



HELLENIC REPUBLIC
MINISTRY OF DEVELOPMENT AND INVESTMENTS

GSRI

GENERAL SECRETARIAT FOR
RESEARCH AND INNOVATION



Research and Innovation System in Greece

Dr. Agnes Spilioti

Head, R&I Policy Planning Directorate
GENERAL SECRETARIAT FOR RESEARCH AND INNOVATION

Dr. Maria Christoula

Head, International S&T Cooperation Directorate
GENERAL SECRETARIAT FOR RESEARCH AND INNOVATION



Outline



The GSRI

Performance of Greece in Research and Innovation

The National Smart Specialization Strategy 2021-27

International Cooperation in Research and Innovation



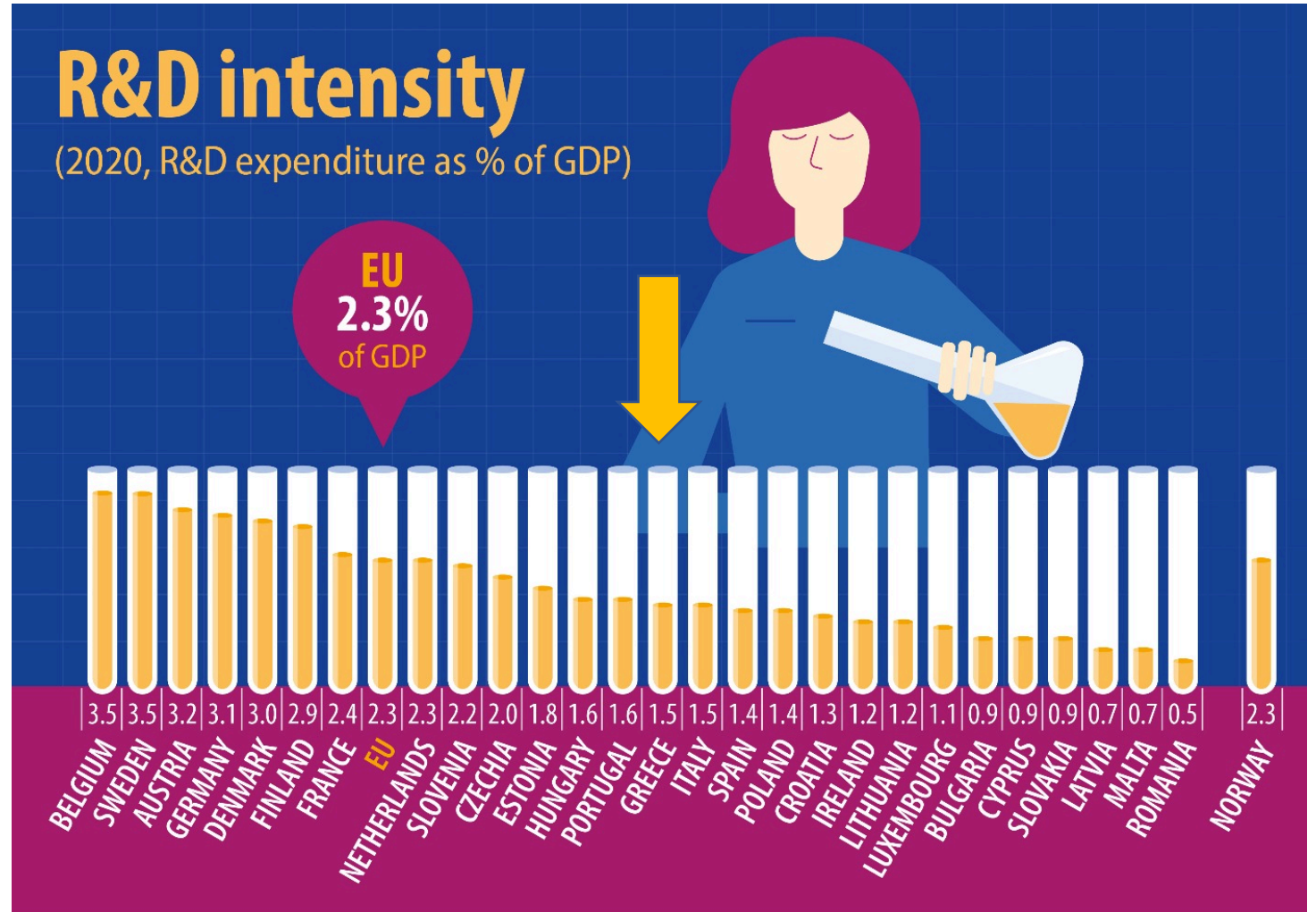
