

HORIZON 2020

The EU Framework Programme for
Research and Innovation
2014-2020

Ralf König
FFG – Austrian Research Promotion Agency

DTB Seed Money Facility Event
27 September 2017, Vienna, Austria

WHAT IS HORIZON 2020?

- **a 80 (70) billion Euro research and innovation funding programme (2014-2020)**
- A **core part of Europe 2020 Strategy**, Innovation Union Flagship Initiative & European Research Area:
 - Responding to the economic crisis
 - Addressing people's concerns
 - Strengthening the EU's global position

Horizon 2020 – The Structure

Excellent Science

Aim: Science basis

1. European Research Council (ERC)
2. Future and Emerging Technologies (FET)
3. Marie Skłodowska-Curie
4. Research Infrastructures

Industrial Leadership

Aim: Growth

1. Leadership in enabling and industrial technologies (LEIT) incl. key enabling technologies (KETs)
2. Risk financing
3. Innovation in SMEs

Societal Challenges

Aim: Tackling societal problems

1. Health, demographic change
2. Food quality, bio-economy
3. Energy
4. Transport
5. Climate action resource efficiency
6. Inclusive, innovative societies
7. Secure societies

- Spreading excellence and widening participation
 - Science with and for Society
 - European Institute of Innovation and Technology (EIT)
 - Joint Research Centre (JRC)

PRIORITY 1 EXCELLENT SCIENCE

- ERC
- FET
- Marie Skłodowska-Curie
- Research infrastructures



WHY?



- World class science is the foundation of tomorrow's technologies, jobs and wellbeing
- Europe needs to develop, attract and retain research talent
- Researchers need access to the best infrastructures

<i>European Research Council</i>	13 095 M€
Frontier research by the best individual teams	
<i>Future and Emerging Technologies</i>	2 696 M€
Collaborative research to open new fields of Innovation	
<i>Marie Curie actions</i>	6 162 M€
Opportunities for training and career development	
<i>Research infrastructures</i> <i>(including e-infrastructure)</i>	2 488 M€
Ensuring access to world-class facilities	

PRIORITY 2 INDUSTRIAL LEADERSHIP

- KETs
- Risk finance
- Innovation in SMEs



- Strategic investments in key technologies (e.g. advanced manufacturing, microelectronics) **underpin innovation across existing and emerging sectors**
- Europe needs to **attract more private investment** in research and innovation
- Europe needs **more innovative SMEs** to create growth and jobs

Leadership in enabling and industrial technologies **13 557 M€**

(ICT, nanotechnologies, materials, biotechnology, manufacturing, space)

Access to risk finance **2 842 M€**

Leveraging private finance and venture capital for research and innovation

Innovation in SMEs **616 M€**

Fostering all forms of innovation in all types of SMEs

KEY ENABLING TECHNOLOGIES (KETs)

1. Information and Communication Technologies
 2. Nanotechnologies
 3. Advanced materials
 4. Biotechnology
 5. Advanced manufacturing and processing
 6. Space
- + cross-cutting actions (incl. with the societal challenges)
to exploit synergies and complementarities

PRIORITY 3 SOCIETAL CHALLENGES

- Health
- Bioeconomy
- Energy
- Transport
- Climate action
- Integrative, innovative societies
- Secure societies



- **Concerns of citizens and society/EU policy** objectives (climate, environment, energy, transport etc) cannot be achieved without innovation
- Breakthrough solutions come from **multidisciplinary collaborations**, including social sciences & humanities
- Promising **solutions** need to be **tested, demonstrated and scaled up**

HOW WERE THE CHALLENGES SELECTED?



