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UFUK AVRUPA

# Session 2: FROM NATIONAL RI TO EUROPEAN PLAYER

Ian Gauci Borda
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REPUBLIC OF TÜRKİYE MINISTRY OF INDUSTRY AND TECHNOLOGY

#NATIONAL TECHNOLOGY INITIATIVE

COMPETITIVE SECTORS PROGRAMME

TÜBİTAK

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# BIO - IAN GAUCI BORDA

- High-level EU Policy & Negotiation Expertise

Council of the EU negotiations across FP7, Horizon 2020 and Horizon Europe

- Strategic Leadership in R&I Governance

national and European R&I strategies, including leadership during Malta's EU Presidency and responsibility for drafting Malta's RIS3 strategy.

- Science Diplomacy & International Cooperation

bilateral/multilateral negotiations and technical assistance roles (Egypt, Turkey/TÜBİTAK, Libya).

- ERA & Research Infrastructure Expertise

Recognised expertise in ERA governance and long-term R&I planning, with national delegate roles in ESFRI, ERIC, ERAC and SFIC.

- Horizon Europe Programme expert

Extensive experience as NCP and Programme Committee Member (PCM)

- Proven EU Project Leadership

Strong operational delivery as Work Package Leader in multiple EU projects

- Knowledge Valorisation, Stakeholder Engagement & Capacity Building

provide training and guideance to aspiring applicant and

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# AGENDA

| | |
|---|---|
| **Session 1** | Introduction: *Setting the scene* |
| **Session 2** | Landscape: *Where am I in the European System?* |
| **Session 3** | Strategy: *Given the Landscape how do I position my RI?* |
| **Session 4** | Leadership: *How do I lead inside projects and consortia?* |
| **Session 5** | Funding and Policy: *Where is the money going next, and how do I align with it?* |
| **Session 6** | Best Practice (EATRIS): How does it really work? |

Use links to go to a different page inside your presentation.

Highlight text, click on the link symbol on the toolbar, and select the page in your presentation you want to connect.

# This Sessions Objective

Mapping the landscape & clarifying the inter-play between ESFRI, ESFRI Roadmap, ERIC, Horizon Europe RI Work Programmes, and EOSC.

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Slido #1726666


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# WHAT IS A RESEARCH INFRASTRUCTURE?

| | |
|---|---|
| **High-Quality Facilities, Resources, and Services** | specialised facilities, major equipment, instruments, datasets, knowledge resources, or e-infrastructures that individual institutions or countries cannot easily replicate on their own |
| **Long-Term Operation and Sustainability** | strategic, long-term assets that require stable governance and funding to support high-quality research over decades, ensuring continuity of access, data, and expertise |
| **Pan-European Relevance and Transnational Access** | designed to serve researchers across multiple countries, often offering open or shared access to scientists, institutions, and sometimes industry, beyond the borders of the host country. |
| **Central Role in Scientific and Societal Impact** | address grand scientific challenges and societal needs, supporting innovation, knowledge creation, training, and technology transfer at regional, national, and European levels. |

Back to Agenda

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# Types of Research Infrastructures

**Single-Sited Research Infrastructures**: All the equipment, facilities, and services are located at a single site or campus (CERN)

**Distributed Research Infrastructures**: The infrastructure is geographically spread across multiple sites but operates as a single, integrated entity under a common governance and access policy (BBMRI)

**Virtual Research Infrastructures (e-Infrastructures)**: Digital or online platforms that provide access to data, computational power, and collaborative tools (EOSC)

**International or Global Research Infrastructures:** Large-scale facilities or networks involving international collaboration and funding (ITER)

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# What is a Technology Infrastructure?

**Technology Infrastructures (TIs)** are facilities, equipment, pilot lines, testbeds, and expertise that support

- ✓ Technology development
- ✓ Prototyping
- ✓ Testing & validation
- ✓ Demonstration at scale
- ✓ Certification

**They are mainly oriented toward industry and innovation, not fundamental research.**

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# RI vs TI

## Research Infrastructures

- ✓ Generate scientific knowledge
- ✓ Research-driven
- ✓ Often basic research

## Technology Infrastructures

- ✓ Mature and industrialise technologies
- ✓ Industry-driven
- ✓ Applied & near-market

# ERIC

**European Research Infrastructure Consortium (ERIC)**

Legal entity under EU law that allows multiple countries to jointly run an RI

- Legal stability
- Clear governance
- Long-term sustainability

Many ESFRI Roadmap infrastructures eventually transition into ERICs

| nce domain | Legal status | Abbreviation | Name of research infrastructure | Website |
|---|---|---|---|---|
| Energy | ERIC | ECCSEL | European Carbon Dioxide Capture and Storage Laboratory | www.eccsel.org |
| vironment | ERIC | EPOS | European Plate Observing System | www.epos-ip.org |
| | ERIC | EMSO | European Multidisciplinary Seafloor and Water Column Observatory | www.emso.eu |
| | ERIC | Euro-Argo | Euro-Argo | www.euro-argo.eu |
| | ERIC | ICOS | Integrated Carbon Observation System European Research Infrastructure Consortium | www.icos-ri.eu |
| | ERIC | LifeWatch | e-Science European Infrastructure for Biodiversity and Ecosystem Research | www.lifewatch.eu |
| | prep-ERIC | ACTRIS | Aerosols, Clouds, and Trace gas Research InfraStructure | www.actris.eu |
| alth & food | ERIC | BBMRI | Biobanking and BioMolecular Research Infrastructure | www.bbmri-eric.eu |
| | ERIC | EATRIS | European Research Infrastructure for Translational Medicine | www.eatris.eu |
| | ERIC | ECRIN | European Clinical Research Infrastructure Network | www.ecrin.org |
| | ERIC | EMBRC | European Marine Biological Resource Centre | www.embrc.eu |
| | ERIC | EU-OPENSCREEN | EU-OPENSCREEN | www.eu-openscreen.eu |
| | ERIC | Euro-BioImaging | Euro-BioImaging | www.eurobioimaging.eu |
| | ERIC | Instruct | Integrated Structural Biology Infrastructure | www.structuralbiology.eu |
| | prep-ERIC | EMPHASIS | European Infrastructure for Multi-scale Plant Phenomics and Simulation for Food Security in a Changing Climate | www.emphasis.plant-phenotyping.eu |
| | prep-ERIC | INFRAFRONTIER | INFRAFRONTIER | www.infrafrontier.eu |
| Physical ciences & gineering | ERIC | CERIC | Central European Research Infrastructure Consortium | www.ceric-eric.eu |
| | ERIC | ESS (Spallation) | European Spallation Source | www.ess.eu |
| | ERIC | JIV | Joint Institute for VLBI | www.jive.eu |
| | prep-ERIC | EST | European Solar Telescope | www.est-east.eu |
| Social & cultural nnovation | ERIC | CESSDA | Consortium of European Social Science Data Archives | www.cessda.eu |
| | ERIC | CLARIN | Common Language Resources and Technology Infrastructure | www.clarin.eu |
| | ERIC | DARIAH | Digital Research Infrastructure for the Arts and Humanities | www.dariah.eu |
| | ERIC | ESS (Social) | European Social Survey | www.europeansocialsurvey.org |
| | ERIC | SHARE | Survey of Health, Ageing and Retirement in Europe | www.share-project.org |

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# What is an EDIC?

An EDIC is a legal instrument created by the EU (2022) to establish and operate multi-country digital infrastructures

It supports large-scale digital projects such as:

- Digital platforms
- Data spaces
- AI infrastructure
- Digital public services

**It is somewhat analogous to the ERIC model, but specifically for digital infrastructure.**




# Overview of the RI Ecosystem

# ESFRI

## European Forum for Research Infrastructures

**IMPORTANT: Strategic body, not a funding programme**

What ESFRI is

- A policy-level forum created by the EU in 2002
- Composed of representatives from EU Member States and Associated Countries
- Advises the European Commission and national governments
- Focuses only on Research Infrastructures (not projects, not research topics)

What ESFRI does

- Develops the ESFRI Roadmap, Europe's master plan for RIs
- Identifies new RI priorities at European level
- Monitors the implementation and maturity of RIs
- Promotes coordination of national investments

**(Türkiye) Emre DABAK,** Ministry of Industry & Technology of Türkiye

**(Türkiye) Feray ELDENIZ:** Presidency of Strategy & Budget, Türkiye
**(Türkiye-Expert) Hasan Burak TIFTIK:** EU Framework Programmes Department, TÜBİTAK
**(Türkiye-Expert) Murat ÖZGÖREN:** Türkiye ESFRI Expert & Delegate participant in ESFRI events
**(Türkiye-Expert) Süleyman ALATA:** Ministry of Industry & Technology

https://www.esfri.eu

# ESFRI Roadmap

**List of strategically important European RIs which is updated periodically (every ~2–3 years)**

Projects can be:

- ✓ Landmark
- ✓ Implementation Phase
- ✓ Strategy Phase


The ESFRI Roadmap is essentially Europe's 'priority list' of major research infrastructures.

Being on the Roadmap does not automatically bring funding, but it provides

https://www.esfri.eu/esfri-roadmap

Strategy Report on Research Infrastructures
ROADMAP 2026

https://roadmap2021.esfri.eu/projects-and-landmarks/view-the-table/

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# ESFRI Thematic Domains (Strategy Working Groups)

**Health & Food (**Covers biomedical, clinical, agro-food and life sciences RIs)

**Social & Cultural Innovation (SSH)** (Covers Social Sciences & Humanities (SSH)

**Environment** (Includes climate, biodiversity, oceans, atmosphere, solid earth)

**Energy** (Focuses on energy systems, nuclear research, renewables, materials)

**Physical Sciences & Engineering** (Includes physics, astronomy, materials science, advanced engineering)

**Digital Research Infrastructures** (Covers computing, data, e-infrastructures)

- Assess new RI proposals
- Monitor ESFRI Roadmap projects
- Structure European RI policy by domain

# National RI Roadmaps


- Which research infrastructures are nationally prioritised
- How they are funded, governed, and sustained
- How they align with national research, innovation, and industrial strategies
- Which RIs are intended to be connected to Europe

The National Roadmaps:

- ✓ List of existing and planned national RIs
- ✓ National priorities and thematic focus areas
- ✓ Long-term investment and sustainability plans
- ✓ Governance and access models
- ✓ Identification of RIs with European or global relevance
- ✓ Links to Smart Specialisation (RIS3)

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# Participation of Turkey in European Research Infrastructures

## Partnership for Advanced Computing in Europe

Full Member

İTÜ UHeM – National Centre for High Performance Computing; TÜBİTAK ULAKBİM; Middle East Technical University (METU); Sabancı University

## European Solar Research Infrastructure for Concentrated Solar Power

Prospective Member

**Middle East Technical University (METU)** and **TÜBİTAK UZAY** (The Space Technologies Research Institute),

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# Participation of Turkey in European Research Infrastructures

## Biobanking and BioMolecular Resources Research Infrastructure (Observer)

Observer (not full member) – BBMRI.tr (National Node)

**Dokuz Eylul University**-Izmir Biomedicine and Genome Center (IBG)

## Infrastructure for Promoting Metrology in Food and Nutrition

Member National Node

**TÜBİTAK Marmara Research Center**

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# Participation of Turkey in European Research Infrastructures

EURO BIOIMAGING

European Infrastructure for Imaging Technologies in Biological and Biomedical Sciences

Observer (not a full member)

Kadir Has University (KHAS), Koç University, Bilkent University, Sabancı University,

EMPIR EURAMET

The EMPIR initiative is co-funded by the European Union's Horizon 2020 research and innovation programme and the EMPIR Participating States

EMPIR (European Metrology Programme for Innovation and Research)

TÜBİTAK UME as member of EURAMET

EMPIR Partnership: TÜBİTAK UME

REPUBLIC OF TÜRKİYE MINISTRY OF INDUSTRY AND TECHNOLOGY

TÜBİTAK

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# Partnership for Advanced Computing in Europe
Full Member

## Istanbul Technical University – UHeM (National Centre for High Performance Computing) Official Node

- Provides **HPC computing resources** and storage that support PRACE goals
- Acts as a **connector between the national research community and PRACE** — helping Turkish scientists access European HPC services.
- Participates in **PRACE Implementation Projects** (e.g., PRACE-2IP, PRACE-4IP)

## TÜBİTAK ULAKBİM (Turkish Academic Network and Information Center) Indirect Contributor

- Coordinates the National Competence Center (NCC Turkey) under EuroCC / EuroHPC, which interfaces with PRACE activities.
- Provides TRUBA national HPC infrastructure, raising awareness and supporting training for academia, industry and SMEs — indirectly enhancing the pool of users who can exploit PRACE resources.

