



Inovação para a Competitividade em serviços de água

Parceria Europeia para a Inovação no Sector da Água : onde estamos ?



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DG Research and Innovation

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Council of the European Union Conclusions June 21st 2011

*'while water **availability** and water **quality** are essential for sustainable development and green economy, waters face many threats including increasing trends of global population growth, urbanization, pollution, overexploitation, desertification and climate change. These challenges are threatening our societies, especially in many developing countries'*

*Council Conclusions underlined the **importance of innovation in the field of water management** and **invite the Commission***

...to investigate an innovation partnership on water in close cooperation with the Member States, with a view to achieving sustainable and efficient use of water `



Smart Growth	Sustainable Growth	Inclusive Growth
<p>Innovation « Innovation Union »</p>	<p>Climate, energy and mobility « Resource efficient Europe »</p>	<p>Employment and skills « An agenda for new skills and jobs »</p>
<p>Education « Youth on the move »</p>	<p>Competitiveness « An industrial policy for the globalisation era »</p>	<p>Fighting poverty « European platform against poverty »</p>
<p>Digital society « A digital agenda for Europe »</p>		

Innovation Union

3% GDP in RTD -> 3.8 million jobs in 2020
annual increase GDP €800 billion by 2050

- ✓ A strategic and **integrated approach** to **research and innovation**
- ✓ Putting in place the **key conditions** to make Europe attractive for research and innovation
- ✓ Focus on major **societal challenges** and aiming at **competitiveness and jobs**



Mrs Maire GOGHEGAN-QUINN
EU Commissioner for Research and Innovation

*“ Ideas to Markets
Societal Challenges”*



34 commitments



1. Training researchers

2. University ranking system

3. Developing new curricula

4. ERA Framework

5. European Research infrastructures

6. Programmes focusing on EU2020

7. Involvement of SMEs in R&I

2 Getting good ideas to market

8. Forum on Forward Looking Activities

9. EIT to expand its activities

10. New financial instruments for private finance

11. Free Venture Capital funds

12. Cross-border matching of innovative firms

13. Review of State aid R&D&I

14. EU Patent

15. Screening of key regulatory frameworks

16. Modernise standard-setting

17. Pre-commercial and public procurements

18. Eco-innovation action plan

19. European Union Board

20. Open access

21. Knowledge transfer

3 Maximising social and territorial cooperation

22. European market for patents and licensing

23. Safeguard of IPRs

24. Smart Specialisation

25. Focus on Innovation in the next Structural Funds

26. European Social innovation pilot

27. Research programmes on public sector and social innovation

28. Partners consultation on knowledge economy

4 Pooling resources to achieve breakthroughs

5 Leveraging our policies externally

6 Making it happen

29. European Innovation Partnerships

30. Policies for researchers to reside in Europe

31. Scientific cooperation with third countries

32. International agreements on research infrastructures

33. MS to carry out self assessments

34. New indicator for fast-growing companies and overall monitoring



What is an EIP

European Innovation Partnership ?

- **'Platform'**, limited in time
- Addressing a grand **societal challenge** and contributing to **EU competitiveness**
- Bringing together **supply** and **demand side** measures for innovation
- Acting across the **whole innovation chain**
- Initiated by the Commission
- Fulfilling a set of 10 criteria (EU added value, MS and private commitment, simplification, clear targets etc)
- Led by a **Steering Group**
- Implemented by a **Strategic Implementation Plan**



