Overview

1. Horizon 2020
2. Societal Challenge 5
3. Work Programme 2014-15 – Results
4. DRAFT Work Programme 2016-17 – Overview
5. Lessons Learned
6. Support Available – Mark Sweeney
7. Contact us
What is Horizon 2020?

- €70 billion EU research and innovation funding programme (2014-2020)
- A core part of Europe 2020, Innovation Union & European Research Area:
  - Responding to the economic crisis to invest in **future jobs and growth**
  - Addressing **people’s concerns** about their livelihoods, safety and environment
  - **Strengthening the EU’s** global position in research, innovation and technology
Three Priorities

1. Horizon 2020

Excellent science

Industrial leadership

Societal challenges
Horizon 2020 Budget

- **Industrial Leadership**: EUR 17.0 billion
- **Excellent Science**: EUR 24.4 billion
- **Societal Challenges**: EUR 29.7 billion
- **European Institute of Innovation and Technology**: EUR 2.7 billion
- **Euratom (2014-2018)**: EUR 1.6 billion
- **Other**: EUR 3.2 billion
### Funding (€ million, 2014-2020)

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health, demographic change and wellbeing</td>
<td>7 472</td>
</tr>
<tr>
<td>Food security, sustainable agriculture, marine and maritime and inland water research &amp; the Bioeconomy</td>
<td>3 851</td>
</tr>
<tr>
<td>Secure, clean and efficient energy *</td>
<td>5 931</td>
</tr>
<tr>
<td>Smart, green and integrated transport</td>
<td>6 339</td>
</tr>
<tr>
<td>Climate action, environment, resource efficiency and raw materials</td>
<td>3 081 (4%)</td>
</tr>
<tr>
<td>Europe in a changing world-inclusive, innovative and reflective societies</td>
<td>1 309</td>
</tr>
<tr>
<td>Secure societies-protecting freedom and security of Europe and its citizens</td>
<td>1 695</td>
</tr>
<tr>
<td><em>Science with and for society</em></td>
<td>462</td>
</tr>
<tr>
<td><em>Spreading excellence and widening participation</em></td>
<td>816</td>
</tr>
</tbody>
</table>

*Additional funding for nuclear safety and security from the Euratom Treaty activities (2014-2018)*
Societal Challenge 5

Climate action, environment, resource efficiency and raw materials

Objective:

"to achieve a resource– and water– efficient and climate change resilient economy and society, the protection and sustainable management of natural resources and ecosystems, and a sustainable supply and use of raw materials, in order to meet the needs of a growing global population within the sustainable limits of the planet's natural resources and eco-systems."
Strategic Programming in H2020

- To increase impact of funding, and a more integrated approach by:
  - Bringing together activities from different challenges
  - Providing support across the innovation cycle
  - Use of funding schemes available

- Work programmes have a 2 year-duration
WP 2014/15 Structure

- Waste Call  ➙ Focus Area
- Water Call  ➙ Focus Area
- Societal Challenge 5 Call: Growing a Low Carbon, Resource Efficient Economy with a Sustainable Supply of Raw Materials

SC5 Themes
WP 2014 Results

Catalogue of 2014 Projects available from the EC

Low Participation from IE (37)
14% Success Rate (n. of applicants)
4% Success Rate (budget requested)
0.26% of the SC5 Budget
A lot of interest – Deadline was the 21/04/2015

Face-to-face meetings & Review of Proposals

**Preliminary Statistics:**

- **Water Call:** 362 proposals
  - 2-Stage topics: 337 proposals
  - 1-Stage topics: 25 proposals

- **Waste Call:** 319 proposals
  - 2-Stage topics: 313 proposals
  - 1-Stage topics: 6 proposals

- **SC5 Call:** 234 proposals
  - 2-Stage topics: 158
  - 1-Stage topics: 76
Draft Work Programme 2016-17

