



Bundesministerium
für Bildung
und Forschung



The Work Programme 2016-17 in Societal Challenge 5: Calls & Instruments

IncoNet EaP Information Day
October 5th 2015, Kyiv

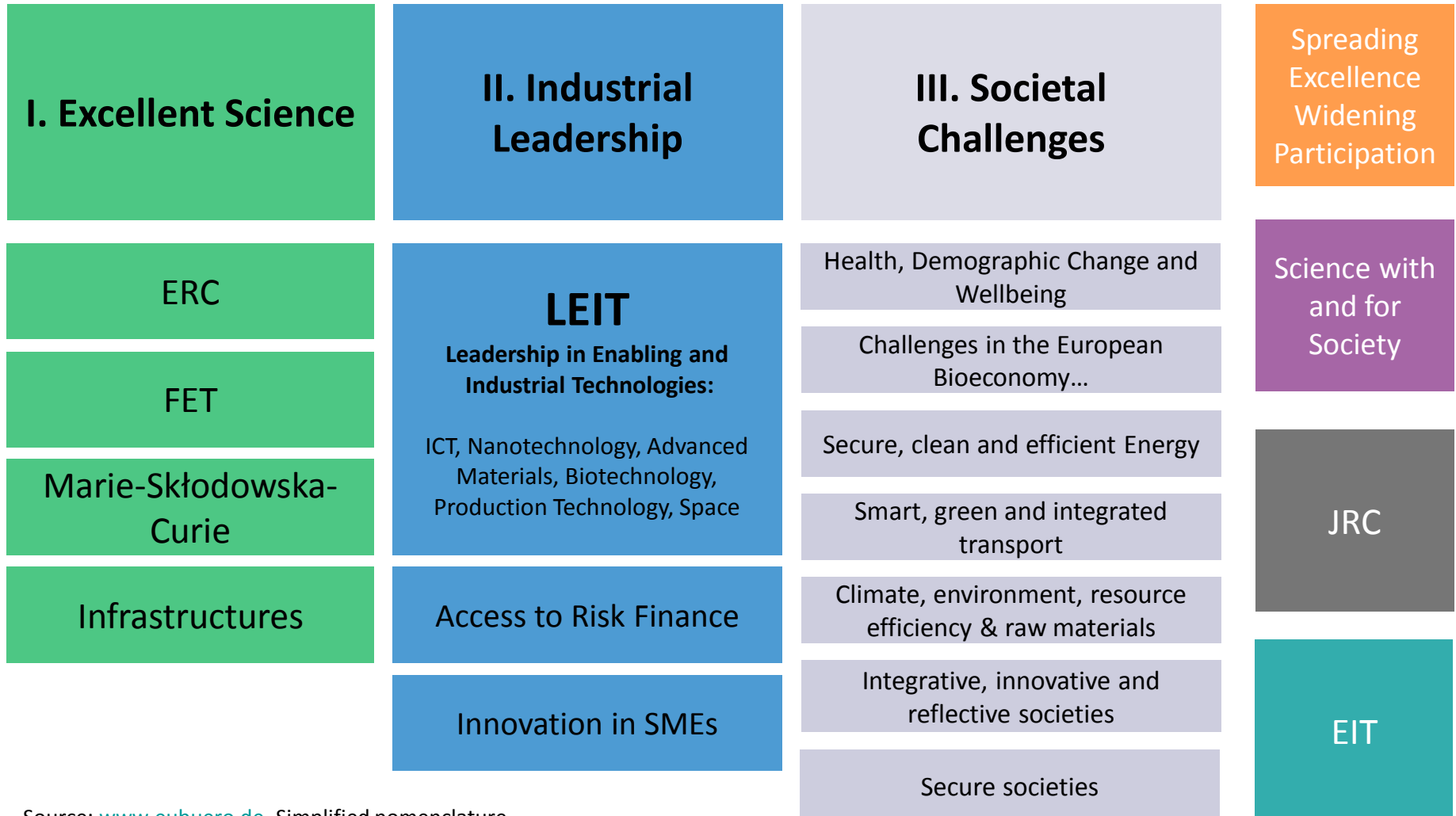
Marcel Krönert

National Contact Point Environment Germany