EIP Process

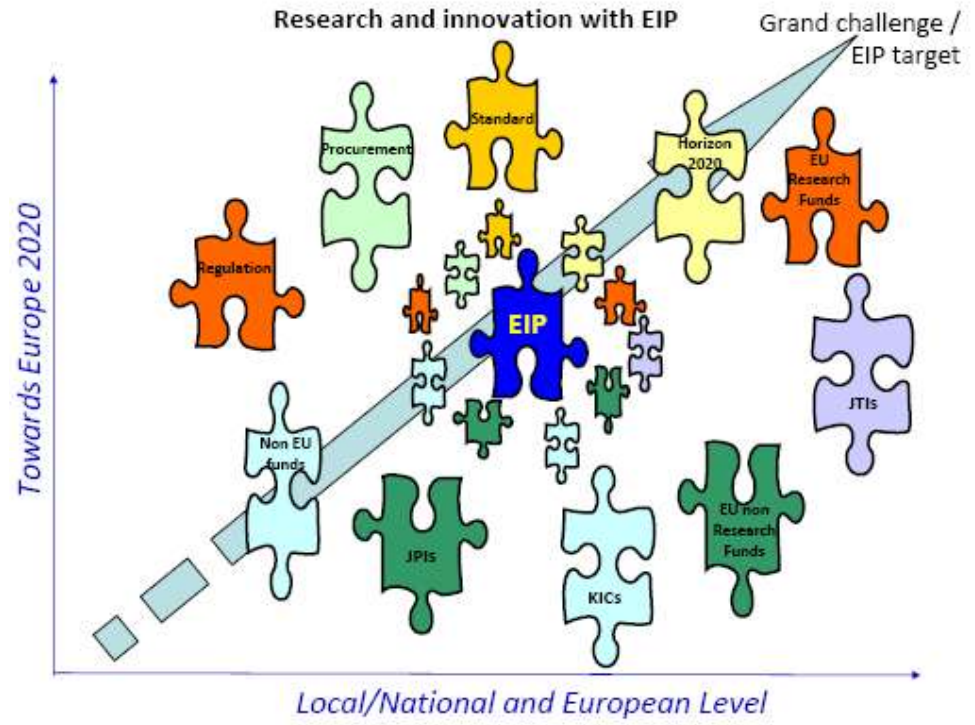
- 1 **Identification** of specific societal challenge
 - Public consultation and thematic workshops
 - Commission proposal
 - Council and Parliament agreement to set up SG Group
- 2 Setting up of **Steering Group**
 - Further consultations and workshops
 - Developing **Strategic Implementation Plan**
 - Commission proposal
 - Council and Parliament agreement to start implementation of SIP
- 3 **Implementation**, monitoring and evaluation

EIP Role and Contribution to IU

Research and innovation without EIP



Research and innovation with EIP



Why an EIP Water?



Water Challenges-> innovative solutions



Water in Europe - facts and figures

- By 2030 , **40% global water supply shortage by 2030** will affect large parts of Europe
- Water **scarcity and droughts already affect one third of the EU territory** across different latitudes. Europe suffered more than 175 major floods. Impacts of droughts in the EU between 1976-1990 and 1991-2006 double in both area and population affected
- A substantial proportion of Europe's freshwaters are at risk of not achieving good status under the EU Water Framework Directive by 2015. In 2009, **30% of surface waters and 38% of ground waters are in risk** of not achieving the good status

- Each **1% of increase of the rate of growth** of the water industry in Europe may mean between **10,000 and 20,000 new jobs**.
- Water sector, includes **9000 active SME's** and provides **600,000 direct jobs** in water utilities alone
- **Growing world water market-** estimated as \$ 1 trillion by 2020 due to a compounding effect of failing infrastructures, urbanization, industry growth and climate change



