



#### **ESManage**

### Incorporation of Ecosystem Services Values in the Integrated Management of Irish Freshwater Resources

#### **STAKEHOLDER WORKSHOP 31<sup>st</sup> August 2015**







Specialists in Environmental Economic Research

#### **Workshop Objectives**

1. Introduce the project objectives



2. Seek stakeholder's view on

(i) what are the key ecosystem services delivered by freshwater ecosystems in Ireland and

(ii) how alternative future land-use and other pressures, and management responses might impact the delivery of freshwater ecosystem services.



#### Workshop Agenda

Time	Speaker
9:30-9:50	Registration, Tea & Coffee
9:50-10.00	EPA 2014-2020 EPA Research Strategy – Dr Alice Wemaere (EPA)
10:00-10.15	Welcome & introduction to the ESManage Project - Dr Mary Kelly-Quinn (UCD)
10:15- 11.00	Keynote: The Ecosystem Services Approach - Dr Isabelle Durance (Cardiff University)
11.00- 11:20	Irish Freshwater Resources - Dr Hugh Feeley (UCD)
11:20 -12.30	Break-out small group sessions – Identifying key Ecosystem Services delivered by freshwater ecosystems in Ireland
12:30-13:00	Reports from session rapporteurs
13:00-14:00	Lunch
14:00-14.45	Keynote: ES valuation: Keys Steps and Information Needs – Prof. Mike Christie (Blue Island Consulting Ltd)
14.45-15.00	Pressures on Irish Freshwater Resources: Present & Future – Mr Martin McGarrigle (EPA – retired)
15.00-16.00	Break-out small group sessions – Management Scenarios for Investigation and Study Catchments
16:00-16:30	Reports from session rapporteurs
16.30-16.45	Wrap Up and Next Steps – Prof. Michael Bruen
16.45	Close of Workshop





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### **ESManage Team**



- Project Coordinator
- Dr Mary Kelly-Quinn University College Dublin

#### • Co-investigators:

- Prof. Michael Bruen University College Dublin
- Prof. Mike Christie Blue Island Consulting Ltd
- Dr Craig Bullock University College Dublin
- Dr Hugh Feeley University College Dublin
- Dr Fiona Kelly Inland Fisheries Ireland
- Ms. Ewa Siwicka Blue Island Consulting Ltd







## **Overall Objective**



Harness the knowledge and tools required to embed **the ecosystem services approach** into policy and decision-making for sustainable management of water resources, as required by the Water Framework Directive.

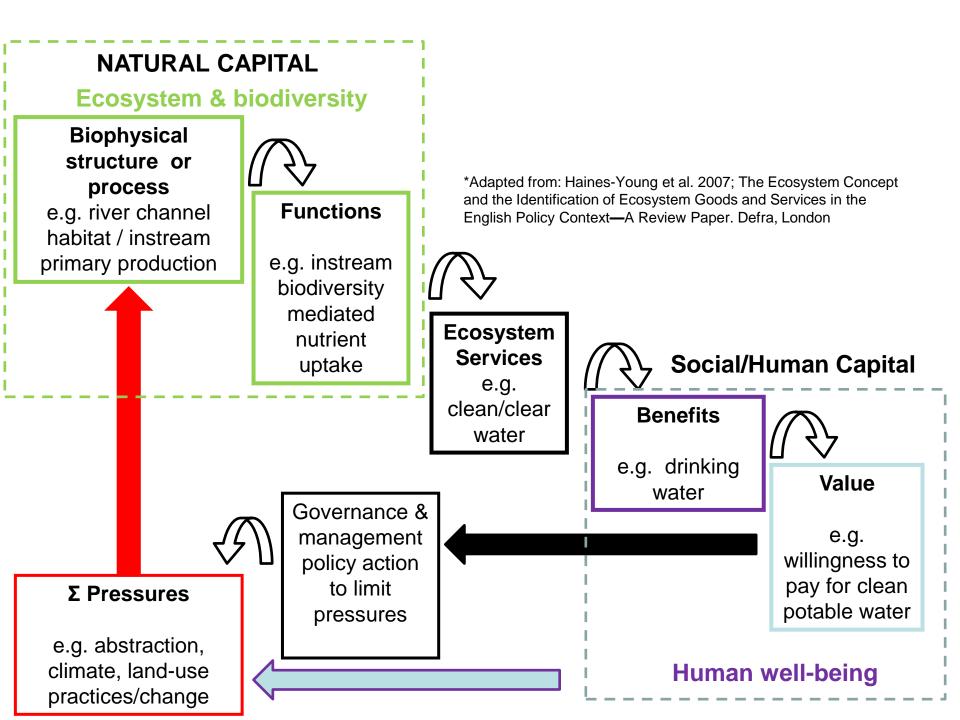
Ecosystem Services: 'the benefits humans derive from ecosystems'

**Ecosystem Services Approach:** a way of understanding the complex relationship between nature and humans to support decision-making with the aim of reversing the declining status of ecosystems and ensuring sustainable use/management/conservation of resources From: Water Ecosystem Services by J. Martin-Ortega, R. Ferrier, I.J.Gordon & S. Khan.











### ESManage – 6 Specific Objectives

Approach of ESManage

- Analysis of existing data/information
- Generation of new results
- Consultation with stakeholders







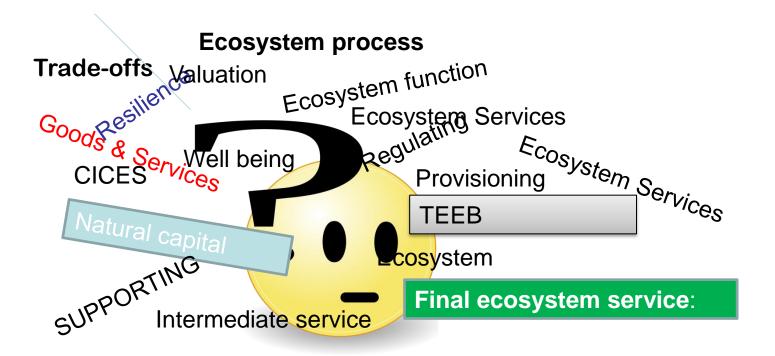


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# **Specific Objectives**

**1.** Review literature on the concept of ecosystem services in the context of freshwaters and provision of water-related services (**WP 1**) – **also produce non-technical synopsis** 



**2.** Provide a synthesis of current knowledge on the Irish freshwaters in the context of ecosystem services (**WP 2**)

- Freshwater resource capital
- Ecosystem services derived
- Stakeholders
- Pressures (present & future) on physico-chemical conditions and biological components with particular reference to those issues that compromise ecosystem services delivery
- Data sources (in particular potential ES indicators)
- Knowledge gaps

**3.** Identify, simulate and analyse the most important and feasible water resources management scenarios from the perspective of physical/chemical water quality and combine these with the linkages to ecosystem conditions developed in WP4 (**WP3**)

4. Advance understanding of the links between pressures/drivers and biological degradation that may impact on ecosystem services delivery (WP4)

**5.** Estimate the economic impact of future changes to the provision of key aquatic ecosystem services in Irish rivers (**WP5**)

**6.** Recommend how the ecosystem services approach can best be embedded into policy and decision-making for sustainable management of water resources (**WP6**)



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