



# Horizon 2020

## Partnerships and other initiatives supporting ERA

Joerg Niehoff, RTD.B2, 18 September 2017

# European Research Area (ERA) and Framework Programmes (FP)

- FPs **financial pillar** of the Union's actions to create the Innovation Union
  - ERA Framework **policy pillar** creating the right conditions
  - Both are closely interlinked
- Funding measures are **crucial to the realisation of ERA**: effect on coordination and governance, common agenda setting, researcher's mobility and pooling of resources; open access, gender, and, structuring effect on the European landscape of research institutions:
- By establishing a unified single market for research and innovation, the ERA Framework will ensure that financial resources can be used **with full efficiency, effectiveness and impact** across Europe.

# Horizon 2020: Partnership landscape

## Two broad categories of partnerships supported under H2020:

### **Public-Private-Partnerships (PPPs), mainly involving industry:**

- Article 187 initiatives (Joint Undertakings - JUs)
- Contractual PPPs (cPPPs)

### **Public-Public-Partnerships (P2Ps), mainly involving Member States and their programmes:**

- Article 185 initiatives
- ERA-NET Cofund
- EJP-Cofund
- Joint Programming Initiatives (JPIs, established by council conclusions, main support via CSAs and ERA-NET Cofund).

# Horizon 2020: P2P Toolbox and landscape (I)

**Article 185 initiatives:** Article 185 of the Treaty on the Functioning of the European Union (TFEU) allows for Union participation in research programmes undertaken jointly by several Member States, as well as in the structures created for the execution of such joint programmes.

**ERA-NET cofund:** Cofunding a joint call (“EU cofunded call”) between national programmes. In addition to the co-funded call consortia implement other joint activities including other joint calls without Union co-funding.

**European Joint Programme Cofund (EJP Cofund):** Support to coordinated national research and innovation programmes. Pooling a critical mass of national resources on common objectives and challenges and at achieving significant economies of scales by adding related Horizon 2020 resources to a joint effort.

**Coordination and Support Action (CSA):** Use for P2Ps under H2020 mainly limited to supporting JPis (administrative expenditure)

→ **EU support to P2Ps increased from 380 m€ in FP6 (2.1%), to ≈2,500 m€ in Horizon 2020 (3.1%)**

→ **Horizon 2020: Support to P2Ps limited to the priorities of Horizon 2020**

## P2P Toolbox and landscape (II)

Characteristics	Article 185	ERA-NET Cofund	EJP Cofund
Initiator	Member States	Member States	Member States/COM
Establishment	Decision of EP and Council	WP H2020	WP H2020
Main activity	Multiple EU cofunded calls	Single EU cofunded call	Multiannual Joint Programme
EU Contribution - operational costs - administration	Typically 50% - yes - yes	33% - yes - only partially	Typically 50-70% - yes - yes
Duration	Typically 10 years or more	5 years	5 years
Overall budget per initiative [€ million]	100 – 1400	15 – 150	50 – 100 (Euratom: 850)
Total number under H2020 (estimate)	5	≈ 70	≈ 4-6

# Joint Programming Initiatives (JPIs)

- **Member State driven**, established by Council decision outside the Framework Programme
- Resulting in 10 Joint Programming Initiatives
- **Dedicated ERAC configuration (GPC)** responsible for the Joint Programming Process and the 10 JPIs
- **Strongly supported by the Framework Programme:**
  - FP7: 10 Coordination and Support Actions(CSAs) , 2 ERA-NET Plus
  - Horizon 2020: 10 CSAs,  $\approx 20 - 25$  of the ERA-NET Cofunds and  $\approx 2$  of the EJP Cofund
  - Mutual Learning Exercise on the Alignment and Interoperability of Research Programmes

## Main objectives for cross-border cooperation of research funders (P2Ps)

- To facilitate cross border cooperation of researchers
- To raise the quality of research
- To increase the critical mass in certain fields of research (in particular for societal challenges which no MS can tackle alone)
- To increase efficiency of research funding and avoid unnecessary duplication