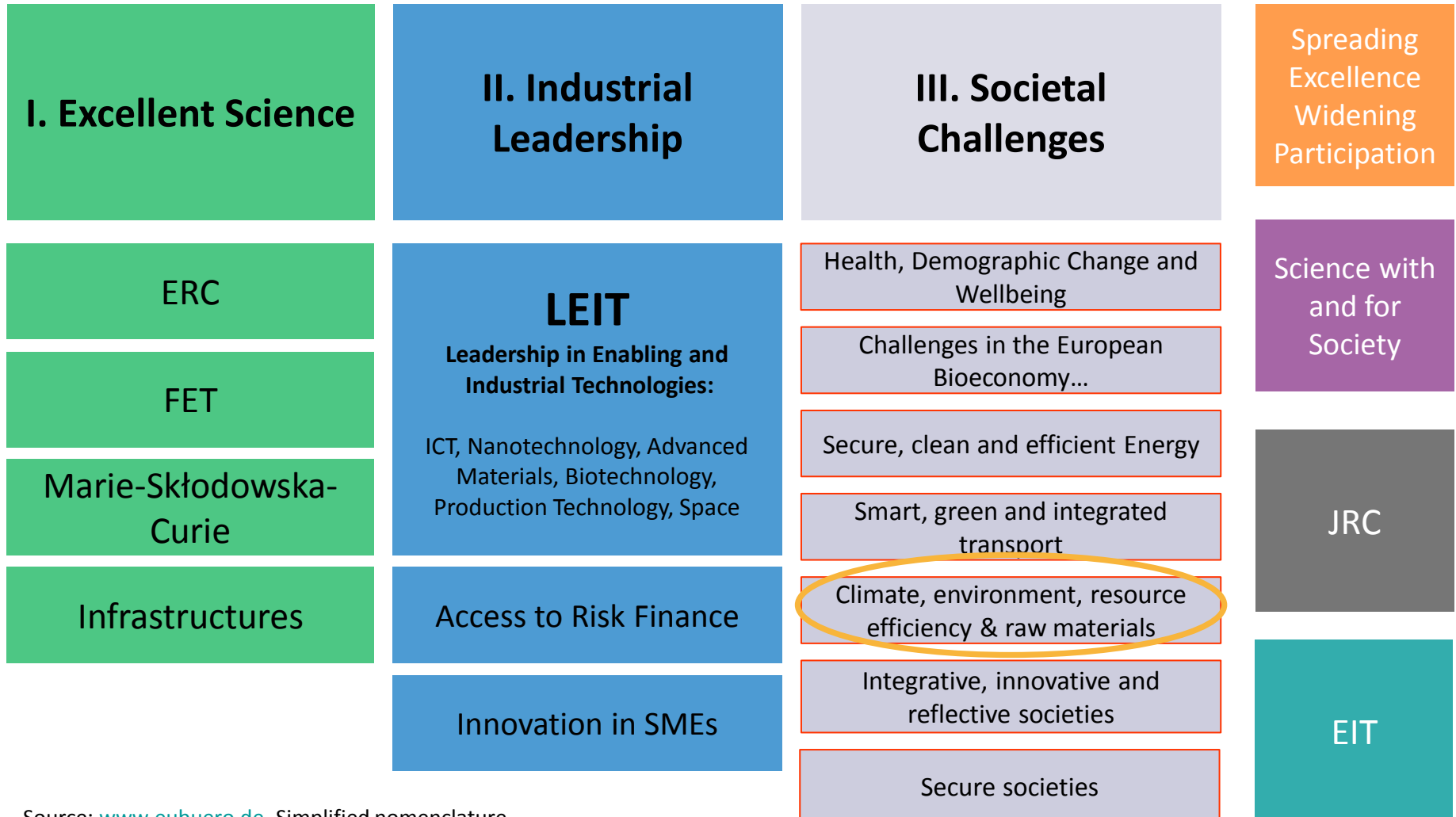
Content

- I. From Horizon 2020 to Work Programme SC5
- II. Societal Challenge 5: Work Programme 2016/17
- III. Important Instruments
- IV. Evaluation Criteria
- V. Evaluation and grant procedure

