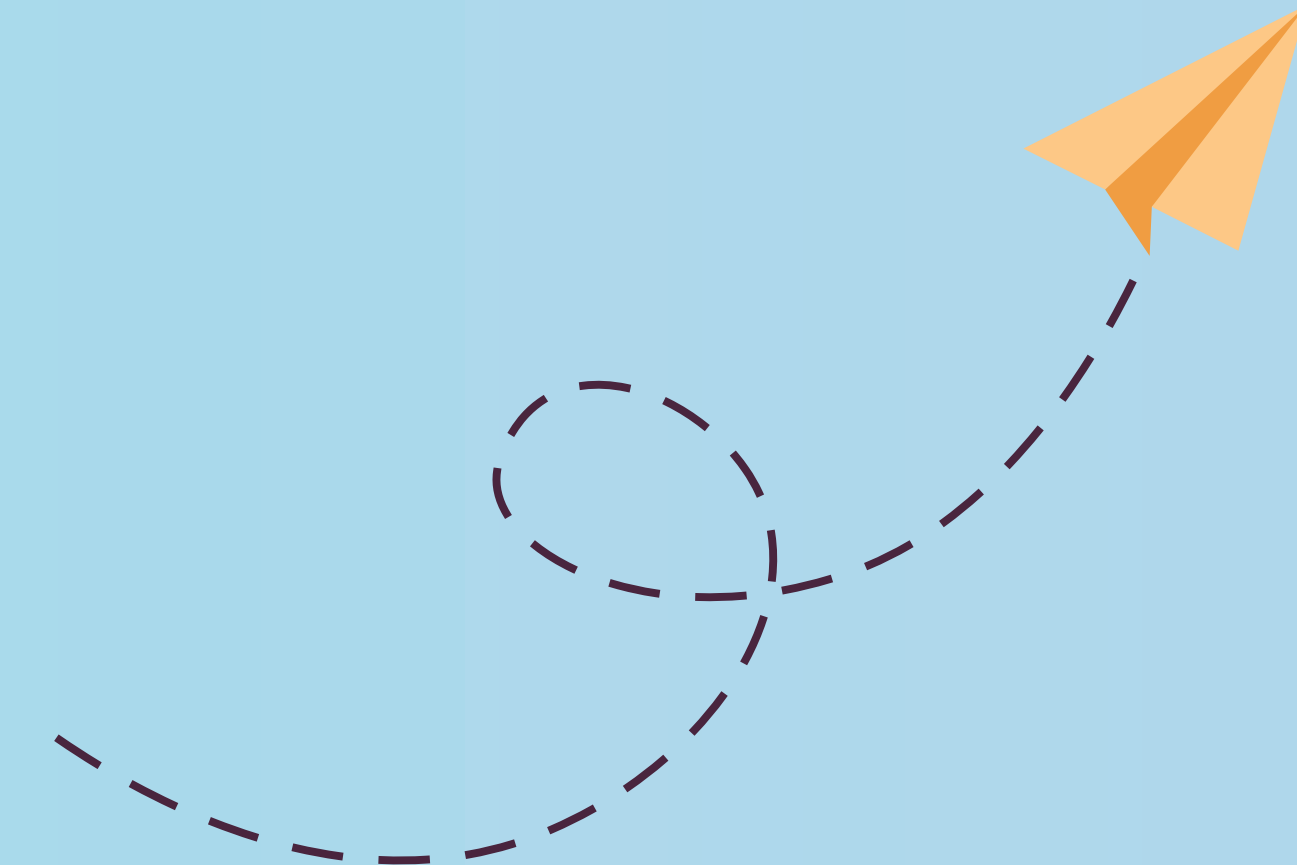
PRIORITY AREAS FOR WHICH DATA ARE NOT (YET) AVAILABLE...