Ministry of Development and Investments

General Secretariat for Research & Innovation

Mission

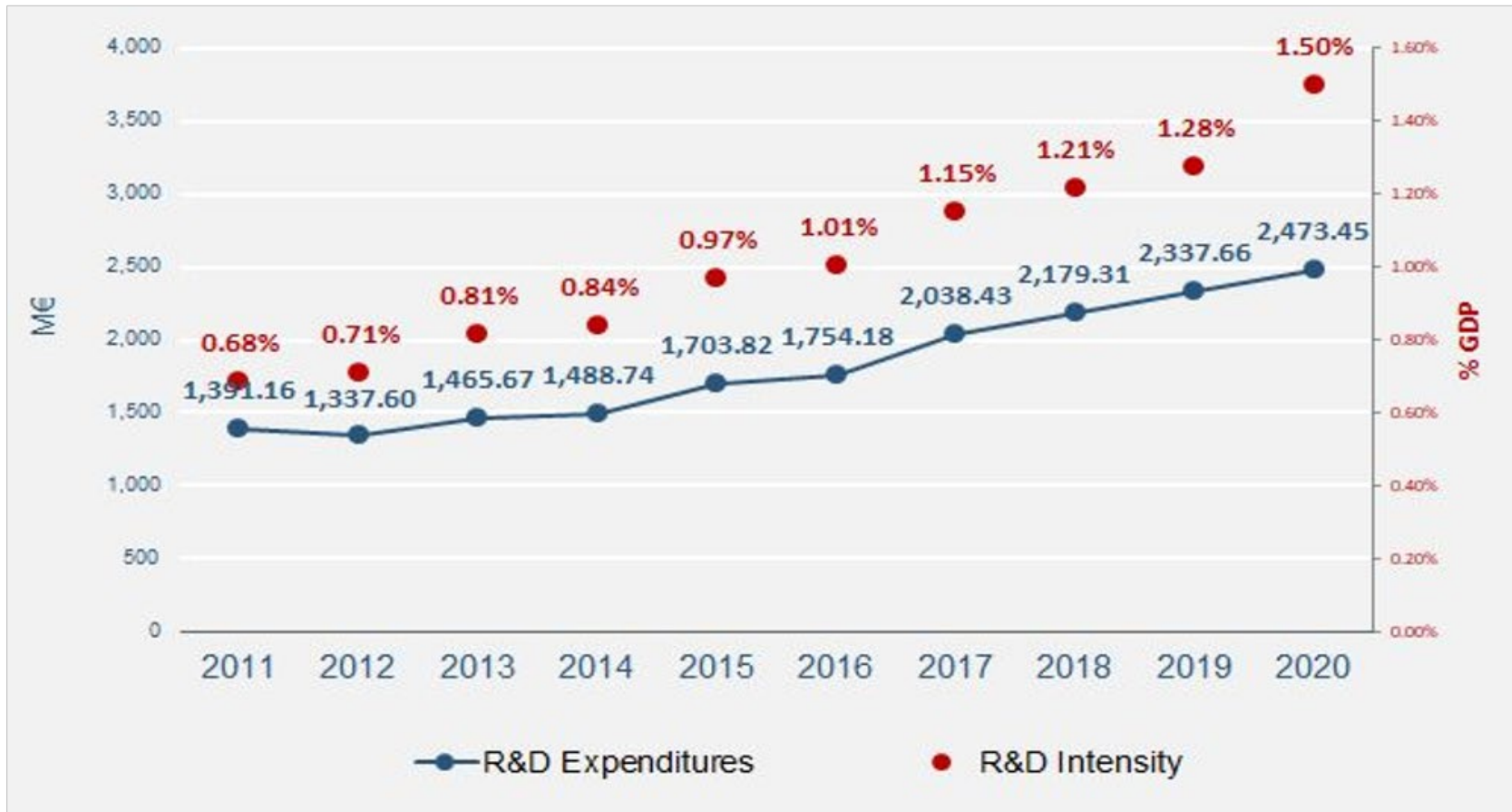
- Design, implementation, monitoring and evaluation of the National Strategy for Research and Innovation
- Launching and funding of research and innovation competitive programs
- Supervision and funding of 11 Research Centers and 3 Technological Organizations
- Representation to the European Union, OECD and International Research Organizations (CERN, EMBL etc.)
- Promotion of public awareness on Science, Research and Technology