## Middle East Technical University (METU) and Sabancı University Drivers

- contribute HPC expertise and training support
- They help build national HPC competencies that elevate Turkey's research community to better use PRACE resources

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EURO BIOIMAGING

# European Infrastructure for Imaging Technologies in Biological and Biomedical Sciences

Kadir Has University (KHAS): Provides expertise in **image analysis, medical image processing**, and the application of **imaging technologies to medical diagnostics** and **healthcare research**.

Koç University: focuses on **molecular imaging**, **structural biology**, and **neuroscience**, utilizing advanced imaging technologies for a variety of biomedical research applications.

Hacettepe University: offers **access to imaging technologies** for **biomedical research**, particularly in **molecular biology**, **cancer research**, and **neuroscience**.

Istanbul Technical University (ITU): focuses on the development and application of **non-invasive imaging methods** in **biomedical research**, contributing **image processing** and **data analysis** expertise.

Bilkent University: involved in the application of **confocal microscopy**, **electron microscopy**, and **biomedical imaging** in the fields of **neuroscience** and **bioengineering**.

Sabancı University: applies **optical and electron microscopy** to explore a range of biological questions, including **protein structure**, **cell behavior**, and **biological interactions**.

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# Core Roles of an RI National Node

## 1. National Coordination & Representation

- Acts as the **single national interface** with the European RI
- Represents **national interests** in RI governance bodies (e.g. General Assembly, advisory boards)
- **Coordinates national positions** on strategy, access models, and future developments

## 2. Aggregation of National Capacities

- **Brings together** distributed national facilities, labs, data centres, biobanks, platforms
- Ensures national **services align** with European standards and interoperability requirements
- **Avoids fragmentation** by offering a coherent national contribution

## 3. Access & Service Facilitation

- Enables national researchers to **access European RI services** (e.g. TNA, virtual access, data services)

Manages or supports **calls, user access, training and onboarding** at national level

Acts as a **multiplier** for RI usage in the country

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## 4. Quality, Standards & Interoperability

- Implements European RI **quality standards, protocols, and best practices** nationally
- Ensures **compliance with FAIR data**, ethics, legal, and technical requirements
- Supports **harmonisation** across national facilities

## 5. Community Building & Capacity Development

- Builds a **national user community** around the RI
- Organises **training, workshops, and awareness activities**
- Supports early-career researchers and emerging facilities

## 6. Strategic Alignment & Sustainability

- Aligns RI participation with **national RI roadmaps, RIS3 priorities, and funding schemes**
- Contributes to **long-term sustainability planning** of the European RI
- Feeds national experience into **future EU Framework Programmes (FP10, etc.)**

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# How Does an Organisation Become a National Node?

Becoming a National Node is **not automatic** — it is a **strategic, policy-driven process**.

**National Mandate** (Endorsed by National Authority – TÜBİTAK / Ministry of Industry and Technology)

**Demonstrate critical mass of National capacity** (Scientific excellence, operational maturity, Facilities)

**Full alignment with the European RI** (Willingness to contribute to European-level services, not only consume them, Compliance with governance, legal, and operational requirements, Technical and scientific alignment with the RI's mission and services)

**Governance & Sustainability Model** (Clear governance structure (lead institution + partners), Defined funding model, Long-term commitment beyond individual projects)

**Formal Recognition** (Approval by the RI General Assembly; Signature of a Memorandum of Understanding or ERIC statutes; Recognition as Member, Observer, or Participating Node)

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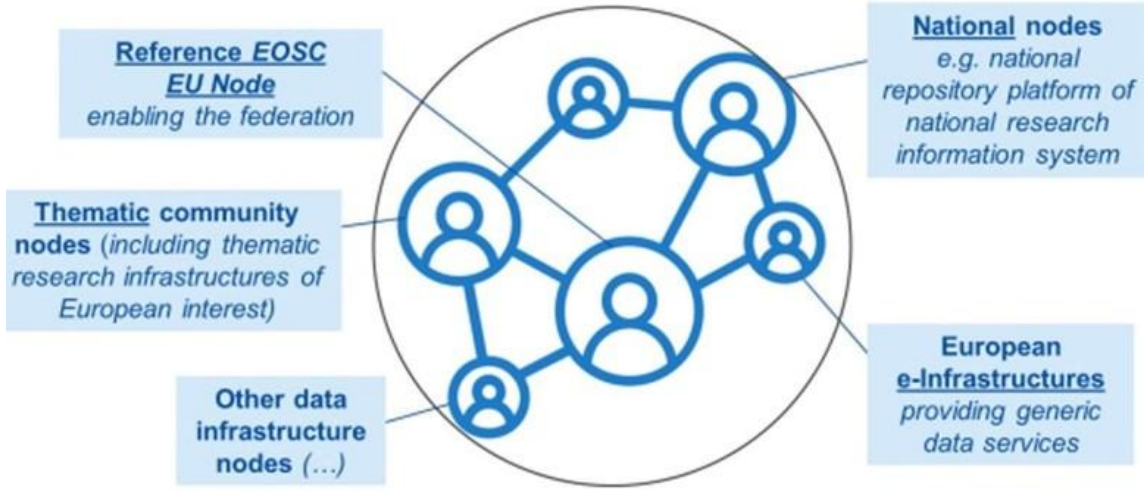
# What are the Typical candidates for National Data Nodes?

- ✓ National research centres
- ✓ Distributed university consortia
- ✓ National metrology institutes
- ✓ National HPC centres
- ✓ Coordinated biobank or data networks




National Nodes are not just access points — they are strategic instruments for influence, leadership, and long-term visibility in European Research Infrastructures

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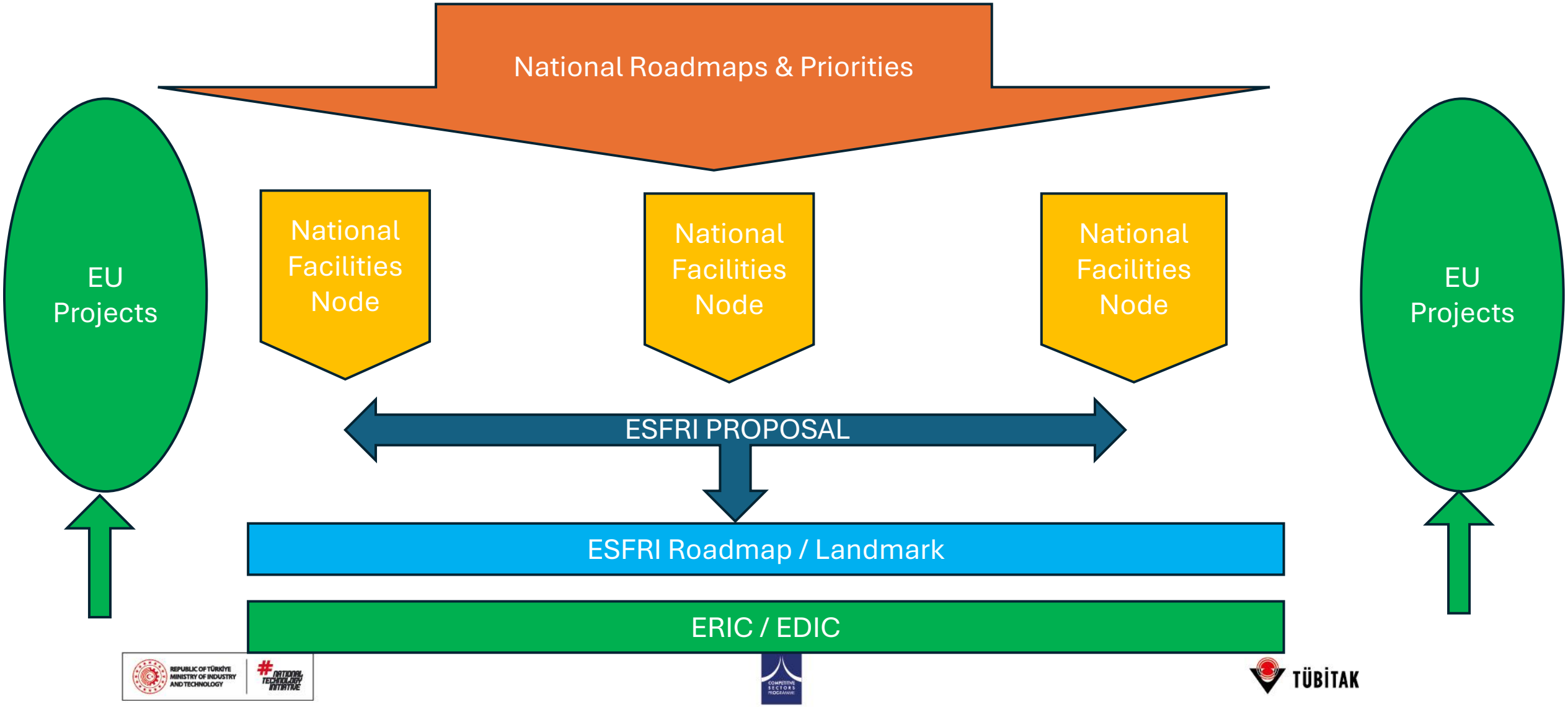

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# Funding a Research Infrastructure

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# Research Infrastructures are funded through a combination of national, European, and user-based resources — **not by a single programme**

## National Funding (Backbone)

- ✓ Ministries, national research councils, public budgets
- ✓ Covers **core operations, staff, buildings, basic maintenance**
- ✓ Provides **long-term stability**
- ✓ Essential for credibility at EU level

## EU European Funding (Catalyst)

**Horizon Europe** (INFRADEV, INFRASERV, RIA/CSA)

**Structural Funds / IPA / ERDF** (in some countries)

- ✓ Development & upgrades
- ✓ Integration & interoperability
- ✓ Access provision & training
- ✓ Innovation and new services