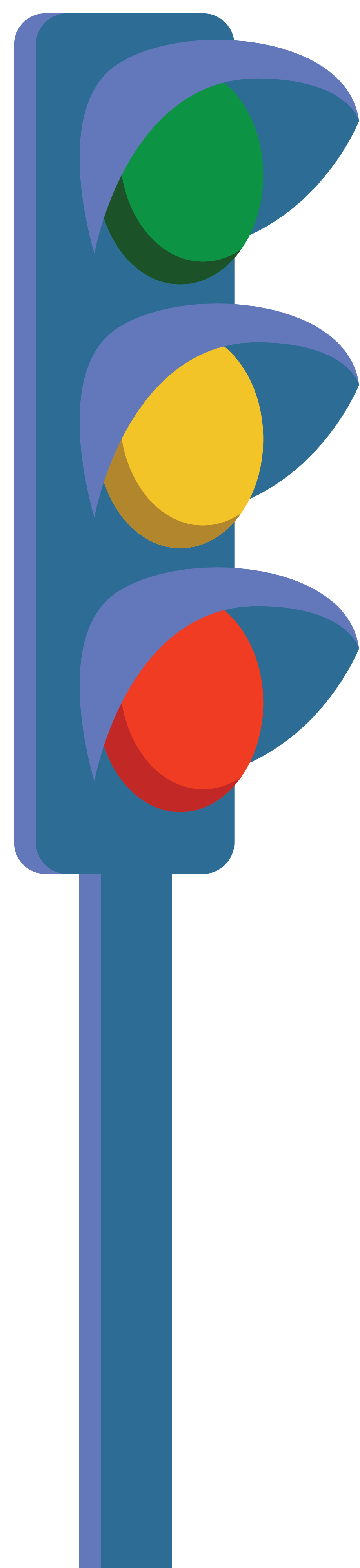
- Research infrastructures
- Synergies between Union, national and regional funding programmes
- Increased collaborative links and excellence-based integration of research-performing organisations from countries and regions with lower R&I performance



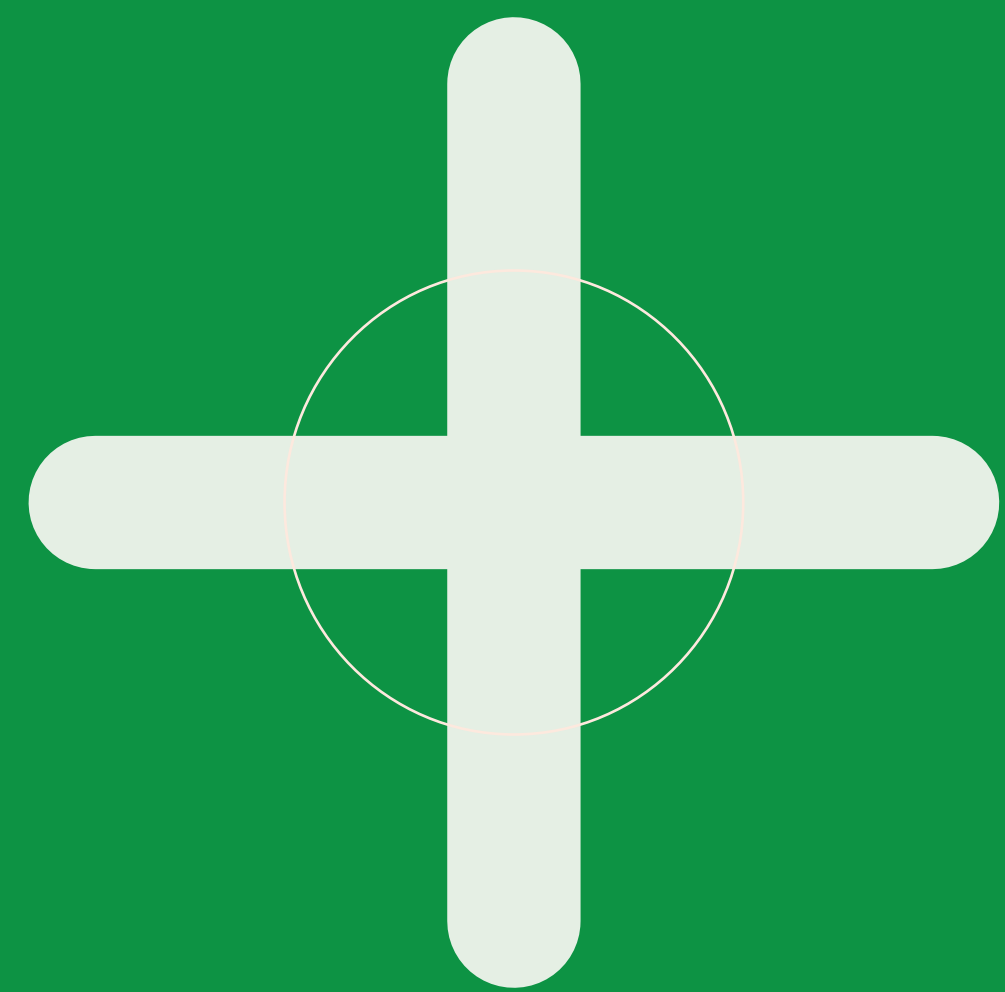
ERA SCOREBOARD 'TRAFFIC LIGHTS'

A 'traffic light system' has been devised to help visualise the overall performance of EU Pact for R&I priorities during the period measured...