R&D Intensity in Greece
remains below the EU
average

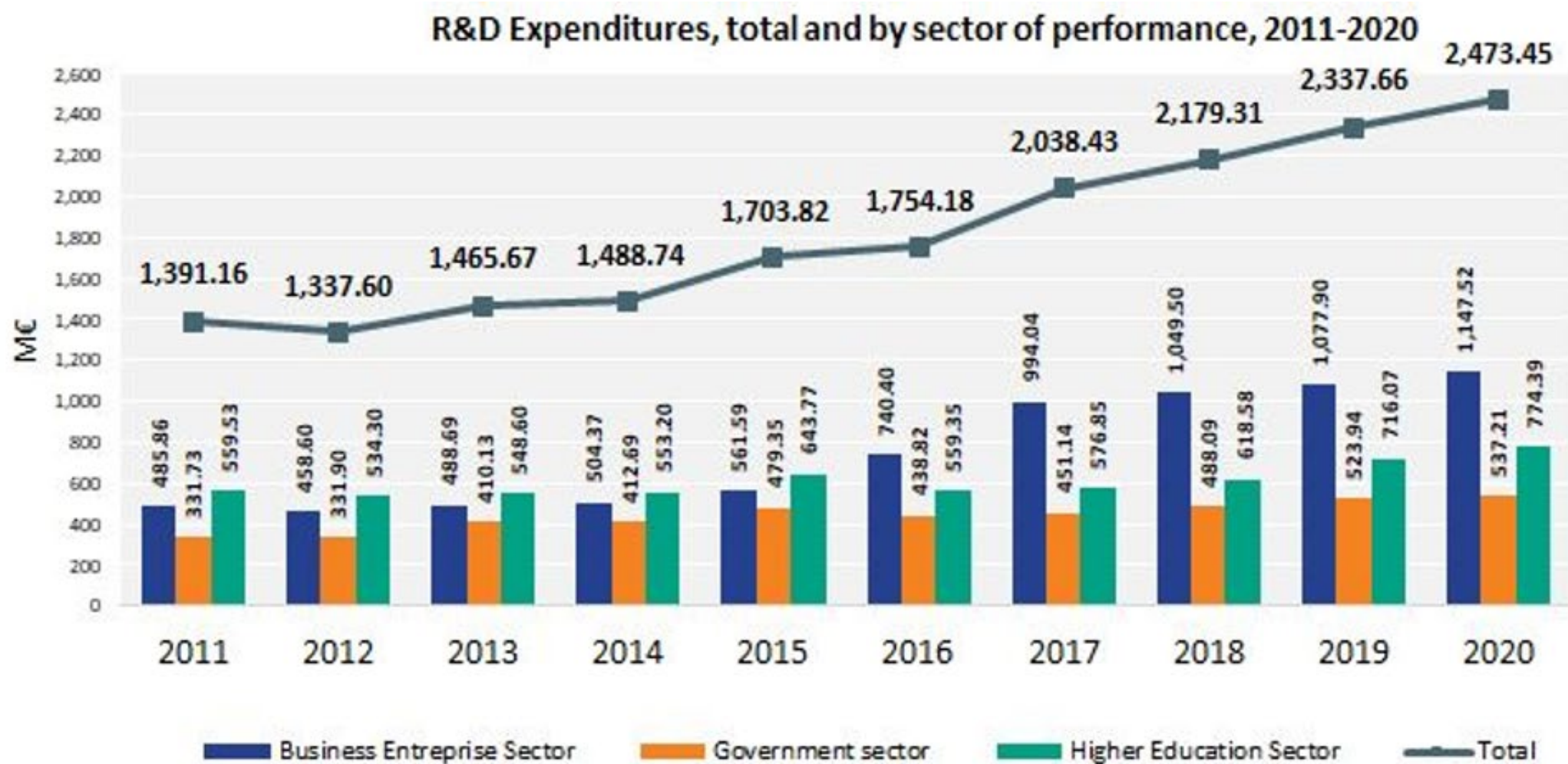


R&D expenditures in Greece at 1.50% of GDP in 2020 (provisional data)

