

Παρουσίαση του προγράμματος “Ορίζοντας Ευρώπη”

Ενημερωτική Διαδικτυακή Εκδήλωση με τίτλο “Χρηματοδοτικές
ευκαιρίες στον Ορίζοντα Ευρώπη”
*Πανεπιστήμιο Δυτικής Μακεδονίας
Πέμπτη, 2 Δεκεμβρίου 2021*

Τι προσπαθεί να επιτύχει ο Ορίζοντας Ευρώπη



Μέσω της έρευνας και της καινοτομίας





Εξέλιξη του Ορίζοντα 2020

Lessons Learned

from Horizon 2020 Interim Evaluation



Support breakthrough innovation



Create more impact through mission-orientation and citizens' involvement



Rationalise partnerships' landscape



Reinforce openness



Strengthen international cooperation



Encourage participation



Key Novelties

in Horizon Europe

European Innovation Council

EU Missions

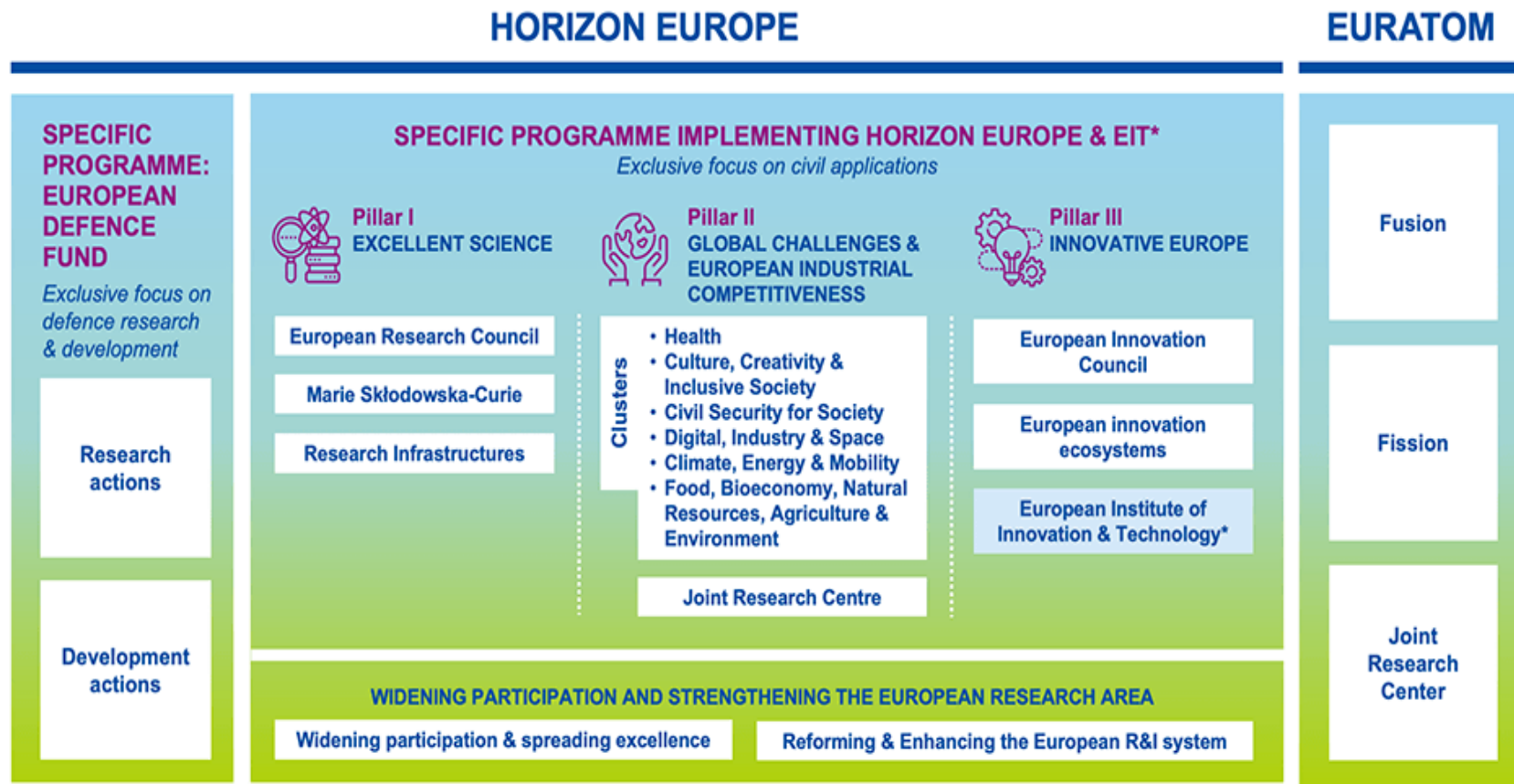
New approach to partnerships

Open science policy

Extended association possibilities

Spreading Excellence

Δομή του νέου Προγράμματος – Πλαίσιο Horizon Europe



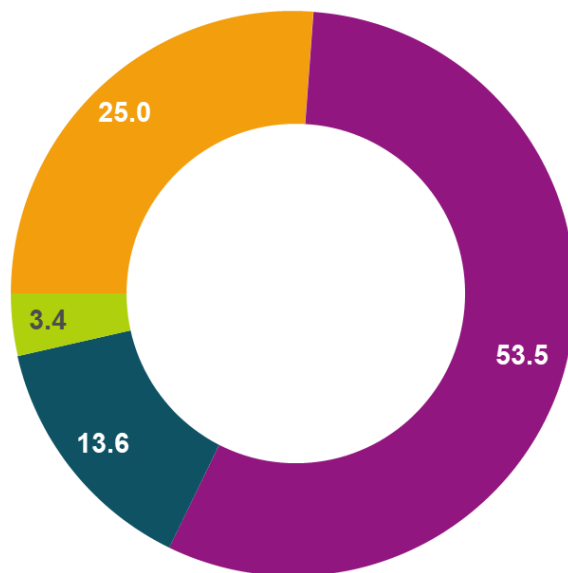
* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme



Τελικός προϋπολογισμός: **€ 95,5 δις.**

Horizon Europe Budget: €95.5 billion (2021-2027)

(including €5.4 billion from NGEU – Next Generation Europe – programme of EU for Recovery from COVID-19 crisis)