- The selection follows the Europe 2020 strategy and takes into account:
 - Need to concentrate resources on the most important challenges
 - The challenges have to be across Europe
 - The economic and social situation in Europe and worldwide
 - Europe's performance now and in the future
 - The need to choose a European approach

SOCIETAL CHALLENGES



Health, demographic change and wellbeing	7 472 M€
Food security, sustainable agriculture, marine and maritime research & the bioeconomy	3 851 M€
Secure, clean and efficient energy	5 931 M€
Smart, green and integrated transport	6 339 M€
Climate action, resource efficiency and raw materials	3 081 M€
Inclusive, innovative and reflective societies	1 309 M€
Secure societies	1 695 M€

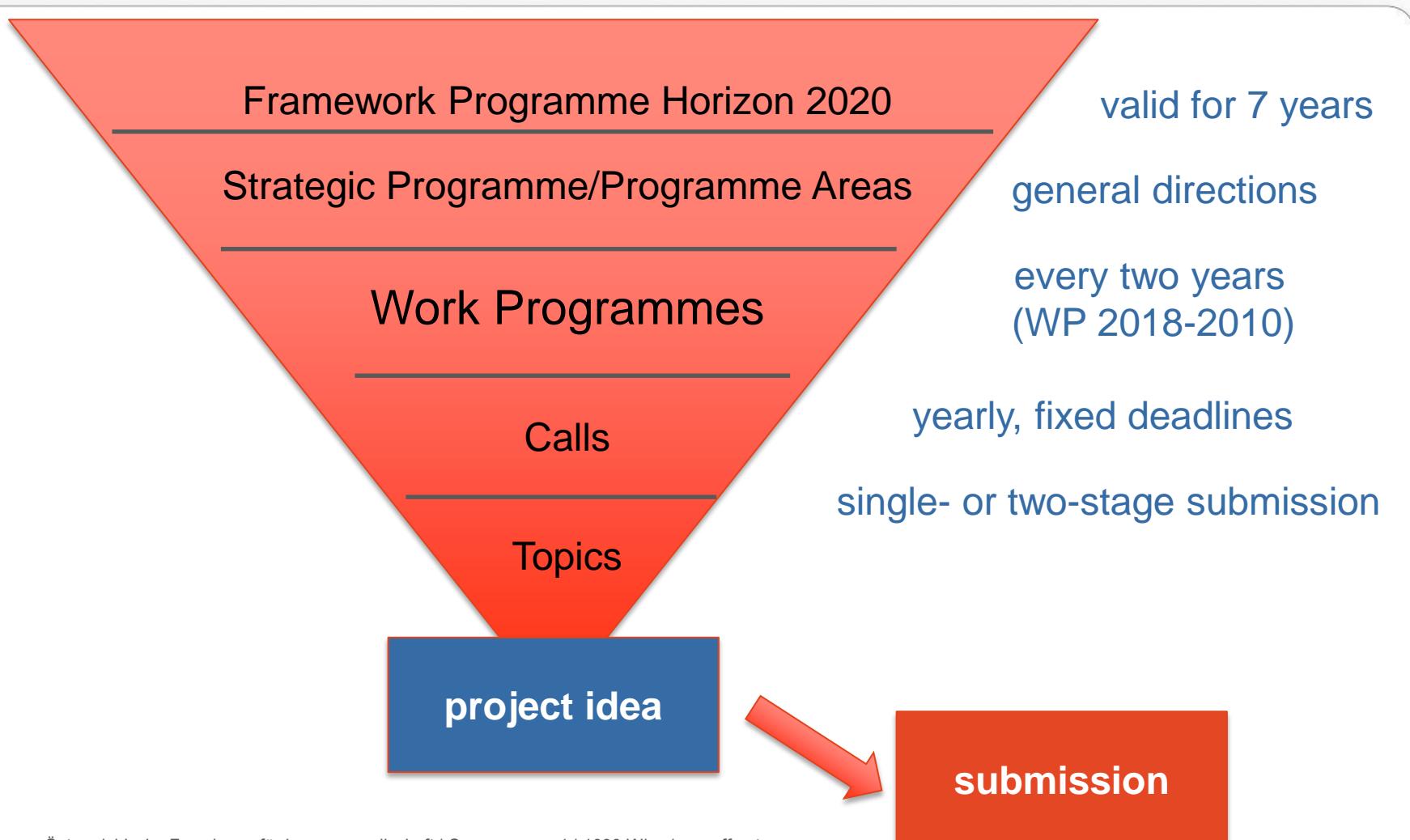
ALSO BELONG TO HORIZON 2020...