R&D Expenditures and R&D Intensity (R&D expenditures of GDP), 2011-2020



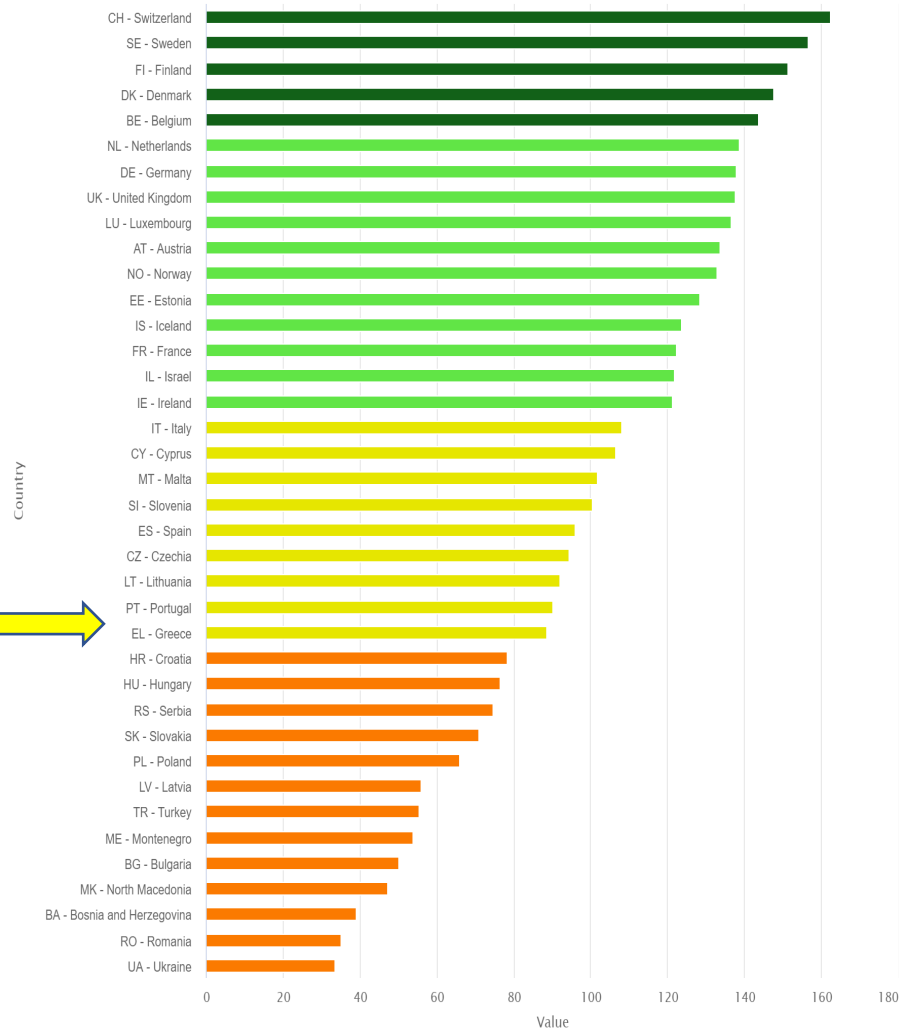
Source: National Documentation Centre (EKT)