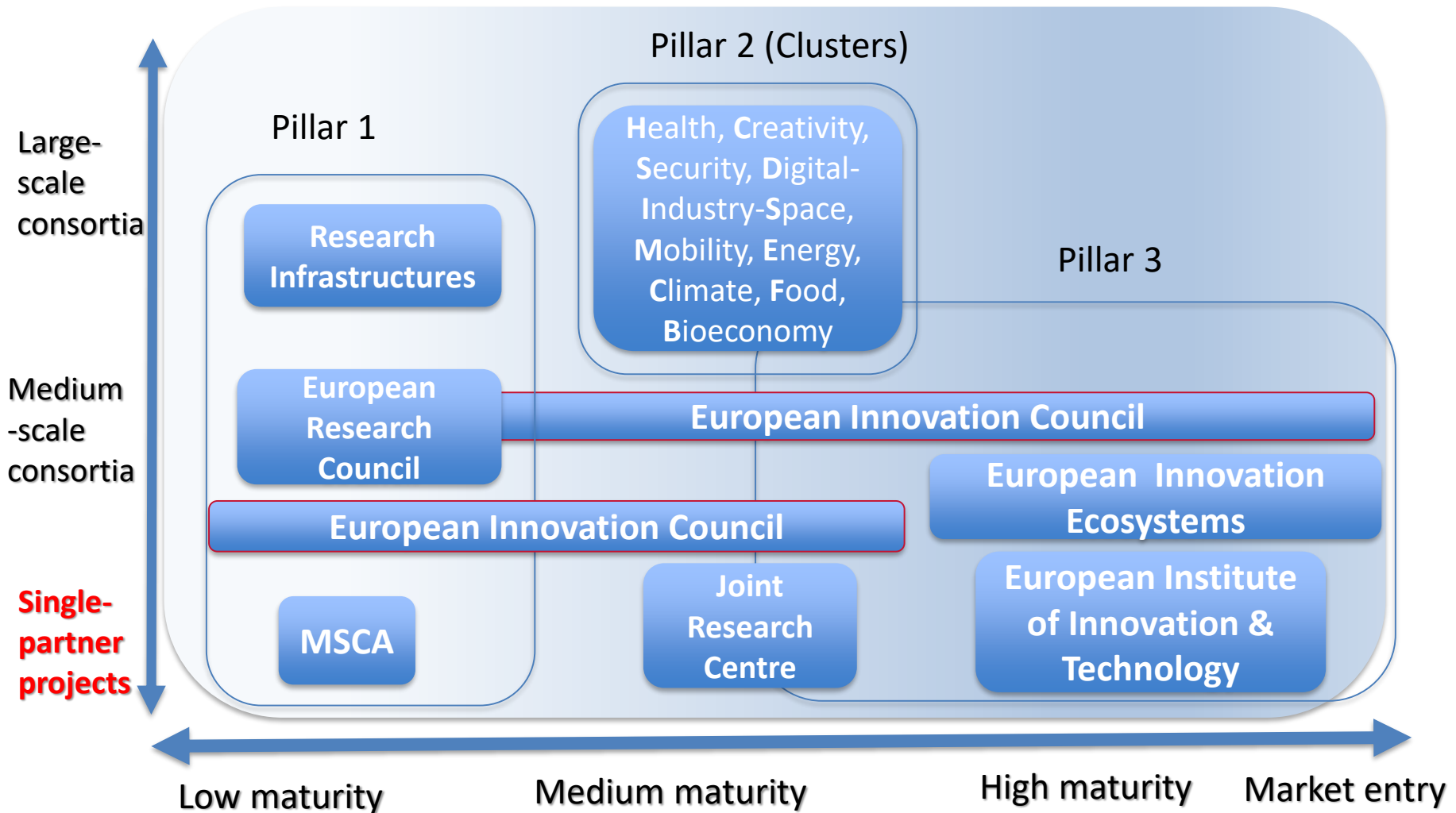
Political agreement December 2020

€ billion in current prices

- Excellent Science
- Global challenges and European ind. comp.
- Innovative Europe
- Widening Part and ERA



Βασικός προσανατολισμός





Πυλώνας 1: Επιστημονική Αριστεία

Pillar I

EXCELLENT SCIENCE:

reinforcing and extending the **excellence of the Union's science base**

European Research Council

Frontier research by the best researchers and their teams

€16 billion

Marie Skłodowska-Curie Actions