Structure of Horizon 2020



Structure of Horizon 2020

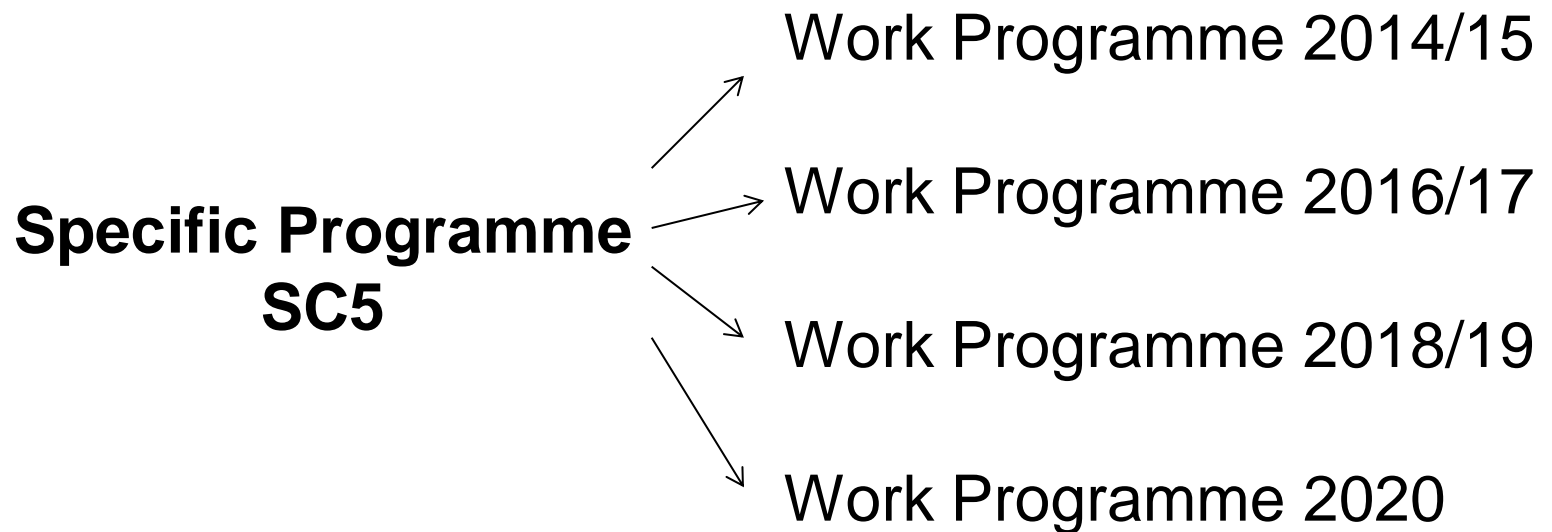


SC5: Climate action, environment, resource efficiency and raw materials

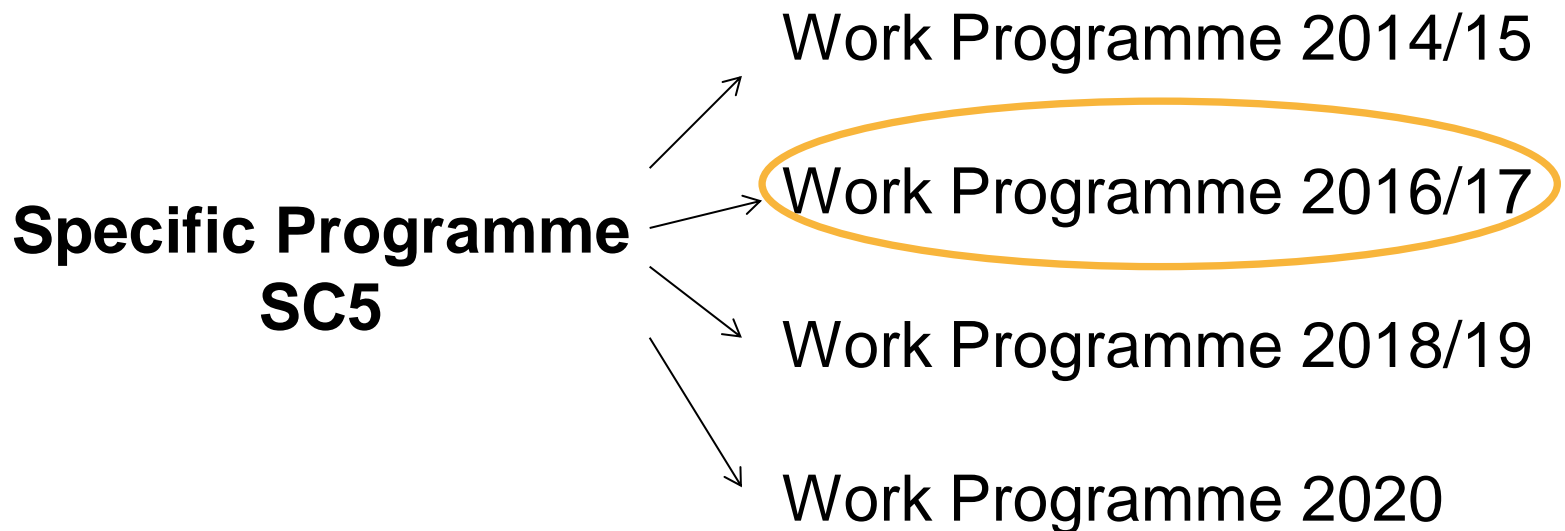
Structure of the *Specific Programme* (2014-2020)

