

Biodiversity and Climate Change International Cooperation in H2020

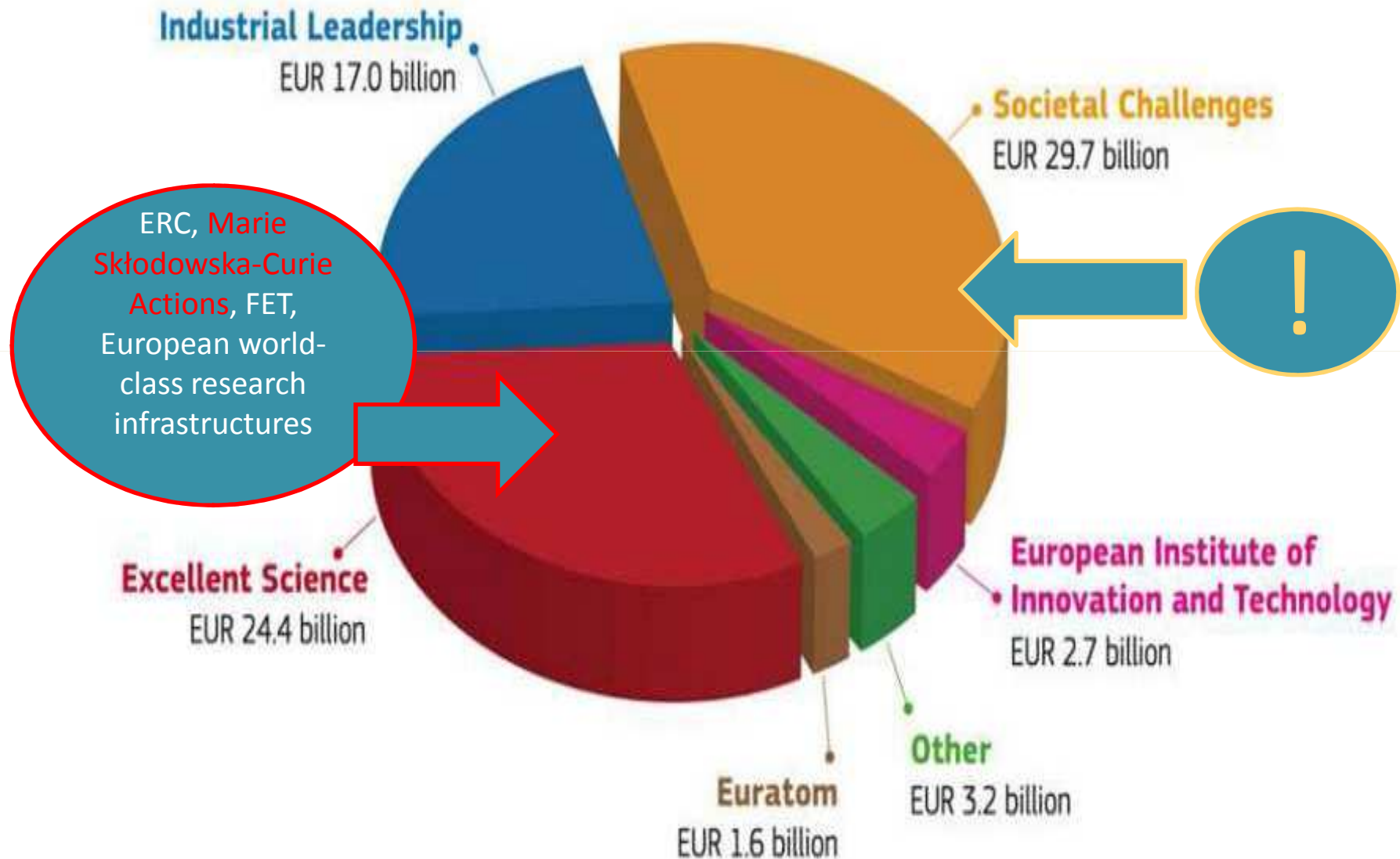
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RESOURCES Ltd.