Source: National Documentation Centre (EKT)

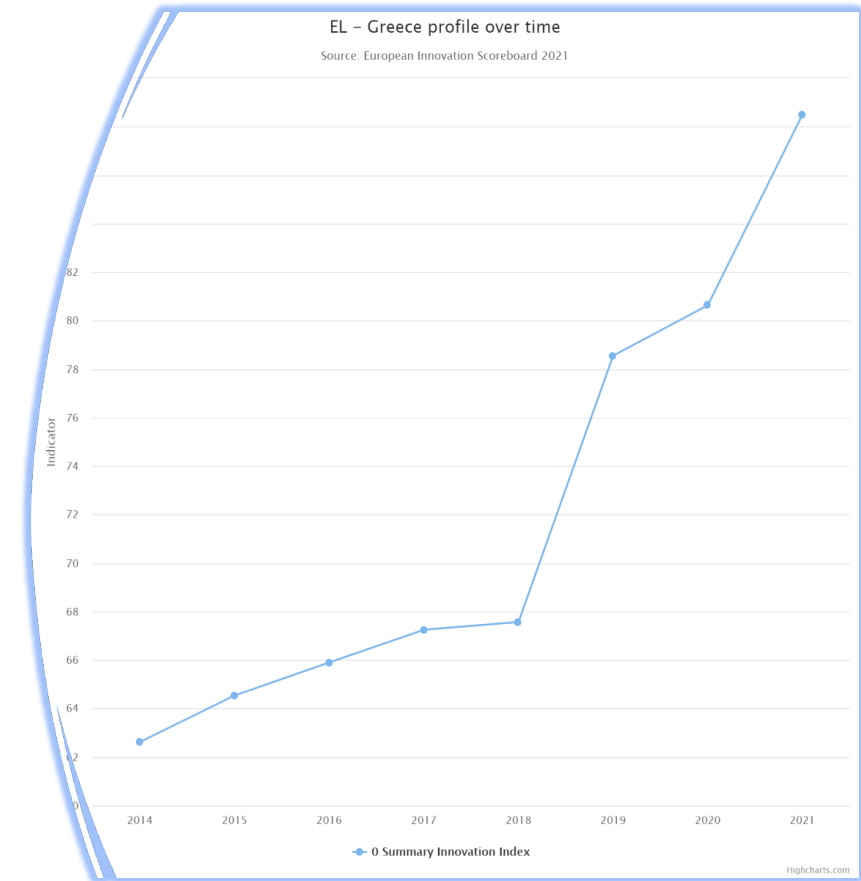
0 Summary Innovation Index

Source: European Innovation Scoreboard 2021



EL - Greece profile over time

Source: European Innovation Scoreboard 2021



Greece is a Moderate Innovator

Over time, performance relative to the EU has increased strongly, in the last three years in particular

National Smart Specialization Strategy 2021-27

Vision

A new growth model socially, financially and environmentally sustainable, based on knowledge and its commercialization for the production of high added value products and services, capable to integrate into global value chains.

Investments in research and innovation are in line with the country's growth strategy, providing the necessary innovative background aiming at increasing the competitiveness of the Greek economy and solving important social problems.