- 5.1: Fighting and adapting to **climate change**
- 5.2: Sustainably managing **natural resources** and ecosystems
- 5.3: Sustainable supply of non-energy a. non-agricultural **raw materials**
- 5.4: Transition towards a green economy through **eco-innovation**
- 5.5: Global environmental observation and **information systems**
- 5.6: **Cultural heritage**

From Horizon 2020 to Work Programme SC5



From Horizon 2020 to Work Programme SC5



WP 2016/17 to be released in October this year
First *calls* to be opened on **9th of December**

From Horizon 2020 to Work Programme SC5

Work Programme XY (time span)

Call Name

Area A

–Topic 1

–Topic 2

– Sub-Topic 2a

– Sub-Topic 2b

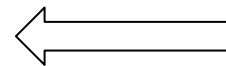
–Topic 3

Area B

- Topic 4

Call Name

...



My project?

SC5: Work Programme 2016/17

Call - Greening the Economy

Area 1: CLIMATE SERVICES (5 Topics)

Area 2: TOWARDS A LOW-CARBON EUROPE
(2 Topics)

Area 3: NATURE BASED SOLUTIONS for
territorial resilience (3 Topics)

Area 4: WATER (2 Topics)

SC5: Work Programme 2016/17

Call - Greening the Economy

Area 5: RAW MATERIALS (5 Topics)

Area 6: EARTH OBSERVATION (3 Topics)

Area 7: CULTURAL HERITAGE for sustainable growth (2 Topics)

Area 8: Preparing for INNOVATION
PROCUREMENT (7 Topics)

Total Number of Topics in the Call: 29

SC5: Work Programme 2016/17

PLUS:

- FAST TRACK TO INNOVATION (on going)
- SME-INSTRUMENT (on going)
- Other Actions

Total Budget **2016**: 358,55 M €

2017: 367,15 M €

Other calls relevant to environmental research

- **Call - Circular Economy** (5 Topics)
- **Call - Smart and Sustainable Cities** (4 Topics)
- *Work Programme for „Cross-Cutting Activities“*

Example: **Raw Materials 2016/2017** (Area 5)

Main goals

- Securing the supply of minerals and metal through sustainable innovative production technologies
- Implementation of EU Raw Material strategies and policies: **EIP** on Raw Materials, **KIC** on Raw Materials,...
- Co-ordination of Member States' research programmes, international cooperation

Example: Raw Materials 2016/2017

Topic-ID	Titel	Instrument
SC5-13-2016/17	New solutions for sustainable production of raw materials	RIA
SC5-14-2016/17	Raw materials Innovation actions	IA
SC5-15-2016/17	Raw materials policy support actions	CSA
SC5-16-2016/17	Raw materials international cooperation	CSA
SC5-17-2016	ERA-NET Cofund on Raw materials	ERA-NET Cofund



Example: Raw Materials 2016/2017

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SC5-16-2016/17	Raw materials international cooperation	CSA
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SC5-14-2016a: Intelligent Mining on Land

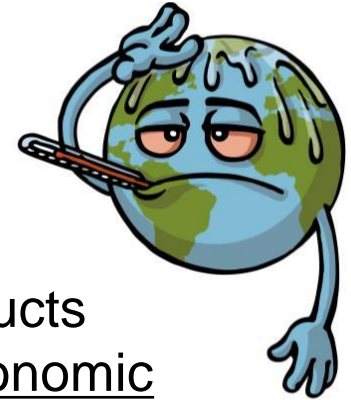
Specific challenge: EU dependency on raw materials, precondition for economic growth and competitiveness, how to meet ambitious EU energy and climate goals

Scope: demonstrating intelligent mining systems to avoid exposure of workers in dangerous operations, increase efficiency, minimise environmental impacts

Expected impact: achieve targets of EIP Raw Materials, competitive technology advantage, generate know how, create new jobs

SC5-14-2016 BUDGET: 28 M €

Example 2: **Climate Services** (Area 1)



“The transformation of climate-related data – together with other relevant information – into customised products such as projections, forecasts, information, trends, economic analysis, assessments (including technology assessment), counselling on best practices, development and evaluation of solutions and any other service in relation to climate that may be of use for the society at large.

