

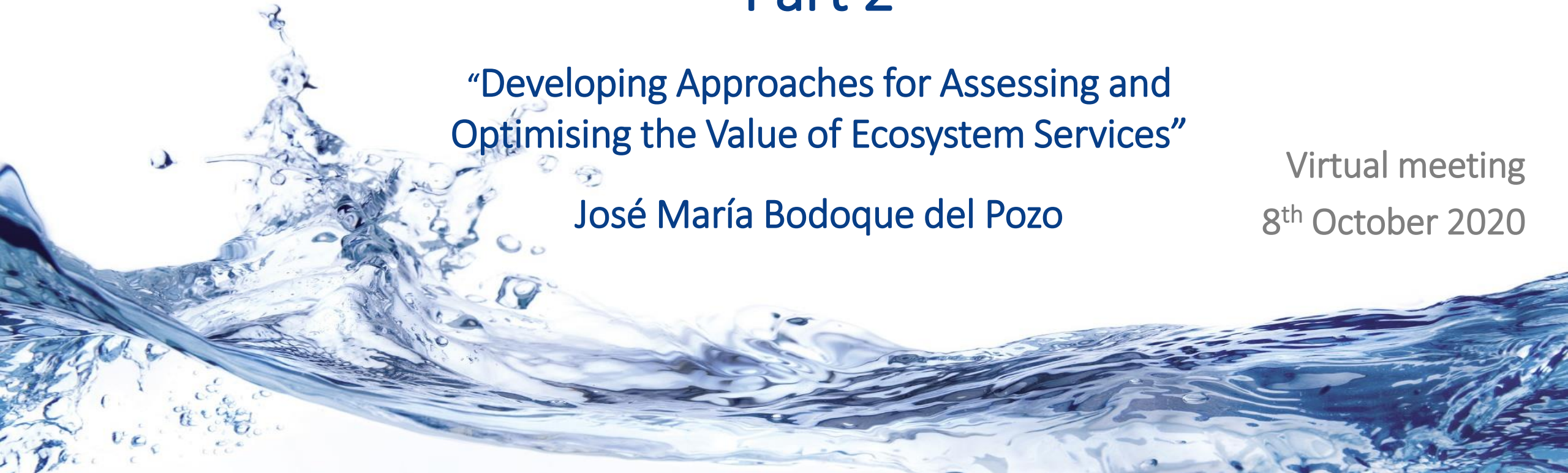
AQUATAP-ES TAP Workshop 3

Part 2

“Developing Approaches for Assessing and Optimising the Value of Ecosystem Services”

