

Eurofed Information session Horizon 2020

WIV-ISP – 17 February 2017

Laurent Ghys
Pascale Van Dinter
Marieke Zwartjes

Agenda

1. Eurofed team
2. Horizon 2020
3. Work Programme 2017
4. New in Horizon 2020
5. More information and questions

1. Eurofed team

Who are we ?

- National Contact Points for Horizon 2020 of the Belgian federal government
- Eurofed is a service in the Belgian Science Policy Office (BELSPO)

Who are we ?

- 3 team members (2 full-time and 1 part-time);
one new member since 01/05/2016



What is our aim ?

- Inform the federal actors about Horizon 2020 Calls for Proposals:
 - telephone; email; face-to-face meetings
 - info sessions
- Support federal actors in submitting proposals and managing projects

How do we work ?

- Inform you:
 - [Eurofed website](#)
 - Our newsfeed (in English): please subscribe !
 - Twitter-account
- Answer to your questions: do not hesitate to send us an e-mail; give us a call or pass by

How can we help you ?

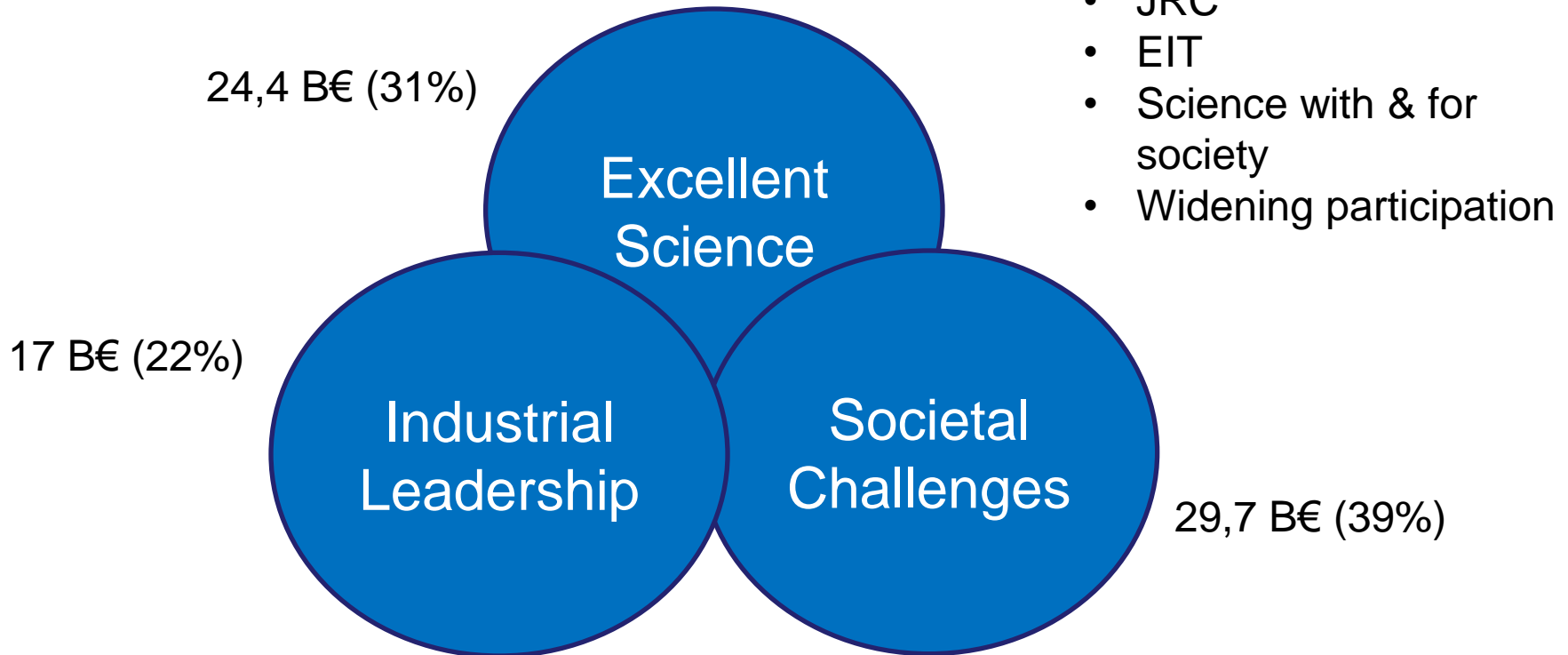
- Infosessions:
 - General infosessions (Audits, How to write a proposal,...)
 - Challenge specific infodays together with our Belgian NCP colleagues
 - On demand for a specific theme in your federal institution
 - Face-to-face meetings
- Feedback on your proposal

2. Horizon 2020

What is Horizon 2020?

