

Commission proposal for **Horizon Europe**

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)

#HorizonEU

KRZYSZTOF NALEPA

**20 lat Polski w Programach Ramowych Badań i
Innowacji UE. Horyzont 2020 - nowe otwarcie**

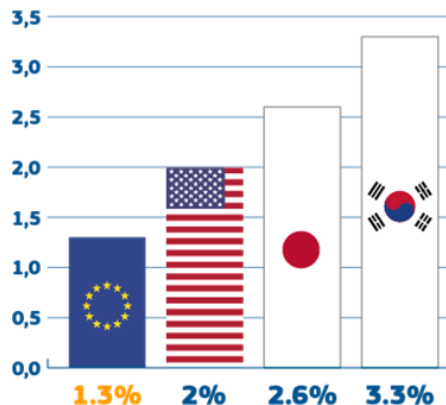
7 czerwca 2018



Europe has world-class research and strong industries

Our knowledge and skills are our main resources.

- 7% of the world's population
- 20% of global R&D
- 1/3 of all high-quality scientific publications



1.3%
EU business
R&D investment

but Europe fails to transform leadership in science into leadership in innovation and entrepreneurship

Horizon Europe

is the Commission proposal for a **€ 100 billion** research and innovation funding programme for seven years (2021-2027)



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

Additional **€ 4.1 billion** are proposed to be allocated for defence research, which is specified in the European Defence Fund that is subject to a distinct and complementary proposal.

Horizon Europe: investing in R&I to shape our future

- The vision:
 - “ a Europe that protects,
a Europe that empowers,
a Europe that defends”
Jean-Claude Juncker
- Tackling **climate change**
(35 % budgetary target)
- Helping to achieve **Sustainable Development Goals**
- Boosting the Union's **competitiveness and growth**