- AG Report (new Priority Areas) & Public Consultation (June 2014)
- Strategic Programming: Scoping Paper (Revised) – January 2015
- 1st “draft” WP2016/17 – February 2015 (09/02/2015)
- Call for Ideas for Large-Scale Demonstration Projects (28/02/2015 - > 400 submissions)
- Expert Group Reports on the Priority Areas (01/04/2015)
- 2nd “draft” WP2016/17 – April 2015 (01/04/2015)
WP 2016/17 Structure

- Industry 2020 in the Circular Economy
- Blue Growth
- Priority Areas with SC 5
  - Climate Services
  - Towards a low-carbon Europe
  - NBS for sustainable cities
  - Water
  - Raw Materials
  - Earth Observation
  - Cultural Heritage
EIPs are challenge-driven, focusing on societal benefits and a rapid modernisation of the associated sectors and markets.

European Institute of Innovation & Technologies

The EIT creates collaboration between innovation and excellence centres with the aim of boosting the innovation process

http://eit.europa.eu/
EIT Knowledge Innovation Communities

KICs carry out a whole range of activities, covering the entire innovation chain – including training and education programmes, reinforcing the journey from research to the market, innovation projects and business incubators. KICs react in an effective and flexible way to new challenges and changing environments.

http://eit.europa.eu/

The EIT's first three KICs were launched in 2010:

- **Climate-KIC**: addressing climate change mitigation and adaptation
- **EIT ICT Labs**: addressing information and Communication Technologies
- **KIC InnoEnergy**: addressing sustainable energy

and a further two in 2014:

- **EIT Health**: addressing healthy living and active ageing
- **EIT Raw Materials**: addressing sustainable exploration, extraction, processing, recycling and substitution
Means to implement the Strategic Research Agendas (SRAs) of a limited number of European Technology Platforms (ETPs). Implemented via Joint Undertakings, that manage research projects - JUs have a dedicated budget and staff - They organise calls for proposals

- Innovative Medicines Initiative (IMI)
- Aeronautics and Air Transport (Clean Sky)
- Fuel Cells and Hydrogen (FCH)
- Embedded Computing Systems (ARTEMIS)
- Nanoelectronics Technologies 2020 (ENIAC)
The contractual PPPs do not organise their own calls - funding is awarded through Horizon 2020 open calls.

*Each euro of public funding is expected to trigger additional investments of between three and 10 euro to develop new technologies, products and services which will give European industry a leading position on world markets.*

- Factories of the Future (FoF)
- Energy-efficient Buildings (EeB)
- Sustainable Process Industry (SPIRE)
- European Green Vehicles Initiative (EGVI)
- Photonics
- Robotics
- High Performance Computing (HPC)
- Advanced 5G networks for the Future Internet (5G)
Joint Programming Initiatives

Water JPI

JPI Climate

FACCE JPI

Cultural Heritage: A Challenge for Europe

Urban Europe Joint Programming Initiative

JPI Oceans
Experts Groups Reports

From Niche to Norm
Suggestions by the Group of Experts on a “Systemic Approach to Eco-Innovation to achieve a low-carbon, Circular Economy”

Getting cultural heritage to work for Europe

Roadmap for Climate Services

Towards an EU Research and Innovation policy agenda for Nature-Based Solutions & Re-Naturing Cities
FP7 Project: Voices for Innovation
FP7 Project: CASI
Public Participation in Developing a Common Framework for Assessment & Management of Sustainable Innovation
The contents of the next slides are based on the DRAFT WP2016-17 version of 01/04/2015 and are subject to change.
Industry 2020 in the Circular Economy

Systemic Innovation: Responding to a societal challenge by obtaining a systems-wide transformation
Trans-disciplinary Perspective

Actions aiming at demonstrating the economic & environmental feasibility of the circular economy approach

7th Environmental Action Programme (2014) Towards a Circular Economy
(2014) European Industrial Renaissance
EU Env. Technology Verification (ETV)
## Industry 2020 in the Circular Economy

