# Overview of National & International Funding of Water Research

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Environmental Protection Agency

16th May 2013, Dublin City University

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# Overview

**Background**

* Water Research Funding in Ireland
* Framework Programme 7
* Other initiatives

**Looking forward 2014-2020**

* Horizon2020
* Water Joint Programming Initiative
* New "STRIVE 2"

**… in 2013:**

* EPA STRIVE Water Research Call (c.1.5m commitment) – May'13
* EPA Water Research Planning Workshop – June'13
* Water JPI Pilot Call in September – September'13

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# Background

## Water Research Funding in Ireland

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# Strategies, Value & Governance…

* STRIVE: **2007 – 2013**
* 740 projects
* €9.5m budget (2012)
* National Research Spend: €500m

* Driven by environmental and science policies

* PA Consulting Review
* C&AG reviews

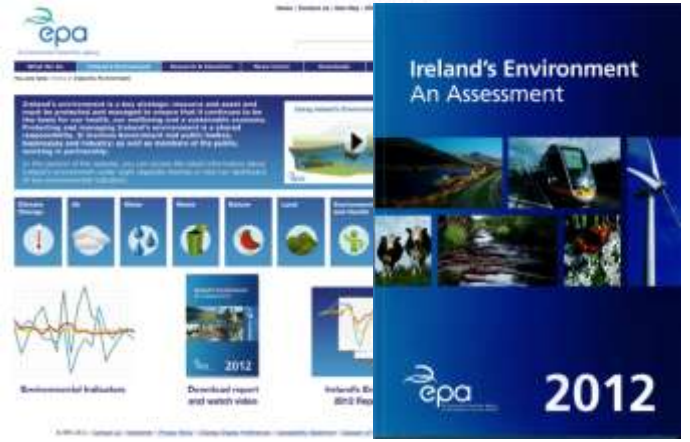
# Research → Environmental Protection

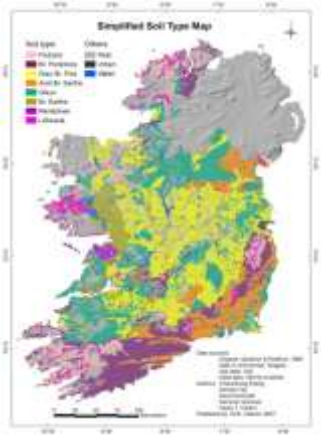
Identifying Pressures

Informing Policy

Developing Solutions

## Identifying Pressures






## Informing Policy

## Developing Solutions

# EPA Research → Three Pillars

Climate

Water

Sustainable Environment

# EPA Research – How?

* Research Topics…
  * *Consultation: EPA, DECLG, Researchers, NGOs, Other gov't bodies & funders*
  * *Other Sources: EU strategies, legislation*
* Competitive Call for Funding
* Projects funded
  * *Steering Groups (EPA, DECLG, others…)*
* Communicate the outputs

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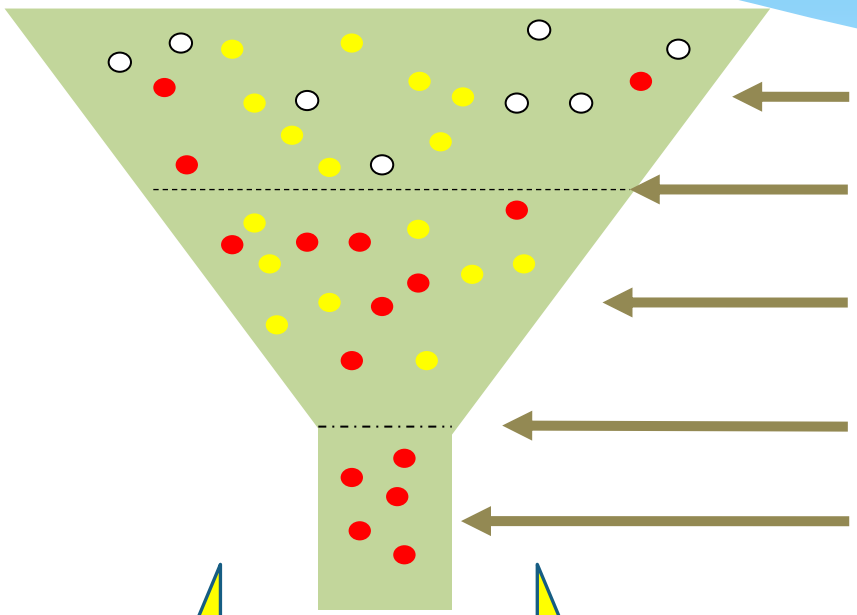
# EPA Research - Processes