Data information and knowledge that support adaptation, mitigation and disaster risk management (DRM).”

Source: Roadmap for Climate Services (EC)

Example 2: Climate Services

Topic-ID	Titel	Instrument
SC5-01-2016/17	Exploiting the added value of climate services	IA
SC5-02-2017	Integrated European regional modelling and climate prediction system	RIA
SC5-03-2016	Climate services market research	RIA
SC5-04-2017	Towards a robust and comprehensive greenhouse gas verification system	RIA
SC5-05-2016	A 1.5 million year look into the past for improving climate predictions	CSA

Example 3: **Circular Economy**

- to promote a high level of protection for humans and the environment, and bring major economic benefits
- more products are made out of secondary raw materials
- waste as a valuable resource
- innovative business models retain physical goods longer and more efficiently in productive use
- development of innovative solutions and new markets are a key element

Example 3: **Circular Economy**

Topic-ID	Titel	Instrument
CIRC-01-2016/17	Systemic, eco-innovative approaches for the circular economy: large-scale demonstration projects	IA
CIRC-02-2016/17	Water in the context of the circular economy	IA
CIRC-03-2016	Smart Specialisation for systemic eco-innovation/circular economy	CSA
CIRC-04-2016	New models and economic incentives for circular economy business	RIA
CIRC-05-2016	Unlocking the potential of urban organic waste	RIA



Deadlines

One-stage Topics:
(RIA / CSA)

March 8th 2016

Two-stage Topics:
(IA)

March 8th 2016
Sept. 6th 2016

[2017]

One-stage Topics:
Two-stage Topics:

March 7th 2017
Sept. 5th 2017

Too complicated?

Consult the participant portal!

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





My Organisation(s)

My Proposal(s)

My Project(s)

My Notification(s)

My Expert Area

Horizon 2020

Search Topics

Calls

Call Updates

Other EU Programmes 2014-2020

Research Fund for Coal & Steel

COSME

3rd Health Programme

Consumer Programme

FP7 & CIP Programmes 2007-2013

Calls

Call Updates

Other Funding Opportunities

Horizon 2020

- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, environment, 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
- Spreading excellence and widening participation**
- Teaming of excellent research institutions and low performing RDI regions
- Twinning of research institutions
- ERA chairs

Type

Proposal

Tender

Status

Open

Closed

Forthcoming

Filter a call

FILTER

Filters only programme and call titles and IDs, for extended search go to the [Search Topics page](#).