HORIZON 2020

- New funding programme for **Research and Innovation**
- Period: 2014 – 2020
- Now: the call 2015 is expected (10.12.2014)
- Integration of research and **innovation**
- More support for innovation activities **close to the market**
- Strong focus on **creating business opportunities**
- Brings together **existing EU research and innovation funding** – i.e. Framework programme, innovation activities of the CIP and the EIT (European Institute of Innovation and Technology)

HORIZON 2020 BUDGET (EUR 78.6 billion, current prices)



Marie Skłodowska Curie

RISE: Research and Innovation Staff
Exchange
(Exchange of Staff)

to promote **international and inter-sector collaboration** through research and innovation staff exchanges, and sharing of knowledge and ideas from research to market (and vice-versa)

- Exchanges between MS/AC only: secondments must be inter-sectoral
- Exchanges between MS/AC and third countries: secondments can be same sector and/or intersectoral

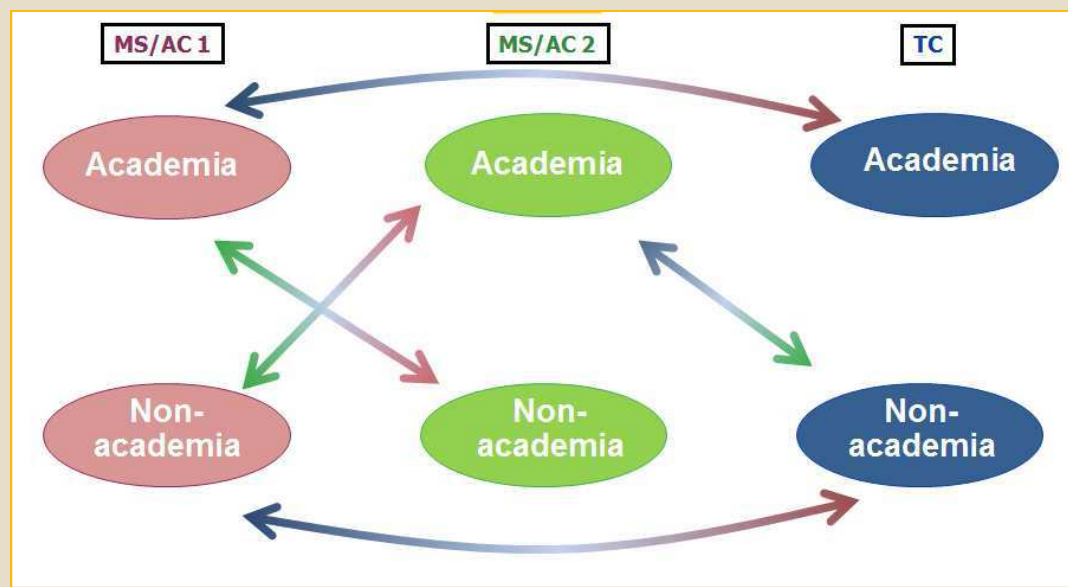
Participants must be from at least three different countries, at least two of which are MS/AC

Secondment period - 1 to 12 months- does not need to be continuous.

No support for secondments between institutions located **outside Europe**

RISE 2015:

6 Jan 2015



Networking

**New skills
acquisition**

**Joint
research
and
innovation**

**New skills
acquisition**

**Workshops,
Conferences**

**Career
developme
nt of staff**

Based on a common research and innovation projects

Societal Challenges



- Health, demographic change and wellbeing
- Food security, **sustainable agriculture, marine and maritime research** and the bio-economy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- **Climate action, resource efficiency and raw materials**
- Inclusive, innovative and **secure societies**

Climate action, resource efficiency and raw materials (SC 5)

- Budget: 3,573 bilion €
- At least 60% of total H2020 budget should be dedicated to Sustainable development; at least 35% of the budget will be climate related
- International cooperation is a crucial element of Horizon 2020.
- „It opens up new and emerging markets for businesses, it assists in tackling global societal challenges and it also strengthens Europe's position as a major global player“.

