Η πρόταση της Ε. Επιτροπής για το νέο πρόγραμμα πλαίσιο για την Έρευνα & Καινοτομία
Ορίζοντας – Ευρώπη (2021-2027)

Δρ. Μ. Χριστούλα
Διεύθυνση Διεθνούς Επιστημονικής και Τεχνολογικής Συνεργασίας

Χρηματοδοτικές ευκαιρίες για την Έρευνα και Καινοτομία στον τομέα της Υγείας
ΕΙΕ, 11/9/2018
Agenda

- Κύρια σημεία της πρότασης της Ε. Επιτροπής για τον Ορίζοντα Ευρώπη (2021-2027)
- Χρονοδιάγραμμα – επόμενα βήματα
- Συνοπτικά στοιχεία για την ελληνική συμμετοχή στον Ορίζοντα 2020
- Διαβούλευση για τη διαμόρφωση εθνικών θέσεων
Commission proposal for
Horizon Europe
THE NEXT EU RESEARCH & INNOVATION PROGRAMME (2021 – 2027)

#HorizonEU

Jean-Eric Paquet
Horizon Europe

is the Commission proposal for a €100 billion programme investing in research and innovation for seven years (2021-2027), including Euratom:

- to strengthen the EU's scientific and technological bases
- to boost Europe's innovation capacity, competitiveness and jobs
- to deliver on citizens' priorities and sustain our socio-economic model and values

€4.1 billion are proposed to be allocated for defence research, in a separate proposal for a European Defence Fund.
Lessons Learned from Horizon 2020 Interim Evaluation

- Support breakthrough innovation
- Create more impact through mission-orientation and citizens' involvement
- Strengthen international cooperation based on reciprocity
- Reinforce openness whilst safeguarding EU interests
- Rationalise the funding landscape

Key Novelties in Horizon Europe

- European Innovation Council
- R&I Missions
- Extended association and international cooperation possibilities
- Open science policy
- New approach to Partnerships
Horizon Europe evolution not revolution!

Specific objectives of the Programme

- Support the creation and diffusion of high-quality knowledge
- Strengthen the impact of R&I in supporting EU policies
- Foster all forms of innovation and strengthen market deployment

Optimise the Programme’s delivery for impact in a strengthened ERA

**Pillar 1** Open Science
- European Research Council
- Marie Skłodowska-Curie Actions
- Infrastructures

**Pillar 2** Global Challenges and Industrial Competitiveness
- Health
- Inclusive and Secure Society
- Digital and Industry
- Climate, Energy and Mobility
- Food and natural resources
- Joint Research Centre

**Pillar 3** Open Innovation
- European Innovation Council
- European innovation ecosystems
- European Institute of Innovation and Technology

Strengthening the European Research Area
- Sharing excellence
- Reforming and Enhancing the European R&I system
Budget of Horizon Europe: € 100 billion*

* This envelope includes EUR 3.5 billion allocated under the InvestEU Fund.
Pillar 1
OPEN SCIENCE:
reinforcing and extending the excellence of the Union's science base

European Research Council
- Frontier research by the best researchers and their teams

Marie Skłodowska-Curie Actions
- Equipping researches with new knowledge and skills through mobility and training

Research Infrastructures
- Integrated and inter-connected world-class research infrastructures

€ 16.6 billion
€ 6.8 billion
€ 2.4 billion
**Pillar 2**

**Global Challenges & Industrial Competitiveness:**
boosting key technologies and solutions underpinning EU policies & Sustainable Development Goals

<table>
<thead>
<tr>
<th>Clusters</th>
<th>Budget (€ billion)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health implemented through usual calls, missions &amp; partnerships</td>
<td>€ 7.7</td>
</tr>
<tr>
<td>Inclusive and Secure Society</td>
<td>€ 2.8</td>
</tr>
<tr>
<td>Digital and Industry</td>
<td>€ 15</td>
</tr>
<tr>
<td>Climate, Energy and Mobility</td>
<td>€ 15</td>
</tr>
<tr>
<td>Food and Natural Resources</td>
<td>€ 10</td>
</tr>
<tr>
<td><strong>Joint Research Centre</strong></td>
<td><strong>€ 2.2</strong></td>
</tr>
</tbody>
</table>
supports European policies with independent scientific evidence & technical support throughout the policy cycle
CLUSTER 1: Health

Intervention areas:

1. Health throughout the life course
2. Environmental and Social Health Determinants
3. Non-Communicable and Rare Diseases
4. Infectious Diseases
5. Tools, Technologies and Digital Solutions for Health and Care
6. Health Care Systems
What is new?