José María Bodoque del Pozo

Virtual meeting
8th October 2020

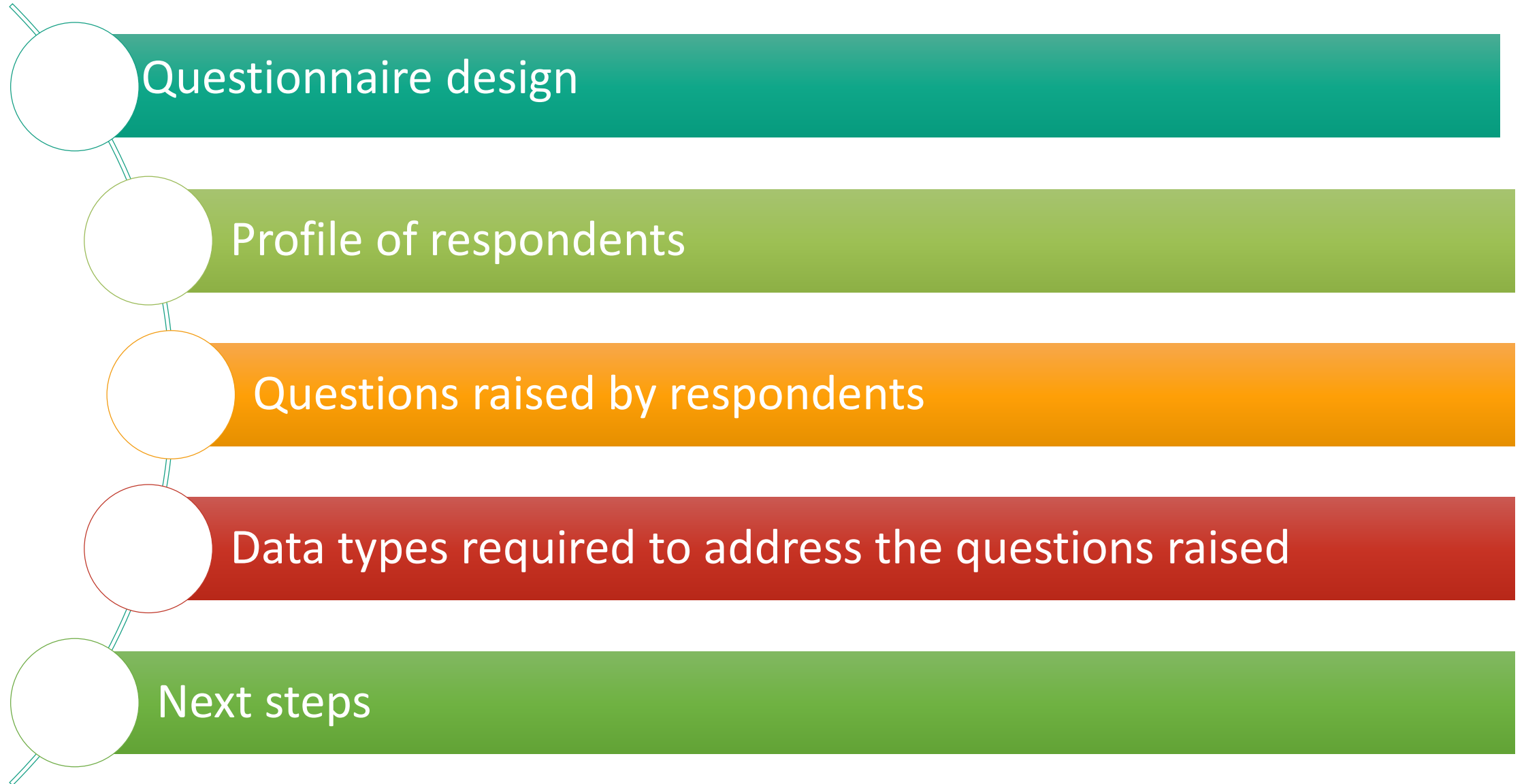


Part 1 Plenary Session: Water JPI AQUATAP-ES Midterm deliverables