### Provisional topic ref. | Actions | funding type | 2016 | 2017
--- | --- | --- | --- | ---
CIRC-1-2016/2017 | Systemic, eco-innovative approaches for circular economy: large scale demonstration projects  
- 2016: Design for circular value and supply chains  
- 2017: Systemic services for the circular economy | IA | x | x
CIRC-2-2016/2017 | Water in the context of the circular economy:  
- 2016: Demonstrating the potential of efficient nutrient recovery from water  
- 2017: Towards the next generation of water systems and services – large-scale demonstration projects | IA | x | x
CIRC-3-2016 | Smart Specialisation for systemic eco-innovation/circular economy | CSA | x |  
CIRC-4-2016 | New models and economic incentives in circular economy business | RIA | x |  

### Budget:
- CIRC-1 & 2: €80m in 2016 / €70m in 2017
- CIRC-3: €1.5m (up to 1 project)
- CIRC-4: €3m (up to 1 project)
Global warming in Artic => Geo-political & geo-economic consequences; global consequences (impacts on sea-level, weather patterns, extreme events, socio-economic impacts)

- Identify potential thresholds affecting Artic ecosystems & society
- Artic Observing Systems
- Impacts on weather & climate (modelling)
- Ecological & Socio-economic impacts of Climate Change OR Impacts of Climate Impacts on Permafrost

Dev. of EU Policy towards Artic Region
WMO Programme Year of Polar Prediction

Transatlantic Ocean Research Alliance
Sustaining Artic Observation Networks
Cold Region Initiative – GEO
EU Atlanta Project
Copernicus
European Space Agency
### Blue Growth

#### 4. SC5 WP 2016/17

<table>
<thead>
<tr>
<th>Provisional topic ref.</th>
<th>Actions</th>
<th>funding type</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Unified integrated Arctic Observing System</td>
<td>RIA</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Impact of Arctic changes on the weather and climate of the Northern Hemisphere</td>
<td>RIA</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>3</td>
<td>Climate impacts on Arctic ecosystems, resources and new economic activities OR Climate impacts on Arctic permafrost, with a focus on coastal areas, and their socio-economic impact</td>
<td>RIA</td>
<td></td>
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</tr>
</tbody>
</table>

**Budget:**
- Topics 1 & 2 – 2016: €30m
- Topic 3 – 2017: €10m
Priority Areas within SC5

Systemic approach to promote a more resource efficient, greener and more competitive economy, as part of Smart, Inclusive Sustainable Growth

- Climate Services
- Towards a low-carbon Europe
- NBS for sustainable cities
- Water
- Raw Materials
- Earth Observation
- Cultural Heritage

Systemic Innovation
EU-Global approach

Trans-disciplinary approach
Social sciences & humanities essential

H2020 Objectives:
35% of H2020 budget towards Climate
60% support Sustainable Development

- GEOSS, Copernicus, ESA
- Rio+20/post 2015
- IPCC
- Belmont Forum
- LIFE
- NCFF
- JPIs
- EIT KICs
SC5 – Climate Services & Towards a Low-Carbon EU

- To build EU’s capacity to respond & improve resilience to climate change
- Strengthening the market for climate-services for mitigation & adaption needs
- Translation of existing climate data & info. into tools, products & info.
- Define & match the demand of end-users
- Assess barriers & constraints
- Develop adequate interfaces between suppliers & users
- Uptake of climate information & services in decision-making process

Copernicus climate change services
H2020 ERAnet on Climate Services
Climate JPI, UNFCCC
Global Carbon Project, Future Earth
International Partnership in Ice Core Sciences

IPPC 5th Assessment Report
Pres. Juncker’s commitment to fight global warming
Roadmap for Climate Services
Roadmap for moving to a low-carbon economy by 2050

Not only about networking, assessing knowledge gaps, developing supply-driven methodologies
## Climate Services & Towards a Low-Carbon Europe

