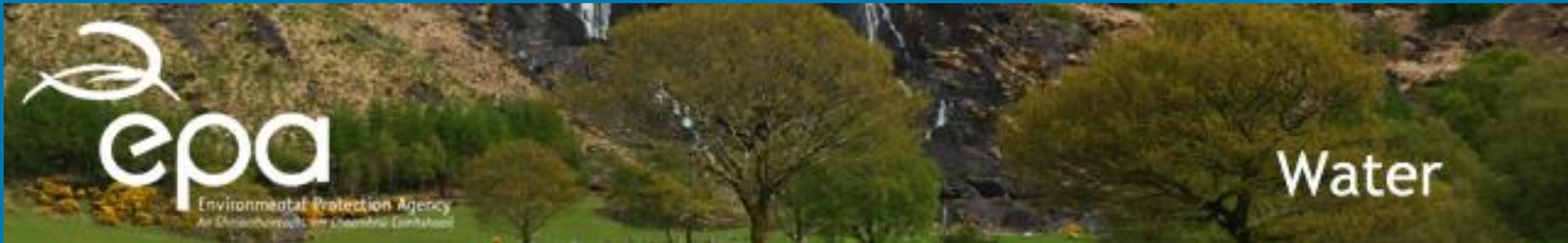


# EPA Water Research



31/08/2015

ESManage Workshop  
UCD

# Overview

- Background (EPA Research)
- EPA Research 2014-2020
- EPA Water Research Pillar
- National Linkages
- International Linkages

# Strategies, Value & Governance...

- STRIVE: 2007 – 2013
  - 740 projects
  - €9.5m/8.8m budget (2012/2013)
  - National Research Spend: €500m
- Driven by environmental and science policies
- PA Consulting Review
- C&AG reviews

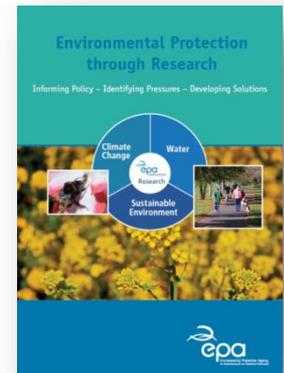


# EPA Research Programme



# EPA Research Strategy

- 7 workshops held in 2013 (May-Sept)
- Summary report published (Env. Protection Through Research)
- Public consultation (Nov 2013)
- New Strategy published

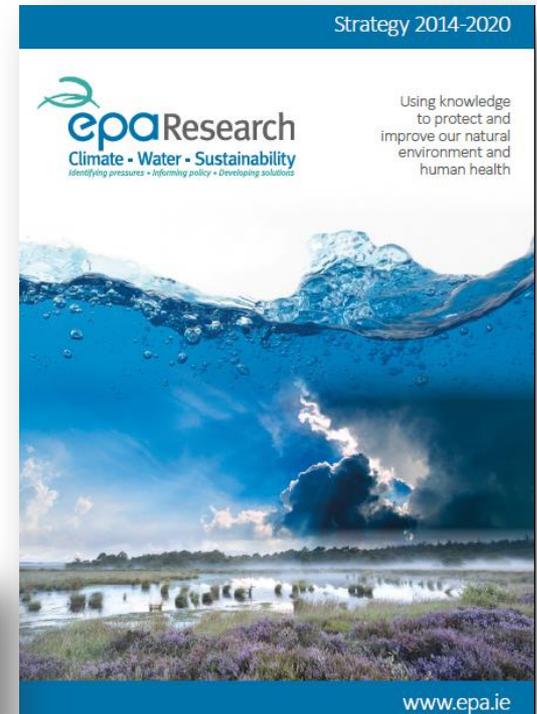
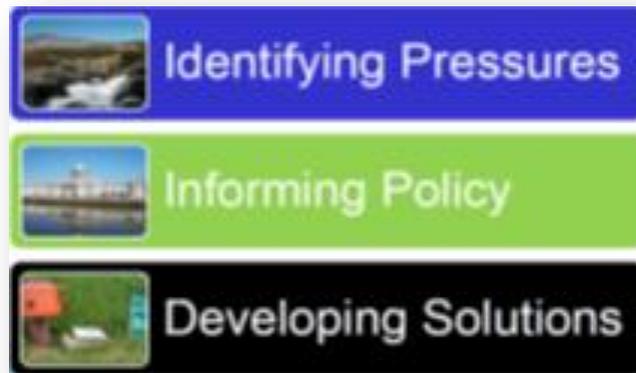


