

# A coherent approach for Research and Innovation in Greece

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HELLENIC REPUBLIC  
Ministry of Education,  
Research and Religious Affairs



RESEARCH  
& INNOVATION



**GERT**  
GENERAL SECRETARIAT FOR  
RESEARCH AND TECHNOLOGY

# Research and Innovation in times of crisis

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- ❑ to contribute to the country's strategy for development and growth
- ✓ **Transforming the model of economy - Towards a knowledge-based economy and society**
- ❑ to support society and foster reason and hope
- ❑ to create opportunities for the highly-educated

**Our strong advantage : the PEOPLE**

# Building the knowledge-based economy

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- ❑ Human capacity building – Support the people and infrastructure - Policies for young researchers
- ❑ Support blue-sky research and the pursuit of excellence
- ❑ Law-making / dealing with bureaucracy
- ❑ Increase the public expenditures in R&D
- ❑ Increase the private sector share to R&D - Support scientific innovation & synergies with entrepreneurship
- ❑ New funding schemes
- ❑ Science diplomacy: Greece as an international center of education, science and culture

# ⇒ Support of the human capital

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## ❑ The brain drain/waste phenomena - a policy mix

**Causes:** Depreciation of labor, unemployment, lack of perspectives for a career, only low-skilled jobs available

**Results:** In 2009-2014, the number of researchers left abroad increased by a factor of 10 compared to previous 5-year periods (*Bloomberg, June 2015*)

*“Emigration of Greek nationals increased following the economic crisis. Migrant flows to other OECD countries grew by 160% between 2010 and 2012, while 2013 data show a small decline. More than two thirds of these went to Germany. Although the migration rate of the highly educated for Greece is low (6%) compared with most other European countries, should it continue, the brain drain may become an issue. More than 27 000 recent Greek emigrants had at least a university degree, representing 60% of all recent emigrants from Greece”* (*OECD, Greece Policy Brief, 2016*)

# ⇒ Law-making

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- ✓ New law for Research: Regulations of the governance model and the internal life of research institutions
- ✓ Regulation of the implementation mechanisms of research projects
- ✓ Improvements in young researchers position in research projects / establishment of grant contracts
- ✓ Interventions regarding bureaucracy through the structural funds and state aid funding
- ✓ Taxation benefits for companies for investing in research infrastructure
- ✓ The law for the new Hellenic Foundation for Research and Innovation

# The new Hellenic Foundation for Research and Innovation (HFRI)

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**A new public institution:** At arms length from political authorities  
**Stakeholders:** Organizations with a strong academic profile

- PhD Students
- Post-Doctoral fellows
- Research Projects
- Equipment/ Infrastructure
- Science in Society

- Criteria:**
- Thematic and regional independent selection
  - Pursue of scientific quality and excellence

- Support blue-sky research in Greece
- Funding: 240 M€/3y (EIB:180 M€, public investm. :60 M€)
- Grants for researchers (~4000/3y)
- Funding in 2017 ~650 PhD students, ~500 postdocs**

# ⇒ Increase the public R&D expenditure

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❑ R&D intensity, 2016: **0,99%** GDP(0,97% in 2015)