*131 Applicants*

**Scientific Peer Review**

*91 Shortlisted*

**National Overview (EPA, DECLG + others)**

*41 Projects funded*

Pressures

Communication

Solutions

Policy

# EPA Research – What type of projects?

The different types of projects funded through the programme are:

*Project-based Awards...*

| Project Type | Typical Funding | Typical Duration |
|---|---|---|
| Desk studies | Up to €100,000 | 6 – 12 months |
| Medium scale studies | up to €350,000 | 24 – 36 months |
| Large scale studies | up to €1,000,000 | 36 – 48 months |
| Capability development projects | in excess of €1,000,000 | 48 – 60 months |

*Researcher-based Awards...*

| Project Type | Typical Funding | Typical Duration |
|---|---|---|
| Masters scholarships | Up to €40,000 | 24 months |
| Doctoral scholarships | up to €73,500 | 36 months |
| Research fellowships | up to 250,000 | 24 - 36 months |

# EPA Water Research

* Improve our Knowledge on State of Water Resource and Pressures
* Impacts on Ecosystems & Human Health (including Drinking Water)
* Protecting our Water Resources
* Governance Framework and Socio-Economic Considerations in Water Management

# National Funding Landscape

# Background

## Framework Programme 7

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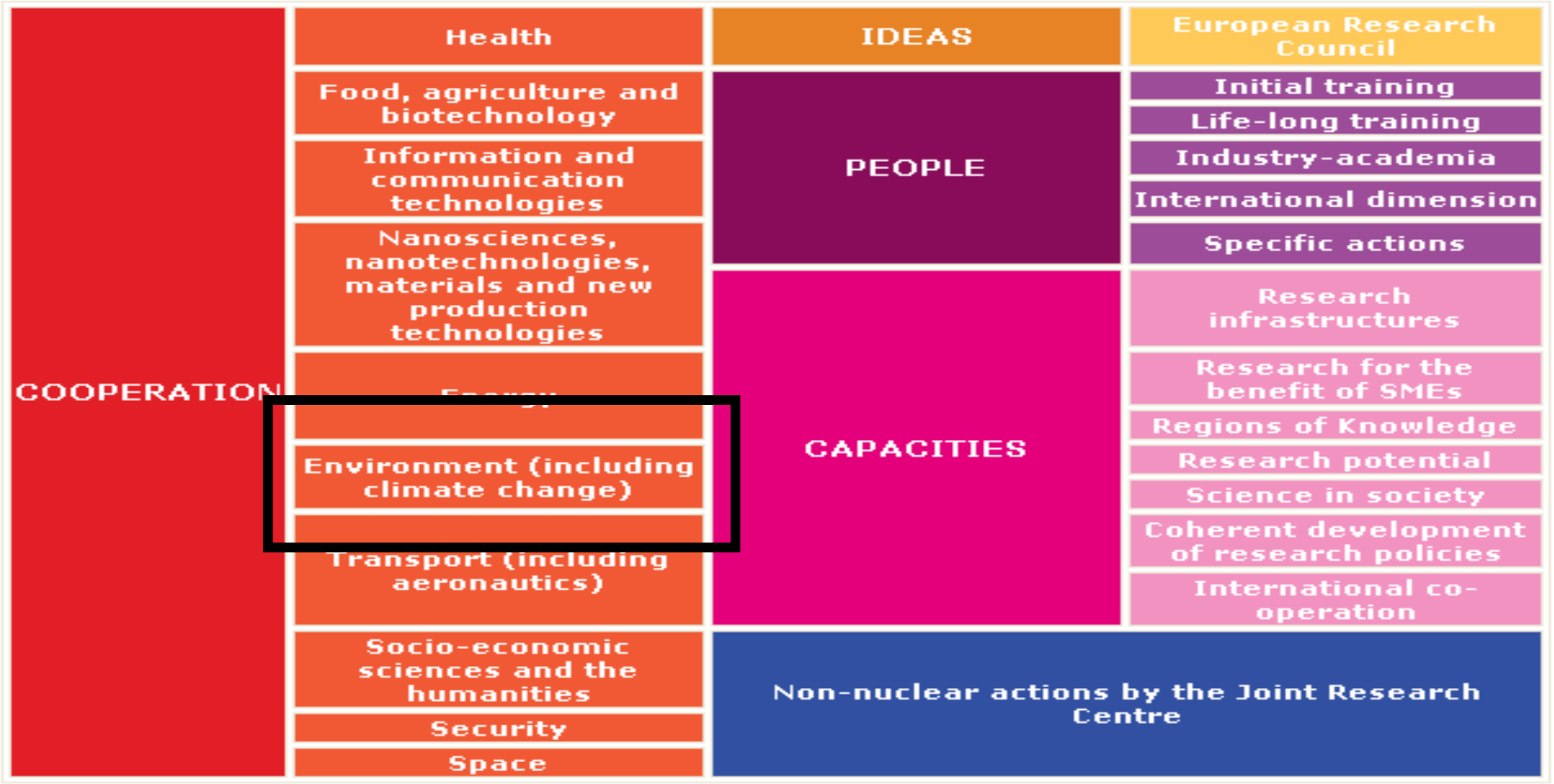
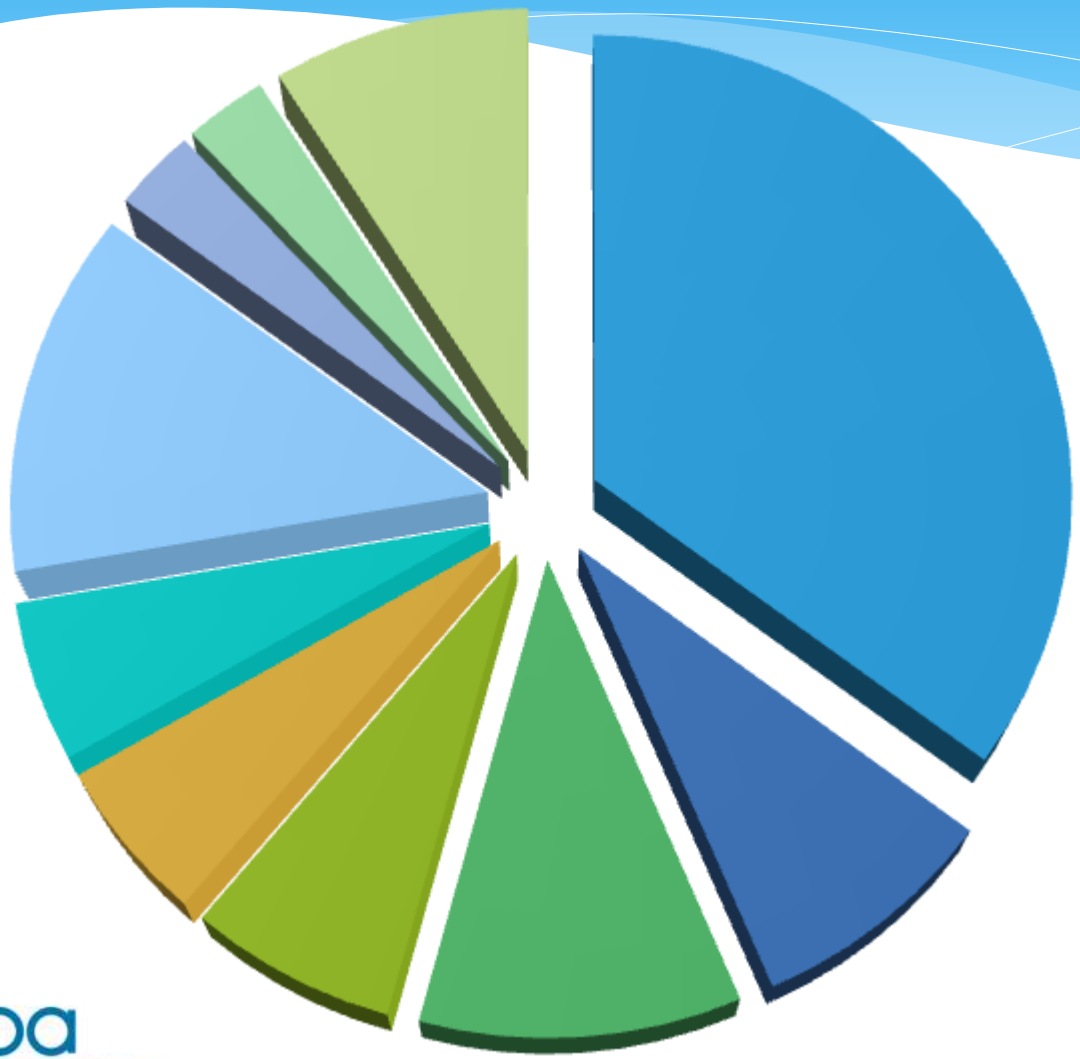
# Framework Programme 7