Objectives and Targets

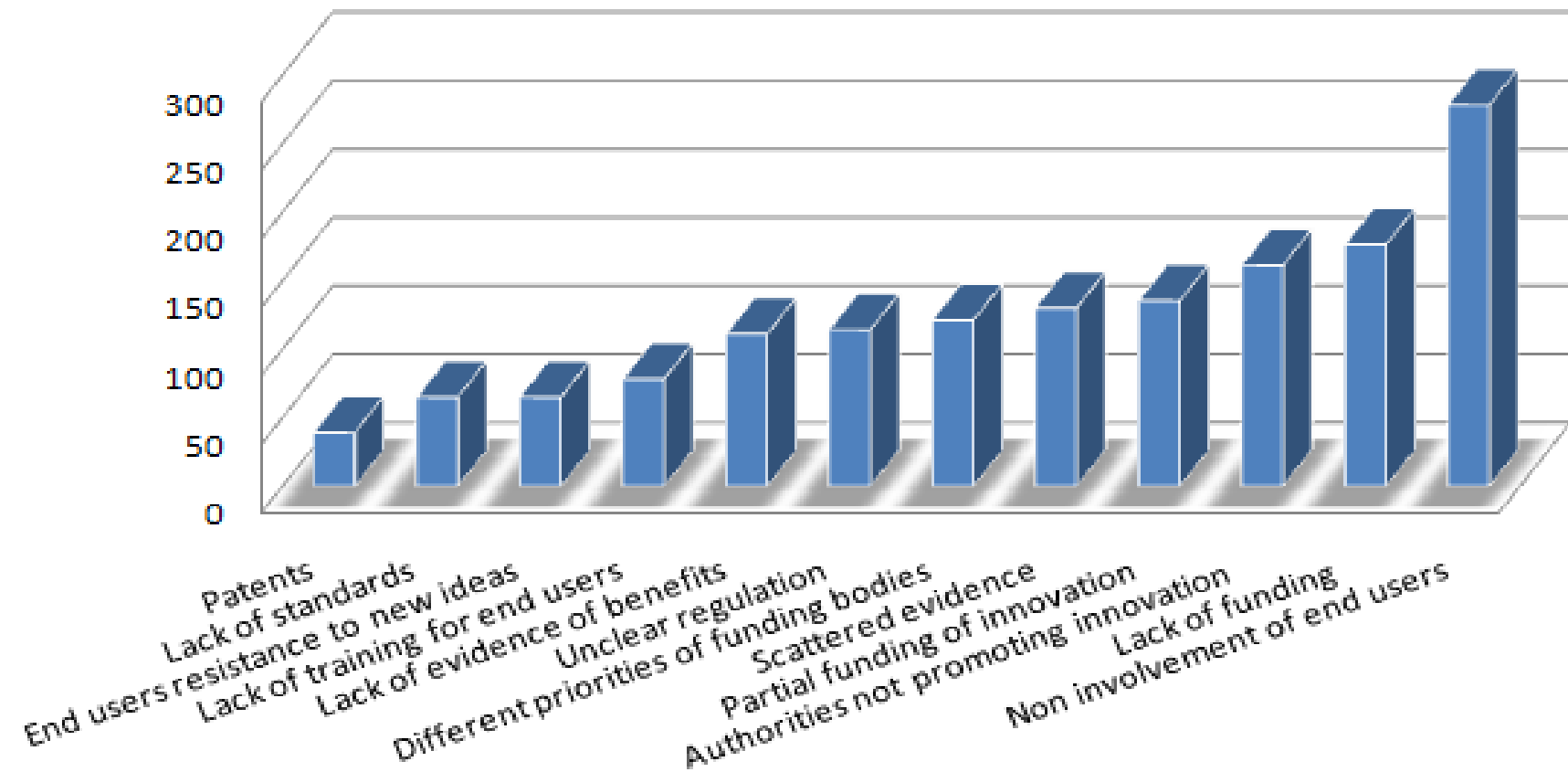
By 2030 Europe

The global market leader in innovative solutions that effectively deal with water-related challenges

By 2020 the EIP has achieved the following targets:

- Is effectively **functioning as a platform** for all public and private stakeholders to cooperate efficiently on developing innovative solutions for water related challenges.
- Has identified, tested and disseminated **solutions for 10 major water related challenges**.
- Has identified and proposed actions to **remove all major barriers to innovation** in the EU and in Member States to ensure that legislation and financial instruments support innovations.
- Has established a **web-based Market Place** for water innovations, which allows EU supply and demand side actors to build co-operation.