- Spreading excellence and widening participation (Widening)
- Science with and for society (SWAFS)
- European Institute of Innovation and Technology (EIT)
- Joint Research Centre (JRC)



<i>Spreading excellence and widening participation</i>	816 M€
<i>Science with and for society</i>	462 M€
<i>European Institute of Innovation and Technology (EIT)</i> Combining research, innovation & training in Knowledge and Innovation Communities	2 711 M€
<i>Joint Research Centre (JRC)</i> Providing a robust, evidence base for EU policies	1 903 M€

HORIZON 2020: FROM PROGRAMME TO PROJECT



SIMPLIFICATION: RULES FOR PARTICIPATION



A single set of rules

- Adapted for the whole research and innovation cycle
- Covering all research programmes and funding bodies
- Aligned to the Financial Regulation, coherent with other new EU Programmes

Funding rates

	Research actions	Innovation actions	Indirect costs
Non-profit organisations	100 %	100 %	25 %
All other organisations	100 %	70 %	25 %

OTHER ERA - EUROPEAN RESEARCH AREA FUNDING OPPORTUNITIES

- Horizon 2020 - Science with and for Society (SWAFS)
- Horizon 2020 - Access to risk finance
- COST
- EUREKA/EUROSTARS
- P2P Networks



Strategic Programming:

8 Activity Lines for SWAFS:

- attractiveness of scientific careers
- **gender equality**
- integration of citizens' interests and values in research and innovation (R&I)
- formal and informal **science education**
- accessibility and **use of research results**
- governance for the advancement of **responsible research and innovation**
- anticipation of potential environmental, health and safety impacts
- improved knowledge on science education

- **Cross cutting**
- **Gender Equality**
- **Responsible Research and Innovation (RRI)**

Links

Science with and for Society European Commission

<https://ec.europa.eu/programmes/horizon2020/en/h2020-section/science-and-society>

Participant Portal

<https://ec.europa.eu/research/participants/portal/desktop/en/home.html>

Gender in the European Research Area

<https://era.gv.at/directory/83>

CONTACT



SWAFS in Austria (FFG)

<https://www.ffg.at/europa/h2020/science-society>

Michalis Tzatzanis

National Contact Point for Science with and for Society

+43 5 7755 4405

michalis.tzatzanis@ffg.at

- Oldest funding program for **transnational research & technology cooperation** (since 1971)
- COST supports interdisciplinary and intersectoral **networks**
 - sharing of Know-how at meetings, training schools & scientific missions
 - cooperation of academic and non-academic sector
 - development of new ideas for future research projects
 - education and career support for young researchers
- coordination of **nationally funded research activities** in so called **COST Actions**
 - funding of travel costs
 - organisation of events
 - dissemination



COST – FACTS AND FIGURES

- „**Bottom Up**“ approach
- participation in running COST Actions possible:
http://www.cost.eu/COST_Actions/all_actions
- Low-threshold / easy „**starter**“ programme
- Focus on integration of **Inclusiveness Target Countries (ITC)**
(Bosnia-Herzegovina, Bulgaria, Cyprus, Czech Republic, Estonia, Croatia, Hungary, Lithuania, Latvia, Luxembourg, Malta, Montenegro, Poland, Portugal, Romania, Slovenia, Slovakia, the former Yugoslav Republic of Macedonia, Serbia and Turkey.)



SUBMISSION OF A NEW COST ACTION

- **1-2 „Collection Dates“ / year**
next Collection Date: **April 25, 2018**
- **„Network of proposers“**
 - min. 7 proposers incl. 3 from Inclusiveness Target Countries (ITC)
 - easy access, no consortium agreements
 - registered COST profile needed (<https://e-services.cost.eu/user/login/>)



CONTACT



Official COST website

<http://www.cost.eu/>

COST National Coordinators (CNC) contacts

http://www.cost.eu/about_cost/who

COST in Austria (FFG)

<https://www.ffg.at/programme/cost>

CNC Austria

Nicole Schmidt

nicole.schmidt@ffg.at

+43 57755 4105

Loan guarantees or loans for innovative organisations (SME!)