<table>
<thead>
<tr>
<th>Provisional topic ref.</th>
<th>Actions</th>
<th>Actions</th>
<th>Actions</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC5-1-2016/2017</td>
<td>The added value of climate services</td>
<td>a) 2016: Demonstration of climate services</td>
<td>b) 2017: From climate service concepts to piloting and proof-of-concept</td>
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<tr>
<td>SC5-2-2017</td>
<td>Integrated European regional modelling and climate prediction system</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SC5-3-2016</td>
<td>Climate services market research</td>
<td></td>
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<tr>
<td>SC5-4-2016</td>
<td>Towards a robust and comprehensive greenhouse gas verification system</td>
<td></td>
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</tr>
<tr>
<td>SC5-5-2016</td>
<td>A 1.5 million year look into the past for improving climate predictions</td>
<td></td>
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</tr>
<tr>
<td>SC5-6-2016-2017</td>
<td>Pathways towards the decarbonisation and resilience of the European economy in the timeframe 2030-2050 and beyond</td>
<td>a) 2016: Managing technology transition</td>
<td>b) 2016: Assessment of the global mitigation efforts in the perspective of the long-term climate goal</td>
<td>c) 2017: The risks and costs of climate change for Europe</td>
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<tr>
<td>SC5-7-2017</td>
<td>Coordinating &amp; supporting R&amp;I actions on decarbonisation of EU economy</td>
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</tbody>
</table>

**Budget: RIAs and IAs:**

€40m in 2016;
€43m in 2017
SC5 – NBS for sustainable urbanisation and territorial resilience

- Innovation through NBS => Improve economic, social & environmental resilience of cities, rural & natural areas
- NBS: Cost-effective, locally attuned, resource efficient, multi-purpose, multi-functional and multi-beneficial
  - Sustainable Cities through NBS
  - Governance, business, financing models
  - NBS for hydro-meteorological risk reduction
  - Insurance value of ecosystems
  - Multi-Stakeholder dialogue platform

Experts Group Report
EU Water Framework Directive
7th Environmental Action Programme
EU Biodiversity Strategy to 2020
EU Climate Change Adaptation Strategy
Water Blueprint
EU Com. On Green Infrastructures
UN Sustainable Development Goals
UN Conventions on biodiversity/soil & land management/disaster risk reduction
Sendai Framework for Disaster Risk Reduction 2015-2030
Green Paper on the insurance of natural and man-made disasters

BIODIVERSA ERA.net
H2020 2015 Project on EU Mechanism for Biodiversity & Ecosystem Services
SC5 – NBS for sustainable urbanisation and territorial resilience

Sustainable Cities through NBS:

- Large-Scale demonstration projects (@ district level)
- Front-runners (@ least 2), Followers cities (@ least 3)
- Replicability: knowledge transfer, mentoring & support
- NBS: innovative, untested & replicable
- Additional complementary & follow-up funding
  SHOULD be sought (e.g. ERDF / RIS3)
- SSH: essential
- International Cooperation: encouraged - China

  Climate and Water Resilience
  Inclusive Urban Regeneration
## 4. SC5 WP 2016/17

### NBS for sustainable urbanisation and territorial resilience

<table>
<thead>
<tr>
<th>Provisional topic ref.</th>
<th>Actions</th>
<th>funding type</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
</table>
| SC5-8-2016/2017        | Sustainable cities through nature-based solutions  
                        - 2016: Demonstrating innovative nature-based solutions for climate and water resilience in cities  
                        - 2017: Nature-based solutions for inclusive, equitable and liveable cities (including regeneration of deprived districts and neglected or abandoned areas) | IA           | x    | x    |
| SC5-9-2016             | New governance, business, financing models & economic impact assessment tools for sustainable cities with nature-based solutions (urban re-naturing) | RIA          | x    |      |
| SC5-10-2017            | Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction   | IA           |      | x    |
| SC5-11-2016            | Insurance value of ecosystems                                                                | RIA          |      | x    |
| SC5-12-2016            | Multi-stakeholder dialogue platform to promote innovation with nature to address societal challenges | CSA          |      | x    |

**Budget:**  
RIAs and IAs:
€60m in 2016; €65m in 2017
**SC5 – Water**

Water issues now addressed across the whole of Horizon 2020

Integrated in LEIT and several SC

Under SC5:

- CIRC-2-2016/2017: Water in the context of the circular economy
- SC5-1-2016/2017: The added value of climate services
- SC5-2-2017: Integrated European regional modelling and climate prediction system
- SC5-3-2016: Climate services market research
- SC5-8-2016/2017: Sustainable cities through nature-based solutions
- SC5-10-2017: Large-scale demonstrators on NBS for hydro-meteorological risk reduction

**Water JPI**

**EIP on Water**

**PRIMA**

**EU Water Framework Directive**

**7th Environmental Action Programme**

**Water Blueprint**

**UN Sustainable Development Goals**
### Water

**SC5-13: Support to the Water JPI**
**SC5-14: Support to PRIMA initiative**

<table>
<thead>
<tr>
<th>Provisional topic ref.</th>
<th>Actions</th>
<th>funding type</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC5-13-2016</td>
<td>Supporting international cooperation activities on water</td>
<td>CSA</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>SC5-14-2016 or 2017</td>
<td>Food systems and water resources for the development of inclusive, sustainable and healthy Euro-Mediterranean societies (<em>support to PRIMA initiative</em>)</td>
<td>tbc</td>
<td></td>
<td>?</td>
</tr>
</tbody>
</table>
SC5 – Raw Materials

Securing supply of minerals & metals through innovative production technologies for primary & secondary materials

- *Bio-based materials (wood-based & natural rubber) => SC2 and Joint Undertaking for Bio-Based Industries & SC5-17g*
- *Substitution of critical and scarce raw materials => NMBP & SC5-17h*
- *Resource efficiency, re-use & product LCA => Industry 2020 in the Circular Economy Call*

RIAs: TRL 4-5 / industrially-driven consortia

IAs: Building on Raw Materials call from WP2014/15 (TRL 3-6) => TRL 6-8 in this call (viability of cost-effective, environmentally sound & safe production of primary and secondary raw materials) / Industrially-driven consortium

CSAs => Framework conditions, building EU knowledge base, coordination of MS research & international cooperation

EU Raw Materials Policy
INSPIRE Directive
2014 Recommendations on the framework conditions for the extraction of non-energy raw materials in the EU
### Raw Materials-1

<table>
<thead>
<tr>
<th>Topic ref.</th>
<th>Actions</th>
<th>funding type</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
</table>
| SC5-15-2016/2017 | New solutions for sustainable production of raw materials:  
a) 2017: New sensitive exploration technologies  
b) 2016: Sustainable selective low impact mining  
c) 2016: New technologies for the enhanced recovery of by-products | RIA           |      | x    |
| SC5-16-2016/2017 | Raw materials innovation actions:  
a) 2016: Intelligent mining  
b) 2017: Processing of lower grade and/or complex primary and secondary raw materials in the most sustainable and economical ways  
c) 2017: Sustainable metallurgical processes | IA            | x    |      |
| SC5-17-2016/2017 | Raw materials policy support actions:  
a) Public awareness, acceptance & trust in mining-Social License to Operate (SLO)  
b) Support to standardisation for recovery of critical raw materials from specific types of waste  
c) Good practice in waste collection systems  
d) Linking land use planning policies to national mineral policies  
e) Optimizing collection of raw materials data in Member States  
f) EU network of mining and metallurgy regions  
g) EU network of regions on sustainable wood mobilisation (wood supply)  
h) Expert network on Critical Raw Materials | CSA           |      |      |
## Raw Materials-2

<table>
<thead>
<tr>
<th>Topic ref.</th>
<th>Actions</th>
<th>funding type</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC5-18-2016/2017</td>
<td>International raw materials cooperation:</td>
<td>CSA</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td></td>
<td>a) Demand-supply forecast and raw materials flows at global level</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>b) International network of raw materials training centres</td>
<td>CSA</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td></td>
<td>c) Advancing the idea of a World Forum on Raw Materials</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SC5-19-2016</td>
<td>ERA-NET Co-fund on Raw materials</td>
<td>ERANET Cof.</td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>

**Budget:**
- €64.17m in 2016;
- €75.65m in 2017
SC5 – Earth Observations

To maximise the benefits for EU Citizens of the Earth Observation infrastructure
Innovative solutions to complete the in-situ component of the GEOSS & Copernicus and make available an operational information system for validated Earth observation datasets