Climate change and biodiversity in WP 2015

Limited for LAC

- WATER-2-2014/2015: Integrated approaches to water and climate change: b) [2015] **Integrated approaches to food security, low-carbon energy, sustainable water management and climate change mitigation**
- SC5-1 and SC5-2-2014/2015: Climate Services for Europe and globally: **SC5-2-2015: ERA for Climate Services – only for EU Members, links with international climate service initiatives should be established.**
- SC5-10-2014/2015: Coordinating and supporting research and innovation for the management of natural resources: **[2015] An EU support mechanism for evidence-based policy on biodiversity & ecosystems services: Science and innovation for adaptation to climate change: from assessing costs, risks and opportunities to demonstration of options and practices**
- DRS-9-2014/2015: Disaster Resilience & Climate Change topic 1: Science and innovation for adaptation to climate change: from assessing costs, risks and opportunities to demonstration of options and practices: **Innovation actions [2015]**
- DRS-22-2015: Ethical/Societal Dimension topic 3: **Impact of climate change in third countries on Europe's security**
- Blue Growth: Unlocking the potential of Seas and Oceans: **Improving the preservation and sustainable exploitation of Atlantic marine ecosystems (BG-01-2015) OPEN! Deadline: 3.2. 2015 (First stage)**

Integrated approaches to food security, low-carbon energy, sustainable water management and climate change mitigation

- <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2583-water-2b-2015.html>
- AIM: develop **tools, methodologies and integrated strategies and approaches**, at different spatial scales (regional, national, continental, global), integrating resource efficient **land use, agricultural productivity** improvements, **sustainable water management** and **low carbon energy** transition and analyzing interactions with the existing regulatory frameworks in these areas and the potential barriers to implementation.
- EXPECTED IMPACTS: More efficient management of water resources **in Europe**, Increased understanding of how water management, food and biodiversity policies are linked together and to climate and sustainability goals.
- RIA

An EU support mechanism for evidence-based policy on biodiversity & ecosystems services

- Setting up an innovative, self-sustainable governance mechanism with a long-term perspective
- to enhance effective and efficient interactions between science, society and policy related to **biodiversity and ecosystems services in the EU**.
- This should build on existing science-policy interfaces and include all EU Member States, Associated or Accession Countries and **should be open to observers**.
- **Link in with international efforts and fora on biodiversity and ecosystem services.**
- <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2152-sc5-10c-2015.html>
- CA

Disaster Resilience & Climate Change :

Innovation actions

- **Science and innovation for adaptation to climate change: from assessing costs, risks and opportunities to demonstration of options and practices**
- Development of frameworks for monitoring the performance and effectiveness of developed approaches.
- Provision of innovative solutions for major implementation projects at local, regional or national levels.
- Focused to the Member States, Associated Countries and the **EU Overseas Countries and Territories**.

Expected impacts:

- Rapid large-scale deployment and market uptake of innovative technological and non-technological climate change adaptation solutions with high replicability. Contribution to the development of technological and performance standards for adaptation options.
- <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1083-drs-09-2015.html>

Ethical/Societal : Impact of climate change in third countries on Europe's security

Proposals in this field may focus on the following issues:

- What kind of instruments, tools, and actions can be used to address the climate change security risks?
- Which could be the most efficient ways of developing contingency plans for the EU's response to the effects of climate-driven crises occurring outside the EU?
- To examine the impact of climate-driven crises on European security.
- **Expected impact: This action will help stakeholders to better understand consequences of climate change events in Third Countries and its security implications for the EU.**
- CA
- <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/1090-drs-22-2015.html>

Blue Growth: Improving the preservation and sustainable exploitation of Atlantic marine ecosystems

- Challenge: **The North Atlantic marine region**
- <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2466-bg-01-2015.html>
- Proposals should fill in knowledge gaps to deepen the understanding of the biogeographic patterns, **biodiversity**, biogeochemistry and **ecosystem services and goods** supported by different marine ecosystems at ocean basin and management relevant scales and the capacity to model, understand and predict shifts in the dynamics of North Atlantic ecosystems.
- **The cross-disciplinary, integrated, systemic approaches – including the socio-economic dimension, as well as the engagement of the broader stakeholder communities.**
- RIA

WP2016 - 2017

- On **20.11. 2014** the meeting of the Programm Committee  final changes in the text of the WPs.
- The new Workprogram: beginning of 2015
- **Key term: CIRCULAR ECONOMY**

Strategic areas:

- **SMART CITIES**
 - **WATER**
- **EARTH OBSERVATION**
- **CULTURAL HERRITAGE**
- **THE ARCTIC AND ANTARCTIC (?)**
 - **CLIMATIC SERVICES**

NATURAL BASED SOLUTIONS (solutions inspired by, using or supported by nature)

- Preference: short projects, all ending with the innovation, new technologies, proof of concept, job creation, investments, ...
- No interest in the national problems, important is only **European economy** !

