



Water Research & Horizon 2020

(Commission's proposal)

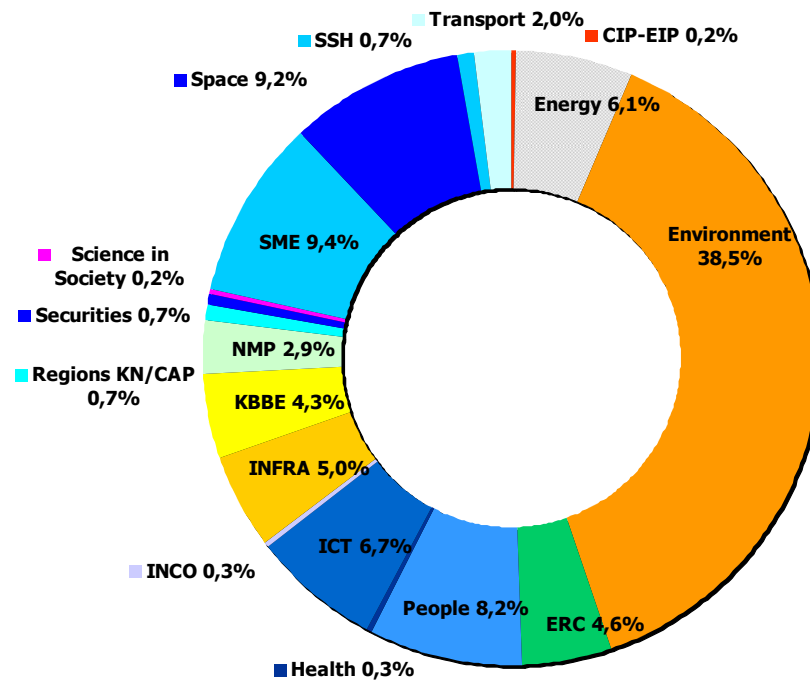
**EU WI Coordination Group, 23 January
2013**

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Outline

- 1. EU Water research in EU FP and MS;**
- 2. Water and International Co-operation in
Horizon 2020: Perspectives?**

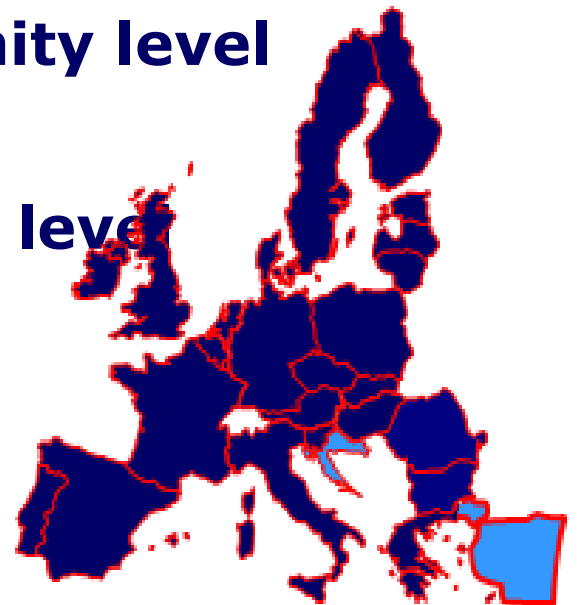
FP7 WATER Sectorial repartition



WATER RESEARCH in EUROPE

Public investment

- ✓ **€130 million per year at Community level**
- ✓ **€370 million per year at National level**
- ✓ **€500 million per year in Europe**



The need for a large coordinated European effort on public-funded water research is recognised

European Landscape for WATER R&I

**EIP
Water**

CIS -SPI

GEO GROUP ON
EARTH OBSERVATIONS

**PPP SPIRE
SUSTAINABLE
PROCESS
INDUSTRY**

WssTP

The European Water Platform

wetsus

centre of excellence for
sustainable water technology

SusChem
European Technology Platform For
SUSTAINABLE CHEMISTRY



ACQUEA

Others...

**Water JPI
Joint
Programming
Initiative**

**National
programmes**

Water ERA-NETs

What is Horizon 2020?

