



Valsts izglītības
attīstības aģentūra

EU Framework Programmes for Research & Innovation

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NACIONĀLAIS
ATTĪSTĪBAS
PLĀNS 2020



EIROPAS SAVIENĪBA
Eiropas Reģionālās
attīstības fonds

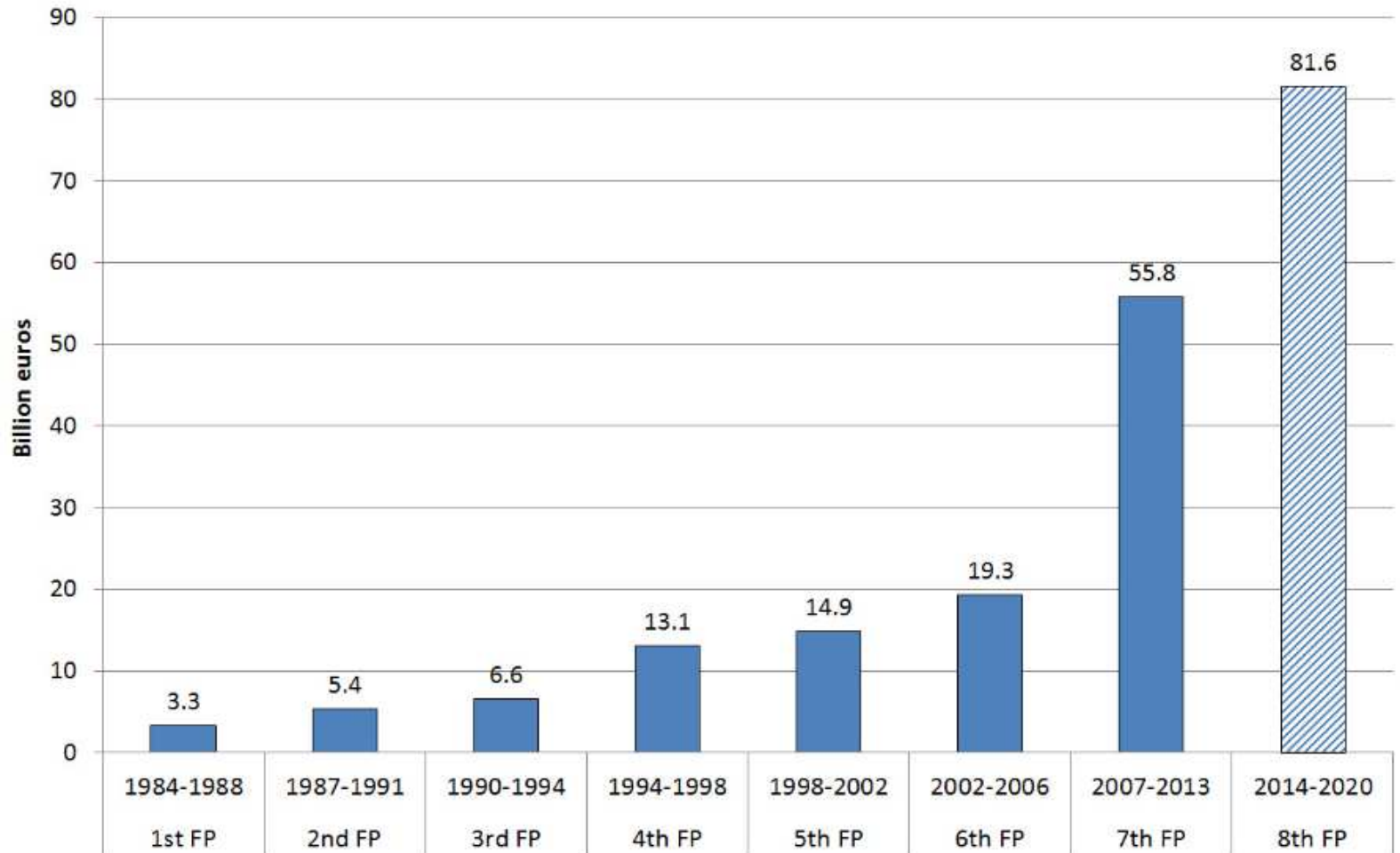
IEGULDĪJUMS TAVĀ NĀKOTNĒ

1.1.1. specifiskā atbalsta mērķa "Palielināt Latvijas zinātnisko institūciju pētniecisko un inovatīvo kapacitāti un spēju piesaistīt ārējo finansējumu, ieguldot cilvēkresursos un infrastruktūrā" 1.1.1.5. pasākuma "Atbalsts starptautiskās sadarbības projektiem pētniecībā un inovācijās" 1.kārtas, projekta Nr.1.1.1.5/17/I/001 "Atbalsts starptautiskās sadarbības projektu izstrādei un īstenošanai" ietvaros



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Since 1984, EC research and technological development activities have been supported by a series of **Framework Programmes (FP)**





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FP8 - HORIZON 2020

1. Excellent Science

European Research
Council

Future and Emerging
Technologies

Marie Curie Actions

Research Infrastructures

2. Industrial Leadership

Leadership in Enabling &
Industrial Technologies

- Information and communication technologies
- Nanotechnologies
- advances materials
- biotechnology
- advanced manufacturing and processing
- space

Access to Risk Finance

Innovation in SME

3. Societal Challenges

7 Challenges

- Health, Demographic Change and Wellbeing
- Food security, sustainable agriculture and maritime research and the bio-economy
- Secure, Clean and Efficient Energy
- Smart, Green and Integrated Transport
- Climate Action, Resource Efficiency and Raw Materials
- Europe in a changing world: Inclusive, Innovative and Reflective Societies
- Secure Societies – Protecting Freedom and Security of Europe and its Citizens Reflective Societies