👉 *No national funding = no sustainable RI*

👉 *EU funding accelerates — it does not replace national funding*

Horizon Europe funds *projects*. Sustainability comes from *countries*

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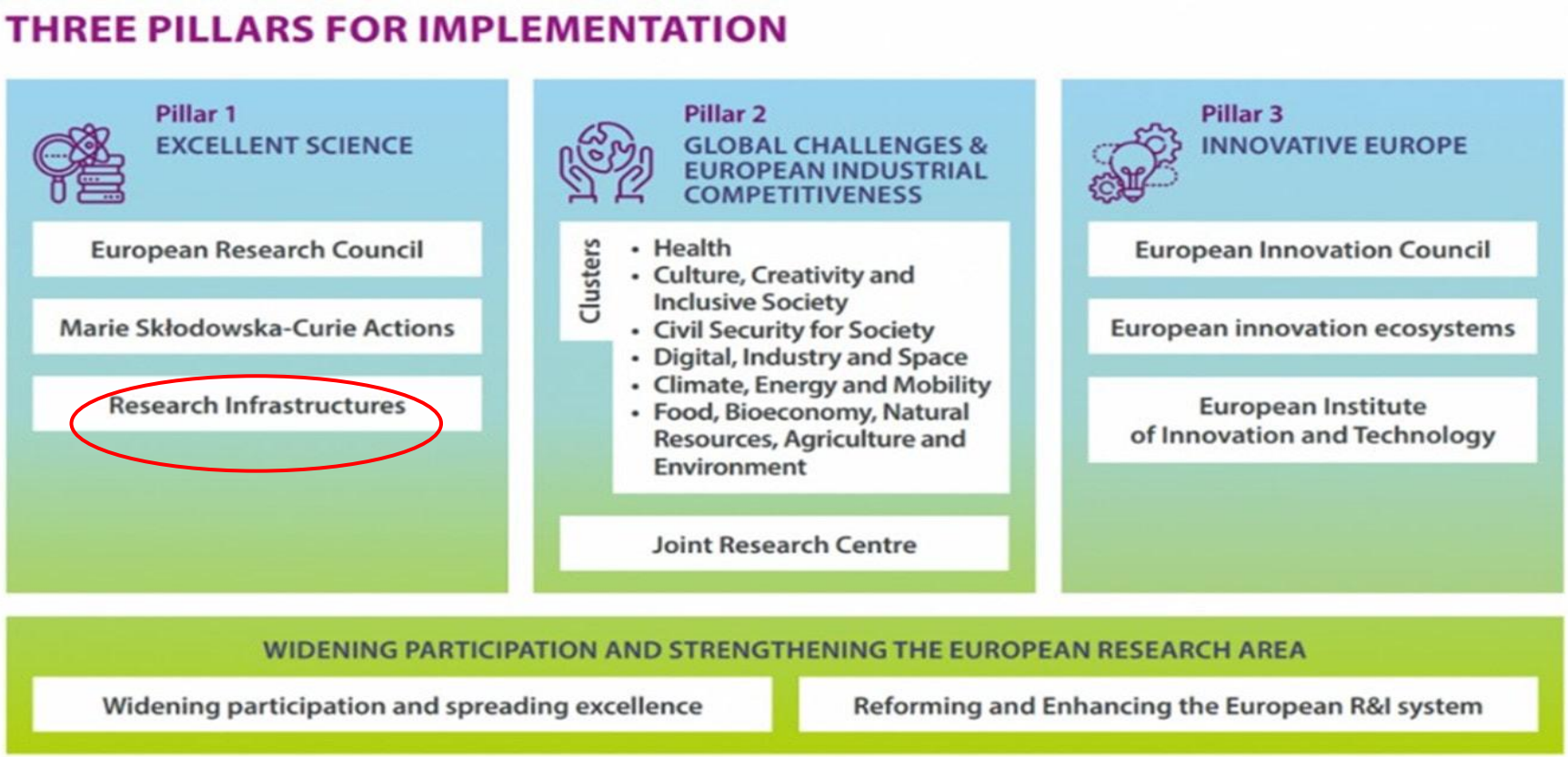
# Research Infrastructures WP



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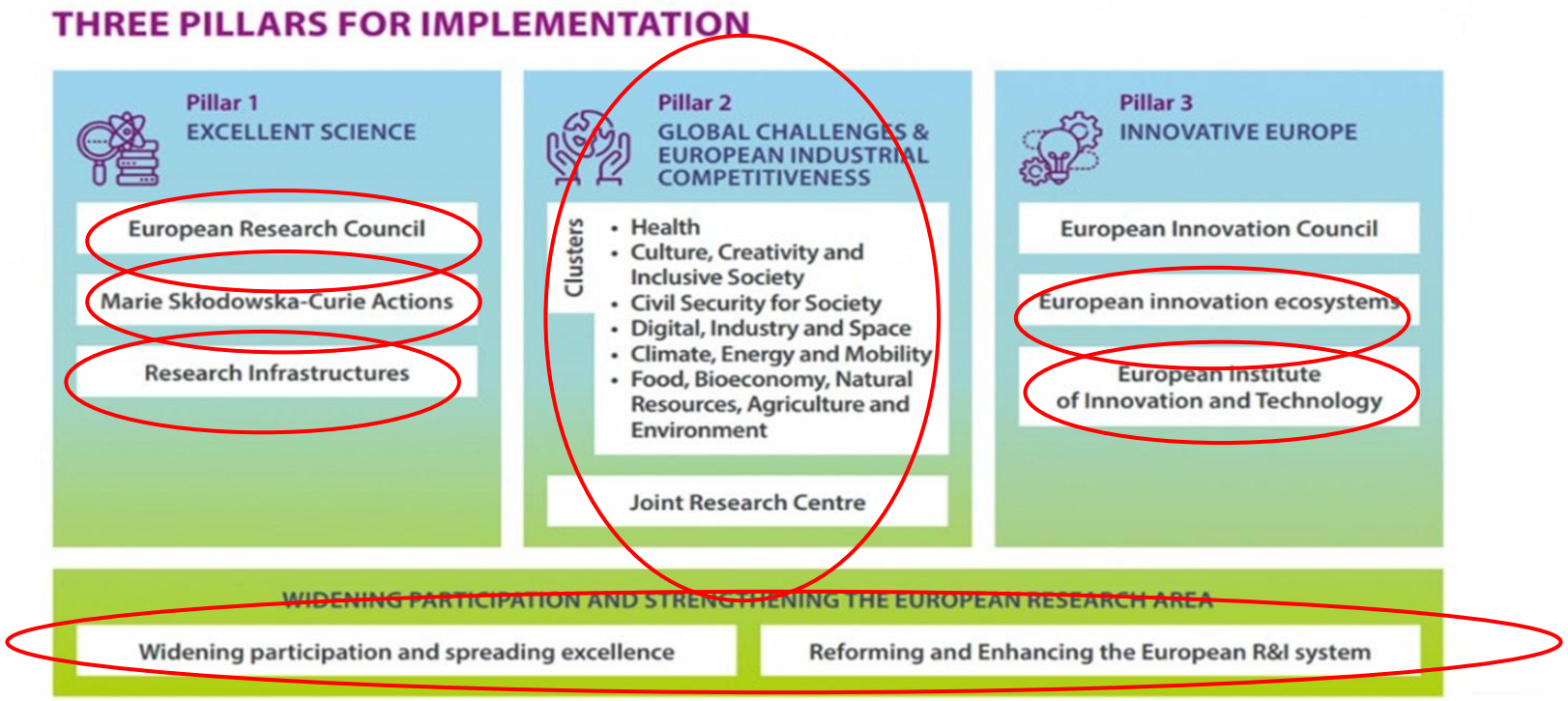
# Opportunities Across the Programme



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# Research Infrastructure WP

- ✓ Building new RIs (INFRADEV)
- ✓ Providing services to researchers (INFRASERV)
- ✓ Connecting to EOSC (INFRAEOSC)
- ✓ Developing cutting-edge instrumentation (INFRATECH)
- ✓ Network connectivity in research and education (INFRANET)

Budget
€2.4Bln (2021-2027)
around €685Mln (2026-2027)

EN

**Horizon Europe**

**Work Programme 2026-2027**

*3. Research Infrastructures*

*(European Commission Decision C(2025) 8493 of 11 December 2025)*

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# INFRADEV

**strengthen the landscape of European Research Infrastructures**

## Concept Development & Major Upgrades

Feasibility studies, scientific cases and design work for **new RIs**
Preparatory actions for *ESFRI-level projects*
Planning for **major extensions or upgrades** of existing infrastructures

## Consolidation & Synergies

- Actions to make the RI landscape more **coherent and strategic across Europe**
- Support for **integration, alliances, and joint planning** across national and pan-European RIs

## Support to Sustainability & Human Capital

•Strengthening management capacities
•Helping RIs attract and retain skilled personnel
•Enhancing long-term operational sustainability

## Integration Across the European Research Area

•Supporting *widening and candidate countries* to better participate in European RIs
•Increasing international collaboration (e.g., ESFRI/ERIC)

€167.40 million
87.9M (2026); 79.5M (2027)

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# INFRAEOSC

**Enabling an operational, open and FAIR European Open Science Cloud (EOSC) ecosystem**

INFRAEOSC aims to create and fund a **federated, open, trusted data ecosystem** for science. This includes:

- ✓ Promoting **FAIR (Findable, Accessible, Interoperable, Reusable) data** practices
- ✓ Building and strengthening **EOSC federation** and data services
- ✓ Supporting infrastructure and practices for **open science and cross-domain data sharing**
- ✓ Enhancing **data management, interoperability, training and tools** across disciplines and national boundaries

→ €98 million

→ 50M (2026); 48M (2027)

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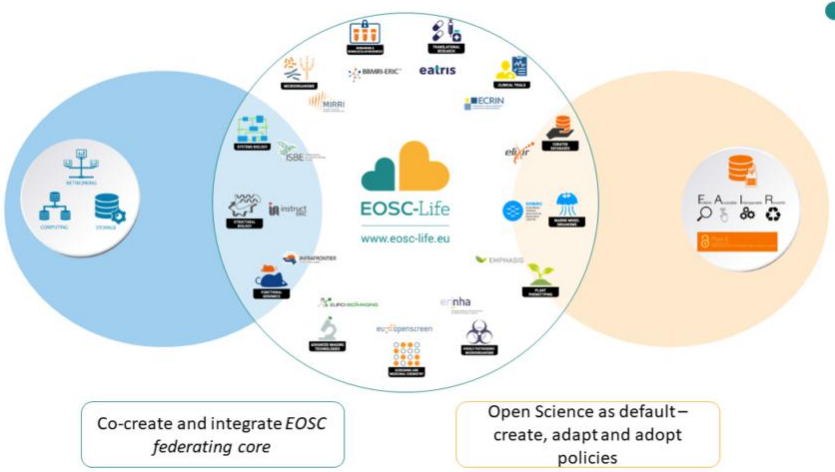


# What is the EOSC?

**The European Open Science Cloud (EOSC) is not a single cloud, not one platform, and not one database.**

EOSC is a **European-level framework and federation** that connects:

- research data,
- data services,
- computing resources,
- and research tools

across **disciplines and countries** — so researchers can find, access, reuse, and combine them easily.

EOSC defines **how data and services work together – Schengen concept**

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# INFRASERV

## INFRASERV ensures RIs work well and are accessible

- ✓ **Operation & Maintenance** – keeping facilities running efficiently
- ✓ **Service Provision** – offering access, training, and technical support
- ✓ **Networking & Integration** – connecting RIs across Europe for collaboration
- ✓ **Upgrading Services** – minor technical improvements to improve access and efficiency

→ €184 million
→ 32M (2026); 152M (2027)

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# INFRATECH

**Next generation of scientific instrumentation, tools, methods, and advanced digital solutions for research infrastructures**

INFRATECH focuses on the **technical and innovative edge of RIs**, including:

- Research & development of **next-generation instruments, tools, sensors, digital solutions**
- Supporting **cutting-edge technologies and methods** that keep RIs globally competitive
- Encouraging **co-creation with industry** and technology transfer
- Contributing to initiatives like **Destination Earth** and advanced digital twins

→ €185 million

→ 125M (2026); 60M (2027)

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# Key take-aways for Success of Turkish RIs

- ✓ Build capacity and relevance
- ✓ Don’t just participate — position strategically
- ✓ Think about how your RI fits into European priorities
- ✓ Develop services that others need
- ✓ Align with EOSC standards
- ✓ Explore pathways to deeper integration, including ERICs where relevant (observer)
- ✓ Align with ESFRI priorities
- ✓ Engage in Horizon Europe calls
- ✓ Develop services (INFRASERV)
- ✓ Connect to EOSC
- ✓ Consider ERIC membership where relevant

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# Debrief of Session 2

| Governance Level | Key Roles & Decisions |
|---|---|
| National / Local | National Roadmaps, funding agencies, operational RIs, national strategic input |
| Strategic Level | ESFRI Roadmap: identifies priorities for pan-European RIs, aligns national strategies |
| EU Level / Funding | Horizon Europe Work Programmes, RI funding calls, EU policy priorities |
| Legal Entities | ERICs: legal entity, facilitates cross-border governance & operation |

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# Session 3: Strategic Entry and Positioning

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# Objective of the Session

In this session, we move from understanding the landscape to thinking strategically about where Turkish RIs can position themselves within it

**Challenge: how do I move from a project partner to becoming an indispensable part of European infrastructures?**

**Participation ≠ influence**

**Strategic positioning = long-term relevance**

**Becoming a service provider, not just a service user**

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# How should you position yourself?