# P2Ps – why does the Union act?

## Research & technological development - a shared competence

- Art.181 defines a clear responsibility for the Union and the Member States to  
*"coordinate their research and technological development activities so as to ensure that national policies and Union policy are mutually consistent."*
- *"in close cooperation with the Member State, the Commission may take any useful initiative to promote [this] coordination".*

## Framework Programme has been using increasingly Partnership approaches

- Public-Private Partnerships (PPPs), either as Joint Undertakings (Art.187) or contractual PPPs between Industry and Commission
- Public-Public-Partnerships (P2Ps), via ERA-NET, Art.185 or Joint programming Initiatives (JPIs)



# Advantages for researchers

**All P2Ps support research and launch calls for proposals:**

**A good chance to succeed with the proposal**

→ success rates much higher than in H2020 (in many cases 30%)

**Easy to implement**

→ most networks fund successful applicants on the basis of the usual national funding rules

**Facilitates collaboration across borders**

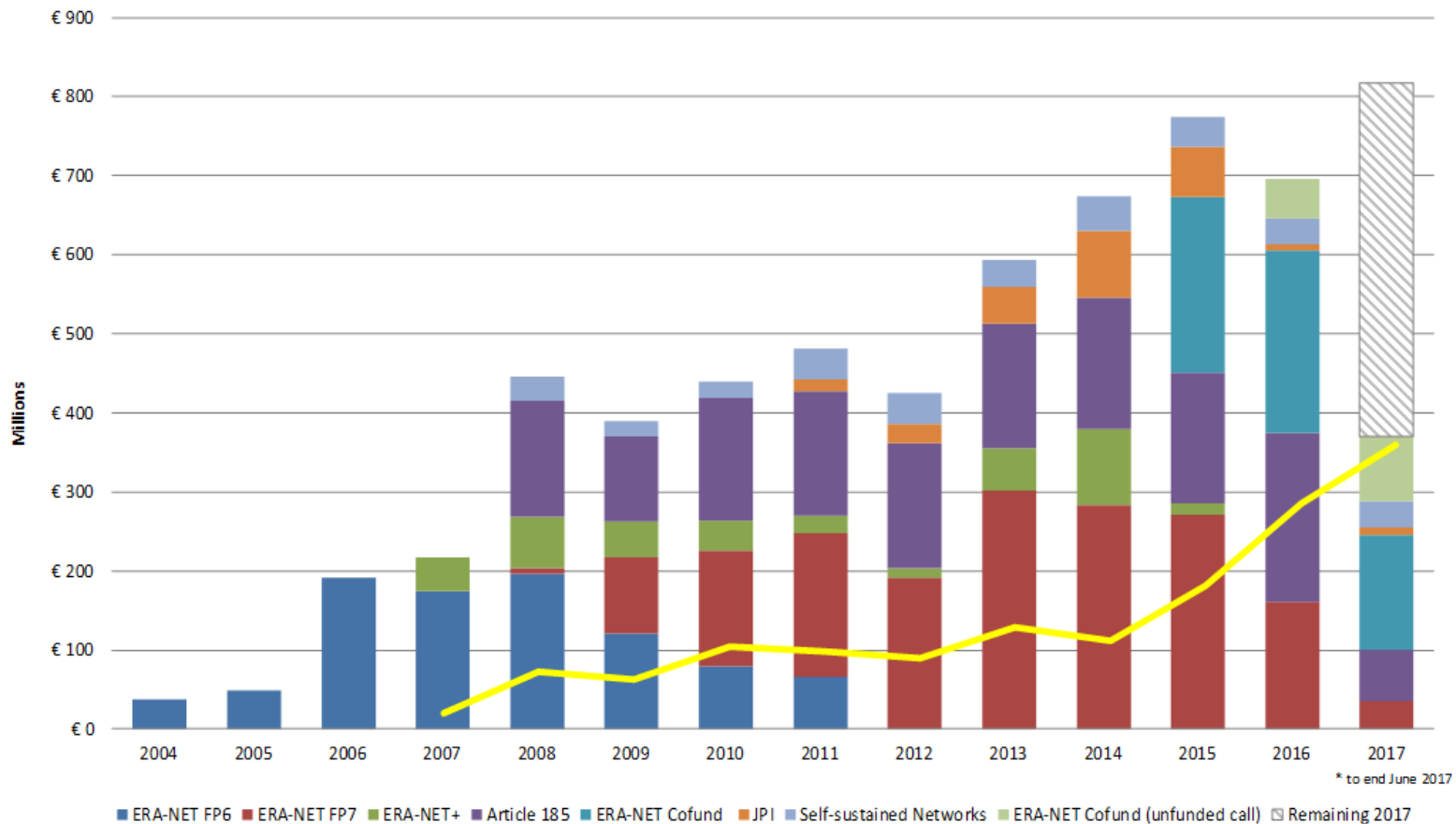
→ allows for transnational projects that could not be realised under Horizon 2020, or at national level only