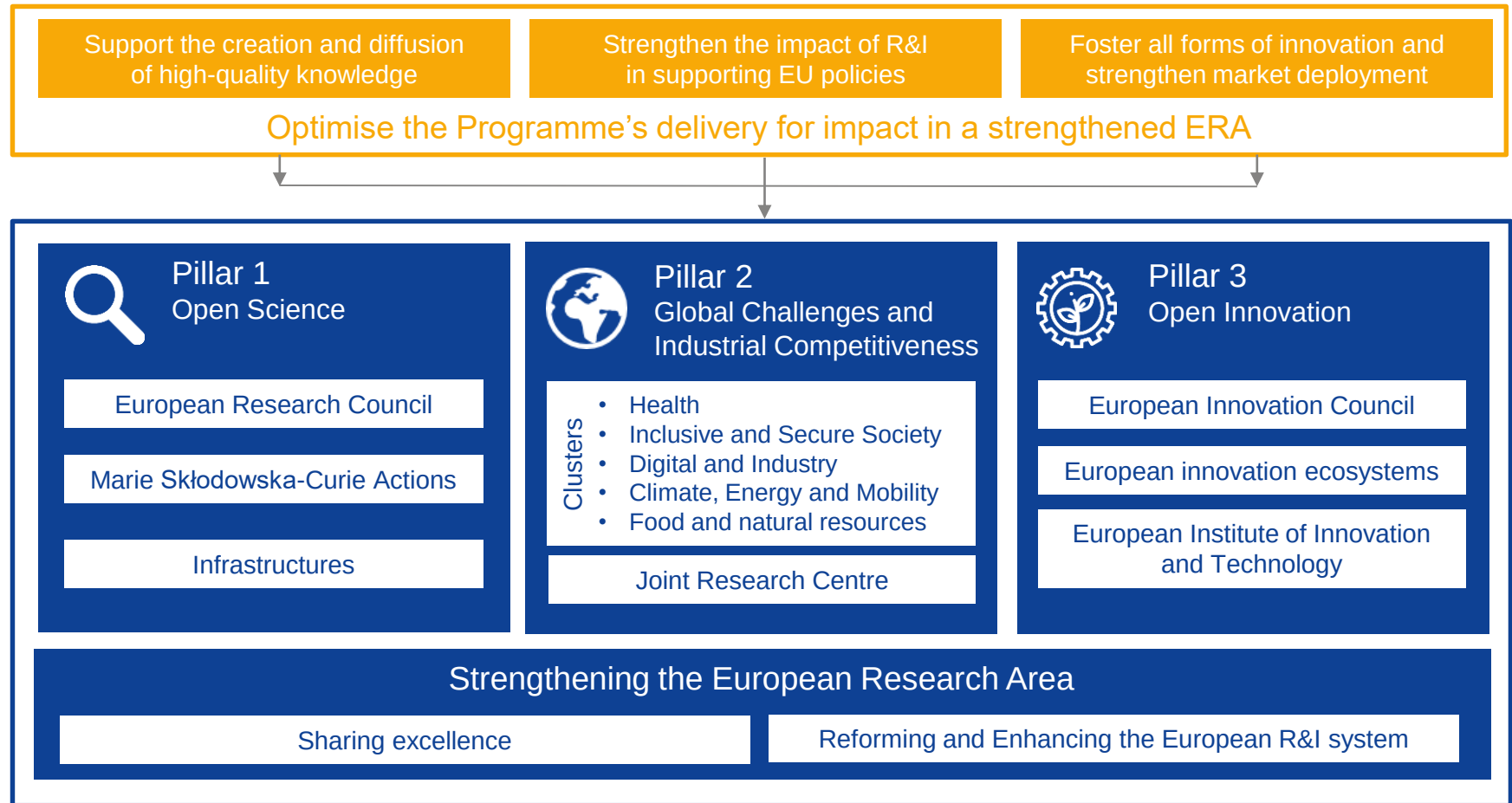


Credits: <https://www.un.org/sustainabledevelopment/sustainable-development-goals/>

Horizon Europe – What?

Horizon Europe evolution not revolution!

Specific objectives of the Programme



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

Global Challenges & Industrial Competitiveness:

boosting key technologies and solutions underpinning
EU policies & Sustainable Development Goals

Clusters implemented through usual calls, missions & partnerships	2021-24
Health	
Inclusive and Secure Societies	
Digital and Industry	
Climate, Energy and Mobility	
Food and Natural Resources	
Joint Research Centre supports European policies with independent scientific evidence & technical support throughout the policy cycle	

OPEN INNOVATION:

stimulating market-creating breakthroughs and ecosystems conducive to innovation

European Innovation Council

- Support to innovations with breakthrough and market creating potential

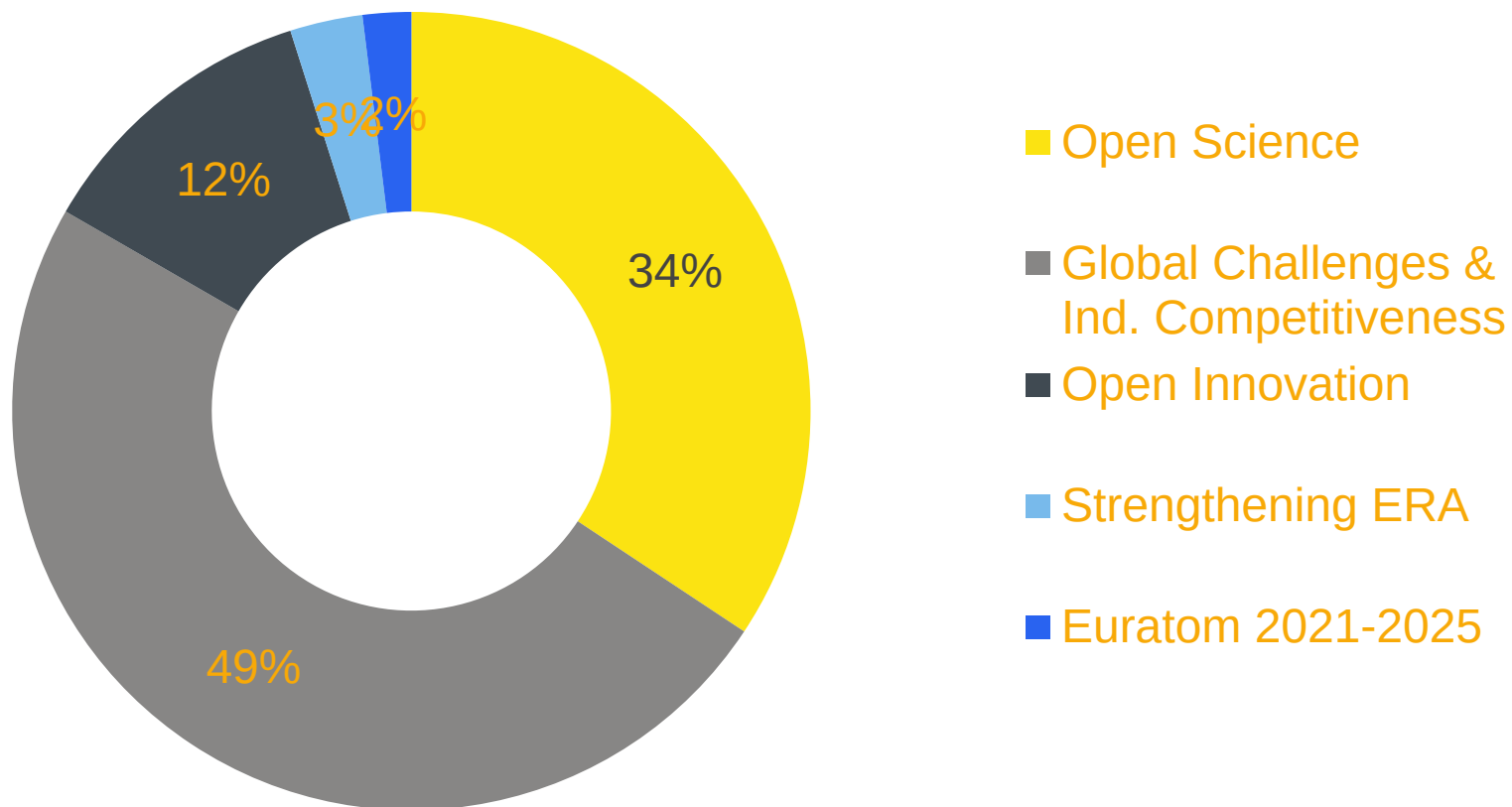
European innovation ecosystems

- 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

Budget*

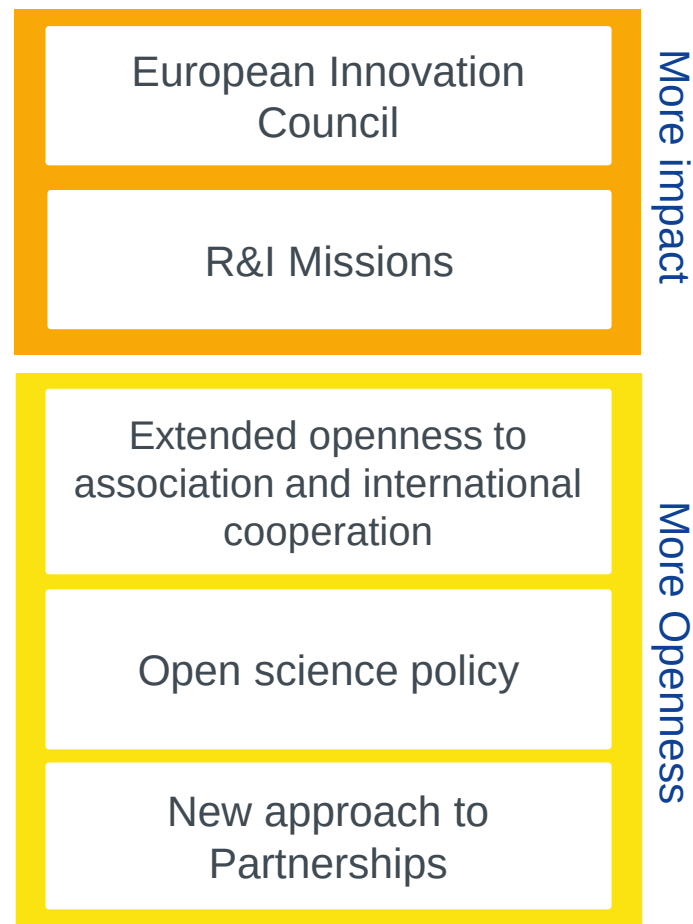


* In addition, this envelope includes EUR 3.5 billion allocated under the InvestEU Fund.

Horizon Europe – What's new?

Key Novelties

[See Impact Assessment]





European Innovation Council

The EIC will support innovations with breakthrough and disruptive nature and scaleup 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, pro-
active 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)



R&I Missions

R&I Missions

Connecting to citizens: Missions will relate EU's research and innovation to society and citizens' needs, with strong visibility and impact

A mission will consist of a portfolio of actions intended to achieve **a bold and inspirational as well as measurable goal** within a set timeframe, with impact for science and technology, society and citizens that goes beyond individual actions

Horizon Europe proposal defines mission characteristics and criteria

Specific missions will be **co-designed with Member States, stakeholders and citizens** and programmed within the Global Challenges and Industrial Competitiveness pillar (drawing on inputs from other pillars)

Five 'missions'

1. Quantum
2. Beating cancer
3. Healthy Oceans
4. Clean cities
5. Sustainable land

Suggested mission areas and titles draw from the analysis of position papers of the Mazzucato feedback report.



International Cooperation effort of unprecedented scale

International Cooperation

Will ensure effective tackling of global societal challenges; access to the world's best talents, expertise and resources; enhanced supply and demand of innovative solutions

Extended openness to association

- Third countries with good capacity in science, technology and innovation
- Taking into account objective of driving economic growth in Europe through innovation
- General opening for international participation
- Intensified targeted actions (flagship initiatives, joint calls, etc.)



Open Science across the programme

- Encouraging uptake of **Open Science practices** through earmarked funding, including to enhance **researcher skills** in Open Science and support **reward systems** that promote it
- **FAIR** (findable, accessible, interoperable, re-usable) and **Open Data**: research data is open by default (with opt-out possibilities) and a data management plan is obligatory
- **Open Access** to publications: no reimbursement of article processing charge (APC) for publications in hybrid journals
- **Monitoring system** to ensure compliance with Horizon Europe provisions



New approach to European Partnerships

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

Key features

- **Simple architecture and toolbox**
- **Coherent life-cycle approach**
- **Strategic orientation**