Smart Specialization Strategy 2021-27: The Greek Innovation Journey Green, Digital, Inclusive

- ***Strategic Objectives***
- Production of New Knowledge
- Commercialization and diffusion of Knowledge
- Technological Transformation of the Greek Productive Sector – Innovation adoption
- Internationalization – Penetration into Global Value Chains



Intervention Areas

- Human Resources (business and academia)/ Skills
- Research Infrastructures
- Innovation support services and facilities/ Intermediaries
- Business and Academia Co-operation and Co-creation
- Digital Transformation
- Regulatory Framework – Tax incentives
- Science and Society



Thematic Priorities

Digital Technologies

Bio-Sciences, Health and Pharmaceuticals

Environment and Circular Economy

Sustainable Energy

Transport and Logistics

Agro-food Value Chain

Tourism, Culture and Creative Industries

Funding Sources

Indicative Budget 2021-27: > 1,6 b €

OP “Competitiveness”
Research, Innovation,
Advanced Technologies:
633.228.490 €

OP “Competitiveness” Skills :
139.622.108 €

OP “Competitiveness”
Financial Instruments for
innovative entrepreneurship:
110.000.001 €

Recovery and Resilience
Programme:
485.000.000 €

Just Transition Fund:
250.000.000 €

Regional Operational
Programmes, Other Sectoral
O.P.s, National Investments
Programme, Tax Incentives

Human Resources



Reverse Brain Drain, Skills



Flagship Initiatives & Networks (Personalized Medicine, Climate Change, Food value chains: wine, olive oil, honey etc.)



Incentives for trans-sectoral mobility of researchers



HFRI: Support to research excellence and basic research

Research Infrastructures



Multiannual Budgeting Plan of National Research Infrastructures 2014-20 (28 RIs)



Internationalization of the Greek RIs – Networking to European (ESFRI) and to international facilities



PSF (supporting the Greek authorities in implementing an in-depth study of the 28 Research Infrastructures included in the National Budgeting Plan)

Innovation Support Services and Facilities



Support to Spin off/ innovative start ups, Elevate Greece, Financial Instruments



Intermediaries: Clusters, Competence Centres, Technology Transfer Offices



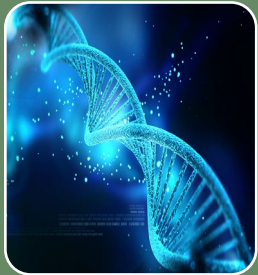
Innovation Districts (Athens & Thessaloniki)



Support for Patenting, Pre-commercial Procurement

Business & Academia Collaboration and Co-creation

Programming Period 2014-20: 1.137 projects/ 606,7 m€ public budget/
114 m€ private contribution



**Collaborative Projects,
industrial research and
experimental development in
business firms**



**Long – term, Strategic
Partnerships and Co-creation
Mechanisms**

Program “Research – Create – Innovate”



*Industrial Research for business firms (all
types and size of companies)*



*Collaborative projects between industry and
academia*



*Integration of Research Results to the
Production Process (experimental
development)*

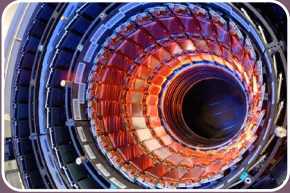


Seal of Excellence for SME Instrument H2020

Internationalization / International R&I Cooperation



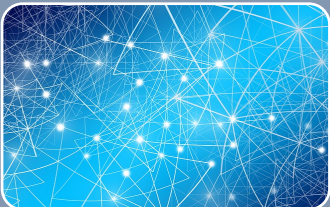
Participation to Horizon Europe and ERA (Partnerships, Missions, Widening, ERA Policy Actions etc.)



Access to international Research Organizations and facilities (CERN, EMBL etc.)