(remark: loans for non-innovative organisations via COSME)

- **Why?** -> commercial banks often do **not grant loans** for innovative tasks (or at **increased interest rates**) due to a perceived higher risk for them
- **no H2020-project necessary!**
 - loans for regional / national / internal R&D&I
 - or as supplement to H2020-grants
- demand-driven: **“first come first served”**
- advantage for SMEs: **national proximity: financial intermediaries**

ALSO: Initiatives for **equity participation** of investors
(coaching, pitching events): www.investhorizon.eu

H2020-RISK FINANCE: INNOVFIN PRODUCTS (1)



InnovFin



source graphic: European Commission

complementary
with
COSME

COSME – Loan
Guarantee facility (LGF)

COSME – Equity
Facility for Growth (EGF)

complementary with EFSI
(European Fund for Strategic Investments)

= „Juncker-Package“
= „Investment Plan“

H2020-RISK FINANCE: INNOVFIN PRODUCTS (2)



InnovFin

	SMEs	Mid-Caps	Large Caps
InnovFin SME Guarantee	InnovFin MidCap Guarantee	InnovFin Large Projects	
InnovFin SME Venture Capital	InnovFin MidCap Growth Finance	source graphic: European Commission	

target group:

SME + small
MidCaps (< 500 VZÄ)

medium / large
MidCaps (< 3000 VZÄ)

cooperatives (> 3000 VZÄ),
universities, RTOs, R&D-
infrastructures, PPP, ...

assessment -criteria:

company = „innovative“ (criteria catalogue),
using the financing for what they want to ...

concrete R&D-
undertakings

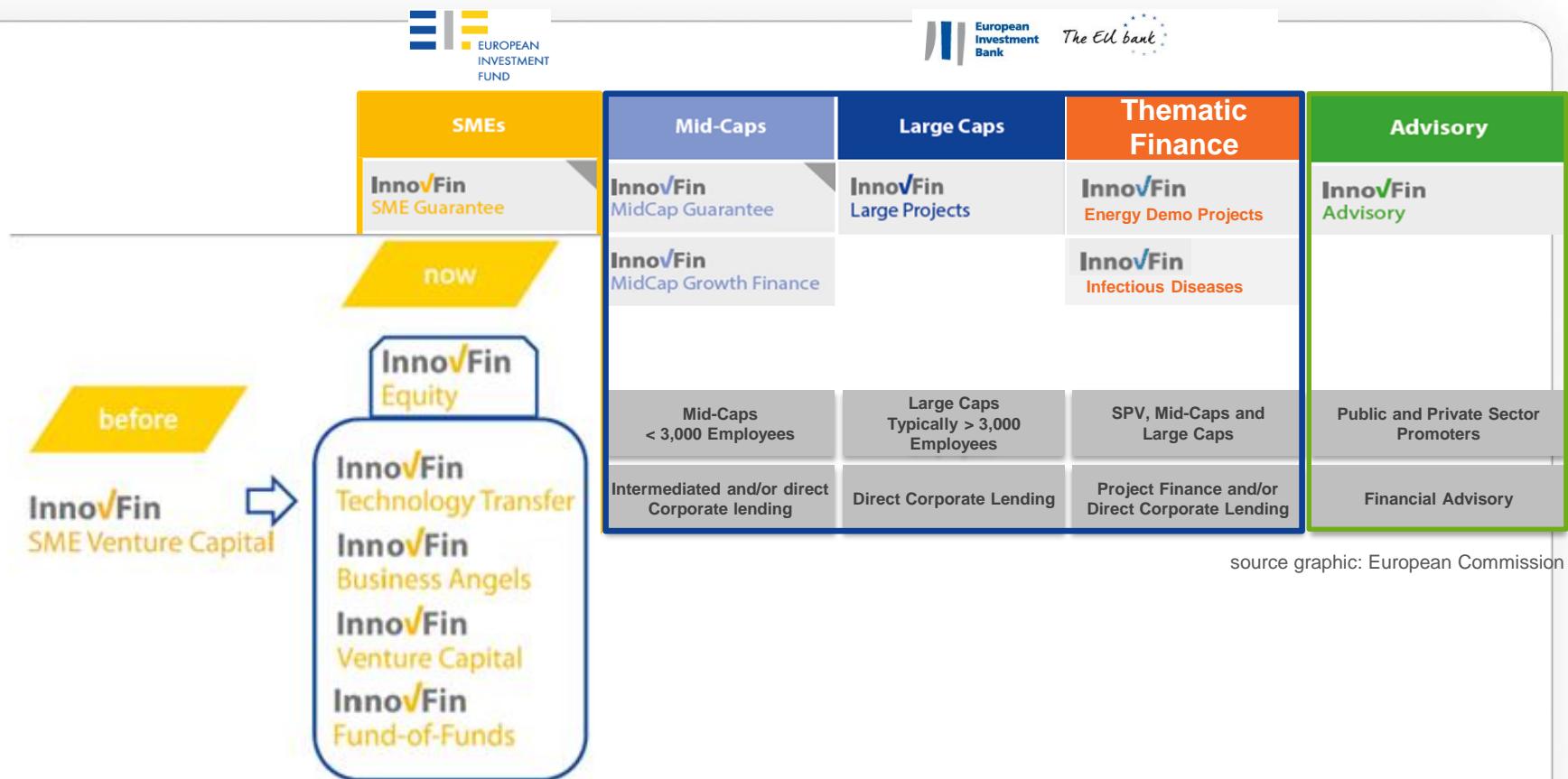
loan size:

25.000 – 7,5 mio

7,5 mio – 50 mio

7,5 mio – 300 mio

IH2020-Risk finance: InnovFin products (3)



number of available products is constantly increasing

CONTACT



Access to risk finance in Austria (FFG)

<https://www.ffg.at/europa/h2020/science-society>

Marcus Bidmon

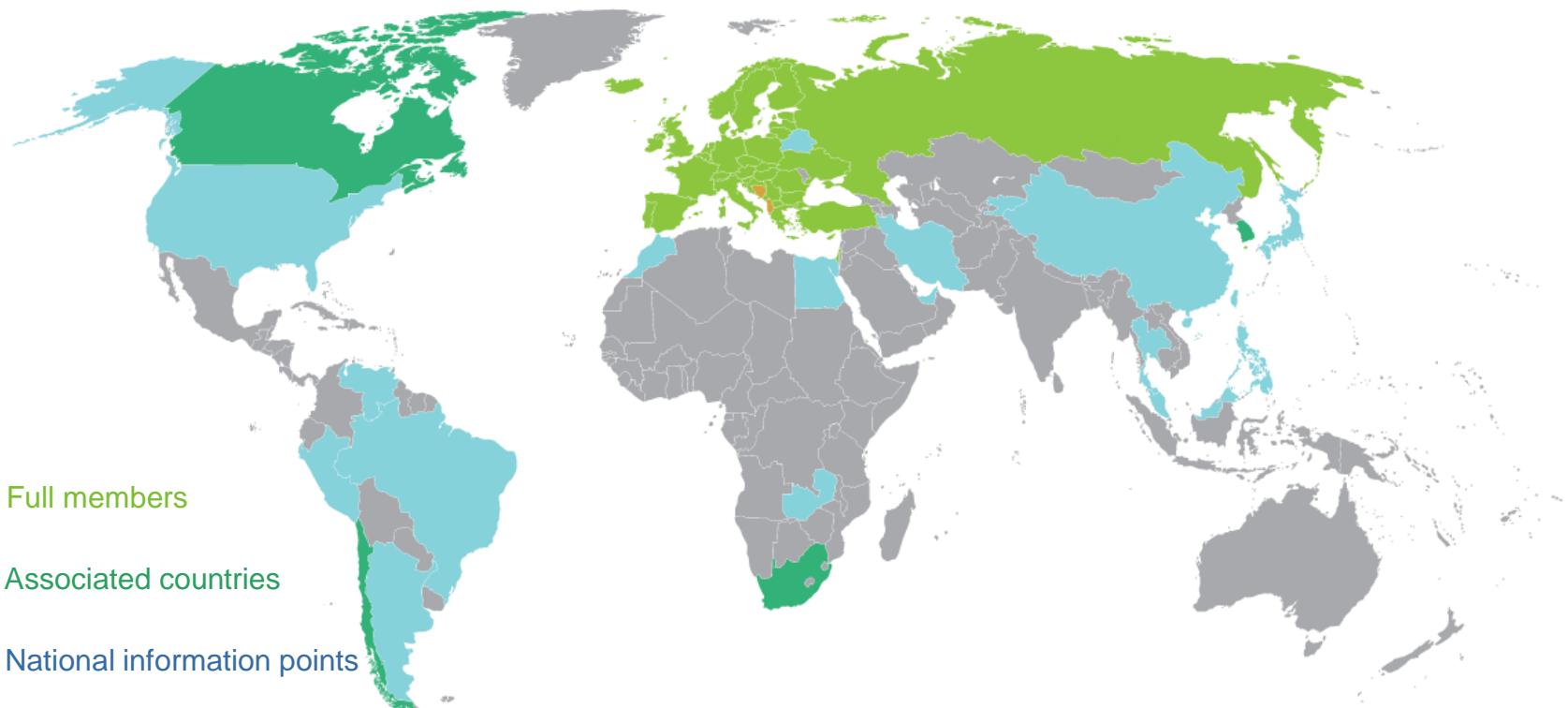
National Contact Point for Access to risk finance