- ✓ Offering something unique
- ✓ Being difficult to replace
- ✓ Aligning your infrastructure with European needs
- ✓ Showing that you know your stuff (Closed Clubs)

- ✓ Geographic location (Europe–Asia bridge)
- ✓ Strong national RI framework (Law No. 6550)
- ✓ Growing digital infrastructure (ULAKBİM, TRUBA, ULAKNET)
- ✓ Emerging sectoral strengths (energy, materials, health, environment, space)
- ✓ Widespread facilities across the country

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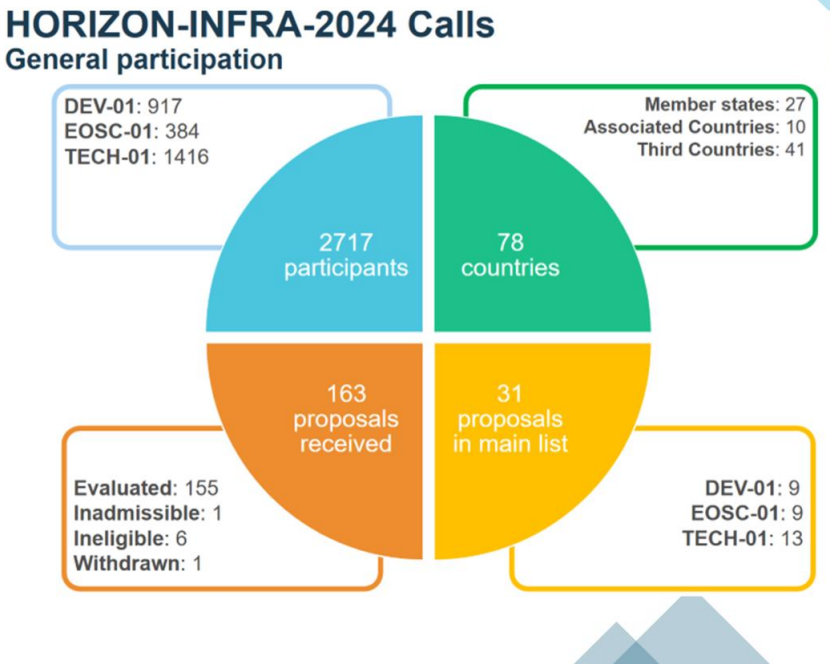
# Typical competition



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# Success Rate

## HORIZON-INFRA-2024 Calls
### Success rate 2023 INFRA Calls vs. 2024 INFRA Calls

| | 2023 | | | 2024 | | |
|---|---|---|---|---|---|---|
| | **Success rate** | EU contribution mEUR | Proposals per mEUR | **Success rate** | EU contribution mEUR | Proposals per mEUR |
| **DEV-01** | **55.3%** | 135.8 | **0.59** | **13.4%** | 24.50 | **2.91** |
| **EOSC-01** | **46.7%** | 65.76 | **0.22** | **40.9%** | 61.31 | **0.36** |
| **SERV-01** | **56.5%** | 160.1 | **0.16** | | | |
| **TECH-01** | **80%** | 19.9 | **0.20** | **19.7%** | 138.17 | **0.48** |
| **Total** | 55.6% | | **0.29** | 20% | | **0.70** |

2025:
Success Rate:
51.59%

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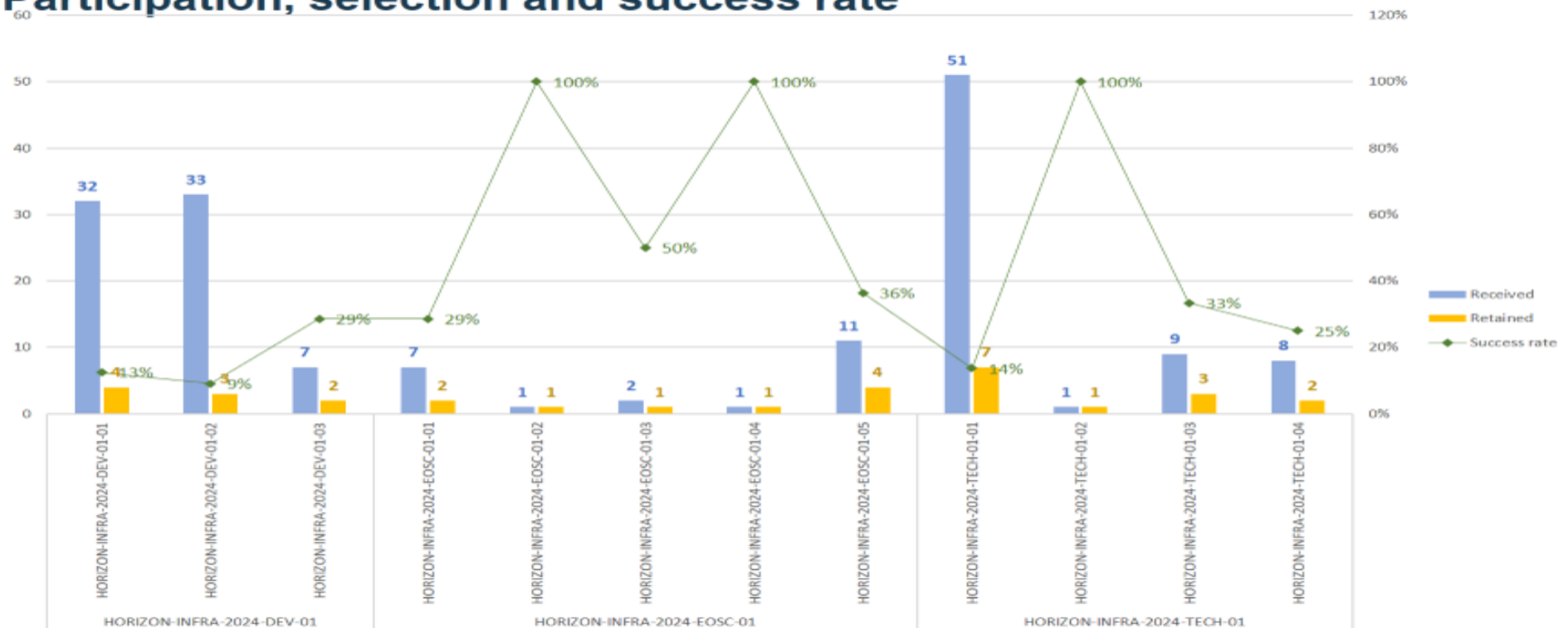
# HORIZON-INFRA-2024 Calls

## Participation, selection and success rate



# 2025 Participation

| Country Group | Country | N. Participations in evaluated proposals | N. Participations in retained for funding proposals | % | Requested EU contribution in evaluated proposals | Requested EU contribution in retained for funding proposals | % |
|---|---|---|---|---|---|---|---|
| Associated Countries | Albania | 1 | 1 | 100.00 % | 15,000.00 € | 15,000.00 € | 100.00 % |
| Associated Countries | Bosnia and Herzegovina | 1 | 1 | 100.00 % | 96,250.00 € | 96,250.00 € | 100.00 % |
| Associated Countries | Georgia | 1 | 1 | 100.00 % | 0.00 € | 0.00 € | 0.00 % |
| Associated Countries | Iceland | 5 | 2 | 40.00 % | 249,297.50 € | 26,052.50 € | 10.45 % |
| Associated Countries | Israel | 2 | 0 | 0.00 % | 225,524.50 € | 0.00 € | 0.00 % |
| Associated Countries | Moldova (Republic of) | 1 | 0 | 0.00 % | 126,498.56 € | 0.00 € | 0.00 % |
| Associated Countries | Montenegro | 2 | 0 | 0.00 % | 369,050.00 € | 0.00 € | 0.00 % |
| Associated Countries | North Macedonia | 4 | 2 | 50.00 % | 607,505.00 € | 282,375.00 € | 46.48 % |
| Associated Countries | Norway | 92 | 50 | 54.35 % | 35,088,423.47 € | 15,909,410.90 € | 45.34 % |
| Associated Countries | Serbia | 7 | 6 | 85.71 % | 963,214.50 € | 896,664.50 € | 93.09 % |
| Associated Countries | Türkiye | 13 | 3 | 23.08 % | 4,081,912.02 € | 200,575.00 € | 4.91 % |
| Associated Countries | Ukraine | 9 | 3 | 33.33 % | 1,203,996.25 € | 167,840.00 € | 13.94 % |
| Associated Countries | United Kingdom | 187 | 83 | 44.39 % | 65,612,643.69 € | 24,350,656.28 € | 37.11 % |
| Associated Countries | | 325 | 152 | 46.77 % | 108,639,315.49 € | 41,944,824.18 € | 38.61 % |

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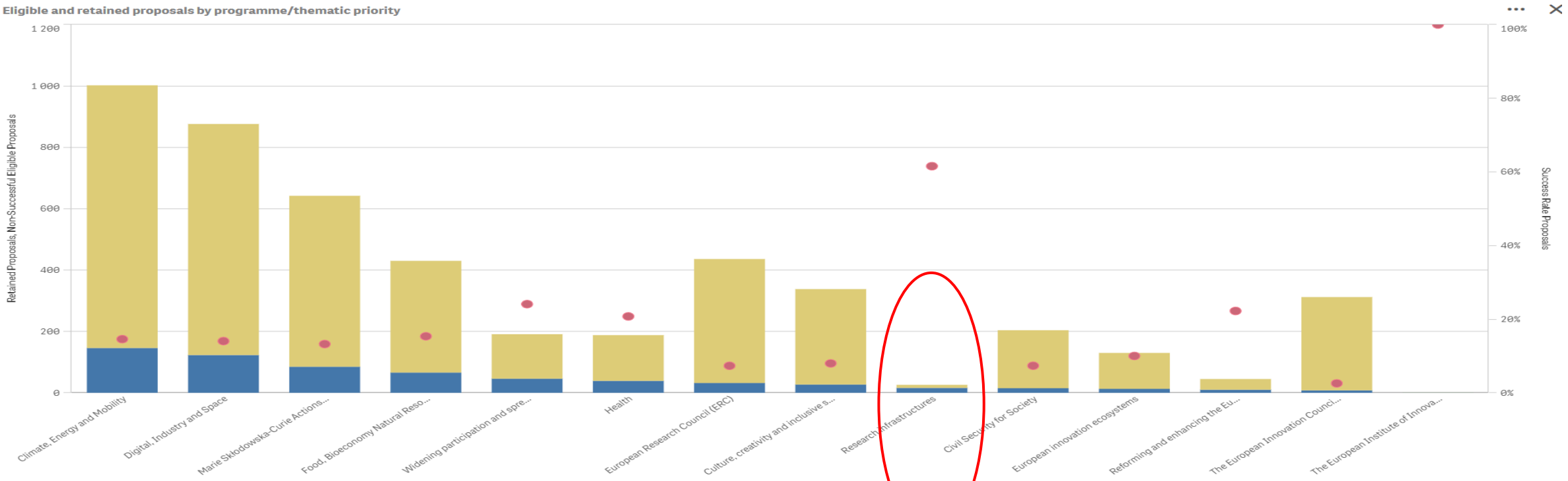
# Which area do Turkish Researchers apply to?