SC5 Focus:
- Stimulate the smart use of strategic resources
- Support development of evidence-based policies
- Foster new environmental & climate services
- Develop new market opportunities

INSPIRE
Reuse of Public Sector Information
# Earth Observations

## 4. SC5 WP 2016/17

<table>
<thead>
<tr>
<th>Provisional topic ref.</th>
<th>Actions</th>
<th>funding type</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC5-20-2017</td>
<td>Novel in-situ observation systems</td>
<td>RIA</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>SC5-21-2017</td>
<td>Coordination of citizen observatories initiatives</td>
<td>CSA</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>SC5-22-2016</td>
<td>European data hub of the GEOSS information system</td>
<td>RIA</td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>

**Budget:**
RIAs and IAs:
€20m in 2016; €15m in 2017
SC5 – Cultural Heritage for Sustainable Growth

To harness the full potential of cultural heritage as a strategic resource for a sustainable Europe

To promote cultural heritage as a production (rather than cost) factor and an investment opportunity

- Large-Scale demonstration projects developing & deploying novel heritage-led solutions for sustainable growth (urban/rural)
  - 6 “Role Models” and 3 “Replicators”
- RIA on Financing, business & governance models

Experts Group Report
JPI on Cultural Heritage
Energy efficient Buildings
PPP
EU Construction TP

EU Com: Towards an integrated approach to cultural heritage for Europe
Councils Conclusions 2014
EU Com. Promoting cultural and creative sectors for growth and jobs in the EU
EU Agenda for Culture,
EU Com. On Green Infrastructure <...>
### Cultural Heritage for Sustainable Growth

<table>
<thead>
<tr>
<th>Provisional topic ref.</th>
<th>Actions</th>
<th>funding type</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC5-23-2016/2017</td>
<td>Cultural heritage as a driver for sustainable growth</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>- 2016 Heritage-led urban regeneration</td>
<td>IA</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 2017 Heritage-led rural regeneration</td>
<td>IA</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>SC5-24-2017</td>
<td>Innovative financing, business and governance models for adaptive re-use of cultural heritage</td>
<td>RIA</td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>

**Budget:**
RIAs and IAs:
€10m in 2016; €15m in 2017
### 4. SC5 WP 2016/17

**Support to Policy, PCP/PPI and prizes**

<table>
<thead>
<tr>
<th>Priorities</th>
<th>Actions</th>
<th>funding type</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC5-25-2016/2017</td>
<td>Support to confirmed Presidency events (conferences)</td>
<td>CSA</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>SC5-26-2016</td>
<td>Macro-economic and societal benefits from creating new markets in a circular economy</td>
<td>CSA</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>SC5-27-2017</td>
<td>Pre-commercial procurement (PCP) on soil decontamination</td>
<td>PCP</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>SC5-28-2016</td>
<td>Preparing for pre-commercial procurement (PCP) and/or public procurement of innovative solutions (PPI) in support of climate action, environment, resource efficiency and raw materials</td>
<td>CSA</td>
<td>x</td>
<td></td>
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<tr>
<td>SC5-29-2016/2017</td>
<td></td>
<td>CSA</td>
<td></td>
<td>x</td>
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<tr>
<td>SC5-30-2016</td>
<td>Framework Partnership Agreement supporting Joint Actions towards a sustainable green economy in Europe and beyond</td>
<td>FPA</td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>

**Budget:**
- PCP: €5M in 2017
- CSAs (all SC5 areas except for specific raw materials CSAs): €8.6m in 2016; €5.3m in 2017
## SC5 – Other Actions