Equipping researchers with new knowledge and skills through mobility and training

€6.6 billion

Research Infrastructures

Integrated and inter-connected world-class research infrastructures

€2.4 billion

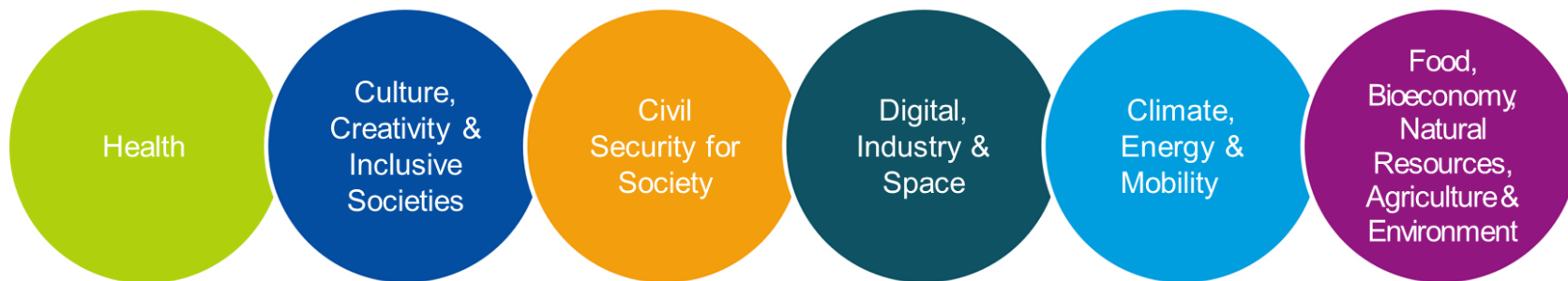


Πυλώνας 2: Παγκόσμιες Προκλήσεις και Ανταγωνιστικότητα της Βιομηχανίας

Pillar II - Clusters

GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS:

boosting **key technologies** and solutions underpinning **EU policies & Sustainable Development Goals** (6 clusters and JRC – non-nuclear direct actions)