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# Turkiye Participation since 2021

| | | | | | |
|---|---|---|---|---|---|
| HORIZON-INFRA-2021-EOSC-01 | 2021 | 1 | 1 | 100% | 0 |
| HORIZON-INFRA-2021-SERV-01 | 2021 | 1 | 1 | 100% | 0 |
| HORIZON-INFRA-2022-DEV-01 | 2022 | 3 | 2 | 67% | 1 |
| HORIZON-INFRA-2022-EOSC-01 | 2022 | 1 | 1 | 100% | 0 |
| HORIZON-INFRA-2022-NET-01-SGA | 2022 | 1 | 1 | 100% | 0 |
| HORIZON-INFRA-2022-TECH-01 | 2022 | 1 | 0 | 0% | 1 |
| HORIZON-INFRA-2023-DEV-01 | 2023 | 3 | 1 | 33% | 2 |
| HORIZON-INFRA-2023-EOSC-01 | 2023 | 1 | 0 | 0% | 1 |
| HORIZON-INFRA-2023-SERV-01 | 2023 | 4 | 4 | 100% | 0 |
| HORIZON-INFRA-2024-DEV-01 | 2024 | 1 | 1 | 100% | 0 |
| HORIZON-INFRA-2024-EOSC-01 | 2024 | 3 | 1 | 33% | 2 |
| HORIZON-INFRA-2024-GEANT-01-SGA | 2024 | 1 | 1 | 100% | 0 |
| HORIZON-INFRA-2024-TECH-01 | 2024 | 5 | 2 | 40% | 3 |

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# Top Participants Turkiye (HE up to 2024)

**Top participants**

| Legal Name | Count... | NUTS 2 Name | Net EU Contribution | Participation | Participation to C... | Otganisation Ty... | Total Cost |
|---|---|---|---|---|---|---|---|
| **Totals** | | | **€ 3.319.429,07** | **21** | **0** | | **€ 3.715.889,05** |
| TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU | TR - Türkiye | Ankara | € 1.216.292,13 | 11 | 0 | REC | € 1.245.304,63 |
| BULUTTAN METEOROLOJI VE TEKNOLOJI AS | TR - Türkiye | İstanbul | € 650.000,00 | 1 | 0 | PRC | € 928.571,43 |
| EGE UNIVERSITY | TR - Türkiye | İzmir | € 471.250,00 | 1 | 0 | HES | € 471.250,00 |
| NOVITOPIA BILGI TEKNOLOJILERI LIMITED SIRKET | TR - Türkiye | İstanbul | € 337.500,00 | 1 | 0 | PRC | € 337.500,00 |
| ODTU GUNES ENERJISI UYGULAMA VE ARA STIRMA MERKEZI | TR - Türkiye | Ankara | € 331.820,59 | 2 | 0 | PUB | € 348.711,74 |
| BOGAZICI UNIVERSITESI | TR - Türkiye | İstanbul | € 127.000,00 | 2 | 0 | HES | € 138.750,00 |
| UNIVERSITY OF CUKUROVA | TR - Türkiye | Adana, Mersin | € 67.350,00 | 1 | 0 | HES | € 86.750,00 |
| MIDDLE EAST TECHNICAL UNIVERSITY | TR - Türkiye | Ankara | € 62.347,60 | 1 | 0 | HES | € 79.238,75 |
| TURK HIZLANDIRICI VE ISINIM LABORATUVARI MUDURLUGU | TR - Türkiye | Ankara | € 55.868,75 | 1 | 0 | REC | € 79.812,50 |

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# Main listed Turkish entities 2025 Calls

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| STARDAST | STewardship and Recognition for DAta Science Talent | Main list | Participant | TR | KUTTAM | KOC UNIVERSITY | Higher or Secondary Education | N | 37,375.00 € |
| RADNEXT 2030 | Accelerators and other Research Infrastructures for Radiation Effects Research | Main list | Participant | TR | METU | MIDDLE EAST TECHNICAL UNIVERSITY | Higher or Secondary Education | N | 27,750.00 € |
| ENSURE | ENvironmentally SUstainable digital services and practices for REsearch infrastructures | Main list | Participant | TR | TUBITAK | TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU | Research Organisation | N | 141,000.00 € |

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# Other applicants from 2025 call

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| EOSC GENESIS | GENerative AI Ecosystem for Scientific Innovation & Services | Below available budget | Participant | TR | TUBITAK | TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU | Research Organisation | N | 262,500.00 € |
| EOSC-GAIN | Enriching EOSC with GenAI-ready services for seNsitive and real-world health data | Below available budget | Participant | TR | SRDC | SRDC YAZILIM ARASTIRMA VE GELISTIRME VE DANISMANLIK TICARET ANONIM SIRKETI | Private for Profit | Y | 313,125.00 € |
| IDE4EOSC-R | An Integrated GenAI-Enabled Development Environment for Conducting EOSC-based Research | Below available budget | Participant | TR | SRDC | SRDC YAZILIM ARASTIRMA VE GELISTIRME VE DANISMANLIK TICARET ANONIM SIRKETI | Private for Profit | Y | 493,750.00 € |

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# Other Participants (Below Threshold)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| RI-DigiSkills | RI-DigiSkills: Advanced Digital Competences and Mobility for Technical Staff in European Research Infrastructures | Below Threshold | Coordinator | TR | ISTANBUL UNIVERSITY IU | ISTANBUL UNIVERSITESI | Higher or Secondary Education | N | 358,299.52 € |
| RI-DigiSkills | RI-DigiSkills: Advanced Digital Competences and Mobility for Technical Staff in European Research Infrastructures | Below Threshold | Participant - AP | TR | YAZILIMCILAR FEDERASYONU (TÜYAFED) | YAZILIMCILAR FEDERASYONU (TÜYAFED) | Other | N | |
| AID-EDU-TWIN | AID-EDU-TWIN: AI-Driven Digital Twins for Interactive Science Education | Below Threshold | Coordinator | TR | Baskent University | Baskent University | Higher or Secondary Education | N | 864,475.00 € |
| AID-EDU-TWIN | AID-EDU-TWIN: AI-Driven Digital Twins for Interactive Science Education | Below Threshold | Participant | TR | ANKARA HACI BAYRAM VELI UNIVERSITESI | ANKARA HACI BAYRAM VELI UNIVERSITESI | Higher or Secondary Education | N | 1,004,062.50 € |
| AID-EDU-TWIN | AID-EDU-TWIN: AI-Driven Digital Twins for Interactive Science Education | Below Threshold | Participant | TR | Dicle University | DICLE UNIVERSITESI | Higher or Secondary Education | Y | 167,937.50 € |
| AID-EDU-TWIN | AID-EDU-TWIN: AI-Driven Digital Twins for Interactive Science Education | Below Threshold | Participant | TR | ESKISEHIR OSMANGAZI UNIVERSITESI | ESKISEHIR OSMANGAZI UNIVERSITESI | Higher or Secondary Education | N | 206,250.00 € |
| AID-EDU-TWIN | AID-EDU-TWIN: AI-Driven Digital Twins for Interactive Science Education | Below Threshold | Participant | TR | National Defence University - Turkish Military Academy | National Defence University - Turkish Military Academy | Higher or Secondary Education | N | 210,937.50 € |

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Type of Projects which Turkish entities participate in

UFUK AVRUPA

# WeatherGenerator

- Focus: Development of an **AI-based global weather prediction model** leveraging observational data and supporting renewable energy sector research.
- Turkish involvement: *Buluttan Meteorology & Technology* as project partner.
- EU funding share: ~€650,000 in total project funding


REPUBLIC OF TÜRKİYE MINISTRY OF INDUSTRY AND TECHNOLOGY | #NATIONAL TECHNOLOGY INITIATIVE

COMPETITIVE SECTORS PROGRAMME

TÜBİTAK

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Type of Projects which Turkish entities participate in

# CLIMATE-ADAPT4EOSC

- Focus: Climate adaptation data services and FAIR data integration with the European Open Science Cloud.
- Main partners is Novitopia Bilgi Teknolojileri Ltd. (SME)
- Involves Turkish research/infrastructure contributions (partner details in project consortium).

ClimateAdapt | eosc

This project is co-funded by the European Union and the Republic of Türkiye

# AQUARIUS – Aqua Research Infrastructure Services

- Aim: Service integration for **marine, ocean and freshwater ecosystem research infrastructure**.
- Partner: *TÜBİTAK MAM* (Marine Research & Technology Group).

AQUARIUS

This project is co-funded by the European Union
and the Republic of Türkiye

# NEPHEWS

- Pan-European program integrating advanced neutron, synchrotron and free-electron laser (FEL) research infrastructures, providing wide access and training.
- Turkish Accelerator and Radiation Laboratory (TARLA)
- Other Turkish research institutes participate through networked RI activities.

nephews
Neutrons and Photons
Elevating Worldwide Science

This project is co-funded by the European Union and the Republic of Türkiye

# INFRADEV

**HORIZON-INFRA-2026-DEV-01-01:** Research infrastructure concept development, including major upgrades or extensions of existing infrastructures. (RIA, 2-3M, 4)

**HORIZON-INFRA-2026-DEV-01-02:** Consolidation of the research infrastructure landscape – pilots for strategic coordination, synergies, and simplified access pathways by large thematic clusters of pan-European research infrastructures. (CSA, 2.5-4M, 2)

**HORIZON-INFRA-2026-DEV-01-03:** Consolidation of the research infrastructure landscape – individual support for evolution. (RIA, €3.00 – €4.50, 8)

**HORIZON-INFRA-2026-DEV-01-04:** Strengthening the human capital managing research infrastructures, including in international context. (CSA, 2M, 1)

**HORIZON-INFRA-2026-DEV-01-05:** Research infrastructures as accelerators of the integration of Ukraine in the European Research Area. (CSA, 3M, 1)

**HORIZON-INFRA-2026-DEV-01-06:** Strengthening the international dimension of ESFRI and/or ERIC research infrastructures. (CSA, 1.5-2M, 2)

**HORIZON-INFRA-2026-DEV-01-07**: Risk management, mitigation and contingency for ESFRI/ERIC and other world-class research infrastructures (RIA, 1-4M, 3-5)

**Deadline: 16 June 2026**

This project is co-funded by the European Union and the Republic of Türkiye

# HORIZON-INFRA-2026-DEV-01-01 (RIA, 2-3M, 4)

**Research infrastructure concept development including major upgrades or extensions**

**Type:** Research & Innovation Action (RIA)

**Purpose:** Support planning, feasibility and design studies for new research infrastructures or major upgrades to existing ones.

**Focus:**

- ✓ Solid science case development (create impact, gap analysis)
- ✓ Feasibility/design work for major extensions or new infrastructures
- ✓ Alignment with scientific excellence and innovation agendas

**Value:** Helps ensure planned RIs have strong scientific justification and are ready for implementation.

This project is co-funded by the European Union and the Republic of Türkiye

# HORIZON-INFRA-2026-DEV-01-02 (CSA, 2.5-4M, 2)

**Consolidation of the RI landscape — pilots for strategic coordination and synergies**

**Type:** RIA

**Purpose:** Pilot collaborative actions to build **strategic coordination, synergies, and streamlined access pathways** among groups of RIs.

**Focus:**

- ✓ Integration of RIs within large thematic domains
- ✓ Improved coordination and harmonisation of services
- ✓ Simplified user access and joint portfolios of services

**Value:** Supports cross-RI coordination so that RIs operate in a more integrated, efficient and user-friendly way.

This project is co-funded by the European Union and the Republic of Türkiye

# HORIZON-INFRA-2026-DEV-01-03 (RIA, €3.00 – €4.50, 8)

**Consolidation of the RI landscape — individual support for sustainability and evolving needs**

**Type:** RIA

**Purpose:** Tailored support for single pan-European RIs to help them evolve, adapt and become sustainable long-term.

**Focus:**

- ✓ Addressing emerging scientific or technological requirements
- ✓ Supporting long-term operational sustainability
- ✓ Enhancing capacity to respond to future research needs

**Value:** Provides targeted reinforcement to help individual infrastructures remain globally competitive and sustainable.

This project is co-funded by the European Union and the Republic of Türkiye

# HORIZON-INFRA-2026-DEV-01-04 (CSA, 2M, 1)

**Strengthening human capital managing research infrastructures**

**Type:** Coordination and Support Action (CSA)

**Purpose:** Develop, enhance and retain specialised staff involved in RI planning, operations and management.

**Focus:**

- ✓ Training and upskilling RI personnel
- ✓ Expanding managerial competencies in an international context
- ✓ Addressing skills gaps in RI governance and operations

**Value:** Builds capacity within the RI ecosystem to ensure effective management and leadership in European and global contexts.