# European Funding (FP7)



- Environment
- SME
- ERC
- ENERGY
- ICT
- INFRA
- Agriculture (KBBE)
- Nano
- Space
- Marie Curie

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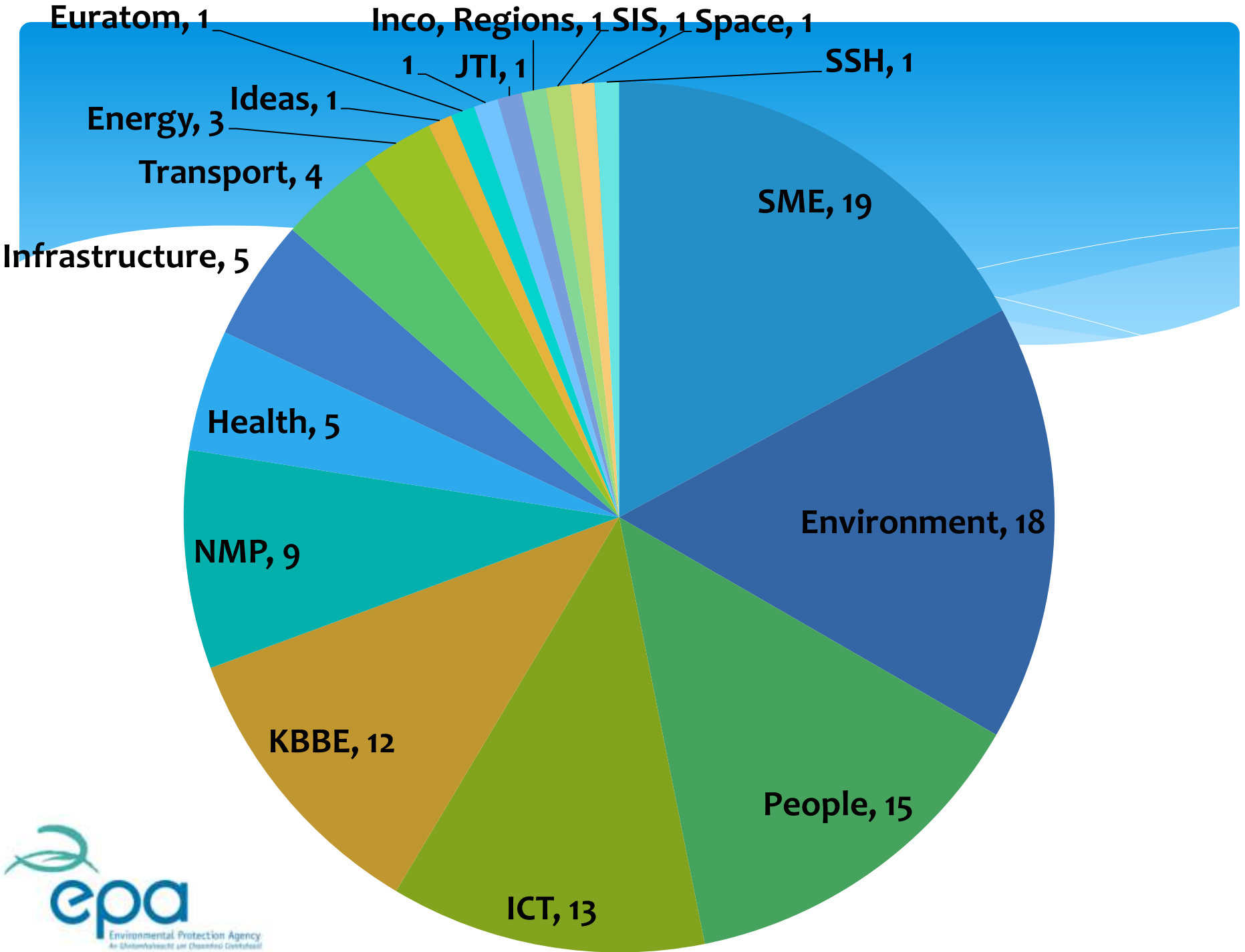
Euratom, 1
Inco, Regions, 1
SIS, 1
Space, 1
1
JTI, 1
SSH, 1
Ideas, 1
Energy, 3
Transport, 4
Infrastructure, 5
SME, 19
Health, 5
Environment, 18
NMP, 9
KBBE, 12
People, 15
ICT, 13