Co-programmed

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

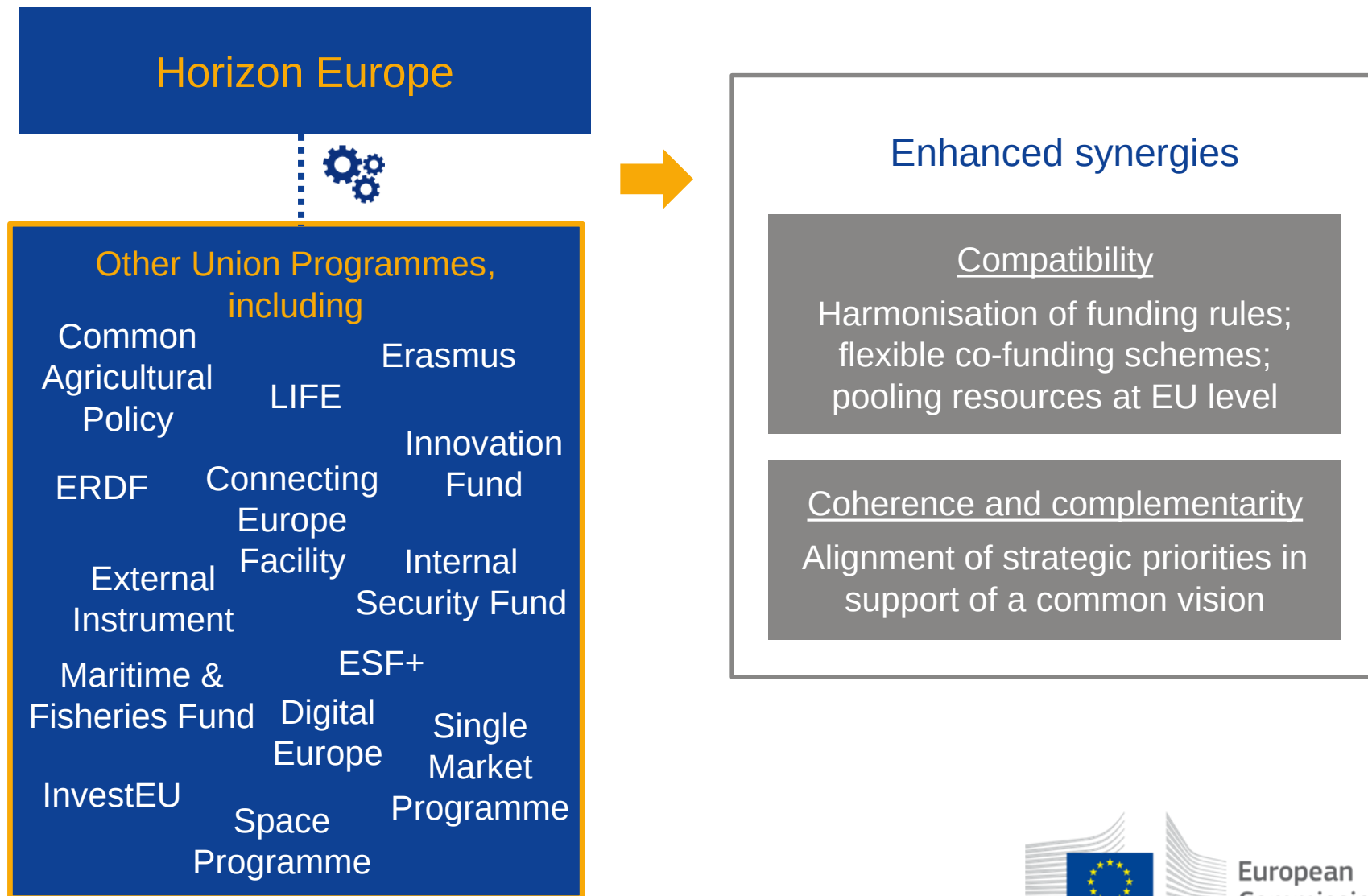
Co-funded

Based on a joint programme agreed by partners; commitment of partners for financial and in-kind contributions & financial contribution by Horizon Europe

Institutional

Based on long-term dimension and need for high integration; partnerships based on Articles 185 / 187 of TFEU and the EIT-Regulation supported by Horizon Europe