This project is co-funded by the European Union and the Republic of Türkiye

# HORIZON-INFRA-2026-DEV-01-05(CSA, 3M, 1)

**Research infrastructures as accelerators of the integration of Ukraine in the ERA**

**Type:** RIA

**Purpose:** Promote the integration of Ukrainian RIs and researchers into the European Research Area (ERA).

**Focus:**

- ✓ Strengthening links between Ukrainian and European RIs
- ✓ Supporting activities like research security training
- ✓ Facilitating cooperation with national agencies, international organisations and infrastructures

**Value:** A politically and strategically important call that supports ERA integration through inclusion and partnership.

This project is co-funded by the European Union and the Republic of Türkiye

# HORIZON-INFRA-2026-DEV-01-06(CSA, 1.5-2M, 2)

**Strengthening the international dimension of ESFRI and/or ERIC RIs**

**Type:** Coordination and Support Action (CSA)

**Purpose:** Support international cooperation and global outreach for ESFRI infrastructures and ERICs.

**Focus:**

- ✓ Boosting global engagement and partnerships with third countries
- ✓ Enhancing visibility of EU RIs internationally
- ✓ Developing frameworks for cooperation and joint activities

**Value:** Reinforces European leadership and global influence of RIs, facilitating knowledge exchange and connectivity.

This project is co-funded by the European Union and the Republic of Türkiye

# INFRAEOSC - Enabling an Operational, Open and FAIR European Open Science Cloud (EOSC)

To support the adoption, operation, and sustainability of EOSC, enabling research infrastructures and communities to manage and share data according to FAIR principles (Findable, Accessible, Interoperable, Reusable) and foster open science across Europe.

- Integrate national and European RIs into the EOSC federation
- Develop services, platforms, and tools for FAIR data management
- Encourage cross-disciplinary use of EOSC resources
- Promote EOSC adoption by research communities

This project is co-funded by the European Union and the Republic of Türkiye

# HORIZON-INFRA-2026-01-EOSC-01 (RIA, 40M, 1)

Uptake of FAIR data management practices and of EOSC by research communities and research infrastructures (EOSC Partnership)

**Type of Action:** RIA (Research & Innovation Action)

**Purpose:** Increase adoption across Europe of open science and **FAIR (Findable, Accessible, Interoperable, Reusable)** research data practices and strengthen involvement of RIs in the **European Open Science Cloud (EOSC)**.

**Focus:**

- Promote FAIR data standards in RI communities
- Integrate RI data services into the EOSC federation
- Build capacity for shared data tools and workflows

**Value:**
Supports interoperability and reuse of research outputs, helping researchers and infrastructures harness EOSC standards, and expanding access to high-quality, FAIR data across disciplines.

This project is co-funded by the European Union and the Republic of Türkiye

# HORIZON-INFRA-2026-01-EOSC-02 (CSA, 3-5M, 2)

Trusted Frameworks for Secure & Efficient Data Sharing

**Type:** CSA

**Purpose:** Build trusted legal, ethical & technical data sharing frameworks

**Focus:**
- Security & privacy protocols
- Legal/ethical compliance
- Authentication & authorisation (AAI)
- Interoperability of secure services

**Value:** Trusted data exchange across EOSC; Cross-border research confidence and Wider EOSC adoption

This project is co-funded by the European Union and the Republic of Türkiye

# HORIZON-INFRA-2026-SERV-01-01 (RIA, 32M, 1)

Implementing digital services to empower neuroscience research for health and brain inspired technology via EBRAINS

**Type of Action:** RIA (Research & Innovation Action)

**Purpose:** Develop and deploy **digital research services** in the domain of neuroscience, health and brain-inspired technologies based on the **EBRAINS** infrastructure.

**Focus:**

- Build user-oriented digital tools and platforms for brain research
- Foster service integration across RI ecosystems
- Provide services that support access for researchers and innovators

**Value:**
Bridges high-end RI services to scientific communities working on health and neuroscience, boosting cross-disciplinary discovery and enhancing the research impact of EOSC-integrated RI services.

This project is co-funded by the European Union and the Republic of Türkiye

# Priorities for INFRATECH

**Next-generation scientific instrumentation**

➢ This includes development, validation, and testing of **advanced instrumentation** and tools, including **sensors**, **digital solutions**, and **platforms** that will enhance RIs' capabilities.

**Digital solutions for RIs**

➢ Funding to develop and implement **advanced digital infrastructures**, such as **data analytics platforms**, **digital twins**, and **high-performance computing** (HPC).

**Co-creation with industry**

➢ Support for **industry-driven innovation**, particularly in the development of **cutting-edge technology** and methods with direct **industry applications**.

→ €125 million

This project is co-funded by the European Union and the Republic of Türkiye

# HORIZON-INFRA-2026-TECH-01-01 (RIA, 5-10M, 10-20)

**Title:** R&D for the next generation of scientific instrumentation, tools, methods, digitalisation and solutions for research infrastructure upgrades

**Type of Action:** RIA (Research & Innovation Action)

**Purpose:** Support **research and development** of cutting-edge instrumentation, tools, methods, and digital technologies to update and extend research infrastructure capabilities.

**Focus:**

- Build innovative tools and systems for improved research performance
- Digitalise research workflows and instruments
- Advance technology co-creation with industry

**Value:**

Ensures European RIs stay at the forefront of scientific discovery and technological capability, enabling new science and industry-linked innovation.

This project is co-funded by the European Union and the Republic of Türkiye

# HORIZON-INFRA-2026-TECH-01-02 (RIA, 5-7M, 2-3)

Digital twins and/or their major components for environment, climate and security

**Type of Action:** RIA (Research & Innovation Action)

**Purpose:** Develop **digital twin technologies** and components for infrastructure use in environment, climate and security contexts.

**Focus:**

- Create virtual models of physical systems
- Support simulations for environmental, climate and security research
- Link digital tools with real-time data streams

**Value:**

Digital twins accelerate insight into complex systems, improving predictive research and enabling RI services to address societal challenges more effectively.

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# 2027 calls

## INFRADEV

HORIZON-INFRA-2027-DEV-01-01: Preparatory phase of new ESFRI RI projects (CSA ,1.50 – 3.50M, 9)
HORIZON-INFRA-2027-DEV-01-02: Consolidation – synergies/integration of RIs (RIA, 2.00 – 5.00M, 4)
HORIZON-INFRA-2027-DEV-01-03Consolidation – sustainability & evolving needs (RIA, 3.00 – 4.50, 8)

## INFRAEOSC

HORIZON-INFRA-2027-01-EOSC-01: Expanding and deepening the EOSC Federation (EOSC Partnership) (COFUND, 40.00, 1)
HORIZON-INFRA-2027-01-EOSC-02: Strengthening the potential of EOSC for knowledge valorisation & industry-academia collaboration (CSA, 2.50 – 4.00, 2)

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# 2027 Calls

## INFRASERV

HORIZON-INFRA-2027-SERV-01-01: Access to RIs, resources & services – large-scale pilots (RIA, 35.00, 3)
HORIZON-INFRA-2027-SERV-01-02: Access to RI services to enable R&I addressing EU priorities & emerging challenges (RIA, 6.00, 6)
HORIZON-INFRA-2027-SERV-01-03: Connecting RIs & a wider user community (RIA, 3.00, 4)

## INFRATECH

HORIZON-INFRA-2027-TECH-01-01: Testing & optimising co-creation of advanced RI technologies **(RIA, 10–15, 2)**
HORIZON-INFRA-2027-TECH-01-02: Pioneering Destination Earth – large-scale pilots & demonstrators (RIA, 7-12, 3-5)

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UFUK AVRUPA

# Session 4: Consortium Roles and Leadership

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REPUBLIC OF TÜRKİYE MINISTRY OF INDUSTRY AND TECHNOLOGY

#NATIONAL TECHNOLOGY INITIATIVE

COMPETITIVE SECTORS PROGRAMME

TÜBİTAK

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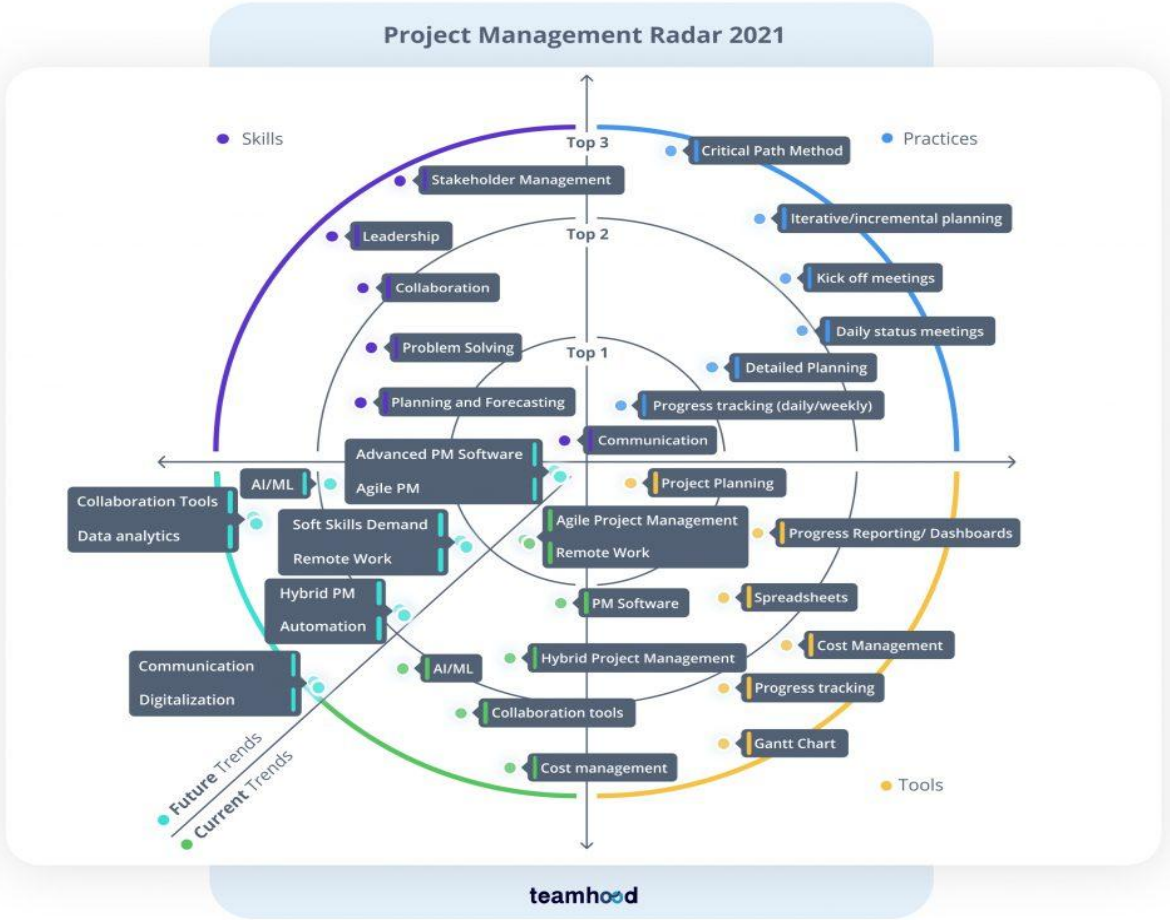
# Skills needed for Leadership (Coordination)

- ✓ Strategic planning & consortium vision
- ✓ Communication & negotiation
- ✓ Governance & project management
- ✓ Financial & administrative oversight

# Skills for WP Leadership

- ✓ Plan tasks strategically
- ✓ Negotiate responsibilities and budgets
- ✓ Ensure governance compliance
- ✓ Manage resources efficiently