**Builds networks and competences**

→ a stepping stone for further collaborations – from H2020 projects to business contacts

# Annual national investment in P2Ps

→ currently 600 – 800 projects per year being funded



**Yellow line: cofunding from the Union**

## Example: MANUNET

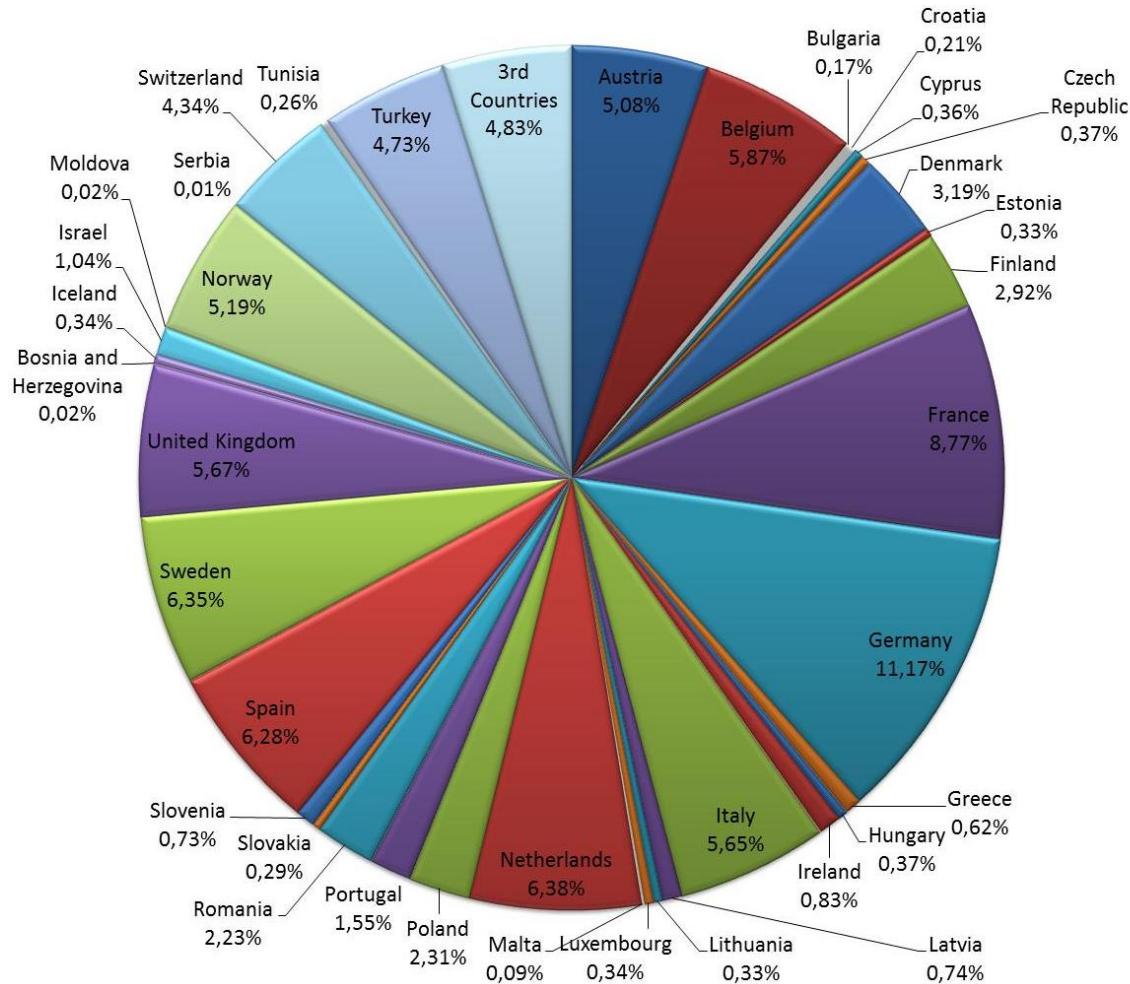
- MANUNET supports innovation-driven, close-to-market research and development projects in manufacturing.
- It aims to encourage cross-border value chains that emerge from advancing technologies.
- During every first quarter of every new year, MANUNET opens a call for proposals to co-fund manufacturing research projects by preferably small and medium-sized enterprises (SMEs) and their strategic partners. Short-term projects with small-medium consortia are expected.
- Funding is dependent on national and regional programmes.
- More than a decade of yearly calls has proven MANUNET as an ideal complementary programme halfway between Horizon 2020 and the national/regional funding programmes.
- Participating countries: Italy, Ireland, Belgium, Luxemburg, Germany, Norway, Romania, Turkey, Israel, Spain, Portugal, the Netherlands, Ireland, and Russia