€53.5 billion



Πυλώνας 2: Παγκόσμιες Προκλήσεις και Ανταγωνιστικότητα της Βιομηχανίας

Pillar II

Budget for clusters & for JRC

in current prices

Cluster 1	Health	€8.246 billion (including €1.35 billion from NGEU)
Cluster 2	Culture, Creativity & Inclusive Societies	€2.280 billion
Cluster 3	Civil Security for Society	€1.596 billion
Cluster 4	Digital, Industry & Space	€15.349 billion (including €1.35 billion from NGEU)
Cluster 5	Climate, Energy & Mobility	€15.123 billion (including €1.35 billion from NGEU)
Cluster 6	Food, Bioeconomy, Natural Resources, Agriculture & Environment	€8.952 billion
	JRC (non-nuclear direct actions)	€1.970 billion

Clusters are including a budget for Partnerships and Missions
NGEU is Next Generation EU programme – Recovery Fund



A climate-resilient Europe: Prepare Europe for climate disruptions and accelerate the transformation to a climate resilient and Just Europe

Mission
Starfish 2030:
Restore our
oceans and
Water

Healthy
oceans,
seas,
coastal
and inland
waters



Adaptation to climate
change, including societal
transformation



**Mission
areas**



Cancer

Conquering
Cancer:
Mission
Possible

Climate-neutral
and smart cities



100 Climate Neutral
and Smart Cities by
2030



Soil health
and food

Caring for Soil
is Caring for
Life



Αποστολές Έρευνας και Καινοτομίας

Στόχοι για το 2030

Prepare Europe to deal with **climate disruptions**, assisting citizens, communities and regions

Filling the knowledge gap, regenerating marine and water ecosystems, zero pollution

Support, promote and showcase **100 European cities** in their systemic transformation towards climate neutrality

More than **3 million lives saved**, living longer and better

Ensure **75% of soils** are healthy by 2030 for food, people, nature and climate



Πυλώνας 2: Ευρωπαϊκές Συμπράξεις



New approach to European Partnerships

New generation of objective-driven and more ambitious partnerships in support of agreed EU policy objectives

Key Features

- **Strategic orientation**
- **Systemic approach**
- **Simple architecture and toolbox**
- **Common set of criteria for the life-cycle**

CO-PROGRAMMED

Based on Memoranda of Understanding/contractual arrangements; implemented independently by the partners and by Horizon Europe

CO-FUNDED

Based on a joint programme agreed and implemented by partners; commitment of partners for financial and in-kind contributions

INSTITUTIONALISED

Based on long-term dimension and need for high integration; partnerships based on Art 185/187 of TFEU and the EIT legal acts for 2021-2027



Ενδεικτικές Ευρωπαϊκές Συμπράξεις (προτεινόμενες)

Overview of 49 candidate European Partnerships

HORIZON EUROPE PILLAR II - Global challenges & European industrial competitiveness

CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture, ...
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe
Global Health Partnership	Smart Networks & Services	Clean Aviation	Rescuing Biodiversity to Safeguard Life on Earth
Transformation of health systems	High Performance Computing	Single European Sky ATM Research 3	Climate Neutral, Sustainable & Productive Blue Economy
Chemicals risk assessment	European Metrology (Art. 185)	Europe's Rail	Water4All
ERA for Health	AI-Data-Robotics	Connected and Automated Mobility (CCAM)	Animal Health & Welfare*
Rare diseases*	Photonics	Batteries	Accelerating Farming Systems Transitions*
One-Health Anti Microbial Resistance*	Made in Europe	Zero-emission waterborne transport	Agriculture of Data*
Personalised Medicine*	Clean steel – low-carbon steelmaking	Zero-emission road transport	Safe & Sustainable Food System*
Pandemic Preparedness* <i>Co-funded or co-programmed</i>	Processes4Planet	Built4People	
	Global competitive space systems**	Clean Energy Transition	
		Driving Urban Transitions	

Orange box: Institutionalised Partnerships (Art 185/7)

Green box: Institutionalised Partnerships / EIT KICs

Blue box: Co-Programmed

Light blue box: Co-Funded

* Calls with opening dates in 2023-24

** Calls with opening dates not before 2022

PILLAR III - Innovative Europe

EIT (KNOWLEDGE & INNOVATION COMMUNITIES)	SUPPORT TO INNOVATION ECOSYSTEMS
InnoEnergy	Innovative SMEs
Climate	
Digital	
Food	
Health	
Raw Materials	
Manufacturing	
Urban Mobility	
Cultural and Creative Industries	