Joint Research Centre
(JRC)

Widening
Participation

Science with and
for Society

European Institute of
Innovation and
Technology (EIT)

Joint Programming
P2P

Joint Technology
Initiatives (JTIs)
P2B



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Further information about H2020?



- **NCP network** (National Contact Points)
- **Participant Portal**
<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>
- **Learn more about Horizon 2020**
<http://ec.europa.eu/horizon2020>

HORIZON 2020



This presentation shall neither be binding nor construed as constituting commitment by the European Commission

Types of actions



"Type of Actions / Support mechanisms"

RIA: *Research & Innovation Action*

IA: *Innovation Action*

Prototyping, testing, demonstrating, piloting,...

May include limited R&D activities

CSA: *Coordination & Support Action (less to no R&D)*

SME instrument: *3-phase instrument (feasibility study, innovation project, indirect support for commercialisation)*



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#InvestEUresearch

Horizon 2020 Work Programme for Research & Innovation 2018-2020

€1,3 billion
Food security, sustainable agriculture and forestry,
marine, maritime and inland water research and the
bioeconomy

This presentation does not engage the Commission,
please refer to the official documents.

Research and
Innovation

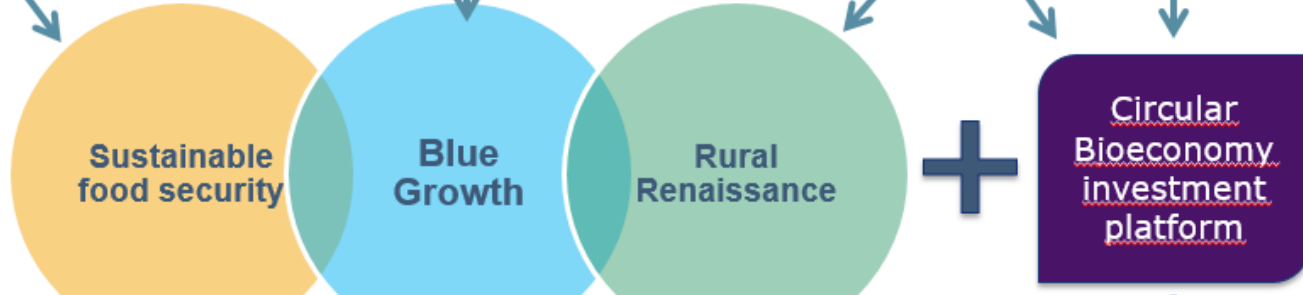
5 priorities

- Foster functional ecosystems, sustainable food systems, and healthy lifestyles
- Address climate change and resilience on land and sea
- Boost major innovations on land and at sea → new products, value chains and markets
- Develop smart, connected territories and value chains in rural and coastal areas
- Make the transition towards a circular bioeconomy