Some requirements by Program Committee Delegations:

- strongly supports the approach to **Latin-America** (Chile, Argentina, etc.)
- propose **extending the Arctic to the Antarctic**, to broaden the concept to a **European polar cooperation**.
- support to take into consideration **the Southern Atlantic**.
- **Development of customized technologies for the treatment of wastewater** – international cooperation, focus on LAC.

INCO in H2020

- Horizon 2020 will continue **the general opening of the programme to participation of entities from across the globe**. This will be complemented by the **development of targeted international cooperation activities** for all societal challenges and enabling and industrial technologies.
- a strategic approach will be taken by drafting multi-annual roadmaps for each of the Union's main partners.

REALITY ????

Report on the implementation of the strategy for international cooperation in research and innovation (*Roadmaps for international cooperation*)

REPORT FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT from September 2014

International cooperation in H2020 adds value when:

- Synergies and complementarities can be created as regards research and innovation capacity;
 - There are opportunities for access to new or emerging markets;
 - The activities contribute to meeting the EU's international commitments, as reflected e.g. in the Millennium Development Goals;
 - There are adequate legal and administrative frameworks in place to engage in cooperation, also including lessons learnt from previous cooperation.
 - Road maps for the cooperation between EU and INCO country exist
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- Recent report: only **ROADMAP FOR COOPERATION BETWEEN BRAZIL AND THE EUROPEAN UNION**.

In the framework of the policy dialogue between the EU and Brazil the following priority areas have been agreed for future cooperation:

- Marine Research and bio-economy, food security, sustainable agriculture: improvement of agricultural production systems and adaptation to climate change; nutritional aspects of food products; agro-economic areas, ecological intensification, low carbon agriculture, traceability, certification and standards with a view to improve quality and trade conditions.
- Energy, Nanotechnology, ICT

Call in WP215: Supporting structural change in research organizations to promote Responsible Research and Innovation.

MIP – the other possibility?:

- **The EU strengthens regional cooperation with Latin America:** EU has announced its regional cooperation package for Latin America in 2014-2020: **Multiannual Indicative Programme (MIP)**, with an allocation of **€925 million over seven years**.
- Multiannual Indicative Programmes (MIPs) represent an important step in the programming of **EU aid under the Development Cooperation Instrument (DCI)**, which is part of the EU budget.
- MIP was adopted in 2014 by the European Commission under the EU Development Cooperation Instrument, together with bilateral cooperation programmes for Bolivia, Colombia, Cuba, El Salvador, Ecuador, Guatemala, Honduras, Nicaragua, Paraguay and Peru (€ 1476 million in total for the bilateral programmes).
- **Activities at continental level**  **area Environmental sustainability and climate change.** Eligible countries for this component are: Argentina, Brazil, Bolivia, Chile, Costa Rica, Cuba, Colombia, El Salvador, Ecuador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay and Venezuela.
- **More info:** http://www.eeas.europa.eu/lac/docs/index_en.htm
- http://eeas.europa.eu/statements-eeas/2014/141120_01_en.htm

Next steps

- ENSOCIO_LA project: the main result will be the road map: under D 6.3 we are developing a strategic roadmap for future bi-regional cooperation. How?
- First steps towards new bi-regional activities – our “flagship” initiatives
- Recommendations on future topics, future programmes, instruments and structures
- Recommendations for the EU-CELAC SOM process (e.g support needed from the national government in both regions)
- Recommendations for H2020 (WP 2018 – 2020)?
- Cooperation with ALCUE-NET in the area of Climate change and biodiversity (Topic n. 1 of ENSOCIO_LA):
 - Water Resources and Food Security
 - Governance of Climate, Biodiversity and Ecosystem Services
 - Role of Small Holders in Global Land Use Changes and Biodiversity
- **???? Suggestions ????**

THANKS FOR YOUR ATTENTION!