- A **Common Strategic Framework for EU Research & Innovation (2014-2020)**;
- Commission proposal for a **88 billion euro**;
- Core part of **Europe 2020 (Innovation Union, Resource Efficient Europe flagship initiatives)** and **ERA**:
 - 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 and innovation;

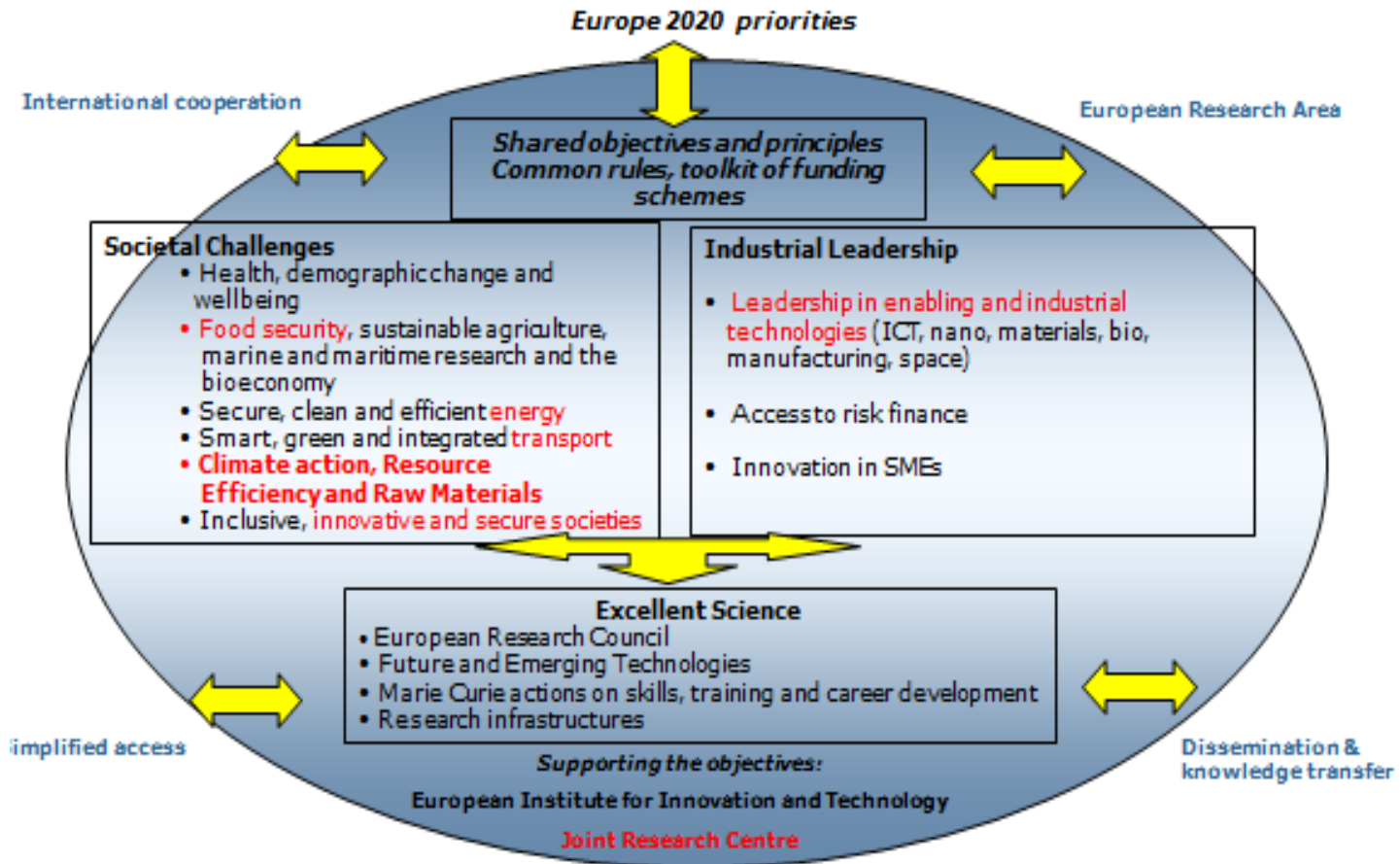
What is new?