❑ The share of private sector **increased by 28,7%**

*(preliminary data of the National Documentation Center, R&D metrics 2016)*

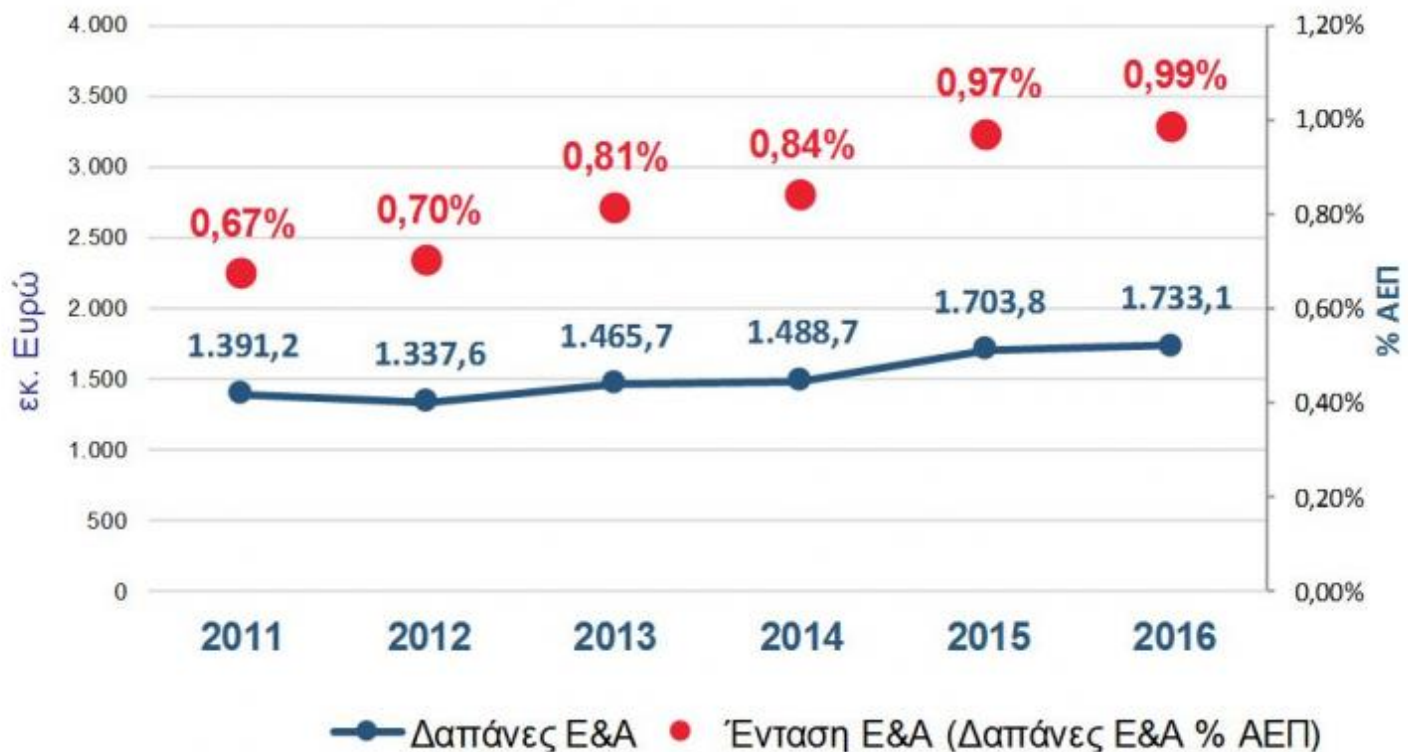
✓ *The public expenditure increased by ~**30%** in 2016 (~ 200 M €)*

✓ *1000 new posts for academia and 100 new posts for research institutions, 2017-2018*

✓ *Increase of public investment from 97 M€ in 2014 to 148 εκ. € in 2016*

# R&D total expenditure (% GDP) 2011-2016

**Δαπάνες Ε&Α και Ένταση Ε&Α (Δαπάνες Ε&Α ως % του ΑΕΠ), 2011 - 2016**



Πηγή: ΕΚΤ (<http://metrics.ekt.gr/statistika-etak/datatables>, κωδικός στοιχείων: Δ1, Δ2)



## ⇒ R&I in the private sector

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### ❑ Low participation of skilled and educated personnel

*Per 1000 people, **1,31** researchers work in private sector in Greece, against **4,48** in OECD countries (A. Cenci, Innovation: the European Journal of Social Science Research, 28, 443, 2015)*