- Framework Programme for Research and Innovation for 2014-2020 (75 billion €)
- Financial instrument to implement the Innovation Union
- Coupling research to innovation
- Challenge based

3 pillars



Excellent Science

- **European Research Council (ERC)**
Frontier research, all fields of science, all nationalities
- **Marie-Sklodowska-Curie actions (MSCA)**
Training and career development
- **Future and Emerging Technologies (FET)**
Collaborative research to open up new and promising fields of research & innovation
- **European Research Infrastructures (RI)**
Ensure access to world-class RI (incl. e-RI) in EU and beyond

Industrial Leadership

- Leadership in enabling and industrial technologies (LEIT)
 - **Information and Communication Technologies (ICT)**
 - Nanotechnologies, advanced materials, advanced manufacturing & processing
 - Biotechnology
 - **Space**
- Access to risk finance
- Innovation in SMEs

Societal Challenges

- **Health, demographic change and wellbeing**
- **Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the bioeconomy**
- **Secure, clean and efficient energy**
- **Smart, green and integrated transport**
- **Climate action, environment, resource efficiency and raw materials**
- **Inclusive, innovative and reflective societies**
- **Secure societies**

EC is still looking for evaluators

- Almost everyone can become an evaluator (except conflict of interest)
- Database of the European Commission
<http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>
- Added value for the institute ?
 - Researchers learn from it
 - You stay in ‘the loop’/networking

3. Work Programme 2017

3.1 Excellent Science

European Research Council

- Autonomous funding body launched in 2007*
- Led by scientists (22 scientists in the Scientific Council)
- Grants for excellent researchers, of any nationality, to perform frontier research in Europe - All fields of science

* 10 years of ERC – March 20, Palace of Academies - <http://www.erc10yrs.be/>

ERC - Grants

Starting Grants
2-7 years after PhD
Up to 1.5 M€
(+0.5M€)
Deadline: Oct 2016
Budget: 605 M€

Consolidator Grants
7-12 years after PhD
Up to 2 M€
(+0.75M€)
Deadline: 9 Feb
2017
Budget: 575M€

Advanced Grants
>12 years after PhD
Up to 2,5 M€
(+1M€)
Deadline: 16 May
2017
Budget: 567M€

Proof of Concepts
Up to 150.000€ for ERC grantees
Deadline: 25 Apr/5 Sept 2017
Budget: 20 M€

ERC- Evaluation

- Only criteria is excellence
- 1 single submission, 2 step evaluation
- 25 panels. 10-16 members per panel + remote experts
- Step 1: evaluation of the CV and synopsis (kill 80% of proposals).
- Step 2: Assessment of full proposals and interview (StG and CoG).
- 50% success
- Restriction to resubmission of proposals to future calls

Marie Skłodowska-Curie actions

Individual Fellowships	Innovative Training Networks	Research & Innovation Staff Exchange
<p>Support experienced researchers to undertake mobility (inside or outside Europe). Development of new skills</p>	<p>Joint research training/doctoral programme implemented by EU partners, with experience inside and outside academia</p>	<p>Development of partnerships in the form of a joint research and innovation project.</p>
<ul style="list-style-type: none"> • European Fellowship (EF): intra-EU or to EU • Global Fellowship (GF): outside of EU 	<ul style="list-style-type: none"> • ETN: early-stage/doctoral programme • EID: > 50% time in non-academic • EJD: Joint doctoral programme between academia 	<ul style="list-style-type: none"> • International or Intersectoral mobility • Secondment of staff (no recruitment)
<p>Who : Experienced researcher What: 2-3 years project Where: in or outside of Europe</p>	<p>(Non-) Academic Institutions 100% funding 4 years Europe and the world</p>	<p>(Non-) Academic Institutions 100% funding 4 years Europe and TC</p>

<http://eurofed.stis.belspo.be/>

Marie Skłodowska-Curie actions

Individual Fellowships	Innovative Training Networks	Research & Innovation Staff Exchange
Who : Experienced researcher What: 2-3 years project Where: in or outside of Europe	(Non-) Academic Institutions 100% funding 4 years Europe and the world	(Non-) Academic Institutions 100% funding 4 years Europe and TC
Deadline: 14 September 2017 Budget: 248.7 M€	10 January 2017 430 M€	<ul style="list-style-type: none">• 5 April 2017• 80 M€