- Digitalisation and personalisation of health and care cut across all intervention areas

- Health economics and health systems are key for uptake of results and achieving impact

- Patient-centered solutions and technologies for health and care call for integrated approaches from medicines to medical devices (supported in Horizon 2020 under the pillar ‘Leadership in Enabling and Industrial Technologies’)

Next steps

**Ongoing**
Parliament and Council negotiations on Union budget 2021-2027, including budget for Horizon Europe

**From 7 June**
Parliament and Council negotiations on the basis of the Commission proposal for Horizon Europe

**2nd half 2018/2019**
Strategic programming to prepare first work programmes under Horizon Europe, including co-design of missions and setting up of partnerships

**01/01/2021**
Envisaged start of Horizon Europe
Follow us and keep up to date via:

#HorizonEU

@Moedas @EUScienceInnov @EU_H2020 @HorizonMagEU

https://www.facebook.com/EUScienceInnov/
https://www.facebook.com/cmoedas/

Horizon Europe dedicated website
http://ec.europa.eu/horizon-europe

European Innovation Council
http://ec.europa.eu/research/eic

EU budget for the future
http://ec.europa.eu/budget/mff/index_en.cfm

v. 25 June 2018
Η Ελληνική συμμετοχή στον Ορίζοντα 2020

11η θέση/27 με > 700 εκ. €

Στοιχεία εγκεκριμένης χρηματοδότησης έως 31/5/2018

- ΣΥΝΟΛΟ: 2,48%
- Σημαντική συμμετοχή στο Έδαφος Υγείας (2,05%)
- Οι κατηγορίες χρηματοδότησης που εξαπλώνουν την προσθική συμμετοχή της Ελλάδας περιλαμβάνουν:
  - Επικαιροποιημένα και Εξαιρετικά Τεχνολογίες (Advanced Manufacturing)
  - Δικτύα Προσεγγίσεων και Επιστημονικού Πληροφορικής (ICT)
  - Ανεξαρτήτως Μεταβλητές και Αυτοκίνησης (Advanced Materials)
  - Δομικά Συστήματα και Επικοινωνίες (Research Infrastructures)
  - Σταθεράς Μελετής και Αναπτυξιακές Δραστηριότητες (Marie Skłodowska-Curie Actions)
  - Επιτροπή Επιστημονικής Διακυβέρνησης Ευρωπαϊκής Κοινότητας (Europena Research Council)
  - Εκπληκτικά Επιστημονικά (Excellent Science)

Στοιχεία εγκεκριμένης χρηματοδότησης έως 31/5/2018:

- Οικονομική βάση για την επεξεργασία των επιτυχημένων έργων και την ενίσχυση των επιστημονικών δραστηριοτήτων.

- Η Ελλάδα επεκτείνει τις προσωπικές και οικονομικές συνεργασίες με συμμετοχή στον Ορίζοντα 2020.

- Στην έρευνα και την παραγωγικότητα, η Ελλάδα επιχειρεί να ανοίξει δρόμους για την ανάπτυξη και την επιτυχία.
Έναρξη ανοιχτής διαβούλευσης για τη διαμόρφωση εθνικών θέσεων

Στην ιστοσελίδα της ΓΓΕΤ: www.gsrt.gr
Έως 3/10/2018

Ευχαριστώ για την προσοχή σας!
m.christoula@gsrt.gr
Backup slides
Pillar 3
OPEN INNOVATION:
stimulating market-creating breakthroughs and ecosystems conducive to innovation

European Innovation Council
- Support to innovations with breakthrough and market creating potential

European innovation ecosystems
- Connecting with regional and national innovation actors

European Institute of Innovation and Technology (EIT)
- Bringing key actors (research, education and business) together around a common goal for nurturing innovation

€ 10.5 billion, incl. up to € 500 million for ecosystems
€ 3 billion
European Innovation Council

Support to innovations with breakthrough and disruptive nature and scale up potential that are too risky for private investors.