# EPA Research Programme

3 Research Pillars:

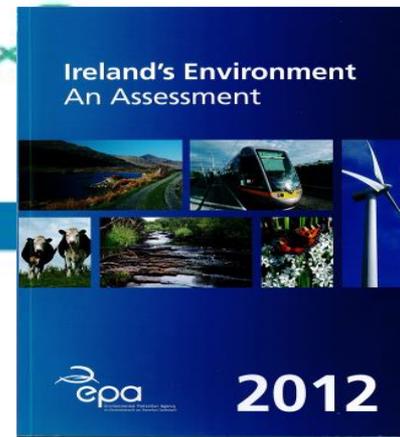
- ❖ Water
- ❖ Climate Change
- ❖ Sustainability

Other important activities include  
International Linkages (Horizon 2020,  
JPIs, EIPs)

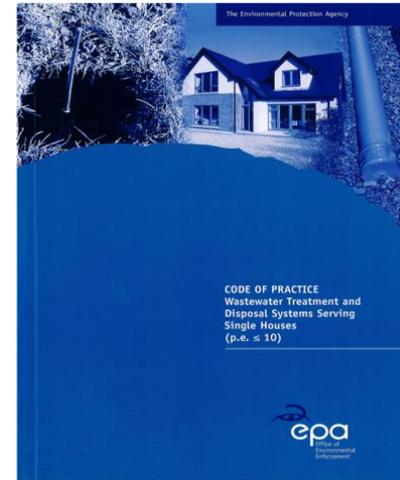




## Identifying Pressures



## Informing Policy



## Developing Solutions



# EPA Water Research 2014

Ireland's waters are one of our major natural resources. Plentiful availability of good quality water offers a significant competitive advantage to sectors such as agriculture, industry and tourism. Water is a resource that must be carefully managed, and improving water quality status is a national priority for Ireland.

Strategy 2014-2020
Water
2



**EPA Research**  
Climate - Water - Sustainability  
*Identifying pressures • Informing policy • Developing solutions*

Ireland's waters are one of our major natural resources. Plentiful availability of good quality water offers a significant competitive advantage to sectors such as agriculture, industry and tourism. Water is a resource that must be carefully managed, and improving water quality status is a national priority for Ireland.

EPA Research's water pillar deals with groundwater, surface water, transitional and coastal water; as well as wastewater, drinking, bathing and shellfish waters.

It will support the emerging policy & implementation research needs in relation to the implementation of the Water Framework Directive (WFD), as well as marine research considerations to support the formulation and implementation of policies. In addition, the EPA is coordinating a multi-agency transboundary programme of research on Environmental Impacts of Unconventional Gas Exploration & Extraction (EIGEE), which has significant water elements, and is included under Thematic area 5: Emerging and Cross-cutting Issues.

The overall aim of the water pillar is to support relevant water policy and to protect our water environment, contributing to achieving excellent water quality in Ireland.

**EPA Research's Water Pillar**

EPA Research's water pillar has a strong focus on policy and has been driven by national regulations and European Directives. Policy-related research plays a vital role in ensuring that EU and national policies are implemented in the most cost-effective manner. A long-term water research programme is an essential component of Ireland's role in protecting its water resources and meeting EU requirements under water-related EU directives and national policies. Ireland has a high-quality research, technical and scientific base in the water sector but this needs to be further strengthened if we are to meet the major environmental and socio-economic challenges ahead. Technology and innovation have a significant role to play in meeting the environmental challenges and can also deliver economic benefits through enhanced



competitiveness and improved efficiency. Behavioural change is another key area that requires focus.

Between 2007-2013, the EPA STWEP Programme funded over 300 research projects with a budget over €10,000 related to water with a total commitment from the EPA of approximately €19.5m. The range of projects funded includes desk studies, academic, fellowships and large scale multi-annual and multi-partner awards.