## Example: MANUNET - what do the users say?

A sample of 126 project participants report:

- 44 invention notifications submitted/patent applications filled
- 16 license agreement reached
- 25 patents granted
- 65% increased their in R&D expenses
- 66% increased their R&D personnel
- 1% experimented an increase in turnover
- 73% of the cases resulted in business opportunities
- 92% of the cases resulted in access to know-how

# Country contributions – broad commitment



## Projects funded by P2Ps

- On average 5 partners per P2P funded project
  - P2P projects have average total costs of 1.9 million
  - The average requested funding for P2P projects is €870,000
  - Based on the project data available, the countries involved in (and coordinating) the highest number of P2P projects are Germany, France, Spain, Sweden, UK and The Netherlands
  - In many networks focusing on research of public organisations / universities
  - But also very targeted networks:
    - SMEs (Eurostars, Manunet)
    - National Metrology Institutes (EMPIR)
    - ...
- ➔ Each year between 600 and 800 projects are selected for funding



# Where to find more information?

→ **ERA-LEARN 2020**

# P2P networks: 94 active networks

<https://www.era-learn.eu/network-information/networks/>



Search ERA-LEARN 2020 ...

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## P2P Networks

**Note:** The P2P networks database is depending on the data received by the network. Please send updates at any time to [office\(at\)era-learn.eu](mailto:office(at)era-learn.eu)

Country participating  Type  Status  Funding Framework

### H2020 filter options

[Show more filter options](#)

Search ...