Sort by

Title

Call Id

Publication Date

Deadline Date

Societal Challenges

Water Innovation: Boosting its value for Europe

H2020-WATER-2015-two-stage

Deadlines: 16/10/2014

Pub.Date: 11/12/2013

Societal Challenges

Water Innovation: Boosting its value for Europe

H2020-WATER-2015-one-stage

Deadlines: 10/03/2015

Pub.Date: 11/12/2013

Societal Challenges

Growing a Low Carbon, Resource Efficient Economy with a Sustainab

...
H2020-SC5-2015-two-stage

Deadlines: 16/10/2014

Pub.Date: 11/12/2013

Societal Challenges

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Societal Challenges

Waste: A resource to recycle, reuse and recover raw materials

H2020-WASTE-2015-two-stage

Deadlines: 16/10/2014

Pub.Date: 11/12/2013

Societal Challenges

Waste: A resource to recycle, reuse and recover raw materials

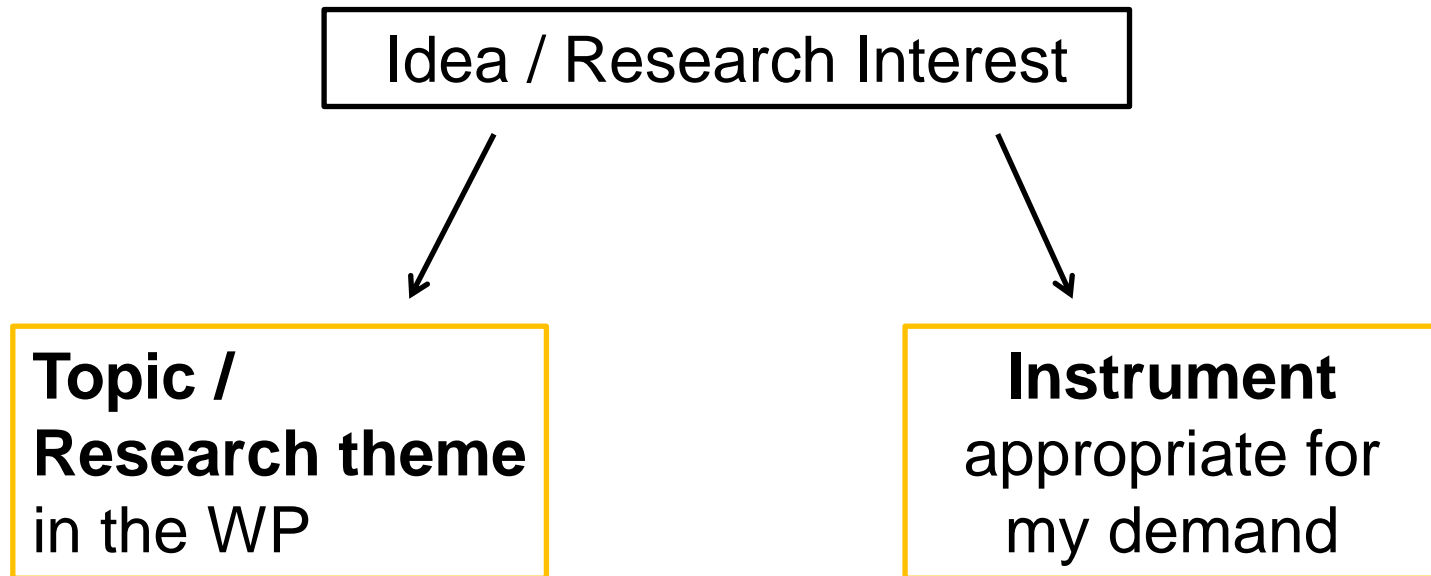
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Deadlines: 10/03/2015

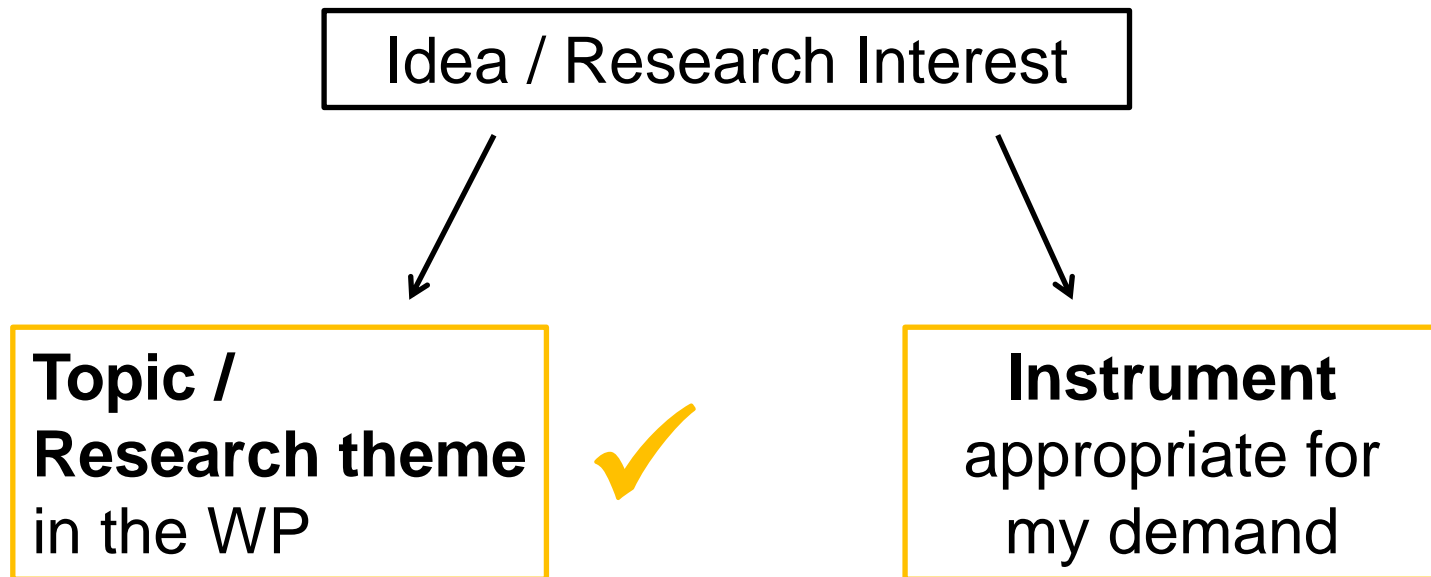
Pub.Date: 11/12/2013

In addition to the search facilities, the full list of H2020 Calls can be found [here](#).