<table>
<thead>
<tr>
<th>Provisional topic ref.</th>
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<th>funding type</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Support to GEO secretariat</td>
<td>Subscription</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>2</td>
<td>Support to IPCC secretariat</td>
<td>Grant to named beneficiary</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Support to the EU's raw materials policy:</td>
<td>Admin.Arrangmt with JRC</td>
<td></td>
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<tr>
<td></td>
<td>- technical assistance (2016/2017)</td>
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<tr>
<td></td>
<td>- EIP secretariat (2016/2017)</td>
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<tr>
<td>4</td>
<td>Specific Grant Agreements for ERA-NET Cofund actions</td>
<td>Specific Grant Agreements (following signature of FPA) for ERANET Cofund actions</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>supporting joint Actions towards sustainable green economy in Europe and beyond:</td>
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<tr>
<td></td>
<td>- Strategic EU research and innovation for systemic eco-innovation</td>
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<td></td>
<td>- Transformations to sustainability</td>
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<tr>
<td></td>
<td>- Sustainable urbanisation</td>
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<td></td>
<td>- Climate services roadmap implementation</td>
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<td></td>
<td>- Closing the water cycle gap</td>
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</tbody>
</table>
## SC5 – Contributions to other Calls

<table>
<thead>
<tr>
<th>Calls</th>
<th>Actions</th>
<th>funding type</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>SME Instr. call</td>
<td>Boosting the potential of small businesses in the areas of SC5</td>
<td>SME Instr</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td></td>
<td>Indicative budget: €25M in 2016, €27.5M in 2017</td>
<td></td>
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<tr>
<td>FTI call</td>
<td>approx. contribution €7M in 2016 (tbc), in 2017 tbc</td>
<td>FTI p.m.</td>
<td>x</td>
<td>?</td>
</tr>
<tr>
<td>SC3 WP</td>
<td>Cross-thematic ERA-NET on applied geosciences</td>
<td>ERANET Cof.</td>
<td>x</td>
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</tr>
<tr>
<td></td>
<td>Indicative budget contribution from SC5: €6M in 2016</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
Proposals need to address the **FULL** scope of the topic

Proposals need to be more **INNOVATIVE & AMBITIOUS**

For 2-stage topics: **IMPACTS** should be given as much attention as Excellence (same marks)

Check the composition of your consortium based on:
- Type of organisations
- Geographical Balance
- Trans-disciplinarity (don’t forget SSH)
- Gender Balance
Section 1.1 Objectives: should list the project objectives against measurable milestones/deliverables and set in the context of the Topic Expected Impacts

Section 1.2. Relevance to the WP: should be organised based on the contents of the Challenge and Scope

Section 1.3 Concept & Approach: should provide
- Concept (assumptions/models)
- Positioning (TRLs)
- R&I Activities related to project and links
- Overall approach - a short description of the Work Package in the overall context of the proposal objectives and topic impacts / Description of Project Team (in terms of coverage of discipline / type of organisations / demonstrators, etc.)

Gender !!!
Section 2. Impacts: should be based on the Topic Expected Impacts / also provide an idea of stakeholders; end-users; lead-user (who will use the outputs of the project) / Indicators of success
Societal Challenge 5 Support Team

**CLIMATE ACTION, ENVIRONMENT, RESOURCE EFFICIENCY AND RAW MATERIALS**

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Environmental Protection Agency
01-2680146
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a.wemaere@epa.ie
What We Offer

- Information days
- Dissemination
- Contact / Support
- Review of proposals
- Partner Search Facility
- Online Catalogue of Irish Expertise

Any suggestions?
Let us know if you intend to apply!
6. Support Available

Tips for Beginners

Networking, Networking, Networking....

- Clarify your Scientific Niche
- Identify *Who is Who* in this Scientific Niche
- Join the relevant European Associations & Networks
- Get involved in the “Background Initiatives” (JPIs, EIPs,... )
- Establish a Role (“Participate”) in the European Scientific Community
- Clear Idea of your proposed contribution
- Promote Scientific Expertise to future partners
- Become a “Guru” on Horizon 2020
- Participate first as partner (CSA, FS, Small research projects)

Contact Us!!!
Networking, Networking, Networking, Networking....
Monthly Update Email

6. Support Available

Update on Horizon 2020 Societal Challenge 5 and other related activities

Public Consultation on the Water JPI Strategic Research and Innovation Agenda

The Water Joint Programming Initiative (JPI) launched the new version of the Water JPI Strategic Research and Innovation Agenda (SRIA 1.0) in June 2014.