### ❑ The share to the total R&D investment: ~30-35%, 2015

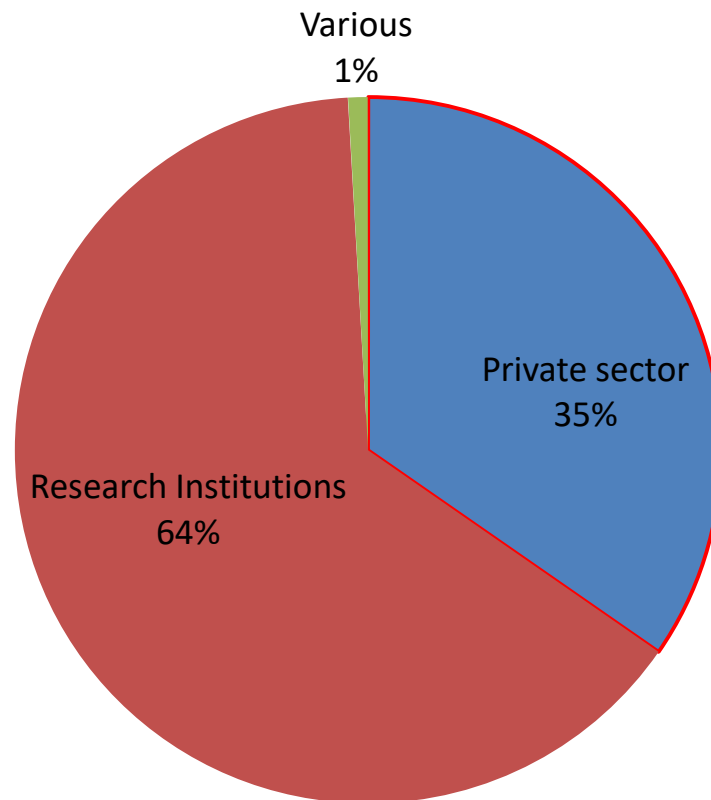
- To support R&D departments in private sector, especially in SMEs
- To work in non-saturated areas of R&I and to areas of comparative advantage

# Aiming at the increase of the private sector involvement in Research & Innovation

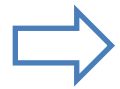
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- ⇒ Facilitating and funding R&I synergies between private sector (companies R&D depts, startups, spinoffs) and public research organizations
- ⇒ Thematic priorities - Greece in the world's map
- ⇒ **Quality jobs for highly-educated and skilled people**
  
- New knowledge and innovation embedded in:
  - ⇒ existing or novel products and services
  - ⇒ value chains with a comparative advantage (agro food, tourism, history, culture)

# Structural funds 2007-2013: distribution of public expenditure of R&D projects



Source : GSRT data: 30/3/2017



# R&I funding schemes

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## Horizon 2020

Greek researchers are up-to-know really competitive: Greece ranks 11th among the 28 EU member-states in funding (2016).

## Structural funds 2014–2020

- ❑ R&I projects of ~1.2b€ / 9000 quality job positions for “young” scientists
- ❑ Support of synergies between companies and research organizations / Technological Parks
- ❑ Support of startups and R&D depts
- ❑ Networking of SMEs for R&I
- ❑ Incubators, Accelerators, TTOs

Bureaucracy, thematic priorities of smart specialization RIS3

**One NATIONAL RIS3 and 13 REGIONAL RIS3**

Different funding percentage per Region

## Structural Funds, 2017

KRIPIS II	30 M€
1 <sup>st</sup> CYCLE OF E-D-K (2400 proposals)	420 M€
RESEARCH INFRASTRUCTURES	81 M€
<b>SPECIFIC PROJECTS</b>	
• CIVILIZATION & TECHNOLOGY	24,25 M€
• AQUACULTURE	15/11/2017
• <b>INDUSTRIAL MATERIALS</b>	
R&T BILATERALS	
• GREECE-GERMANY	9 M€
• GREECE-RUSSIA	2 M€
• GREECE-CHINA	9 M€
• GREECE-ISRAEL	9 M€
ERANETS	4,5 M€
MONITORING R&I	4,5 M€
<b>TOTAL</b>	<b>~594 M€</b>

### New Calls :

- 2<sup>nd</sup> Cycle E-D-K:** support of companies R&D
- Competence Centers:** Build-up of R&I networks in value chains
- Innovation Clusters :** companies clustering
- Seal of Excellence for SMEs:** (SME Instrument – H2020)
- Structures for innovation and entrepreneurship in Universities and Research Institutions:** creating synergies
- Foundation of spin offs, spin outs**

Pls join the “entrepreneurial discovery” of the GSRT!

# EquiFund: a Fund of Funds

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An new important instrument for the knowledge-based economy

- ❑ Co-investment of min. **260 M€**  
By the Greek government and the EIF
- ❑ Support of research innovation: A new funding mechanism **the INNOVATION WINDOW**

- ✓ [www.gsrt.gr](http://www.gsrt.gr)
- ✓ [www.eyde-etak.gr](http://www.eyde-etak.gr)
- ✓ [www.espa.gr](http://www.espa.gr)
- ✓ [www.antagonistikotita.gr/epanek/](http://www.antagonistikotita.gr/epanek/)
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**Thank you for your kind attention !**



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