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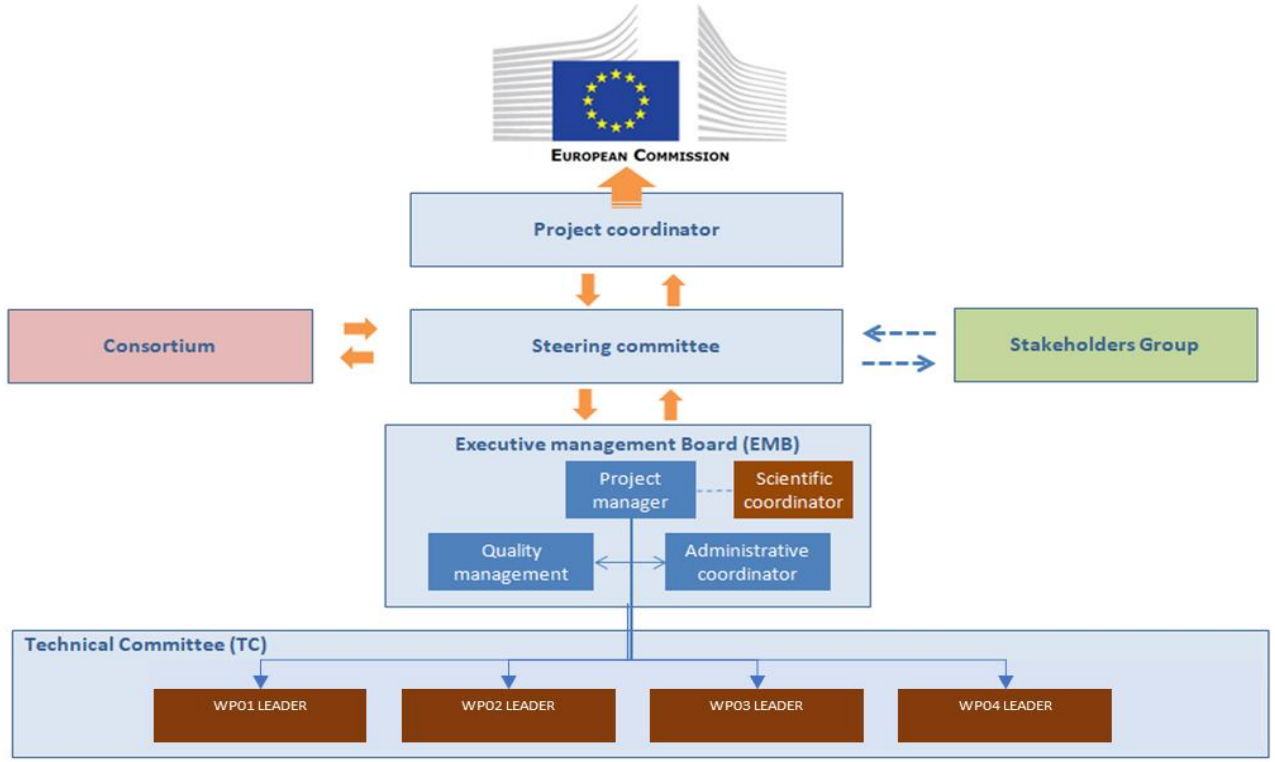
# Governance Structures & Decision Making

**Grant Agreement:** Contract of the work to be undertaken, Deliverables and Milestones
**Consortium Agreement:** rules for leadership, decision-making, IP, and conflict resolution
**General Assembly** → All partners
**Steering Committee / Management Board** → decision-making
**WP Leaders** → manage deliverables



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# How to Claim Leadership Positions

**Identify your strengths** → unique capabilities, national/regional advantages
**Map your expertise to WPs** → where you can lead and add value
**Negotiate early** → define leadership roles in proposals
**Build a track record** → start with WP leadership if coordination is too early

- Highlight what makes your RI essential
- Map expertise to specific Work Packages
- Negotiate leadership roles in the proposal phase
- Build credibility gradually — start with WP leadership before coordinating a whole project”

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# Finding Partners

- Your own Networks
- Brokerage Events (Travel Grants – but not for RI)
- CORDIS (Previous Projects)
- Partner Search Facility
- NCP Network

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# Roles in a Consortium

- Coordination
- Work Package Leader
- Task Leader
- Beneficiary
- Affiliated Partner
- Sub-contractor
- Third party beneficiary

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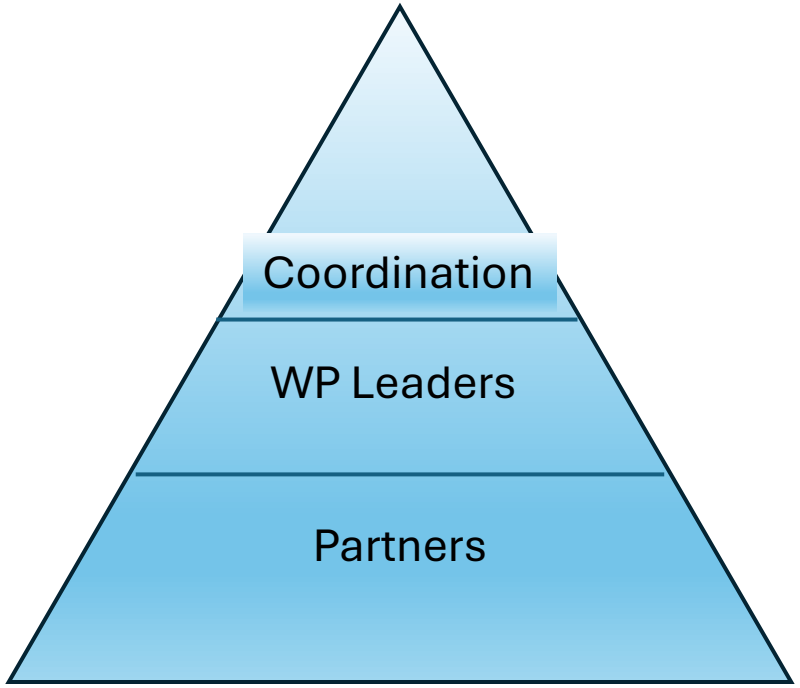
# Why does Leadership Matter?

- ✓ Leadership = Strategic influence
- ✓ Access to decision-making
- ✓ Visibility and recognition
- ✓ Increased chances of future funding




Being a Leader of the Consortium (Coordination or WP Leader)

- ✓ Influence project goals
- ✓ Shape consortium work plans
- ✓ Build long-term visibility and credibility in Europe

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# Responsibilities and Benefits of Consortium

| Role | Responsibilities | Benefits |
|---|---|---|
| Project Partner | Implements tasks, delivers results, collaborates | Access to networks, visibility, partial influence |
| WP Leader | Manages a Work Package, coordinates deliverables | Stronger influence, recognition for expertise |
| Coordinator | Oversees entire project, liaison with EC | Highest visibility, strategic decision-making, direct influence on consortium direction |

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# Exercise 3 – Mini Case Discussion

**Scenario**

A Horizon Europe **INFRASERV** proposal is being prepared:

**Call:** HORIZON-INFRA-2027-SERV-01
- **Topic:** Access to RI services addressing EU priorities
- **Consortium size:** 14 partners, 9 countries
- **Coordinator:** Large Western European ERIC
- **Turkish RI:** National mid-scale RI with strong user base and specialised facilities

The Turkish RI has been invited as a **partner**, but no leadership role is yet assigned.

Coordinator (ERIC)
WP1 – Project Management
WP2 – Access Provision & User Selection
WP3 – Service Development & Integration
WP4 – Training & Capacity Building
WP5 – Dissemination, Sustainability & Impact

Where could the Turkish RI realistically claim a leadership role — and how?

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Coordinator (ERIC)
WP1 – Project Management
WP2 – Access Provision & User Selection
WP3 – Service Development & Integration
WP4 – Training & Capacity Building
WP5 – Dissemination, Sustainability & Impact

# Exercise 4 Answers

Where could the Turkish RI realistically claim a leadership role — and how?

What Evidence would justify this leadership ?

What can they offer the Coordinator in Return?

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# Session 5: Funding and Policy Alignment

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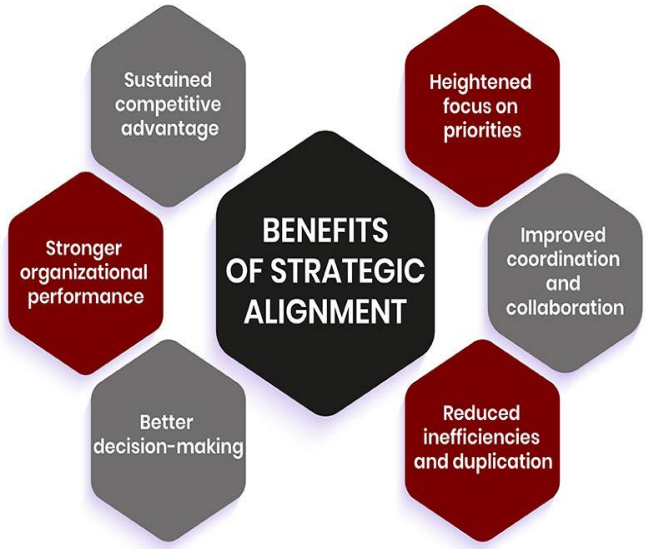
# Funding and Policy Alignment

## This Session

consortium leadership → funding and policy alignment

*looking at where the money is going, how priorities are evolving, and how Turkish RIs can strategically position themselves.*



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# What is Transnational Access (TNA)?

- TNA allows researchers from **one country** to access **another country's Research Infrastructure**.
- It's a **core element of Horizon Europe** (and previous Framework Programmes) to **facilitate mobility and collaboration**.
- Users typically get **free or subsidised access** to RI facilities, instruments, or services.

A very good way to start exchanges with an RI

http://www.rich2020.eu/ (RICH Europe Tool for facilitating TNA)

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# 2. How TNA is Funded

## A. EU Funding via Horizon Europe

- Most TNA funding comes from **EU RI-focused calls**:
  - **INFRASERV**: covers operational costs of user access
  - **INFRADEV / INFRATECH**: may support upgrading services for international users
- The **RI itself applies for funding** to host and provide TNA services.

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# Covered Costs

- **Access to the facility**: instruments, labs, or computing time
- **Travel and subsistence**: for researchers from other countries
- **Consumables**: chemicals, reagents, or materials used during experiments
- Sometimes **training and support services**

Researchers **usually do not pay directly**; the host RI claims reimbursement through the TNA project.

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# Mechanism TNA

1. **RI receives Horizon Europe TNA funding** for a defined number of transnational users.
2. **Calls are open** to researchers from other countries (nationality of user must be different from host country) (RICH Europe website)
3. **RI reports usage and costs** to the EU funding body to claim reimbursement.