CROSS-PILLARS II & III

European Open Science Cloud



Πυλώνας 3: Καινοτόμος Ευρώπη

Pillar III

INNOVATIVE EUROPE:

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

The budget: **€10.6 billion**, incl. up to **€527 million** for ecosystems (including NGEU – Recovery Fund parts dedicated to EIC).

circa €3 billion



Πυλώνας 3: Ευρωπαϊκό Συμβούλιο Καινοτομίας (EIC)

European Commission

eic INNOVATION
Council

EMPOWERING EUROPEAN INNOVATORS

The EIC story

"Europe does not yet have a world class scheme to support the very best innovations in the way that the European Research Council is the global reference for supporting excellent science. So I would like us to take stock of the various schemes to support innovation and SMEs under Horizon 2020, to look at best practice internationally, and to design a new European Innovation Council."

Carlos Moedas, European Commissioner for Science & Innovation, June 2015.

Research and Innovation



Πυλώνας 3: Ευρωπαϊκό Συμβούλιο Καινοτομίας (EIC)



European Innovation Council

Support to innovations with breakthrough and disruptive nature and scale up potential that are too risky for private investors (**70% of the budget earmarked for SMEs**)

**European
Innovation Council –
a one-stop-shop**

- Helping researchers and innovators create markets of the future, leverage private finance, scale up their companies
- Innovation centric, risk taking & agile, pro-active management and follow up
- Mostly 'bottom up', but also targeting strategic challenges
- EIC Programme Managers to develop visions for breakthroughs and steer portfolios

Complementary instruments bridging the gap from idea to market

PATHFINDER

R&I grants
(from early technology
to proof of concept)

TRANSITION

R&I grants
(proof of concept to
pre-commercial)

ACCELERATOR

**Grants & investment (via EIC Fund) for
single SMEs & start-ups**
(from pre-commercial to market & scale-up)



Ευρωπαϊκό Ινστιτούτο Τεχνολογίας και Καινοτομίας (EIT)



European Institute of
Innovation & Technology

Making innovation happen

The EIT is a body of the European Union



What is the EIT?

The European Institute of Innovation and Technology (EIT) drives innovation in Europe by supporting entrepreneurs, innovators and students across Europe to turn their best ideas into reality.

How does the EIT work?



Trains a new
generation of
entrepreneurs

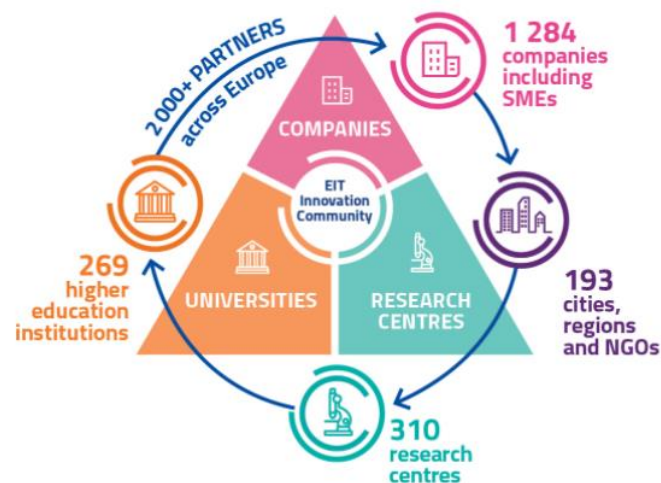


Develops
innovative
products
and services



Power
start-ups
& scale-ups

Europe's largest innovation community



Οριζόντιες δράσεις

Widening Participation & Strengthening the European Research Area (ERA):

Widening Participation and Spreading Excellence

- Teaming, Twinning, ERA Chairs,
- European Cooperation in Science and Technology (COST)
- Boosting National Contact Points' (NCPs) activities, pre-proposal checks and advice
- Brain circulation
- Excellence initiatives:-
- Possibility for entities from widening countries to join already selected collaborative R&I actions
- Recognition of participation
- Matchmaking services

€2.96 billion

Reforming and enhancing the EU R&I system

- Strengthening the evidence base for R&I policy
- Foresight
- Support for policy makers to the ERA development
- Support to national R&I policy reform, including Policy Support Facility
- Attractive researcher careers and links with higher education
- Open science, citizen science and science communication
- Gender equality
- Ethics and integrity
- Support to international cooperation
- Scientific input to other policies
- Support to the Programme implementation
- Support for National Contact Points
- Support to dissemination & exploitation