Results from the Data Needs Survey and next steps

José María Bodoque del Pozo

Overview

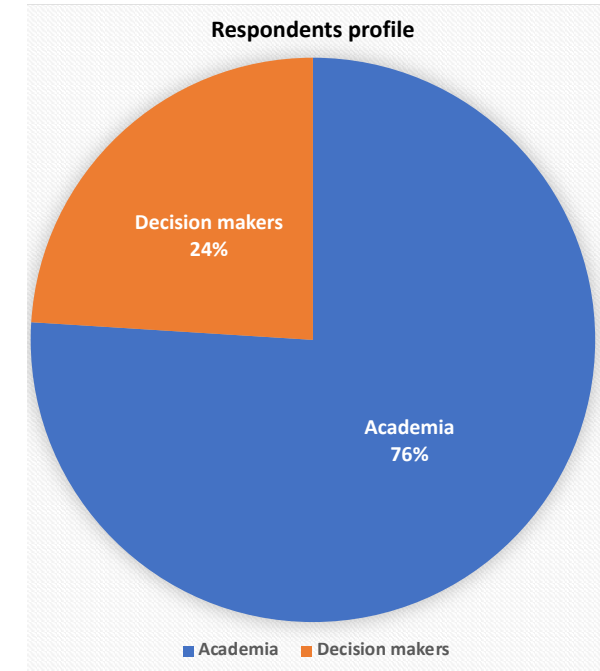
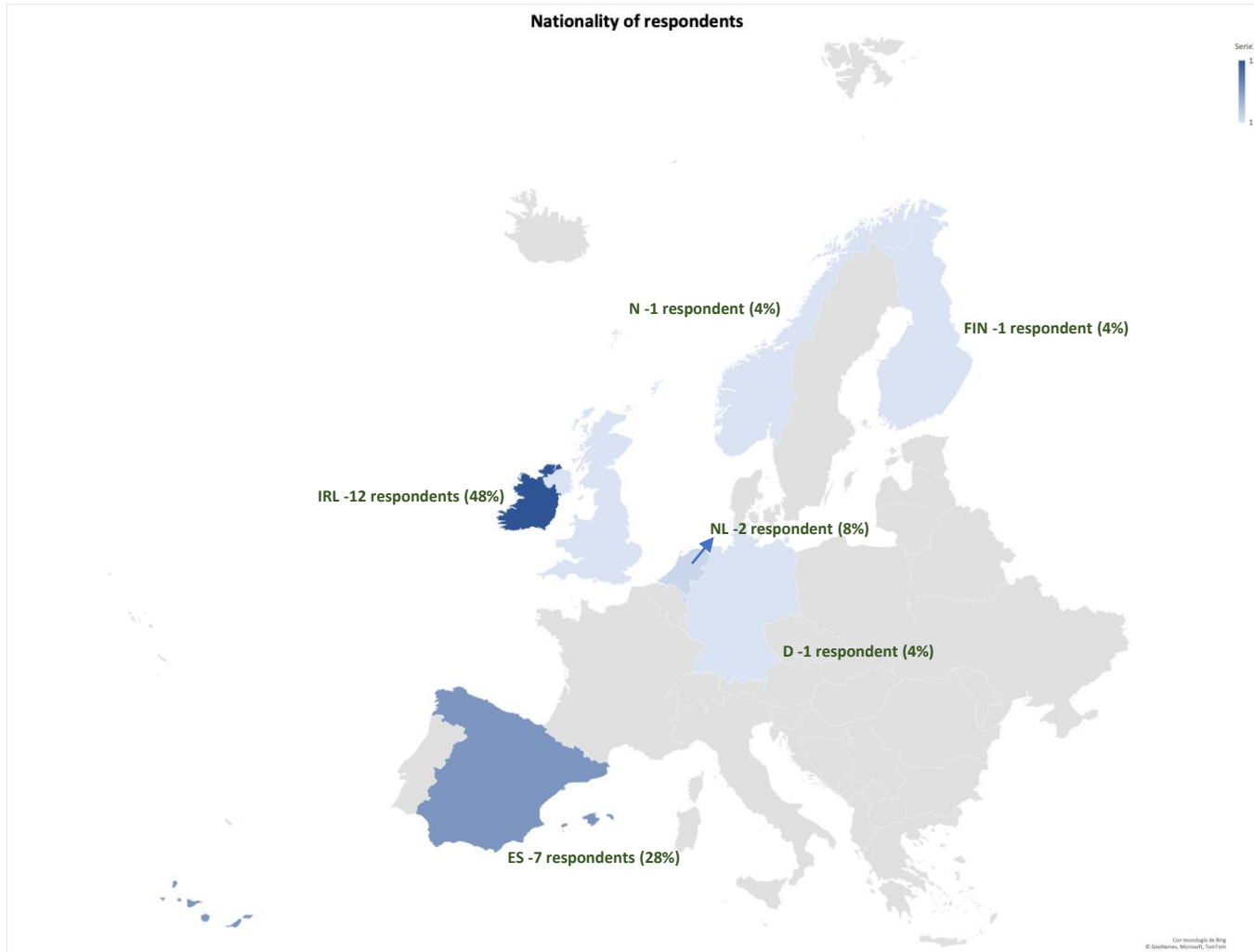