IF- Funding

Researcher unit costs person/month			Institutional unit cost person/month	
Living allowance	Mobility allowance	Family allowance	Research, training and networking costs	Management and indirect costs
4650	600	500	800	650

Country coefficient following the country of the host institution

ITN - Funding

Living allowance	Mobility allowance	Family allowance	Research, training and networking costs	Management and indirect costs
3110	600	500	1800	1200

- Country coefficient for the living allowance
- Institutional costs can be redistributed

RISE - Funding

Staff member unit person/month Top up allowance	Research, training and networking costs	Management and indirect costs
2000	1800	700

- No country coefficient

European Research Infrastructures

- Research infrastructures: facilities, resources and services used by the research communities to conduct research and foster innovation in their fields.
- Major scientific equipment (or sets of instruments); knowledge-based resources such as collections, archives or scientific data; e-infrastructure, such as data and computing systems and communication networks; and any other infrastructure of a unique nature essential to achieve excellence in research and innovation.
- RI can be *single-sited, virtual or distributed*.

European Research Infrastructures

1. Development and long-term sustainability of new pan-EU research infrastructures
2. Integrating and opening research infrastructures of European interest
3. E-infrastructures
4. Fostering the innovation potential of Ris
5. Support to Policy and International cooperation

European Research Infrastructures

1. Development and long-term sustainability

- Design studies
- ESFRI preparatory phase and early phase
- Individual support to ESFRI and OWC Ris
- European Open Science Cloud

European Research Infrastructures

2. Integrating & opening RIs of EU interest

- Address 2 communities:
 - Starting communities: networking, standardisation and TNAs & services (bottom-up)
 - Advanced communities: innovation and widening TNAs and services (top-down based on a Multi-Annual Plan)

European Research Infrastructures

3. E-infrastructure

- Support to the next implementation phase of PRACE
- Data and Distributed Computing e-infrastructure for Open Science
- Platform-driven e-infrastructure innovation
- User-driven e-infrastructure innovation

European Research Infrastructures

4. Fostering the innovation potential of Ris

- Co-innovation for future detection and imaging technologies
- Support to technological infrastructures

European Research Infrastructures

5. Support to Policy and International cooperation

- Support to exchange of best practices for national roadmap
- International landscape of RI to support EU Strategy
- Bilateral cooperation with Africa
- Methodology to evaluate socio-economic impact of RIs

3.2 Industrial Leadership

Leadership in Enabling and Industrial Technologies – ICT

Information and Communication Technologies

- Opening date: 8 December 2016
- Deadline: 25 April 2017
- Indicative budget for this call: € 625.5 Million
- Calls presented on [Participant Portal](#) or [Eurofed website](#)
- Example of relevant call: ICT-23-2017: Interfaces for accessibility

Information and Communication Technologies

- Potential orientations for 2018-2020
 - Ensuring future-proof connectivity and preparing for the internet of the future
 - Building on European strengths and supporting the digitization of industry
 - **Building a competitive and inclusive data-driven economy and society (!)**
 - **Setting up large scale pilots addressing cross-sector challenges (!)**
 - Boosting digital innovation capacity across Europe and supporting standards
 - Exploring new high potential areas
 - Further developing an ambitious international agenda serving our Digitizing European Industry strategy

3.3 Societal Challenges

3.3.1 Health, demographic change and wellbeing

Health, demographic change and wellbeing

- Call: [Personalised Medicine](#)
- Closing date: 14 March 2017
 - SC1-PM-16-2017: In-silico trials for developing and assessing biomedical products
 - SC1-PM-17-2017: Personalised computer models and in-silico systems for well-being
 - SC1-PM-19-2017: PPI for uptake of standards for the exchange of digitalised healthcare records

Health, demographic change and wellbeing

- Call: [Personalised Medicine](#)
- Closing date: 11 April 2017
 - SC1-HCO-03-2017: Implementing the Strategic Research Agenda on Personalised Medicine
 - SC1-HCO-07-2017: Global Alliance for Chronic Diseases (GACD) prevention and management of mental disorders
 - SC1-HCO-08-2017: Actions to bridge the divide in European health research and innovation
 - SC1-PM-03-2017: Diagnostic characterisation of rare diseases
 - SC1-PM-11-2016-2017: Clinical research on regenerative medicine
 - SC1-PM-20-2017: Methods research for improved health economic evaluation