+43 5 7755 4302

marcus.bidmon@ffg.at

- Is an intergovernmental network (of funding agencies and ministries) – 44 members and associated member states – founded 1985
- Supports and funds cross border, market oriented research, experimental development and innovation
- The core target group are companies, consortia may include research organizations
- Main goal: boosting economies through innovation

EUREKA MEMBERS AND COLLABORATION



Full members

Associated countries

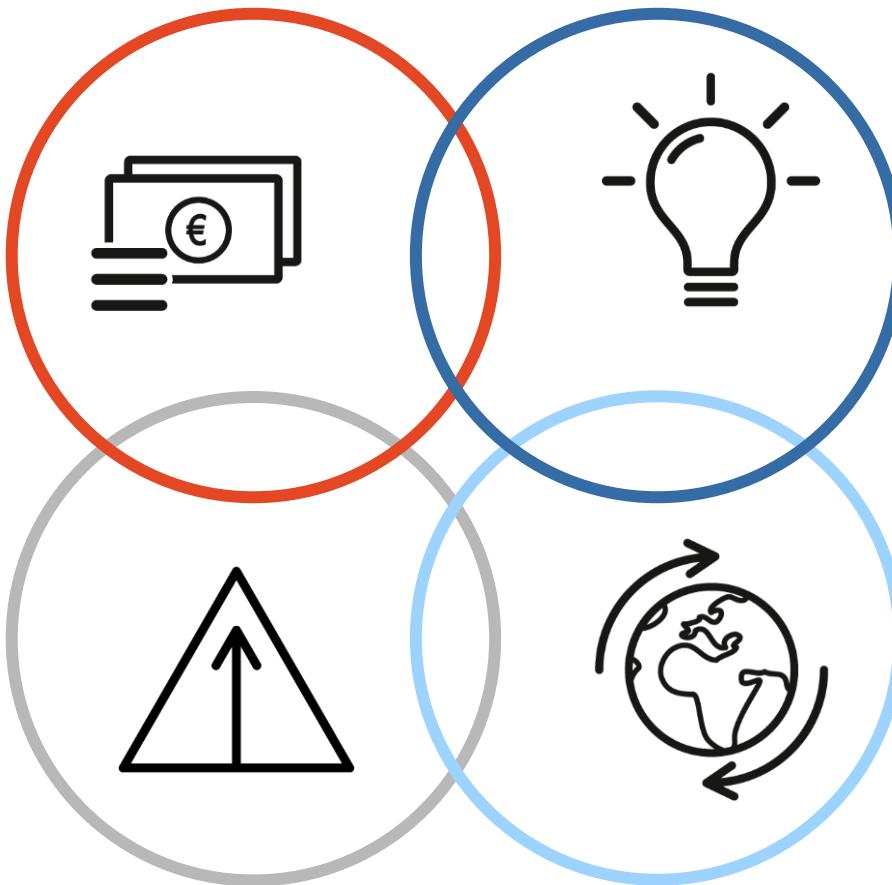
National information points

International cooperation

MAIN CHARACTERISTICS OF EUREKA PROJECTS



Market-oriented nature



**Innovative product,
process or service**

Bottom-up approach

International cooperation

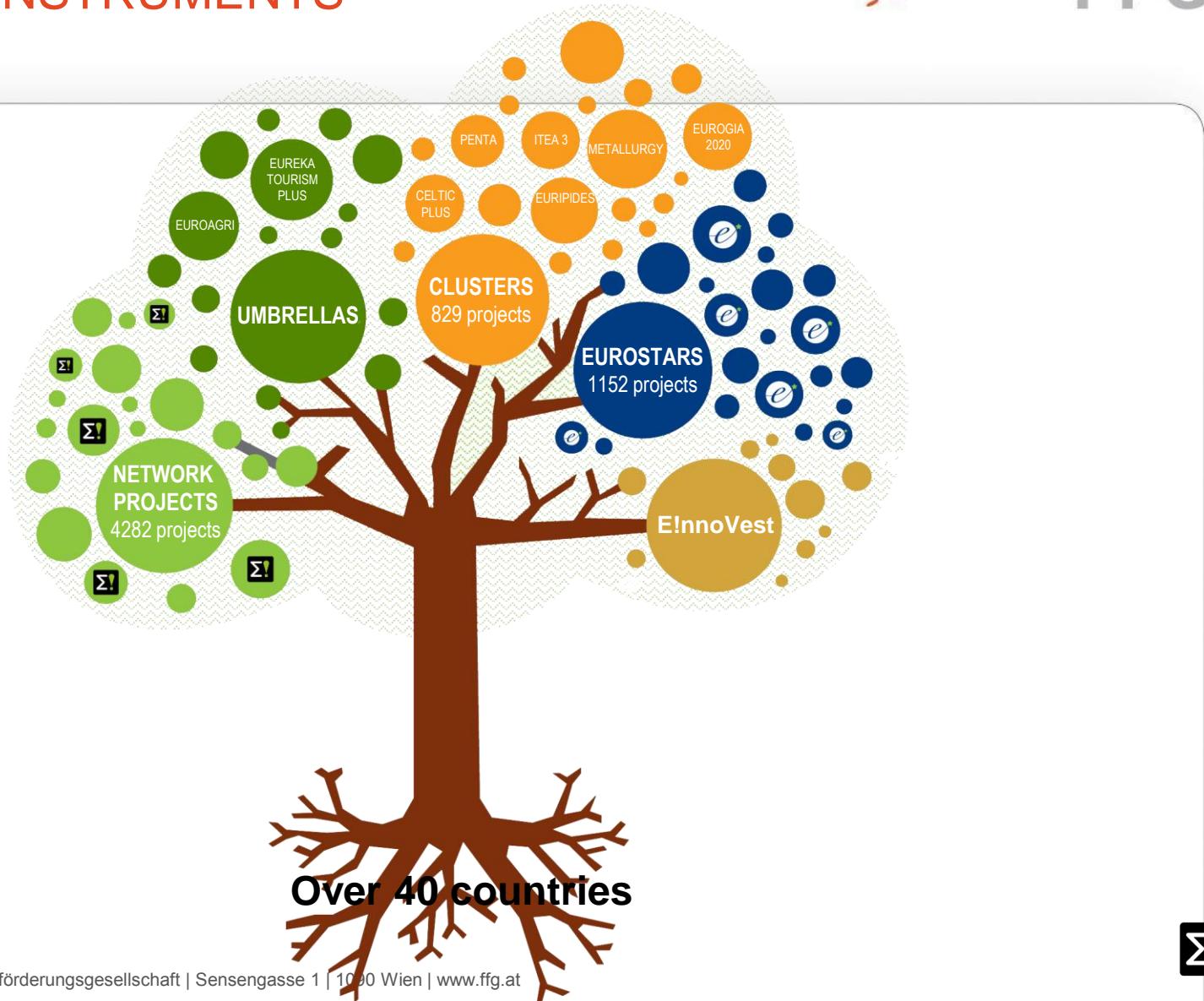
Since 1985...