Barriers



Principles

- Enabling Framework
- Multidisciplinary Approach
- Multistakeholder approach





Stakeholders

- Member States, Regional Authorities, River Basin Authorities, Municipalities
- European Parliament
- Regulators and Environment Agencies
- The water service industry
- Water technology industries
- Major water consumers, incl. agriculture associations, energy producers, major water-intensive industries
- Universities and Research Centres
- Consulting engineers and practitioners in the field
- Joint programming Initiative (JPI) on Water
- The Water Supply and Sanitation Technology Platform (WssTP) NGOs or business initiatives in the field of water
- The banking, financial and insurance sectors
- NGOs
- Others to be identified

Strategic Implementation Plan and its Implementation

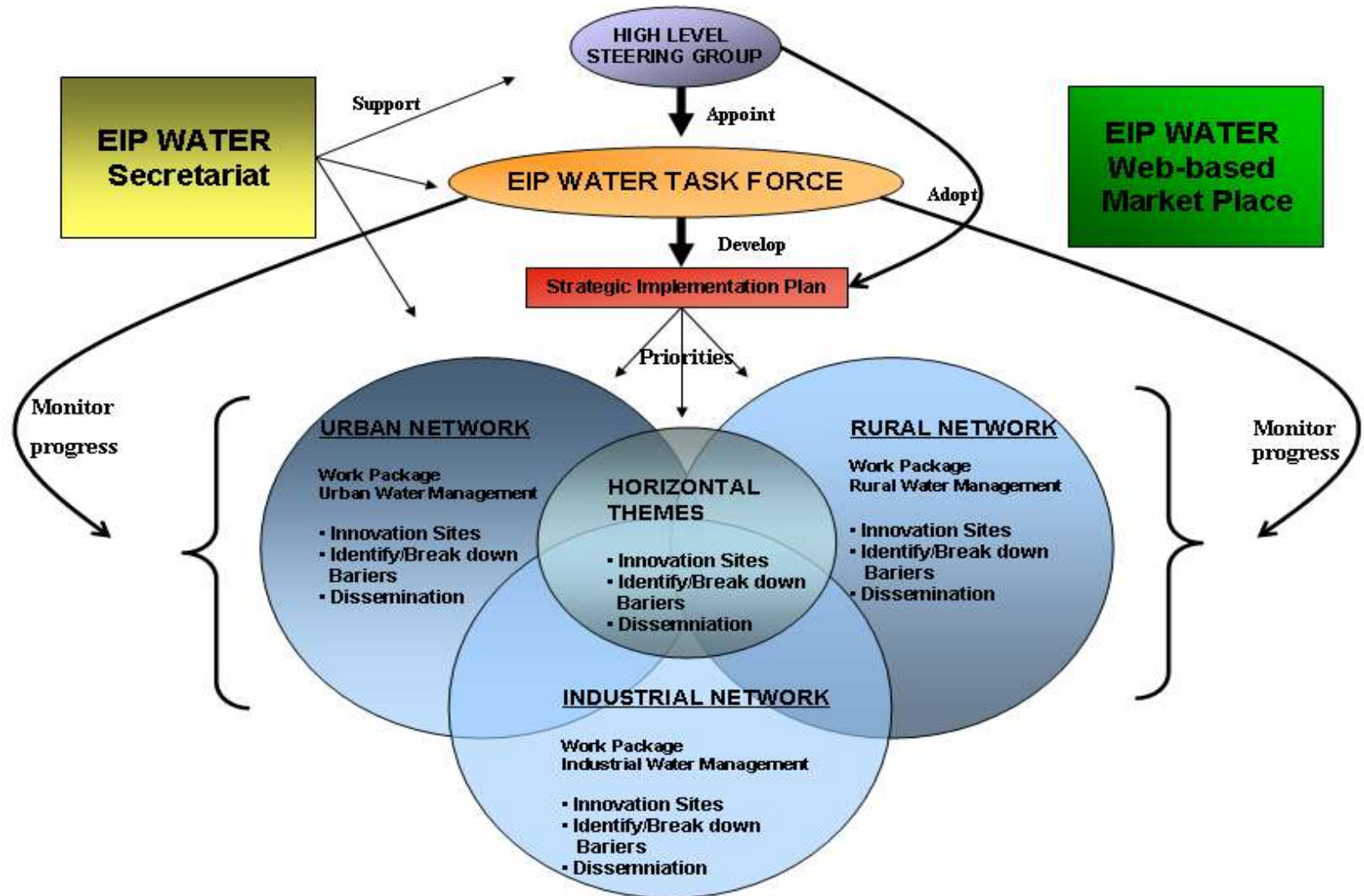
- Definition of priorities
- Three work packages
basis for calls on Innovation activities
- Innovation Sites – demonstration & cooperation projects, test solutions
- Identifying and breaking down barriers to innovation
- Web-based Market Place