# Irish Success in FP7 - Water

ClimateCost

WISER

WATEUR

Tackling EUropean Water Challenges

ComEnvir

END-O-SLUDG

WASTEWATER TRANSFORMED FOR GOOD

SEVENTH FRAMEWORK PROGRAMME

CORES

Components for Ocean Renewable Energy Systems

eeliad

HEALTHY FUTURES

CoralFISH

Ecosystem based management of corals, fish and fisheries in the deep waters of Europe and beyond

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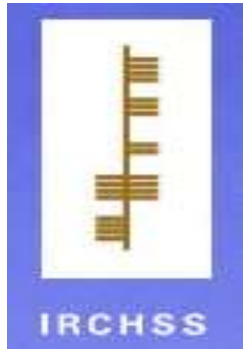
ECO-India

www.eco-india.eu

# The National Support Network



# Background

## Other Initiatives

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# Other international Initiatives

EUROPEAN REGIONAL DEVELOPMENT FUND

* **INTERREG**
  * **Strand A: cross-border cooperation**
  * **Strand B: transnational cooperation**
  * **Strand C: interregional cooperation**

IRELAND WALES 2007 – 2013

INTERREG IVC
INNOVATION & ENVIRONMENT
REGIONS OF EUROPE SHARING SOLUTIONS

nwe
INTERREG IVB

* **COST & ESF**

cost

European Science Foundation

* **LIFE+**

Life

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# Looking forward 2014-2020

## Horizon 2020

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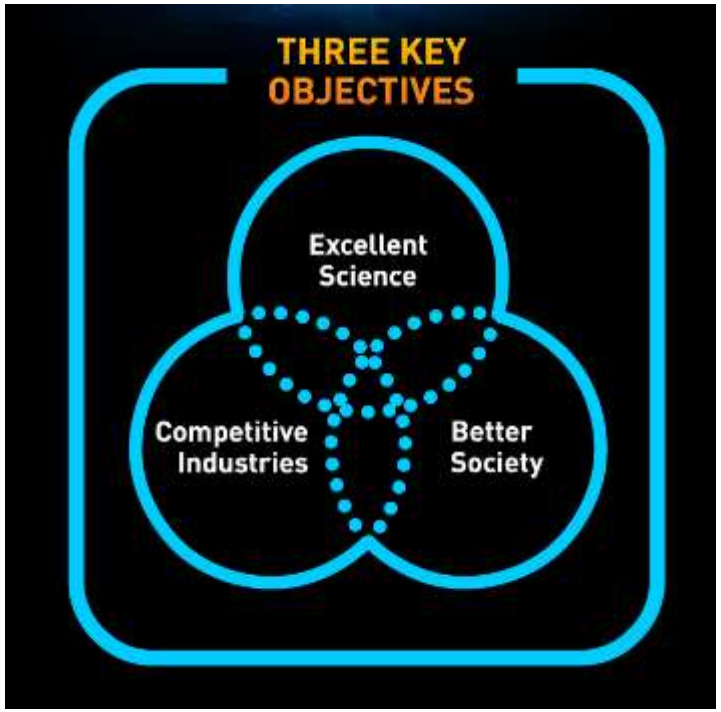
# Timeline

* Countdown: 229 days ‘til launch time
* Three Key Objectives
* Simpler Rules

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# Horizon 2020 Priorities

## 1. Excellent science

| Research Area | |
|---|---|
| European Research Council<br>*Frontier research by the best individual teams* | |
| Future and Emerging Technologies<br>*Collaborative research to open new fields of innovation* | |
| Marie Curie Actions<br>*Opportunities for training and career development* | |
| Research infrastructures (including e-infrastructures)<br>*Ensuring access to world-class facilities* | |