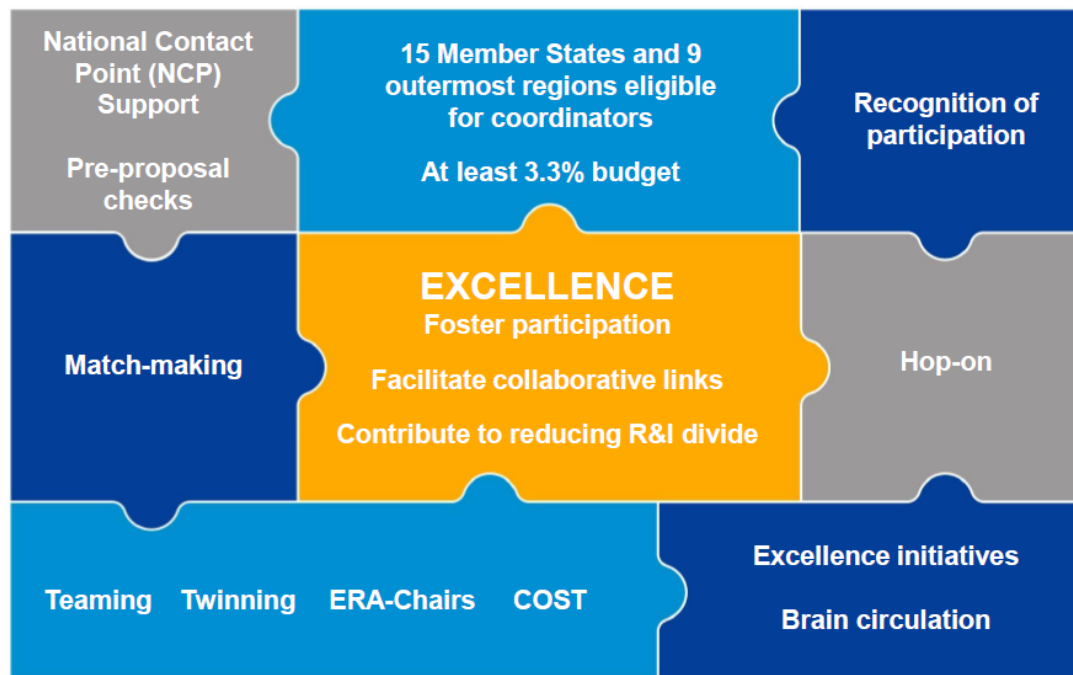
€0.44 billion



Διεύρυνση της συμμετοχής και επέκταση της αριστείας



Widening participation/spreading excellence

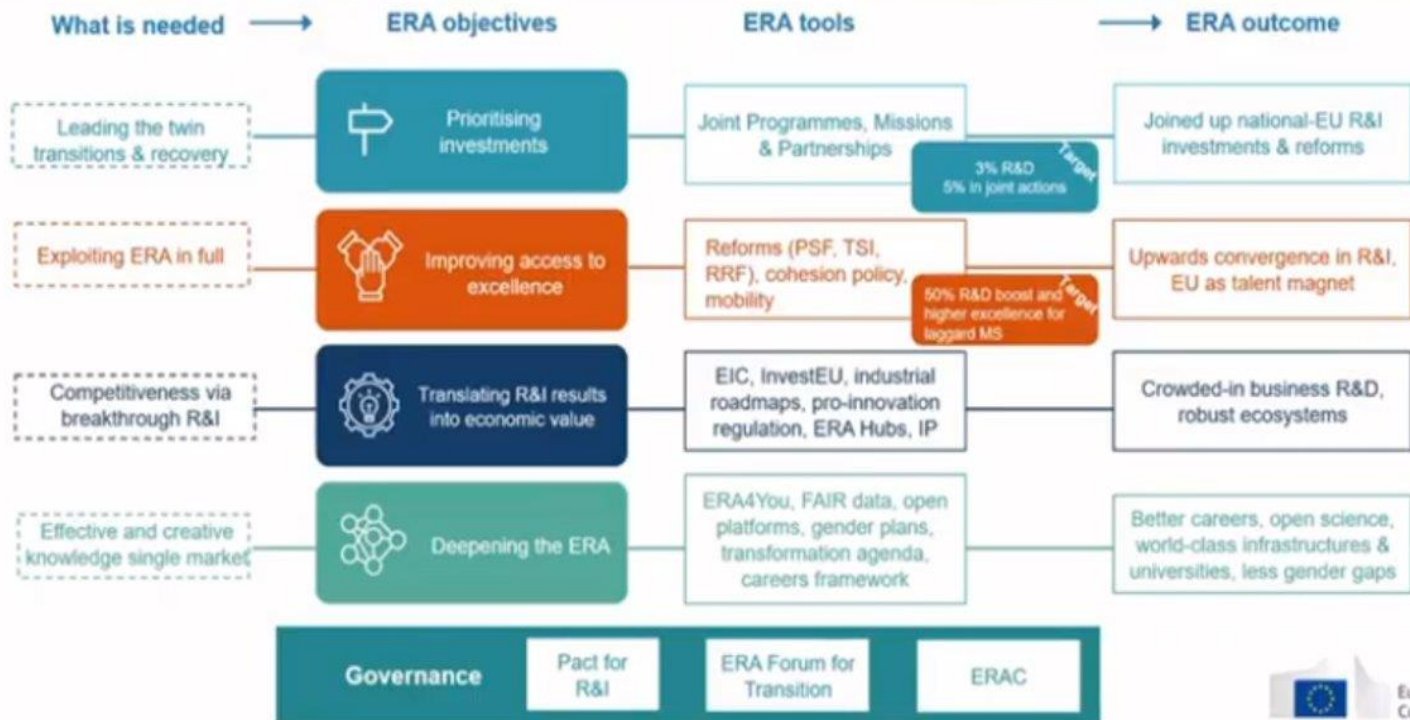


Νέο status της Ελλάδας-χώρα 'widening'- νέες ευκαιρίες



Ο νέος Ευρωπαϊκός Χώρος Έρευνας και ο Οριζοντάς Ευρώπη

A stronger ERA for the Future





Νέα διαδικτυακή πύλη για τον Ορίζοντα Ευρώπη από το Δίκτυο ΠΡΑΞΗ

<http://horizoneurope.gr/>

Framework Programmes Consultation Platform

ΓΓΕΚ
ΓΕΝΙΚΗ ΓΡΑΜΜΑΤΕΙΑ
ΕΡΕΥΝΑΣ ΚΑΙ ΚΑΙΝΟΤΟΜΙΑΣ

πράξη »
δίκτυο διάχυσης τεχνολογίας

HORIZON EUROPE
2021-2027

ΤΟ ΠΡΟΓΡΑΜΜΑ ΝΕΑ & ΕΚΔΗΛΩΣΕΙΣ ΥΠΟΣΤΗΡΙΞΗ ΔΗΜΟΣΙΕΥΣΕΙΣ ΕΠΙΚΟΙΝΩΝΙΑ 🔍

Νέα | 16-02-2021

Save the Date! “EU R&I Days”: Η εμβληματική εκδήλωση για την έρευνα και την καινοτομία πραγματοποιείται στις 23-24 Ιουνίου



Χρήσιμοι σύνδεσμοι

- › Horizon Europe: https://ec.europa.eu/info/horizon-europe_en
- › R&I Missions (incl. reports): https://ec.europa.eu/info/horizon-europe/missions-horizon-europe_en
- › Partnerships for R&I: https://ec.europa.eu/info/horizon-europe/european-partnerships-horizon-europe_en
- › Open science policy: https://ec.europa.eu/info/research-and-innovation/strategy/goals-research-and-innovation-policy/open-science_en
- › EU approach to sustainable development: https://ec.europa.eu/info/strategy/international-strategies/sustainable-development-goals/eu-holistic-approach-sustainable-development_en
- › European Innovation Council: <https://ec.europa.eu/research/eic/index.cfm>
- › European Institution of Innovation and Technology: <https://eit.europa.eu/>
- › Knowledge and Innovation Communities: <https://eit.europa.eu/our-communities/eit-innovation-communities>
- › European Open Science Cloud: <https://eosc-portal.eu/>

Σας ευχαριστώ για την
προσοχή σας!



Κατερίνα Παπαδούλη

National Contact Point | Horizon Europe Cluster 6 "Food, Bioeconomy, Natural
Resources, Agriculture and Environment"

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   praxinetwork