Transversal themes



Governance





Funding opportunities

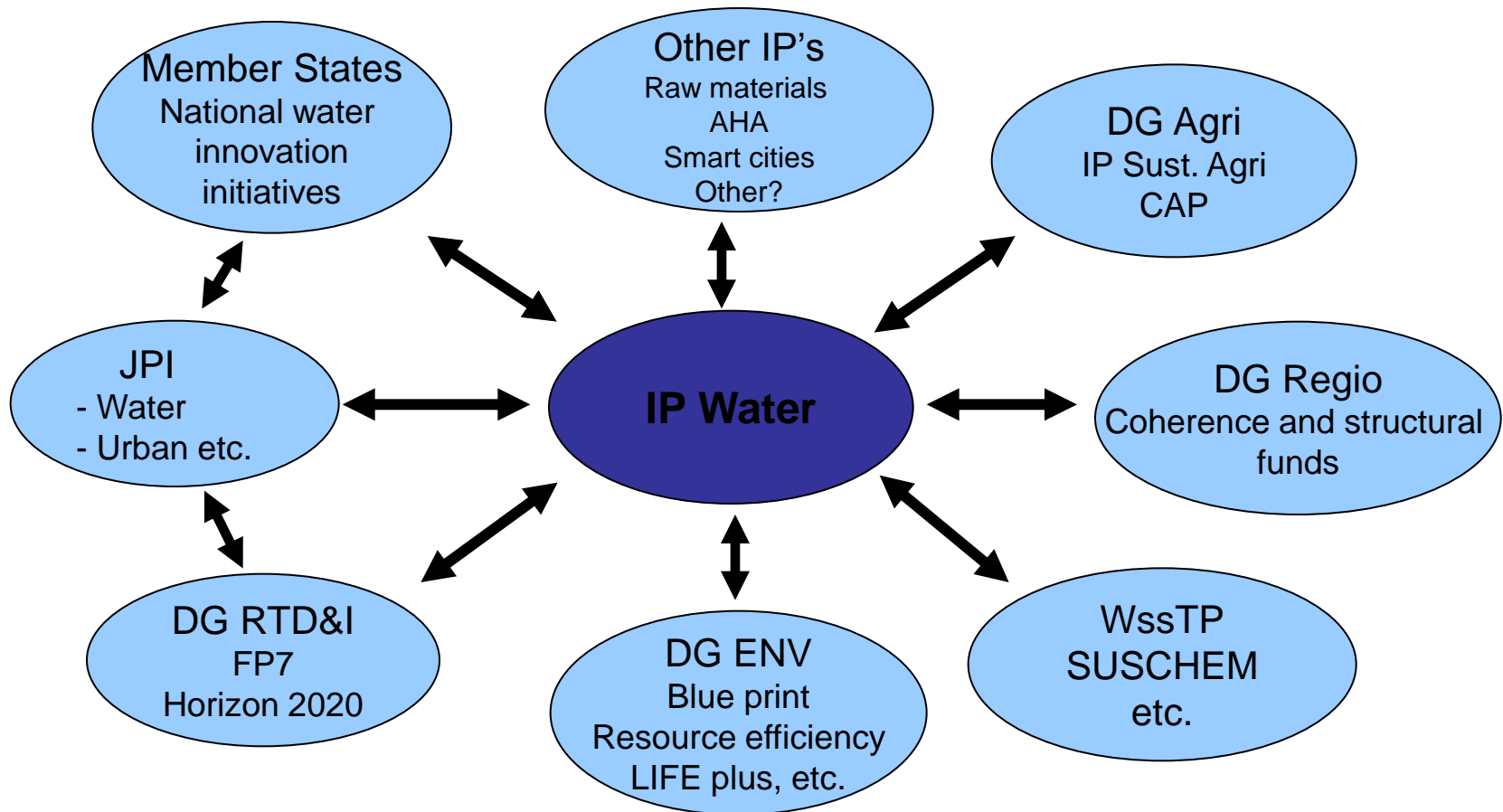
- Mobilize various EU funding mechanisms
 - **7th Research Framework Programme in WP 2013**
 - **Horizon 2020 from 2014-2020**
 - **Structural and cohesion funds**
 - **LIFE +**
- National / regional funding
- Private funding