Show  entries

Acronym	Full Name	Start Date	End Date	Funding Framework	Network Type	Countries	Coordinator
<a href="#">GENDER NET Plus</a>	ERA-NET Cofund Promoting Gender Equality in H2020 and the ERA	01/06/2017	31/05/2022	Horizon 2020	ERA-NET Cofund	13	<a href="#">CNRS-INSU</a>
<a href="#">IndEff</a>	Industry for Energy Efficiency	01/06/2017	31/05/2022	Horizon 2020	ERA-NET Cofund	9	<a href="#">DECC</a>
<a href="#">EN-SUGI</a>	Eranet Sustainable Urbanisation Global Initiative	01/01/2017	31/12/2021	Horizon 2020	ERA-NET Cofund	15	<a href="#">TSB</a>
<a href="#">GeoERA</a>	Establishing the European Geological Surveys Research Area to deliver a Geological Service for Europe	01/01/2017	31/12/2021	Horizon 2020	ERA-NET Cofund	31	<a href="#">TNO</a>
<a href="#">Geothermica</a>	GEOTHEMICA ERA-NET Co-fund Action	01/01/2017	31/12/2021	Horizon 2020	ERA-NET Cofund	13	<a href="#">NEA</a>





European  
Commission

# Country info: 110 countries participating

<https://www.era-learn.eu/network-information/countries/>

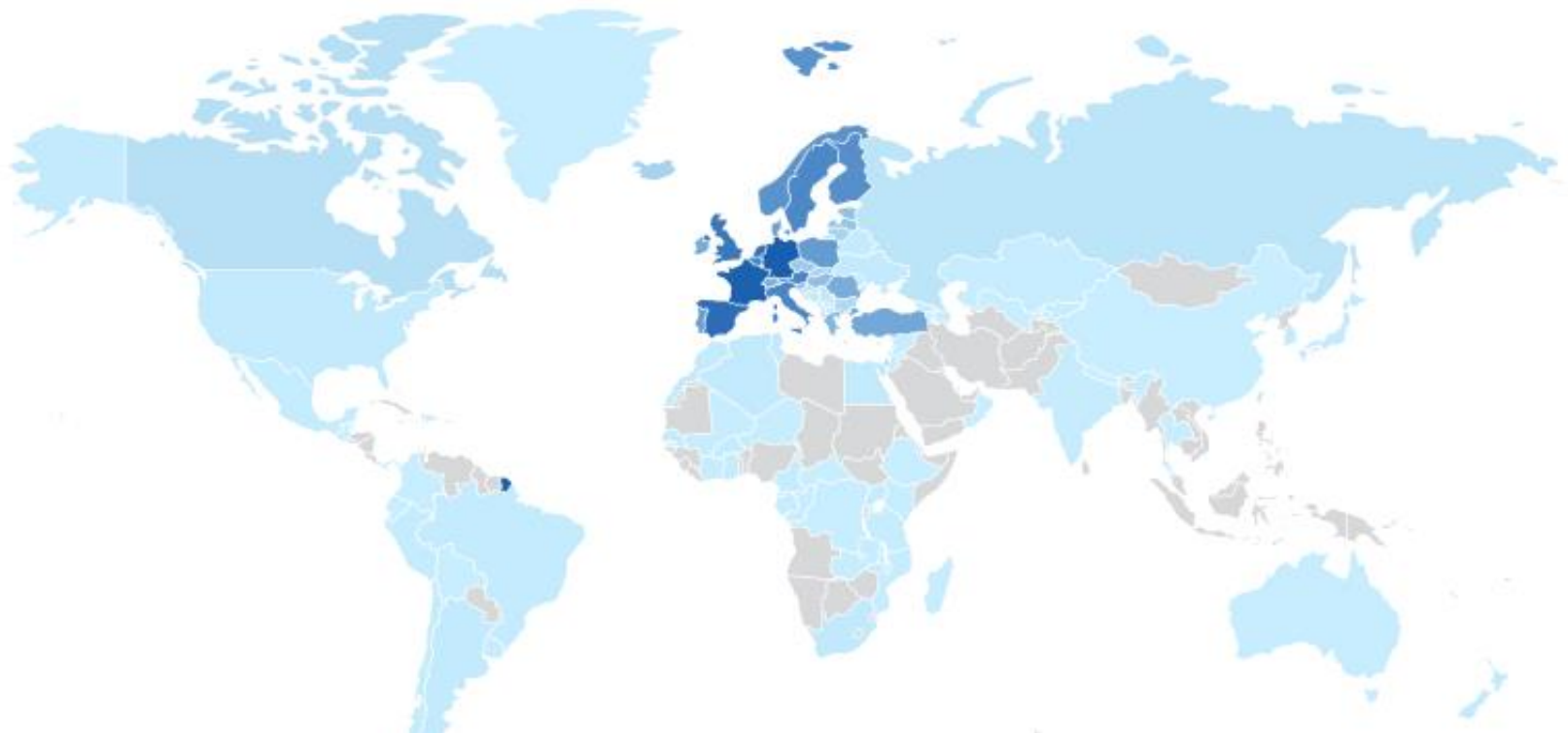
Number of P2P networks

Number of organisations

Number of Calls

Number of P2P networks coordinating

Number of funded projects









European  
Commission

# Funded projects: currently 2814 in the database

<https://www.era-learn.eu/network-information/overview-projects/>

## Funded projects

Countries participating

Type

Funding Framework

Network status

Search ...

Show  entries

Project Acronym	Project Title	Call	Network	Project Start	Project End	No partners
BioFN	Biomarkers for Infant Fat Mass Development and Nutrition	Call for Joint Transnational Research Proposals: Biomarkers for Nutrition and Health	ERA-HDHL	2017-03-01	2020-03-01	3
CABALA_Diet&Health	Circulating Bile Acids as biomarkers of metabolic health - Linking microbiota, Diet and Health	Call for Joint Transnational Research Proposals: Biomarkers for Nutrition and Health	ERA-HDHL	2017-03-01	2020-03-01	5
DERIVE	DEvelopment of Riboflavin biomarkers to relate dietary sources with status, gene-nutrient Interactions and Validated health Effects in adult cohorts	Call for Joint Transnational Research Proposals: Biomarkers for Nutrition and Health	ERA-HDHL	2017-03-01	2020-03-01	4