Synergies with other Union programmes



Next steps



Kampania informacyjna



**STRATEGIA
NA HORYZONT**
POLSKIE UCZELNIE



- Inicjatywa KPK PB UE we współpracy z Regionalnymi Punktami Kontaktowymi i **KRASP**
- Cel: optymalne **wykorzystanie możliwości**, jakie oferują konkursy w ostatnich trzech latach H2020, z uwzględnieniem **nowych zasad wynagradzania** oraz **strategiczne przygotowanie** do PR Horyzont Europa
- Spotkania z **udziałem kierownictwa uczelni oraz dyrektorów biur obsługi projektów** poświęcone mobilizacji na rzecz zwiększenia udziału w H2020 (*ERC, MSCA, Widening*)
 - za nami: *Warszawa, Poznań, Kraków, Gliwice, Łódź, Gdańsk, Wrocław, Olsztyn, Białystok, Rzeszów*
 - przed nami: *Szczecin, Lublin*
- Spotkania w regionach dotyczące **nowych zasad wynagradzania** w H2020
- Warsztaty „**Tworzenie optymalnego środowiska w instytucji do aplikowania o granty European Research Council**” (*Warszawa, Kraków, Wrocław*)

2018

**Konferencja „20-lecie Polski w Programach Ramowych B&I UE
– Horyzont 2020 - nowe otwarcie”, Warszawa, 7 czerwca**

**Nagroda Kryształowej Brukselki 2018
6 czerwca**



Europejskie Forum Technologiczne, Katowice, 26-27 września
Spotkanie KRASP z Komisarzem C. Moedas

Polish Position Paper on Future Framework Programme

– presented in April 2017 in Brussels

Strategic approach

- Contribution to sustainable development of **ERA** - “**Excellence**” and “**effective and open participation model for all**”
- **Securing Europe’s global competitiveness**
 - possible only when using **excellence and full intellectual capital** of all EU countries in collaboration with non-EU partners
 - contribution to a single EU market for research and innovation through **increasing market up-take** of innovations across all European regions

Widening instruments

- **New Widening Package** based on the experiences of FP7 RegPot and existing Widening schemes – with better use of excellent **research infrastructures** build through ESIF
- **Horizontal widening instruments integrated** in all parts of Horizon Europe.

Remuneration rules

- New remuneration rules need to be carefully evaluated in terms of its **simplicity and audit resilience**. If evaluated positively, they should serve as a basis for **Horizon Europe**.

Aktywizacja polskich ekspertów

- **Wzrost udziału polskich ewaluatorów wniosków w H2020 w porównaniu do 7PR**
- **Wysoka pozycja Polski w konsultacjach dotyczących oceny śródkresowej H2020 (120 opinii)**
- **Udział polskich przedstawicieli w pracach HLG Lamy'ego i HLG ds. EIC**
- **Zmiana zasad wynagradzania**
- **Przygotowanie Stanowiska polskich ekspertów do 9. PR UE (prezentacja Stanowiska w Brukseli, 25.04.2017 r.)**
- **Zaangażowanie krajowych ekspertów w ramach grup doradczych KPK do H2020 - wprowadzenie do wybranych konkursów na lata 2018-2020 korzystnych dla nas zapisów i instrumentów**

Nowe możliwości w WP2018-2020

- nowe zasady wynagradzania
- pilot **European Innovation Council (EIC)**
- **nowy instrument – Widening Fellowships** - możliwość finansowania dodatkowych dobrze ocenionych stypendiów indywidualnych, gdzie instytucja goszcząca ulokowana jest w jednym z tzw. *Widening countries*
- **zapisy dotyczące szerszej reprezentacji geograficznej, zrównoważonego udziału wszystkich regionów i synergii z programami krajowymi**
- **projekty typu Coordinating and Support Actions**, mające na celu wykorzystanie potencjału nowych krajów członkowskich
- **Wprowadzenie kryterium selekcji dla szerokiego włączenia tzw. *widening countries*** do konkursów Teaming2, Twinning, ERA-Chairs, a także w ERA-Net Cofund **Quantera**

Polska w H2020 - typy organizacji

HES - Higher or secondary education

PRC - Private for profit (excluding education)

PUB - Public body (excluding research and edu)

REC - Research organisations

OTH - Other