Indicative timeline

- Stakeholder consultation up to 1 February '12
- EC Communication - April '12
- Endorsement Council and EP - June '12
- Establishment High Level Steering Group and Kick off - June '12
- Start drafting Strategic Implementation Plan by Task Force - Aug '12
- Adoption Strategic Implementation Plan - Dec '12
- Operational EIP Water / Calls - Jan '13

EU Policy framework IP Water





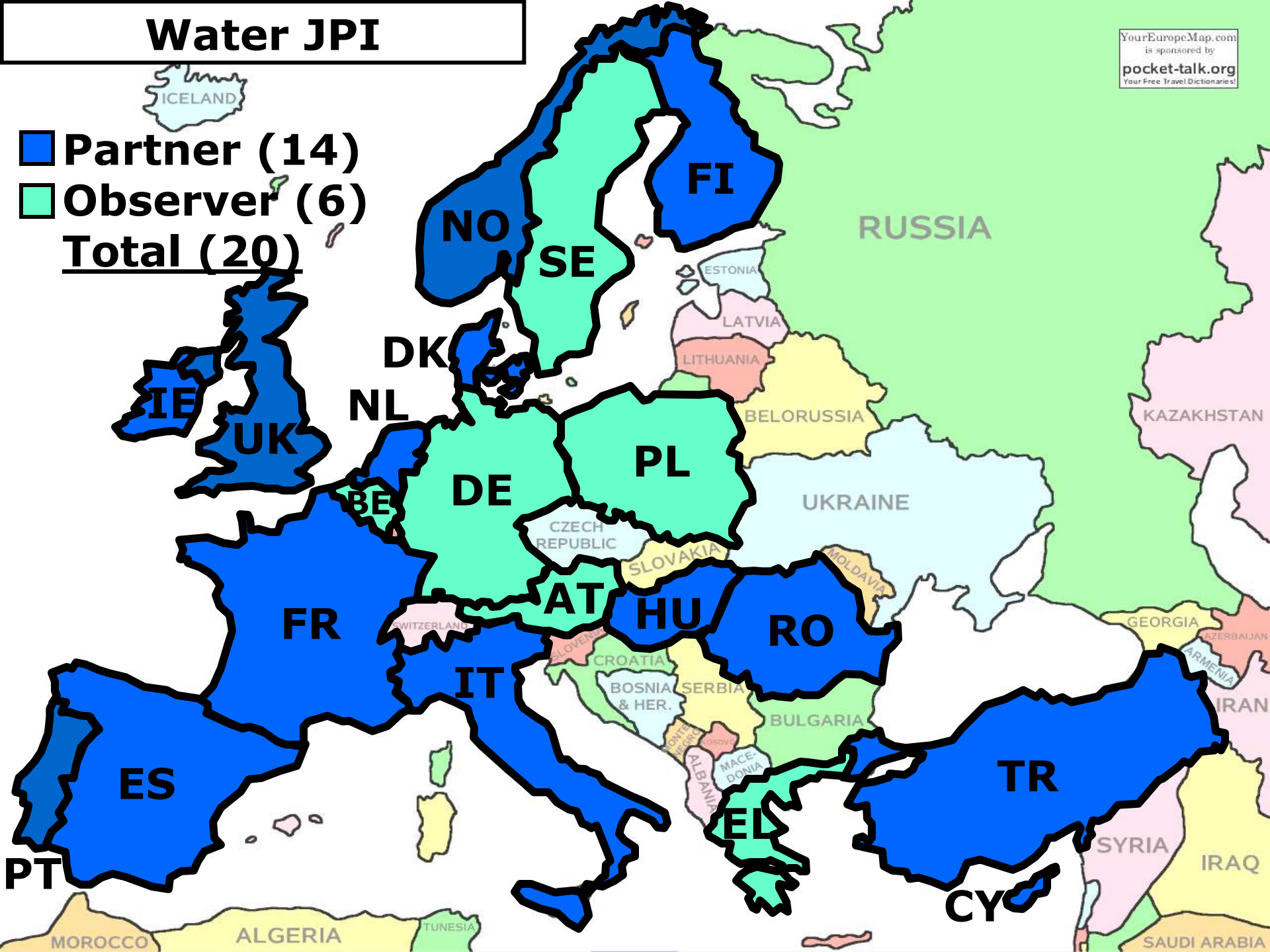
Joint Programming Initiatives JPI

- **Member States** engaging – initiated by MS
 - voluntarily and on a **variable geometry** basis
 - in the definition, development and implementation of common **strategic research agendas**
 - based on a **common vision** on how to address major **societal challenges**.
- It may involve **collaboration** between **existing national programmes** or the **setting up of entirely new ones**.
- It entails **putting resources together**,
 - selecting or developing the most appropriate instrument(s), and
 - collectively monitoring and reviewing progress.

Water JPI



- Partner (14)**
- Observer (6)**
- Total (20)**



JPI and EIP : two different approaches

JPI objectives

- ✓ Coordinating water RTDI