SC1 headlines 2018-2020



Better health and care, economic growth and sustainable health systems

Personalised medicine –
innovative healthcare industry –
global health – sustainable and
evidence – based health and
care systems



Decoding the role of the
overall environment for health
and well-being

Human exposome – global
changes and health



Digital transformation in
Health and Care
eHealth and mHealth – ICT
for Active and Healthy
Ageing



Trusted Big Data
solutions and
Cybersecurity for
Health and Care

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

- The calls for 2017 are closed (since this week)
- Potential orientations for 2018-2020:
 - Addressing climate change and resilience on land and at sea
 - Making the transition towards a circular bioeconomy
 - **Functional ecosystems, sustainable food systems, healthy lifestyles (!)**
 - Boosting major innovations on land and sea – new products, value chains and markets
 - Developing smart, connected territories and value chains in rural and coastal areas

3.3.3 Climate action, environment, resource efficiency and raw materials

- Also in this societal challenge possibilities for WIV-ISP
- Deadline call “[Greening the economy](#)”: 07.03.2017
- Potential interesting topic:
 - SC5-26-2017: Pre-commercial procurement on soil decontamination

- Potential orientations for 2018-2020:
 - Climate Action in support of the Paris Agreement
 - **Circular Economy (!)**
 - **Water for our environment, economy and society (!)**
 - **Innovating Cities for sustainability and resilience (!)**
 - Raw Materials
 - Protecting and valorising our natural and cultural assets
 - Earth Observation
 - Nature-based solutions, disaster risk reduction & natural capital accounting
 - Heritage alive

3.3.4 Secure Societies

Secure societies

- Opening: 01.03.2017 - Closing date: 24.08.2017
- Brokerage event: 06-07/03/2017 in Brussels
- Call: CIP (Critical Infrastructure Protection)-01-2017: Prevention, detection, response and mitigation of the combination of physical and cyber threats to the critical infrastructure of Europe.
- Budget: € 10 million

Secure societies: CIP-01-2017 specific challenge

Disruptions in the operation of our **countries' infrastructure may put at risk** the functioning of our societies and their economies. A comprehensive, yet installation-specific approach is needed to secure the integrity of existing or future, public or private, connected and interdependent installations. Since the global financial crisis has imposed unprecedented budgetary restrictions on both the public and private sectors, **new security solutions must be more efficient and cost-effective than the ones currently available.**

Secure societies: CIP-01-2017 scope

Proposals should **focus on one of the following critical infrastructures**: Water Systems, Energy Infrastructure (power plants and distribution), Transport Infrastructure and means of transportation, Communication Infrastructure, **Health Services**, Financial Services. Proposals should cover: prevention, detection, response, and in case of failure, mitigation of consequences .

A list of topics that remain eligible in 2017: published in section "Topic Conditions & Documents" for topic on Participant portal.
The participation of SMEs is strongly encouraged.

Secure societies: WP 2018-2020

Drafting of this WP starts in February 2017; see also [participant portal](#)

Publication: October 2017

Brokerage event for CfP 2017: 06 and 07 March 2017 in Brussels

[SEREN3](#): Security Research Map (SeReMa) which aim is to increase the visibility of security related research in Europe and to optimize the networking between research facilities, universities, public authorities, end users, suppliers of security solutions and operators of critical infrastructures.

4. New in Horizon 2020

- Open Data Pilot: now by default opt-in (data management plan)
- Ethics: increasing attention for this issue and a specific WP is required

BE infoday at Belspo in April 2017

5. More information and questions

- Eurofed website: <http://eurofed.stis.belspo.be/>
- General email: eurofed@stis.belspo.be
- Pascale Van Dinter
pascale.vandinter@stis.belspo.be
- Laurent Ghys
laurent.ghys@stis.belspo.be
- Marieke Zwartjes
marieke.zwartjes@belspo.be

- Subscription to Eurofed e-newsletter:
<http://eurofed.stis.belspo.be/eurofed.asp?id=s02&pg=subscribe&srv=1&lang=en>
- Twitter: @Eurofed_H2020
- The [Participant Portal](#) of the European Commission
- The ‘draft’ work programme of a specific challenge (please fill in evaluation form)