3 goals

- Manage our resources wisely to nourish people sustainably
- Understand, preserve and valorise oceans
- Develop smarter, greener, circular rural economies

3 calls + FI



Key impacts

- Dynamic & innovative food and farming sectors
Resource & climate-smart eco-healthy food production and consumption
- Productive, healthy, resilient seas and oceans
Sustainable aquatic resources for food and bio-based value chains
Strong blue economy
- Sustainable growth based on circularity and connectedness
Enhanced innovation systems
Strong & attractive rural areas
- De-risking investments in innovative technologies fostering industrial, rural and coastal development



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Performance of Latvia in Horizon 2020

0.29% of total EC contribution

Food security, sustainable agriculture and forestry, marine and maritime and inland water research

Year	Proposals	Eligible		Not eligible		Above threshold		Granted		EC Contribution (EUR)	Success rate (%)
2014	25	24	14 (FOOD) 4 (BBI) 6 (SME)	1	1 (FOOD)	13	12 (FOOD) 1 (BBI)	8	7 (FOOD) 1 (BBI)	1 403 936,25	32,00%
2015	54	54	33 (FOOD) 6 (BBI) 15 (SME)			26	21 (FOOD) 5 (SME)	6	5 (FOOD) 1 (SME)	671 158,93	11,11%
2016	30	29	25 (FOOD) 2 (BBI) 3 (SME)	1	1 (SME)	10	10 (FOOD)	9	9 (FOOD)	1 436 417,71	30,00%
2017	59	58	44 (FOOD) 6 (BBI) 8 (SME)	1	1 (FOOD)	26	24 (FOOD) 2 (BBI)	8	7 (FOOD) 1 (BBI)	924 823,73	13,56%
2018	33	33	33 (FOOD)			14	14 (FOOD)	9	9 (FOOD)	1 849 404,76	27,27%
TOTAL	201	198		3		89		40		6 285 741,38 €	



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EC contribution from H2020 vs. National R&D expenditure

Country	*H2020 annual grant €m	#R&D expenditure 2016 €m	
EL	167	1,733	9.64%
PT	119	2,348	5.07%
ES	662	13,307	4.97%
IE	126	3,243	3.89%
NL	552	14,281	3.87%
BE	350	10,518	3.33%
LU	19	659	2.88%
IT	608	21,611	2.81%
FI	163	5,926	2.75%
UK	1,051	40,451	2.60%
DK	187	7,967	2.35%
AT	210	10,906	1.93%
SE	258	15,141	1.70%
FR	776	48,643	1.60%
DE	1,174	92,419	1.27%
EU15	6,422	289,153	2.22%
CY	28	91	30.77%
EE	27	270	10.00%
LV	11	110	10.00%
MT	5	61	8.20%
SI	43	809	5.32%
BG	14	375	3.73%
HR	13	388	3.35%
HU	46	1,372	3.35%
LT	9	286	3.15%
RO	25	818	3.06%
SK	19	641	2.96%
PL	68	4,112	1.65%
CZ	46	2,963	1.55%
EU13	354	12,296	2.88%
EU28	6,776	301,449	2.25%

**From H2020 to Horizon Europe – Monitoring Flash # Eurostat*



The table compares the annual value of H2020 grants for the first 4.5 years of H2020 with total expenditure on R&D by country

It is often claimed that the newer EU Member States (EU13) receive too little FP7 and H2020 funding compared with the older Members States (EU15).

Although the EU13 account for only 5.2% of H2020 grants to EU Member States, these grants represent a high proportion of their national R&D expenditure.