- ✓ Harmonising RTD agendas
- ✓ Harmonise RDI activities
- ✓ Supporting leadership
- ✓ Attaining critical mass

EIP objectives

- ✓ Eu leads water market
- ✓ Shorten time to market
- ✓ Innovation tools for water
- ✓ Address innovation barriers
- ✓ State of the art Policy

JPI RTD issues

- ✓ Eco-system sustainability
- ✓ Safe Water for citizens
- ✓ Competitiveness in industry
- ✓ Water wise bio economy
- ✓ Closing the water cycle gap

EIP WP packages

- ✓ Urban areas
- ✓ Rural area
- ✓ Industrial user
- ✓ Transversal themes



EU Water RTDI funding in 2013

- FP7 calls WP 2013
- Environment Theme
- Covering research activities, demonstration , networking and awareness , international cooperation
- Open July 2012
- Horizon calls – January 2014



Main References

http://ec.europa.eu/research/innovation-union/index_en.cfm

http://ec.europa.eu/research/horizon2020/index_en.cfm

<http://155.210.150.22/jpi/>

http://ec.europa.eu/research/era/pdf/partnering_communication.pdf

<http://www.wsstp.eu/site/online/home>

http://ec.europa.eu/research/environment/index_en.cfm

http://ec.europa.eu/environment/water/innovationpartnership/index_en.htm



Thank you for your attention!
Questions?