# Horizon 2020 Priorities

## 2. Industrial Leadership

| Research Area |
| --- |
| Leadership in enabling and industrial technologies (*ICT, nanotechnologies, materials, biotechnology, manufacturing, space)* |
| Access to risk finance<br>*Leveraging private finance and venture capital for research and innovation* |
| Innovation in SMEs<br>*Fostering all forms of innovation in all types of SME's* |

# Horizon 2020 Priorities

## 3. Societal challenges

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

# Climate Action, Resource Efficiency & Raw Materials

1. Fighting and adapting to climate change
2. Protection of the environment, sustainable management of natural resources, water, biodiversity and ecosystems
3. Ensuring the sustainable supply of non-energy and non-agricultural raw materials
4. Enabling the transition towards a green economy and society through eco-innovation
5. Developing comprehensive and sustained global environmental observation and information systems
6. Cultural heritage

# Looking forward 2014-2020

## Water Joint Programming Initiative

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| Initiative | What is it?<br>What are its aims? |
|---|---|
| Horizon 2020 | main RDI funding programme in Europe, using a seven year programming period (2014-2020). It aims to build a European economy based on knowledge and innovation whilst contributing to sustainable development.<br>It combines previous efforts: the Framework Programme + CIP + EIT. |
| Structural Funds | European policy for improving the economic well-being of regions. These funds aim at removing economic, social and territorial disparities across the EU whilst making the EU more competitive (great support to RDI activities). |
| COST | Intergovernmental organization supporting networking and mobility actions. |
| ERA-NET | Instrument of FP6, FP7 and Horizon 2020 aimed at fostering the cooperation and coordination of research activities within a specific research domain. Network activities are carried out at the national (and, if applicable, regional) level (ERA-NET) or through the mutual opening of national and regional research programmes (ERA-NET+). |
| Article 185 | European initiatives aimed at fostering cooperation and coordination within a specific domain, based on co-decision and on the existence of a previous formal funding commitment by partner countries. Currently there is no Article 185 related to the Water JPI domain but an Article 185 for the Mediterranean is under preparation. |
| EIP on Water | The EIP is based on private-public participation aiming at stimulating creative and innovative solutions to tackle water challenges. It is based on bringing together actors from RDI, water users and water utilities. |
| Acqueau | Acqueau is the Eureka Cluster for Water. It funds innovation projects in Public-Private Partnership (PPP). |
| European Inst. of Technology | Established by the European Commission in 2008 to boost innovation. It implements of KICs (knowledge innovation communities), bringing together research, industry and education. There is no specific KIC on Water, though the Climate-KIC shows relevant interests on Water. |