- **A single programme** bringing together three separate programmes/ initiatives (FP7, CIP, EIT);
- **Coupling research and innovation** – from research to retail, all forms of innovation;
- **Focus on grand societal challenges** facing EU society: health, clean energy and transport, climate change etc.;
- **Simplified access** for all (companies, institutes, universities, in all EU countries and beyond);
- Three **strategic priorities**: Excellent Science, Industrial Leadership, Societal Challenges;



European
Commission

WATER in HORIZON 2020



Supporting EU policy priorities through cross-sectoral approaches and partnerships with MS

Horizon 2020 proposal

- **Societal Challenges**

- ▶ **Health, demographic change and well-being**
- ▶ **Food security, sustainable agriculture, marine and maritime research and the bioeconomy**
- ▶ **Secure, clean and efficient energy**
- ▶ **Smart, green and integrated transport**
- ▶ **Climate action, Resource Efficiency and Raw Materials (€3160 millions)**
- ▶ **Inclusive, innovative and secure societies**



Water, Climate Change and SD in Horizon 2020

- WATER is strategic for EU **competitiveness** and **industrial leadership** and a grand **societal challenge** itself;
- **JPI** will seek to **align EU** and National and Regional programs/funds;
- **EIP** will accelerate innovation, by innovating sites, seeking for a **mix of policy and tools** (technological, financial, managerial);
- Mainstreaming of climate and sustainable development objectives across Horizon 2020 - of the overall Horizon 2020 budget, min. **60%** to **SD** and **35%** to **CC**;

Climate action, resource efficiency and raw materials

Policy drivers:

- **Europe 2020 strategy;**
- Roadmap on "**Innovation Union**" & "**Resource-Efficient Europe**";
- Roadmap for **moving to a competitive low carbon economy in 2050;**
- **Raw Materials Initiative;**
- **EU Sustainable Development Strategy;**
- **Integrated Maritime Policy for the EU;**
- **Eco-innovation Action Plan;**
- **EU environmental policies:**
 - ❑ **WFD, GWD, "Blueprint to safeguard Europe's waters";**
 - ❑ **EU Soil and Biodiversity Strategies**
 - ❑

5. Climate action, resource efficiency & raw materials

Broad lines of the activities

- Fighting and adapting to **climate change**;
- Sustainably **managing natural resources and ecosystems**;
- Ensuring the **sustainable supply** of non-energy and non-agricultural **raw materials**;
- Enabling the **transition towards a green economy** through **eco-innovation**;
- Developing comprehensive and sustained **global environmental observation and information systems**;

Horizon 2020 Negotiations

- **30 November 2011** – Commission proposals
 - **Council:** PGA overall positive, with more emphasis on environmental protection, cultural heritage and water management
 - **EP:** overall positive BUT amendments still to come
- **2013** – *EP and Council deliberations and decisions*
- **2nd semester 2013** – *Preparation of 1st WP*

Strategy for international cooperation in research and innovation

- Engage **more actively and strategically**;
- **Three main objectives**:
 - Strengthen the **Union's excellence & attractiveness** in research and innovation as well as its industrial & economic **competitiveness**;
 - Tackle **global societal challenges**;
 - Stronger contribution of R&I to **EU external policies** Union (science diplomacy);
- **General opening** of Horizon 2020 BUT better **targeted actions** with **scale and scope** to achieve impact;
- Strengthened **partnership** with **Member States (SFIC)**;

Partnership in International STI Cooperation between Member States and the European Commission

- *Union activities to **add value** and **complement** those of Member States*
- *From national considerations to **European shared activities**:*
 - prepare **joint EU-MS Strategic Research & Innovation Agendas** for **key third country** partners;
 - feed into development of **EU multi-annual roadmaps for third country** partners;
 - develop **common guidelines for international co-operation** with third countries;

Thematic targeting

- *Starting point: **Horizon 2020** societal challenges and enabling technologies*
- ***Identify areas** based on analysis of a set of criteria of the EU and potential partners:*
 - Research and innovation **capacity**;
 - Access to **markets**;
 - Contribution to **international commitments**, e.g. MDG or Rio+20;
 - **Frameworks** in place to engage in cooperation (EU, international partners and MS) – including lessons learnt from previous cooperation;

SFIC mandate

- ***Share and structure information***
 - S&T cooperation **activities** and **objectives**, e.g. S&T **strategies** and **agreements**
 - Relevant **knowledge** concerning third countries, e.g. S&T resources, capacities
- ***Identify common priorities and propose joint/coordinated initiatives***
- ***Coordinate activities and positions vis-à-vis 3rd countries in international fora***
- ***Network EU science counsellors in key third countries***

Horizon 2020 – IC in water under Challenge 5

*For **designated regions**, such as Africa, Latin America, EU neighbouring countries, explore possibilities:*

- *for **CA** and **CP** to support **international cooperation** in the field of **water**;*
- ***Dedicated target actions** for collaborative research and/or innovation projects, **networking activities** and exchange of knowledge*

Thank you for your attention!