A public consultation on the Research Needs identified in the Water JPI SRIA is now open until the 24th May 2015.

Click here to complete the survey
Since the launch of the H2020 Catalogue of Environmental Expertise, there have been
> 94,000 Hits/Views

253 Profiles

SMEs: 40 profiles
Industry: 5 profiles
HES: 176 profiles
Research Inst.: 18 Profiles
State Agencies: 8 Profiles
Others: 6 Profiles

http://erc.epa.ie/h2020catalogue
Online Catalogue of Expertise

Based on 2007/2008 results
Working Group – ToRefs.

- Dialogue with main stakeholders,
- Encourage information sharing / feedback,
- Gain insight of Irish Participation,
- Identify priority research from a National perspective,
- Ensure better representation of Irish priorities,
- Foster collaborative linkages between Irish organisations,
- Encourage a national platform for Environmental Research,
- Discuss national support offered

Each member represents their own organisation
Any questions?

Comments?
Contact Us:

- Environment National Contact Point & Delegate:
  - Dr. Alice Wemaere, EPA (a.wemaere@epa.ie)
  - Dr. Brian Donlon, EPA (b.donlon@epa.ie)
- Mark Sweeney, EI (Mark.sweeney@enterprise-ireland.com)
We welcome your feedback on our presentation – please email your comments to Alice Wemaere (a.wemaere@epa.ie)

Thank You
Horizon 2020
Societal Challenge 5
Support for Applicants

Enterprise Ireland
25th June 2015
Mark Sweeney (EI)
Financial Support (EI)

- Coordination support for academics
- Travel grants for academic researchers
- Support for companies participating in H2020

http://www.horizon2020.ie/
Upcoming Events

2nd July 2015: ICT for Everything Event

21st September 2015: EC H2020 SC5 Info Day


October / November 2015: “pre-publication” of WP2016/17
Monthly Update Email – Key Events

- China Executive tour 2015 *(Where: Beijing & Tianjin When: 19th - 25th April 2015)* Read more here
- DRAGON-STAR China-EU S&T Cooperation Forum *(Where: Brussels When: 28 April 2015)* Read more here
- 3rd Annual Wastewater Infrastructure & Networks Conference *(Where: Birmingham When: 19th May 2015)* Read more here
- ReNEW your approach to resources in the circular economy: Let's collaborate and innovate! *(Where: Brussels When: 28 May 2015)* Read more here
- 4th EUROPEAN SUMMER ACADEMY: Public Procurement for EU Funded Projects *(Where: Berlin, Germany When:1st – 3rd June 2015)* Read more here
- 23rd European Biomass Conference and Exhibition *(Where: Berlin, Germany When:1st – 4th June 2015)* Read more here
- Practical Seminar: Increase your University’s Innovation through International Cooperation *(Where: Berlin, Germany When:11th – 12th June 2015)* Read more here
- E² Tech4Cities Brokerage Event *(Where: Brussels When: 1st - 4th June 2015)* Read more here
- Water Innovation Europe Conference *(Where: Brussels When: 24th - 26th June 2015)* Read more here
- Networking Event on the Horizon 2020 Societal Challenge 5 *(Where: Enterprise Ireland Offices, Dublin 3 When: 25th June 2015)* Read more here
- NutraMara Conference and Expo *(Where: Enterprise Ireland Offices, Dublin When: 29th & 30th June 2015)* Read more here
- ICT for EVERYTHING *(Where: TBD When: 2nd July 2015)* Save the date
- Summer School: Concepts, models and tools to engage in participatory research and governance processes *(Where: Lisbon, Portugal When: 13th-17th July)* Read more here
- Research Impact: Evidencing the REF *(Where: Manchester Conference Centre, Manchester When: 14th July 2015)* Read more here
- International Scientific Conference on Energy and Climate Change *(Where: Athens, Greece When: 7th - 9th October)* Read more here
- International Health and Wealth Conference *(Where: Portugal When: 15th - 17th October 2015)* Read more here
➢ Any questions?

➢ Comments?
Contact Us:

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Thank You