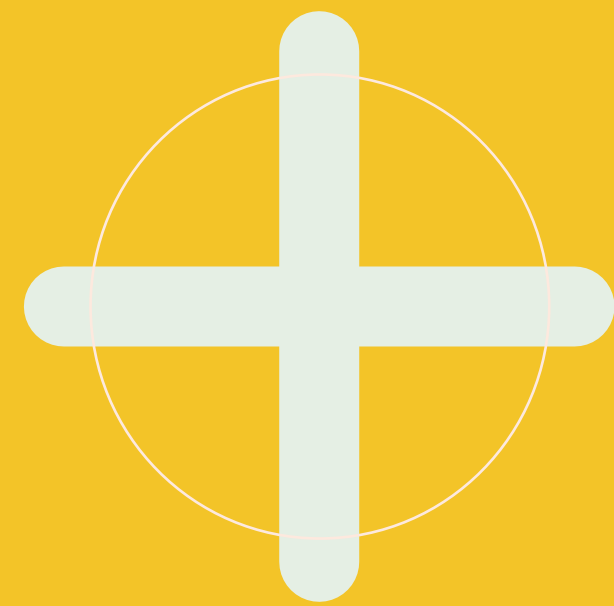


INDICATOR	ERA PACT SUB-PRIORITY	SCORE	CHANGE 2010—RECENT	CHANGE 2015—RECENT	CHANGE LAST 3 YEARS
Gross Domestic Expenditure on R&D (GERD) as a percentage of GDP	R&D investment		>0	>0	>0
Researchers (in full-time equivalent) per million inhabitants	R&D investment		>0	>0	>0
Share of publications available in open access (green, gold and diamond)	Open science		>0	/	/
Share of national public R&D expenditure committed to joint programmes and initiatives, research infrastructures and European Partnerships	Research infrastructures		/	/	/
Share of women in grade A positions in higher education institutes	Gender equality		>0	>0	>0
Job-to-job mobility of Human resources in science & technology	Researchers' careers and mobility		>0	>0	<0
Share of innovating firms collaborating with HEI/PRO out of all innovative firms	Knowledge valorisation		>0	>0	<0
Scientific publications among the top-10% most cited publications worldwide as a percentage of all publications	Scientific leadership		<0	<0	<0
International co-publications with non-EU partners per 1,000 researchers (in full-time equivalent) in the public sector	Global engagement		>0	>0	>0
Environmentally related government R&D budget as percentage of total government R&D	Challenge-based ERA actions		<0	<0	>0
Share of researchers receiving transferable skills training	Synergies with education and the European Skills Agenda		<0	<0	/
Direct government support and Indirect government support through R&D tax incentives as a percentage of GDP	Synergies with sectorial policies and industrial policies		>0	>0	>0
Research on social innovation	Active citizen and societal engagement in R&I		>0	>0	<0
Increase in total R&D expenditure, expressed as a percentage of GDP	More investments and reforms in countries and regions with lower R&I performance		<0	<0	<0
Share of Seal of Excellence rewards that received funding from other sources	Synergies between Union, national and regional funding programmes		/	/	/
Number of collaboration networks of RPOs in widening countries with other EU countries	Increased collaborative links and excellence-based integration of research-performing organisations from countries and regions with lower R&I performance		/	/	/
Share of public R&D expenditures financed by the private sector	Support to prioritise and secure long-term R&I investments and policy reforms		<0	<0	<0
Government budget allocations for R&D (GBARD) allocated to Europe-wide transnational, as well as bilateral or multilateral, public R&D programmes per FTE researcher	Coordination of R&I investments		>0	>0	>0



SUBSTANTIAL POSITIVE CHANGE OBSERVED IN PRIORITIES FOR...

- R&D investments
- Gender equality
- Global engagement
- Synergies with sectorial policies and industrial policies
- Coordination of R&I investments



SLOWER POSITIVE CHANGE IN PRIORITIES FOR...

- Researchers' careers and mobility
- Knowledge Valorisation
- Active citizen and societal engagement in R&I



LITTLE TO NO POSITIVE CHANGE IN PRIORITIES FOR...

- Scientific leadership
- Challenge-based ERA actions
- Synergies with education and the European Skills Agenda
- More investments and reforms in countries and regions with lower R&I performance
- Support to prioritise and secure long-term R&I investments and policy reforms

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NOTABLE QUOTE...

The ERA Scoreboard 2023 shows overall positive progress on the four ERA priorities that have been defined in the EU Pact for Research and Innovation.

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Research and Innovation