6.400+
Projects

26.000+
Organisations
Involved

38+ BILLION €
public-private funding

EUREKA INSTRUMENTS



BENEFITS OF EUREKA

- One agreement – access to all members of the network
- **Variable geometry** – keeping decisions, budgets and rules in national organisations
- Leverage for national budgets - international impact of national funding
- Organization of bilateral or multilateral calls within network without additional costs and by using existing procedures
- Customers deal with well known authorities and always the same rules and procedures

ELIGIBILITY CRITERIA 1

- The partners should include **at least, one Non-Austrian and one Austrian (for profit) company.** Participation of research institutes/universities is welcome as subcontractors according to each country's funding regulations.
- The Austrian and Non-Austrian partners must express their will to cooperate, on an **equal basis**, in the development of a **new product, industrial process or service.**
- The product, process or service must be **innovative and there must be a technological risk involved.**
- The project should be **equally significant for both partners.**

ELIGIBILITY CRITERIA 2

- The project should have an obvious **advantage and added value resulting from the technological cooperation** between the participants from the two countries (e.g. increased knowledge base, commercial leads, access to R&D infrastructure etc.).
- Partners are required, prior to obtaining the Eureka label, to have previously signed a **consortium agreement on the commercialization** of the product, process or service once the phase of research and development has been completed which includes the ownership and use of know-how and IPR settlements (“Consortium Agreement”).
- Projects must be focused on technologies for civilian use (**non-military**).

FUNDING IN AUSTRIA

- Companies registered in Austria are eligible for funding, universities and research centers can be funded as subcontractors only.
- In addition to the EUREKA project form the Austrian participant -> full proposal to the General Program (Basisprogramm) via e-Call at the FFG webpage. The evaluation is carried out by internal experts.
- The project must fulfill the national criteria ("Basisprogramm-Leitfaden"). The funding provided by FFG are grants:
 - max. 60% of the eligible costs for small companies,
 - max. 50% of the eligible costs for medium-sized companies and
 - max. 40% for large companies,

CONTACT



Official EUREKA website

<http://www.eurekanetwork.org>

EUREKA in Austria (FFG)

<https://www.ffg.at/programme/eureka>

Austrian EUREKA National Project Coordinator

Irina Šlosar

irina.slosar@ffg.at

+43 57755 4901

Eurostars in Austria (FFG)

<https://www.ffg.at/programme/eurostars-2>

Austrian Eurostars National Project Coordinator

Olaf Hartmann

T +43 5 7755 4902

olaf.hartmann@ffg.at

HORIZON 2020 AND PARTNERING

- Public private partnerships
- Public public partnerships



- Through **Joint Technology Initiatives** or other formal structures (Art. 187)
- Through **contractual agreements**, which provide inputs for work programmes
- Only **when criteria met**, e.g. clear commitments from private partners

P2P NETWORKS



ERA LEARN 2020

P2P networks Joint calls Joint activities H2020 calls Manuals and tools GPC Monitoring and Assessment Alignment Publications Events

You are here: Home

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

94 Active Networks
35 Active Joint Calls
113 Participating Countries
1313 Organisations

Subscribe to the ERA-LEARN newsletter

E-Mail

Open calls for transnational RTD projects
Calendar of joint calls launched by P2P networks

1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	21
22	23	24
25	26	27
28	29	30
31		

Latest news

01/09/2017 [Study on Horizon 2020 partnerships available](#)

31/08/2017 [Case study on BLUEMED initiative published](#)

11/08/2017 [New case study on the Electronic Components and Systems for European Leadership Joint Undertaking \(ECSL\)](#)

10/08/2017 [4 new case studies on alignment modalities at trans-regional level](#)

Show news archive

ERA-LEARN 2020 has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 645782.

<https://www.era-learn.eu>

- Through “**ERA-Nets**” for topping up individual calls/actions
(replacing ‘old’ ERA-Net, ERA-Net Plus, INCO-Net, Inno-net)
- Through participation in **joint programmes** between Member States (**Art. 185**)
- Supporting agendas of **Joint Programming Initiatives** **when in line** with Horizon 2020
- Only **when criteria met**, e.g. financial commitments of participating countries

CONTACT

Ralf König

Austrian Research Promotion Agency
Sensengasse 1
A-1090 Vienna
www.ffg.at

Tel.: +43 (0)57755 - 4601
email: ralf.koenig@ffg.at