Fecal-Calprotectin	Developing the Next Generation of Fecal Diagnostics	Eurostars Cut-Off 9	Eurostars	2013-03-01	2016-02-29	5
ALPHABET	Early life programming of childhood health: a nutritional and epigenetic investigation of adiposity and bone, cardiometabolic, neurodevelopmental and respiratory health	Call for Joint Transnational Research Proposals: Biomarkers for Nutrition and Health	ERA-HDHL	2017-03-01	2020-03-01	6
FAME	Fatty Acid Metabolism - Interlinking Diet with Cardiometabolic Health	Call for Joint Transnational Research Proposals: Biomarkers for Nutrition and Health	ERA-HDHL	2017-03-01	2020-03-01	5
		Call for Joint Transnational				

# And much more information on P2Ps ...



## Welcome to ERA-LEARN 2020

ERA-LEARN 2020 is a support action (CSA) funded by Horizon 2020. It started in January 2015 as a support platform for the Public-Public-Partnerships (P2P) community.

[Learn more about ERA-LEARN 2020](#)

### Public to Public Partnerships (P2Ps)

P2Ps align national strategies, helping to overcome fragmentation of public research effort. P2Ps (ERA-NETs, Article 185, Joint Programming) involve varying degrees of joint effort, such as the co-ordination and integration of national programmes, the implementation of joint calls with EC contribution, and high-level commitment to address a particular societal challenge.

[Read more](#)

### Public to Public Partnerships (P2Ps) in numbers

[93 Active Networks](#)

[39 Active Joint Calls](#)

[110 Participating Countries](#)

[1247 Organisations](#)

### Subscribe to the ERA-LEARN newsletter

E-Mail

### Open calls for transnational RTD projects

Calendar of joint calls launched by P2P networks



### Latest news

12/04/2017

[New tools for ERA-NET-Cofund available](#)

09/03/2017

[Save the date: 26-27 September 2017 Foresight Training, Vienna](#)

07/02/2017

# Thank you for your attention!

## Any questions?

### **Contact**

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