**Thematic areas**

The thematic areas under EPA Research's Water Pillar for 2014-2020 will be:

1. Safe Water
2. Ecosystem Services and Sustainability
3. Innovative Water Technologies
4. Understanding, Managing and Conserving our Water Resources
5. Emerging and Cross-cutting Issues

Multi- and inter-disciplinary research is required on these themes, with associated social, economic, technology, environment and policy projects.

These thematic areas also reflect EPA Research's effort to align, where relevant, its programme with the International Strategic Research Agenda which was launched by the Water Joint Programming Initiative in May 2013.

[www.epa.ie](http://www.epa.ie)

# EPA Water Research

- ❖ Safe Water;
- ❖ Ecosystem Services and Sustainability;
- ❖ Innovative Water Technologies;
- ❖ Understanding, Managing and Conserving our Water Resources;
- ❖ Emerging & Cross-cutting Issues

# National Funding Landscape

## Ireland



**National Water Research Coordination Group  
(set up in 2010)**

# DROPLET

Database of Research Outputs: Projects, Literature and Environmental Technologies



<http://erc.epa.ie/droplet/>

# What is DROPLET?

## DROPLET

Database of **R**esearch **O**utputs: **P**rojects,  
Literature and **E**nvironmental **T**echnologies



**DROPLET** is an easy-to-use interactive web application for exploring information about projects which have been funded in Ireland on Water Research. DROPLET has been developed by the **Environmental Protection Agency** but includes projects from many other **funders of environmental research in Ireland**. DROPLET has been designed to be fully accessible across all screen and device platforms and types.

EXPLORE  
RESEARCH



FIND RESEARCH  
FUNDING



CONNECT TO  
RESEARCH



# European Linkages & Funding

- WssTP
- Water JPI
- EIP on Water
- Horizon 2020



# Irish Success in FP7 - Water

## ClimateCost



Components for  
Ocean  
Renewable  
Energy  
Systems



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



ECO-India  
[www.eco-india.eu](http://www.eco-india.eu)

# HORIZON 2020



# HORIZON 2020



## Online Catalogue of Irish Expertise in Environmental Research

- Are you looking for an Irish Partner for a European project?
- Want to make contact with the Irish Research Community?
- Do you want to apply under EU funding opportunities?
- Are you looking for partners?

Following on from the success of the FP7 Catalogue of Irish Expertise in Environmental Research, the Environmental Protection Agency is now launching its new catalogue tailored for:

- National & European Funding Opportunities
- Joint Programming Initiatives (Climate & Water)
- Horizon 2020 Societal Challenge 5
- Cost & LIFE Programmes

You can:

- View & search the profiles of Irish researchers & companies
- Register your profile
- Post your partner search request or expression of interest in a specific call

To access, browse, search the catalogue or register your profile go to

<http://erc.epa.ie/h2020catalogue>

For further information please contact Dr Alice Wemaere - [a.wemaere@epa.ie](mailto:a.wemaere@epa.ie)



<http://erc.epa.ie/h2020catalogue>

**EPA 2015 National  
Information Day on H2020  
SC5: 21/10/2015**



# Water



# JPI

# Water JPI: Vision

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



# 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

# EIP Water

Boosting opportunities – Innovating water

# EIP Water

European Innovation Partnerships aim to speed up innovations that contribute to solving societal challenges, enhance Europe's competitiveness and contribute to job creation and economic growth.

EIPs help to pool expertise and resources by bringing together public and private actors at EU, national and regional level, combining supply- and demand-side measures

## 9 Priorities

- 5 priorities (Water reuse and recycling, water & wastewater treatment, water/energy, flood and drought, ecosystem services)
- 3 cross-cutting (governance, decision support, financing for innovation)

<http://www.eip-water.eu/working-groups/action-groups>



# Thank You

**More information** on EPA Water Research, Water JPI and Horizon 2020 Societal Challenge 5: Contact Alice Wemaere ([a.wemaere@epa.ie](mailto:a.wemaere@epa.ie))

Search our **Research Projects Database**: <http://erc.epa.ie/smartsimple/>

Register your Expertise in our **Online Catalogue** of Expertise in Environmental Research: <http://erc.epa.ie/h2020catalogue>

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