# Other relevant initiatives

* WssTP
* CSI-SPI?
* Other JPIs
* KIC Climate

JPI's

URBAN EUROPE

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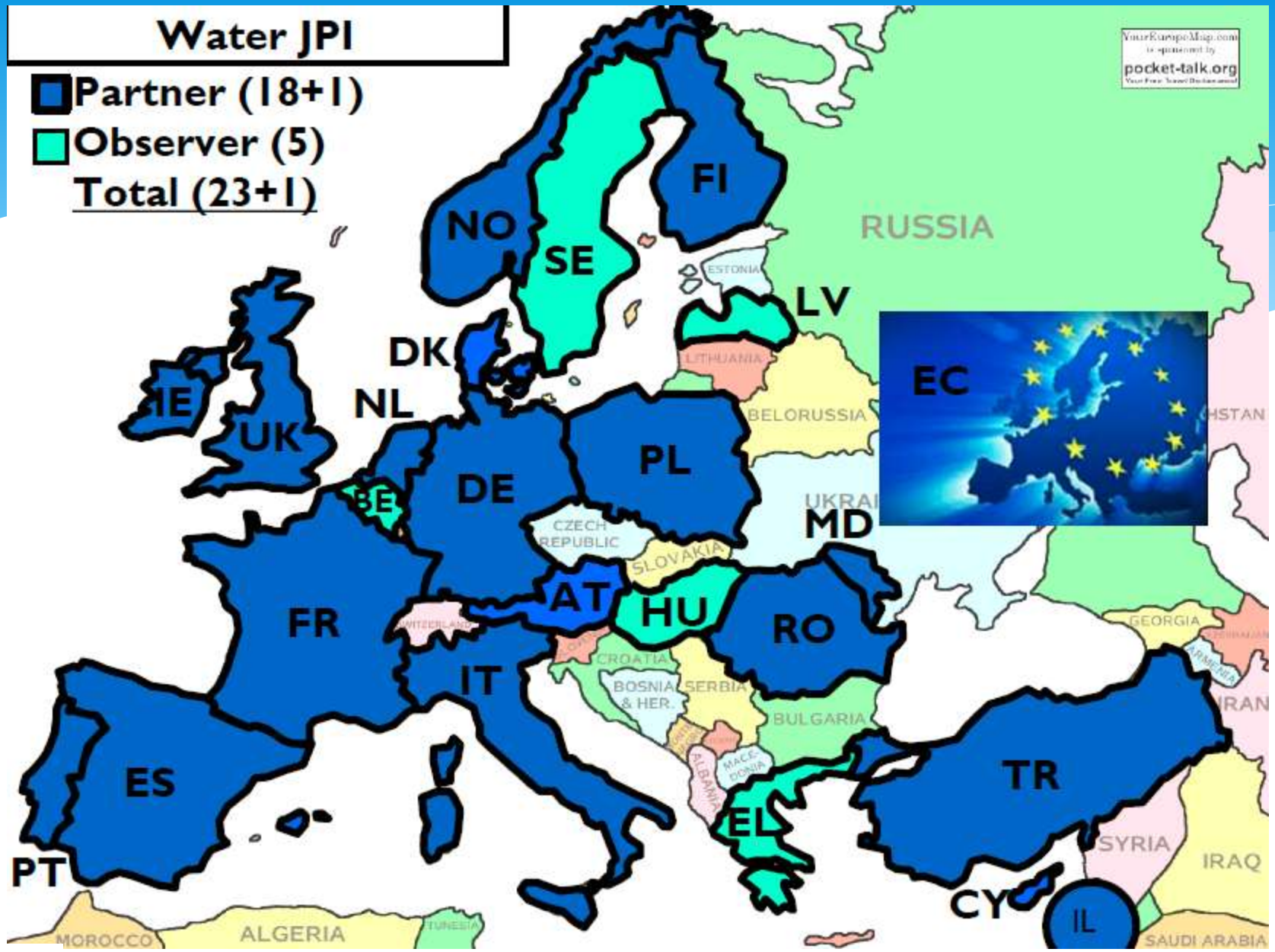
# Water JPI Research Questions

- Maintaining Ecosystem Sustainability
- Developing safe water systems for the citizens
- Promoting competitiveness in the water industry
- Implementing a water-wise bio-based economy
- Closing the water cycle gap