Bilateral and Multilateral R&D Cooperation



Support International Networking of Business and Research Organizations



COUNTRY PERFORMANCE IN HORIZON 2020

Even better performance in H2020 Vs FP7

Horizon 2020 Key Figures

Participation
5 421 ^{2.54%}
of EU total

Number of organisations involved in H2020 projects. One organisation participating in N

Net EU Contribution
1,69B ^{2.76%}
of EU total

Funding received by the project's participants after deduction of their linked third parties' funding

Applications
34.487 ^{3.91%}
of EU total

Number of organisations applying for Horizon 2020 grants. One organisation applying in N proposals

Success rate
13,43% ^{11.98%}
EU average

Ratio of the retained proposals to the total number of eligible proposals received

SME Participation
1 299 ^{23.96%}
of country total

Number of SMEs involved in H2020 projects. One SME participating in N projects is counted N times

SME Net EU Contribution
359,9M ^{21.27%}
of country total

Total funding received by SME participants after deduction of their linked third parties' funding

ERC Principal Investigators
36 ^{0.45%}
of EU total

MSCA Participation
580 ^{2.17%}
of EU total

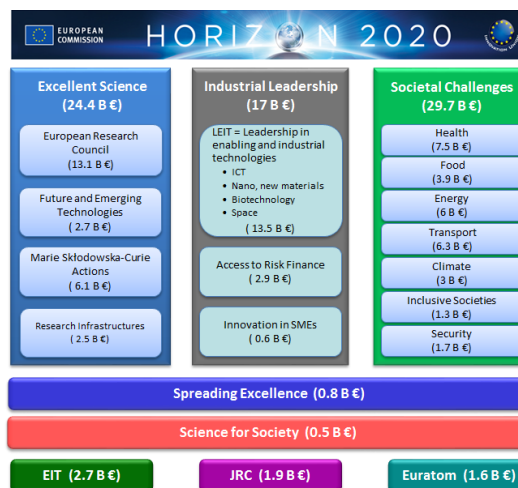
Participation in Horizon 2020

Participation rank
8 out of 28^{EU}

Ranking position based on the participations in H2020, for a country in its country group

Budget share rank
11 out of 28^{EU}

Ranking position based on funding received from H2020, for a country in its country group



#8 out of 28 in participations – #11 out of 28 in budget allocation

Participation in Horizon 2020

Participation rank
8 out of 28^{EU}

Ranking position based on the participations in H2020, for a country in its country group

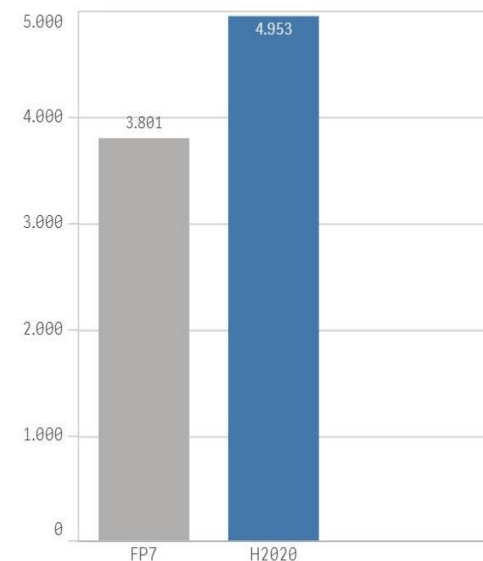
Budget share rank
11 out of 28^{EU}

Ranking position based on funding received from H2020, for a country in its country group