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# Key Take-aways for TNA

- TNA is **not the RI's regular operational budget**; it is **specific funding to allow cross-border access**.
- It **incentivises sharing** of resources, especially high-cost or unique facilities.
- It helps **smaller or newer countries integrate** into European RI networks.
- It increases Research Excellence across Europe
- Contributes to the 'Schengen' / Borderless nature of RIs

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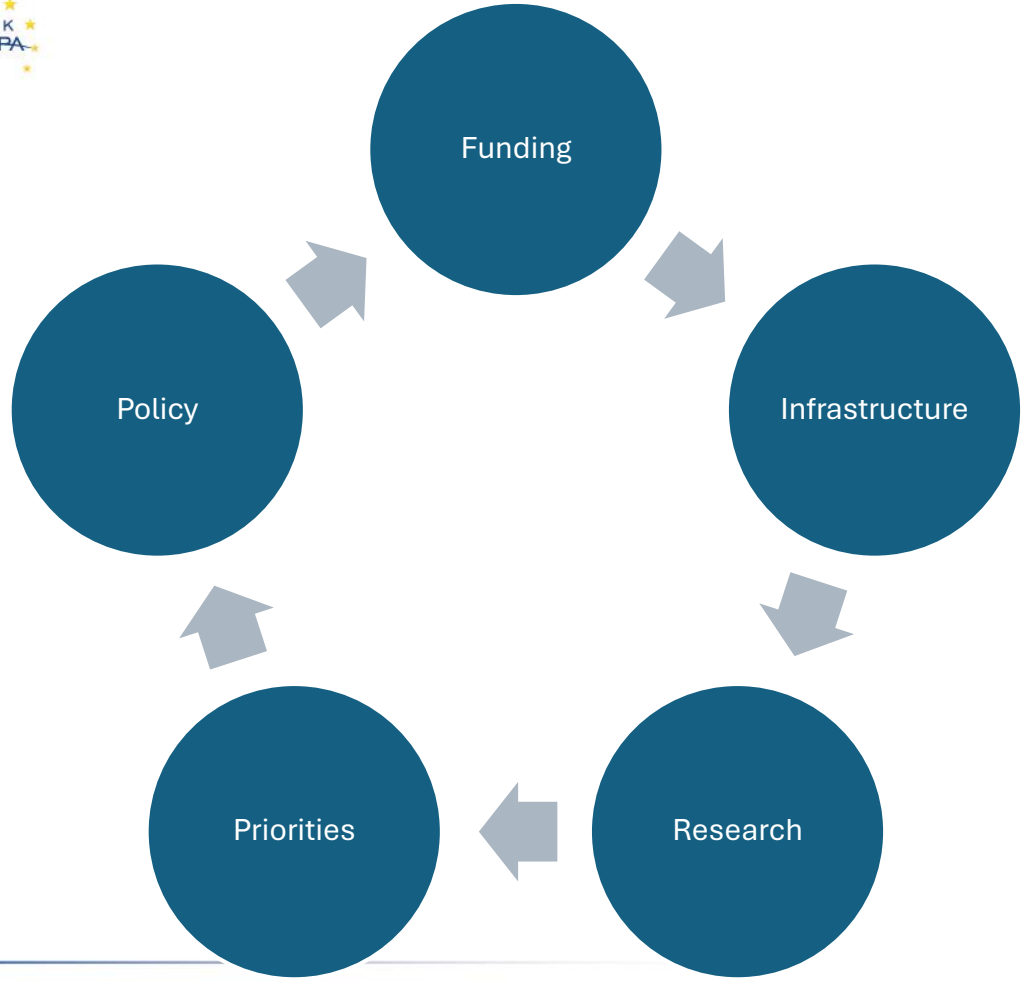
# From Strategy to Funding

- Strategy shapes funding
- Funding shapes infrastructures
- Infrastructures shape research capacity




Funding does not exist in isolation — it follows policy priorities

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# Horizon Europe RI Work Programme 2026–2027: Big Picture

- Consolidation of the RI landscape
- Sustainability & long-term governance
- Service orientation (access, data, digital tools)
- International dimension of ESFRI/ERIC
- Integration with EOSC

We now take a look what each Destination could bring to Turkish RIs and how Turkish RIs should position themselves.

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# INFRADEV – Consolidation & Evolution of RIs

**What it brings to Turkish RIs:**

- Opportunity to **develop new RI concepts** or expand existing ones toward ESFRI-level excellence.
- Support for **strategic integration** with pan-European infrastructures.
- Funding for **preparatory studies, roadmap alignment, and sustainability planning**.

**How to position:**

- Identify **RI concepts with EU relevance** (aligned with ESFRI domains).
- Demonstrate **capacity for European collaboration** and long-term sustainability.
- Highlight **unique expertise** that complements existing European RIs.

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# INFRAEOSC – Open & FAIR European Open Science Cloud

**What it brings to Turkish RIs:**

- Integration into the **EOSC federation**, increasing visibility of data and services.
- Funding to implement **FAIR data principles** and **open science practices**.
- Access to pan-European **tools, standards, and cloud services**.

**How to position:**

- Emphasize **RI's existing data services**, repositories, or community platforms.
- Showcase **FAIR compliance efforts** and potential for cross-border data sharing.
- Identify **RI-specific user communities** that can benefit from EOSC.

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# INFRASERV – RI Services & Access

**What it brings to Turkish RIs:**

- Funding to provide **Transnational Access (TNA)** to external researchers.
- Support for **expanding RI user base** beyond national borders.
- Opportunity to **pilot new services** and demonstrate **operational excellence**.

**How to position:**

- Highlight **unique infrastructure or experimental capabilities**.
- Demonstrate ability to **host external researchers** and deliver high-quality access.
- Present a clear **service strategy aligned with EU priorities**.

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# INFRATECH – Advanced Technology & Digital Solutions

**What it brings to Turkish RIs:**

- Funding for **next-generation instrumentation, digital tools, and testbeds**.
- Opportunities to **co-develop technologies** with leading European RIs.
- Access to **large-scale demonstrators and cutting-edge innovation projects**.

**How to position:**

- Showcase **technological excellence** and capacity for R&D collaborations.
- Identify **technology gaps or innovations** that meet EU research priorities.
- Highlight **potential impact on multiple scientific domains**.

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# FP10 Outlook: What Is Likely to Change?

- Even stronger focus on sustainability
- More digital & data-driven RIs
- Fewer but larger, more strategic projects
- Stronger international partnerships
- Greater alignment with EU industrial & innovation policy

## What is the Commission proposing?

With a proposed **€175 billion** budget, the new programme will be based on four pillars.

| Pillar I | Pillar II | Pillar III | Pillar IV |
|---|---|---|---|
| EXCELLENT SCIENCE | COMPETITIVENESS AND SOCIETY | INNOVATION | EUROPEAN RESEARCH AREA |
| €44.079 BILLION | €75.876 BILLION | €38.785 BILLION | €16.262 BILLION |
| EUROPEAN RESEARCH COUNCIL | COMPETITIVENESS[1]: 1. Clean Transition and Industrial Decarbonisation 2. Health, Biotech, Agriculture and Bioeconomy 3. Digital leadership 4. Resilience and Security, Defence Industry and Space | EUROPEAN INNOVATION COUNCIL | ERA POLICIES |
| MARIE SKŁODOWSKA-CURIE ACTIONS | SOCIETY: 1. Global societal challenges 2. EU Missions 3. New European Bauhaus Facility | INNOVATION ECOSYSTEMS AND THE KNOWLEDGE TRIANGLE | RESEARCH AND TECHNOLOGY INFRASTRUCTURES |
| SCIENCE FOR EU POLICIES | | | WIDENING PARTICIPATION AND SPREADING EXCELLENCE |

[1] Consistent with activities under the European Competitiveness Fund


* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

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### Pillar I
**EXCELLENT SCIENCE**

**€44.079 BILLION**

- EUROPEAN RESEARCH COUNCIL
- MARIE SKŁODOWSKA-CURIE ACTIONS
- SCIENCE FOR EU POLICIES

### Pillar II
**COMPETITIVENESS AND SOCIETY**

**€75.876 BILLION**

COMPETITIVENESS[1] :
1. Clean Transition and Industrial Decarbonisation
2. Health, Biotech, Agriculture and Bioeconomy
3. Digital leadership
4. Resilience and Security, Defence Industry and Space

SOCIETY:
1. Global societal challenges
2. EU Missions
3. New European Bauhaus Facility

### Pillar III
**INNOVATION**

**€38.785 BILLION**

- EUROPEAN INNOVATION COUNCIL
- INNOVATION ECOSYSTEMS AND THE KNOWLEDGE TRIANGLE

### EUR[illegible]N RESEARCH AREA

**€16.262 BILLION**

- ERA POLICIES
- RESEARCH AND TECHNOLOGY INFRASTRUCTURES
- WIDENING PARTICIPATION AND SPREADING EXCELLENCE

[1] Consistent with activities under the European Competitiveness Fund

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# 1. Elevated Strategic Role of Research Infrastructures

**Horizon Europe:**

- Research infrastructures are supported mainly under **Pillar I (Excellent Science)** with dedicated instruments like INFRADEV, INFRAEOSC, INFRASERV, INFRATECH.
- The focus is on consolidation, access, services, data, and technology R&D.

**FP10:**

- Infrastructures instrument is proposed to move to a new dedicated **Pillar IV — European Research Area (ERA)**, highlighting them as central to EU research policy and competitiveness.
- This shift formally embeds RIs into the heart of ERA policy rather than a specific thematic pillar.

**Key Change:**

➞ RIs become an *ERA-wide priority*, with stronger visibility and strategic policy integration under FP10.

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## 2. Bigger and More Flexible Financing

**Horizon Europe:**

- Total budget ~€95 billion (2021–27) for all research and innovation, of which research infrastructures are a component.
- Specific calls target different dimensions of operations, access, data, and tech.

**FP10:**

- Proposed budget ~€175 billion (2028–34).
- Discussions suggest **20 % of FP10 funding could target research and technology infrastructures**, a **significant shift toward sustained, large-scale support** particularly for construction and capacity building.

**Key Change:**

➞ Broader and **potentially larger RI funding envelope** and instruments (e.g., direct support to build world-class capacities), beyond short project calls.

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# 3. Simplification and Strategic Orientation

**Horizon Europe:**

- Work programmes are **highly structured** with multiple directed calls and detailed topic descriptions.
- Participation rules include traditional reimbursement rates and detailed eligibility criteria.

**FP10:**

- Aims for **simplification**:
- **Shorter work programmes**
- **Fewer, broader and less prescriptive topics**
- Shorter time from proposal to grant (~7 months)
- Increased use of **lump sum funding**
- Higher SME funding rates (100 % for SMEs).

**Key Change:**

➞ Participation will likely be more accessible with **simplified topic structures and administrative processes** — beneficial for multi-institution RI consortia.

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# 4. Cross-Cutting and Transversal Integration

**Horizon Europe:**

- Research infrastructures are supported through their own destination within Pillar I with specific RI-focused calls (INFRADEV, INFRAEOSC, etc.).

**FP10:**

- ESFRI and RIs are recommended to be treated as **a cross-cutting, transversal asset** across the entire programme rather than isolated in specific pillars, enhancing linkages with other objectives (e.g., innovation, missions, data spaces).

**Key Change:**

➞ RIs could be linked more directly to **industrial policy, innovation ecosystems, missions, and data initiatives**, not just traditional science excellence calls.

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# 5. Focus on Sustainability and Continuous Support

**Horizon Europe:**

- Most RI funding is through **competitive calls** centered on specific outcomes or services (e.g., access, EOSC integration, tech upgrades).

**FP10:**

- Strategic documents and position papers advocate for **continuous lifecycle funding** and **long-term sustainability instruments** beyond competitive calls — for operations, construction, regional capacity and global cooperation.

**Key Change:**

➞ The programme may shift toward **long-term, stable funding mechanisms** (including co-funding instruments and strategic partnerships) rather than primarily project-by-project calls.

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# Key Take-aways

👉 **FP10 elevates Research Infrastructures from discrete project calls into a strategic, policy-aligned, and well-funded pillar of the European R&I system.**
👉 **Expect a simpler, more accessible funding landscape with broader, less prescriptive topics and faster grant processes.**
👉 **Strategic integration across EU priorities** (innovation, missions, industry linkages) will be stronger than under Horizon Europe.

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# E-Brains RI – Interactive Exercise

E-Brains combines:

- Neuroscience & health data
- Digital research infrastructures
- FAIR data / EOSC integration
- HPC & AI tools
- Clinical and translational research dimensions

- Understand what EBRAINS offers (services, data, tools, access)
- Map their own RI capabilities to EBRAINS components
- Identify concrete collaboration entry points
- Develop a mini “integration pitch”

small groups to brainstorm:

- What services Could a digital health RI typically provide?
- What barriers do Turkish RIs face in joining EU RI ecosystems?
- What would make an RI internationally attractive?

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# SLIDO 13&14

#2735125

- https://app.sli.do/event/5Fr8KLGiNU739B3kHjf9we


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