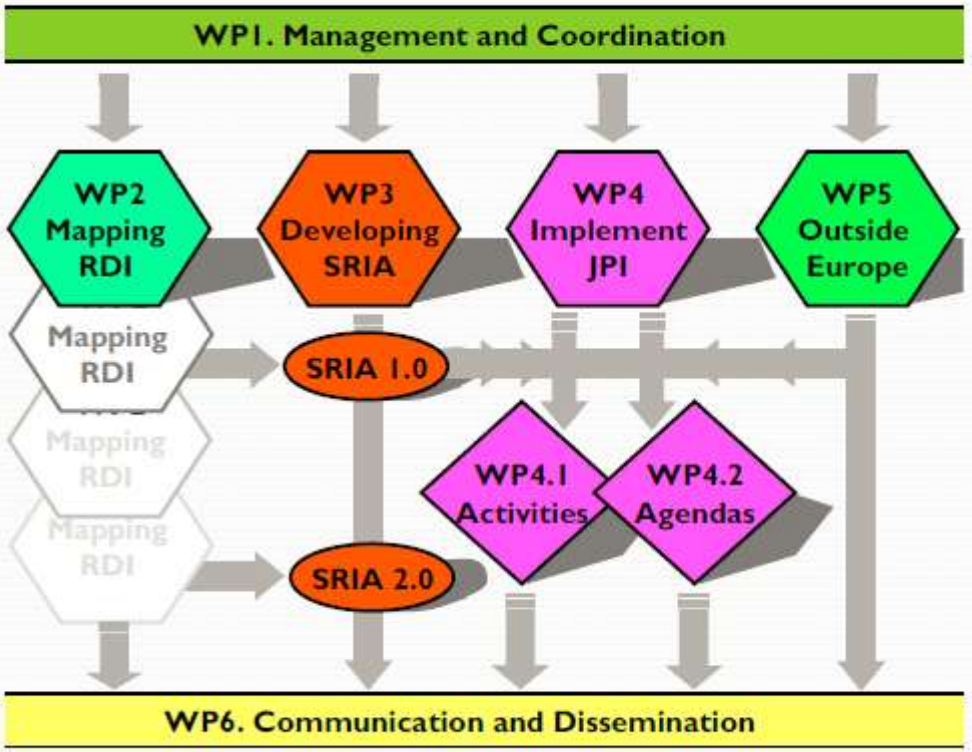
# Water JPI: Vision

- The grand challenge: "Achieving Sustainable Water Systems for a Sustainable Economy in Europe and Abroad"


Water JPI
Partner (18+1)
Observer (5)
Total (23+1)
NO
SE
FI
RUSSIA
ESTONIA
LV
DK
IE
UK
NL
LITHUANIA
BELORUSSIA
EC
PL
DE
BE
MD
CZECH REPUBLIC
SLOVAKIA
AT
HU
RO
FR
SWITZERLAND
GEORGIA
CROATIA
BOSNIA & HER.
SERBIA
IT
BULGARIA
ARMENIA
ES
TR
EL
SYRIA
IRAQ
PT
CY
IL
MOROCCO
ALGERIA
SAUDI ARABIA

# WatEUr: Tackling European Water Challenges

- An FP7 Coordination and Support Action
- 2 M€
- 17 partners
- January 2013 to December 2015
- Boosting Water JPI operation



# Looking forward 2014-2020

## New "STRIVE 2"

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# STRIVE II – 2014-2020

* EPA Strategy (2013-15)
* Our Sustainable Future (DECLG)
* National Climate Change Adaptation Framework
* National Research Prioritisation Plan
* Legislation – WFD, AFD, ELD…
* EU 7th Environmental Action Plan
* Horizon 2020 (EU Research Plan)

***And your input…!***

# STRIVE II – 2014-2020

* Overall Objectives largely similar..
  * *"To protect and improve the natural environment by addressing key environmental management issues through the provision of excellent scientific knowledge generated through a vibrant, competitive programme of research supported and co-ordinated by the EPA*

* But in a changing landscape…
  * Tighter Resources (funding, staff… )
  * More emphasis on collaboration
  * **More focus on outputs**

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# In 2013…

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# Upcoming

* EPA STRIVE Water Research Call 2013 – May/June 2013
* EPA Water Research Planning Workshop (28th June 2013)
* Water JPI Pilot Call – September 2013
* FP7 Catalogue of expertise
* EPA SAFER Projects Database

## EPA Water Research Planning Workshop

Update your social networks about this event

8 people like this. Sign Up to see what your friends like.

**When**

Fri, 28 Jun, 2013
Start time: 09:30
End time: 13:30

Add to Calendar

**Where**

Radisson Blu Royal Hotel
Golden Lane
Dublin 8
Ireland

View on Google Map

**Hosted By**

Environmental Protection Agency

Contact the Host

**Attendee Login**

To see your details, enter your booking reference here.

Go

### Ticket Information

There is a limit of 1 ticket per booking for this event.

| TICKET TYPE | CLOSING DATE | NO. REQUIRED |
|---|---|---|
| Standard Ticket | 21-Jun-2013 | 0 |

Register Now

### EPA Water Research Planning Workshop

The EPA is organising a Water Research Planning Workshop on Friday 28th June 2013 from 10am until 1.30pm (Registration will start at 9.30am) at the Radisson Blu Royal Hotel in Dublin to discuss & inform the foundations and directions of the new EPA Water Research Programme 2014-2020.

This half-day workshop is aimed at researchers & research-users in the Water area, and is proposed to cover & discuss:

- Water Challenges in Ireland from a Policy, Implementation & Users perspective;
- International funding opportunities;
- Directions of the EPA Water Research Strategy 2014-2020; as well as
- EPA funding mechanisms

It is your chance to have your say on what Water research will be funded in the coming years.

* It is **Your Chance** to have **Your Say** in what our Water research Programme will be

# Have you registered?

# THANK YOU

Contact: a.wemaere@epa.ie

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