Source: Singleimage, In-touch with H2020 September 2018



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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

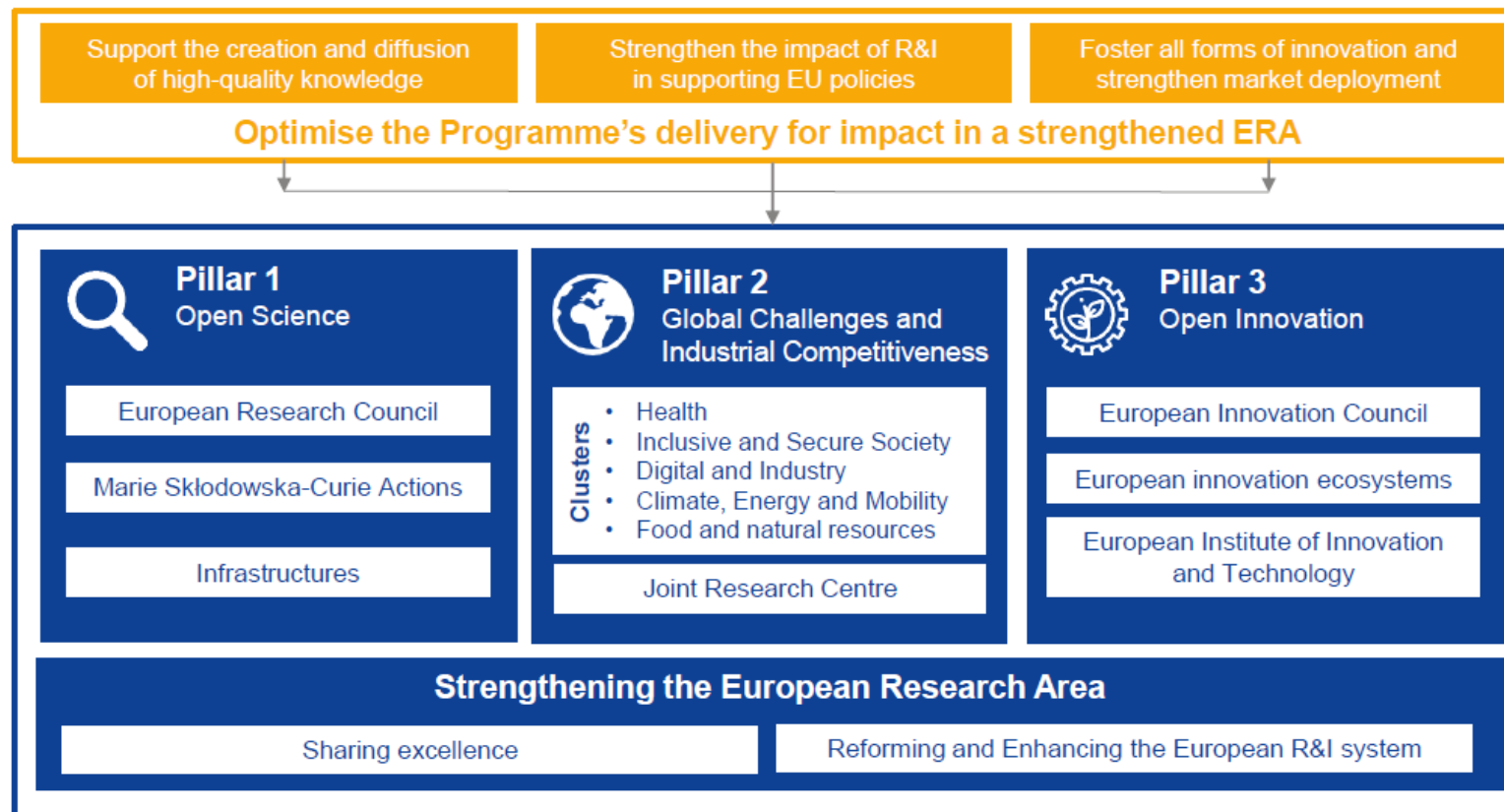


to deliver on citizens' priorities and sustain our socio-economic model and values

€ 4.1 billion are proposed to be allocated for defence research, in a separate proposal for a European Defence Fund

Horizon Europe: evolution not revolution

Specific objectives of the Programme





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