- **European Innovation Council**
  - Helping innovators create markets of the future, leverage private finance, scale up their companies, innovation centric, risk taking & agile, proactive management and follow up

Two complementary instruments bridging the gap from idea to investable project

- **Pathfinder**: grants (from early technology to pre-commercial)
- **Accelerator**: grants & blended finance (from pre-commercial to market & scale-up)
From Horizon 2020 to Horizon Europe

- From 13 parts to 5 clusters
- From 69 activity lines to 39 intervention areas

**LEIT**
- Information and Communication Technologies (ICT)
- Nanotechnologies
- Advanced materials
- Biotechnology
- Advanced manufacturing and processing
- Space

**Societal Challenges**
- Health, demographic change and well-being
- Food security, sustainable agriculture and forestry, marine, maritime and inland water research, and the bio-economy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, environment, resource efficiency and raw materials
- Europe in a changing world – Inclusive, innovative and reflective societies

**Clusters**
- Health
- Inclusive and Secure society
- Digital and Industry
- Climate, Energy and Mobility
- Food and Natural Resources
CLUSTER 1: Health

Everyone has the right to timely access to affordable healthcare of good quality (EU Pillar of Social Rights, UN SDGs).

Newly emerging or persisting health challenges:

- **Threats to citizens and public health:** rise of non-communicable diseases; spread of antimicrobial drug resistance; emergence of infectious epidemics; health risks in a rapidly changing social, urban and natural environment

- **Sustainability of social and health care systems:** increasing costs for European health care systems; lack of effective health promotion and disease prevention; persistence of health inequalities, affecting disproportionately the vulnerable

- **Competitiveness of EU's health and care industry:** personalised medicine approaches and digitalisation in health and care; increasing pressure from new and emerging global players in health innovation

These challenges are complex, interlinked and global.
<table>
<thead>
<tr>
<th>No</th>
<th>Acronym</th>
<th>Title</th>
<th>ESFRI relation</th>
<th>funding plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>INFRAFRONTIER-GR / Phenotypos</td>
<td>The Greek Research Infrastructure for Molecular and Behavioral Phenotyping of biological model organisms for chronic degenerative diseases</td>
<td>INFRAFRONTIER</td>
<td>1st batch</td>
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<tr>
<td>2</td>
<td>pMED-GR</td>
<td>The Greek Research Infrastructure for Personalised Medicine Towards more accurate and cost-effective health management for the Greek citizen</td>
<td>-</td>
<td>1st batch</td>
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<tr>
<td>3</td>
<td>BioImaging-GR</td>
<td>A Greek Research Infrastructure for visualizing and monitoring fundamental biological processes</td>
<td>EURO-BioImaging</td>
<td>1st batch</td>
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<tr>
<td>4</td>
<td>Openscreen-GR</td>
<td>An Open-Access Research Infrastructure of Chemical Biology and Target-Based Screening Technologies for Human and Animal Health, Agriculture and the Environment</td>
<td>OpenSCREEN</td>
<td>1st batch</td>
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<tr>
<td>5</td>
<td>ELIXIR-GR</td>
<td>Managing and analyzing biological data</td>
<td>ELIXIR</td>
<td>1st batch</td>
</tr>
<tr>
<td>6</td>
<td>INSPIRED</td>
<td>The National Research Infrastructures on Integrated Structural Biology, Drug Screening Efforts and Drug-target functional characterization</td>
<td>INSTRUCT</td>
<td>1st batch</td>
</tr>
<tr>
<td>7</td>
<td>EATRIS-GR</td>
<td>Infrastructure for preclinical and early-phase clinical development of drugs, therapeutics and biomedical devices</td>
<td>EATRIS</td>
<td>2nd batch</td>
</tr>
<tr>
<td>8</td>
<td>BBMRI -GR</td>
<td>Strategic expansion of the Greek Biobanking Infrastructure</td>
<td>BBMRI</td>
<td>2nd batch</td>
</tr>
</tbody>
</table>
Elements of the multiannual funding plan for RIs

Distribution of RIs per thematic priority

- Transport & Logistics: 1
- Materials & Construction: 3
- ICT: 3
- Health & Pharmaceuticals: 8
- Environment & Sustainable Development: 6
- Energy: 2
- Culture, Tourism & Creative Industries: 1
- Agrofood: 4

Athens, Nov. 2017