How to find the suitable topic for my research or project idea?



How to find the suitable topic for my research or project idea?



What is an „instrument“ in Horizon 2020?

- indicates the general objectives of funding, e.g.: research, development, market entry, co-ordination
- is aimed at a target group
- implies certain funding rules, e.g.: funding rates
- is used with any kind of funding theme/topic in H2020



Instruments and funding rates I

Instrument	Objective	Funding rate
Research & Innovation Action (RIA)	Generation of knowledge (research), demonstration on a low scale	100%
Innovation Action (IA)	trigger innovation process for products, processes and services for the market	70% (100%)
Coordination & Support Action (CSA)	Standardisation, Dissemination, Support of cooperation and dialog	100%
ERA-Net Cofund	Transnational funding for <i>Funding & Innovation Agencies</i>	33% + nationale Förderung



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Instruments and funding rates I

Research and Innovation Action (RIA)

- ✓ Consortium
- ✓ 100% funding
- ✓ mainly research

Innovation Action (IA)

- ✓ Consortium
- ✓ 100% funding
- ✓ 70% funding for SME
- ✓ less research
- ✓ Close to market
- ✓ demonstration
- ✓ Products and services

Instruments and funding rates II

Instrument	Objective	Funding rate
SME Instrument	1. feasibility study 2. demonstration, testing, development of prototypes for the market	Phase 1: 50.000 € Phase 2: 70%
Fast Track To Innovation	Fast commercialisation of products and services	70%
Pre-Commercial- Procurement (PCP)	Project to facilitate sustainable commercial procurement	70%
Public Procurement of Innovative Solutions (PPI)	Project to find and procure innovative solutions in public procurement	20%



Instruments and funding rates II

Instrument	Objective	Funding rate
SME Instrument	1. feasibility study 2. demonstration, testing, development of prototypes for the market	Phase 1: 50.000 € Phase 2: 70%
Fast Track To Innovation	Fast commercialisation of products and services	70%
Pre-Commercial- Procurement (PCP)	Project to facilitate sustainable commercial procurement	70%
Public Procurement of Innovative Solutions (PPI)	Project to find and procure innovative solutions in public procurement	20%



Rules of participation

Instrument	MINIMUM participation
Research & Innovation Action (RIA)	three entities from three different member or associated states, being independent from each other
Innovation Action (IA)	
Coordination & Support Action (CSA)	One entity from a member or associated state
SME Instrument	one profit-orientated SME
Pre-Commercial-Procurement (PCP)	three entities from three different member or associated states, being independent from each other
Public Procurement of Innovative Solutions (PPI)	Plus: two independent public procurers



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Evaluation Criteria: RIA and IA

Excellence

Implementation

Impact

Evaluation Criteria: RIA and IA

EXCELLENCE

Implementation

Impact

- Clarity and pertinence of the objectives
- soundness of the concept
- credibility of the proposed methodology
- progress beyond State of the Art
- innovation potential
- interdisciplinary approaches
- use of stakeholder knowledge

BE EXCELLENT IN WHAT YOU DO!

Evaluation Criteria: RIA and IA

Excellence **IMPLEMENTATION** Impact

- workplan
- management structure
- consortium
- appropriate allocation of tasks and resources
- risk and innovation management

PLAN YOUR PROJECT PROPERLY!

Evaluation Criteria: RIA and IA

Excellence Implementation **IMPACT**

- expected impact in the topic description;
- innovation capacity;
- other impacts;
- exploitation, dissemination and communication

MAKE A DIFFERENCE!

Evaluation Criteria: RIA and IA

Excellence Implementation

IMPACT
Important!