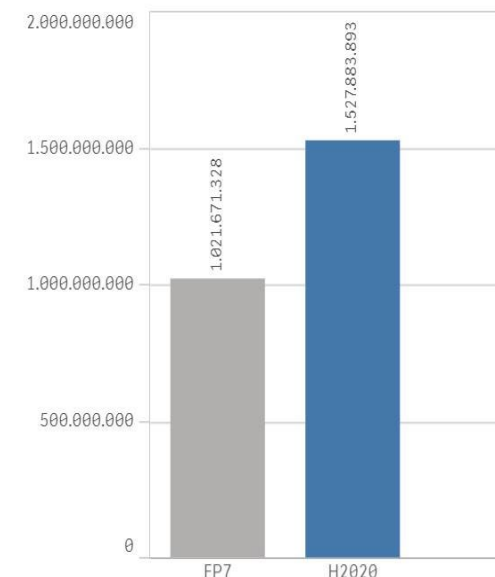
Participation in Programmes - Greece

Participation in Programmes - Greece

Participation across Programmes



EU Contribution (EUR) across Programmes



Participation to European Partnerships



Art. 187 TFEU

High Performance Computing-HPC JU

Key Digital Technologies – KDT-JU



Art. 185 TFEU

PRIMA – Partnership for Research and Innovation in the Mediterranean Area



Co-funded Partnerships/1° wave (Driving Urban Transition, Clean Energy Transition, Biodiversa+, Blue Bio, Water4All, Innovative SMEs, ERA4Health, THCS)

Co-programmed Partnerships (European Open Science Cloud – EOSC, Chemical Risk Assessment – PARC)

Current Bilateral and Multilateral R&D Cooperation Programs



Greece - Germany

24 active projects co-funded by the GSRI and BMBF

2+2 scheme (1 research organization +1 private enterprise from each country)



Greece – Israel

8 active projects co funded by GSRI and ISERD

1 private enterprise from each country +/- research organisation



Greece – China

23 active projects co-funded by GSRI and MOST



USA, Latin America, 3+1 (Greece, Cyprus, Israel +USA)



Bilateral and Multilateral R&D Cooperation Programs

**Who can
participate
?**

**Higher Education Institutions, Research & Technological
Organisations, Private Enterprises, NGOs**

Budget

**Program budget: jointly agreed upon – typically 2-10 m € (3 years)
Project Funding : jointly agreed upon – typically 100-250 K € /
project**

Timeline

**Launching of Joint Call (open for 2 months) (to be mutually agreed)
National Evaluation – peer review - Joint Committee
Duration of projects : 2-3 years**

Participation to European Partnerships, Bilateral and Multilateral Programs

Key features

- Joint priority setting
- Common time frame of funding and implementation

Challenges

- Combination of different funding rules and procedures
- Different audit requirements
- Need for revision of national legal framework
- Human resource requirements

Positive developments

- GBER revision (2021), art. 25©, art. 25 d
- Similar timeframe of Horizon Europe and Structural Funds
- Central Management of Financial Contributions
- **New! Commission notice – Synergies between H-E and ERDF**

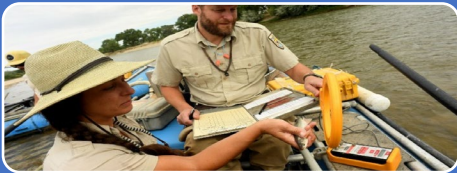
ERA Policy Actions

POSSIBILITY TO HOP-ON OR HOP-OFF AT A LATER STAGE



ERA Policy Action 1

Enable the open sharing of Knowledge and the re-use of research outputs, including through the development of the European Science Cloud (EOSC)



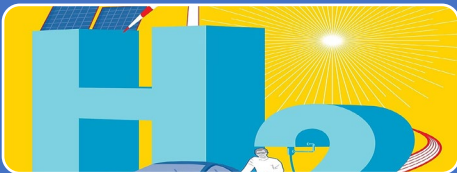
ERA Policy Action 4

Promote attractive and sustainable research careers, balanced talent circulation and international, transdisciplinary and inter-sectoral mobility across the ERA



ERA Policy Action 10

Make EU Missions and Partnerships key contributors to ERA



ERA Policy Action 11

ERA for Green Transformation: Green Hydrogen



ERA Policy Action 14

Bring Science Closer to the Citizens : Plastic Pirates



HELLENIC REPUBLIC
MINISTRY OF DEVELOPMENT AND INVESTMENTS

GSRI

GENERAL SECRETARIAT FOR
RESEARCH AND INNOVATION



Thank you!

For more information
<https://gsri.gov.gr/en>