- expected impact in the topic description;
- innovation capacity;
- other impacts;
- exploitation, dissemination and communication

For more information: see *GENERAL ANNEXES H*

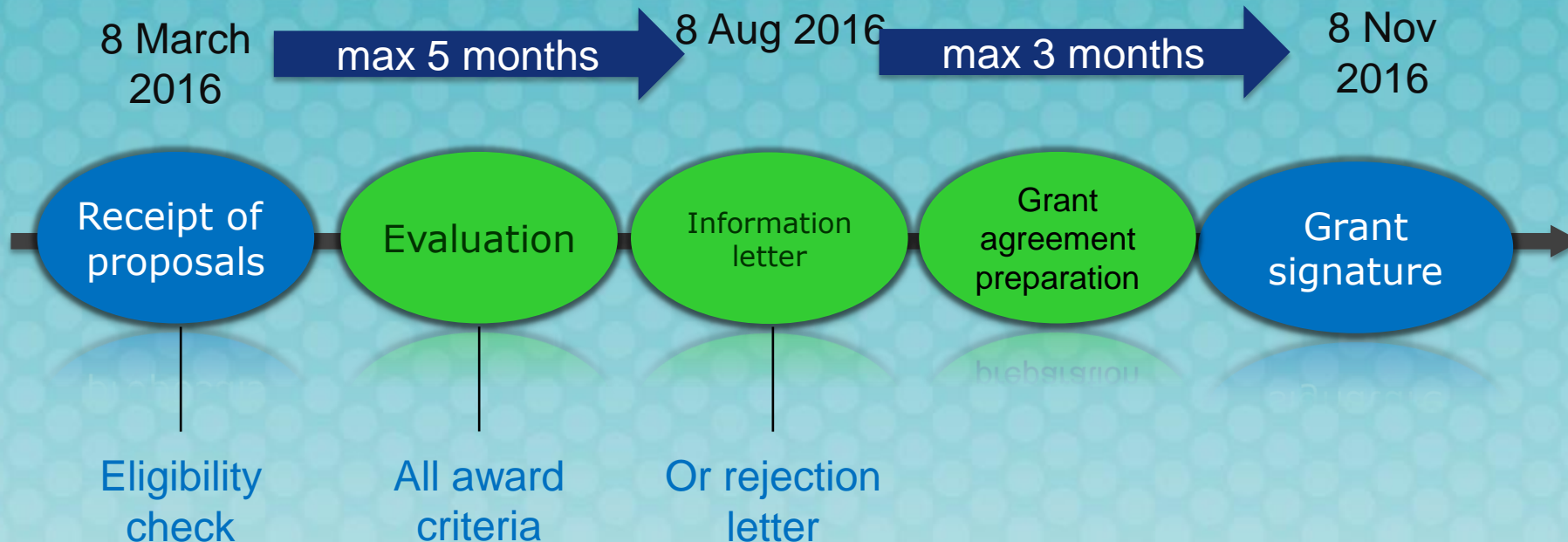


Evaluation and grant procedure

**From proposal to grant agreement:
the evaluation procedure**



One-stage topics:



Remember:

- ✓ Invest some effort to find out, where your idea, research or development interest matches EU funded topics *precisely*
- ✓ Be aware that instruments are aimed at certain objectives, try to align your project with these objectives (development means development, not research)
- ✓ Be aware of long lasting preparation and evaluation processes
- ✓ Questions? - Contact your NCP in *an early stage*

Useful Links

Participant Portal:

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

SC5 Work programme 2016/17 pre-publication:

https://ec.europa.eu/programmes/horizon2020/sites/horizon2020/files/12.%20SC5_2016-2017_pre-publication.pdf

NCP Environment Germany partnering tool:

www.nks-umwelt.de/partnersuche

NCP Environment Germany - newsletter subscription

<https://www.nks-umwelt.de/newslettersubscription>

Contact

National Contact Point Environment
Project Management Juelich, Berlin

Tel.: +49 (0) 30 20199-3215

nks-umwelt@fz-juelich.de

www.nks-umwelt.de



Offices in Germany: Berlin and Bonn



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NKS Umwelt

Backup slides



Associated states

Associated countries participate in Horizon 2020 under the same conditions as EU Member States.
13 states, as of August 2015:

- **Iceland**
- **Norway**
- **Albania**
- **Bosnia and Herzegovina**
- **the former Yugoslav Republic of Macedonia**
- **Montenegro**
- **Serbia**
- **Turkey**
- **Israel**
- **Moldova**
- **Switzerland (partial association, see below)**
- **Faroe Islands**
- **Ukraine**



International cooperation

Horizon 2020 is Open to the World. Participants from all over the world can participate in most of the calls of Horizon 2020. Furthermore, in many cases, the EU will fund the participation of the international partners.

International cooperation (in EU jargon) refers to cooperation with countries other than EU-member states and associated states



Innovation to meet the challenge

INNOVATION: *The successful exploitation of new ideas to produce **tangible benefits**, satisfying needs and wants*



Invention



Innovation

Invention IS NOT Innovation
Integration of users in the project is crucial