Questionnaire design

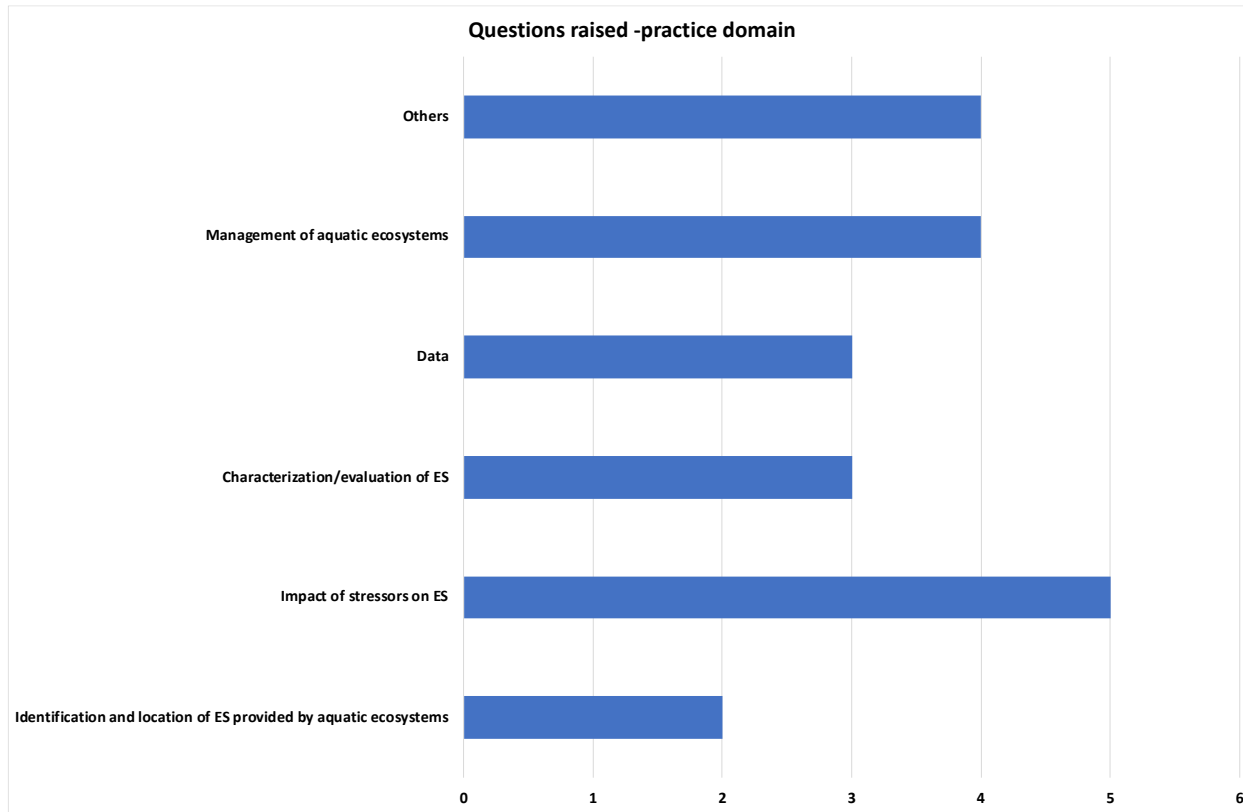
1. What **organization** (e.g. Institution, company, association, etc) do you work for?
2. What **position** do you hold in the organization you work for?
3. Do you currently collect/analyze Aquatic Ecosystems Services data? Please give some detail
4. Based on your experience **what questions**/information might those in policy and practice (i.e. resources managers, monitoring etc.) **need answers to in relation to ecosystem services?** Consider whether each is relevant to **policy or practice, or both**
5. Identify the **data types** required to address the above questions

Profile of respondents



The experts consulted work on the following categories of ecosystem services: i) provisioning – abiotic (i.e., **surface water for drinking and non-drinking purposes**); ii) provisioning – biotic (i.e., **wild animals – aquatic, animals reared by insitu aquaculture**); iii) regulation – abiotic (i.e., **control of erosion rates; flood control**); iv) regulation – abiotic/biotic (i.e. **water quality**) and cultural (i.e., **sport fishing, tourism**)

Questions raised by respondents



Identification and location of ES provided by aquatic ecosystems

- ES provided by rivers and transitional waters
- ES provided by open ocean and deep sea

Impact of stressors on ES

- Current impact of stressors
- Expected effect of stressors on ES provision
- Identification of best indicators of change
- Response-recovery pattern to important disturbances
- Tools to be used to monitor changes in ecosystems

Characterization/evaluation of ES

- Available starting data and methodological approaches available.
- Which ecosystems are valuable from land uses.

Data

- Available data and their spatial representativeness
- Value and limitations of the available information

Management of aquatic ecosystems

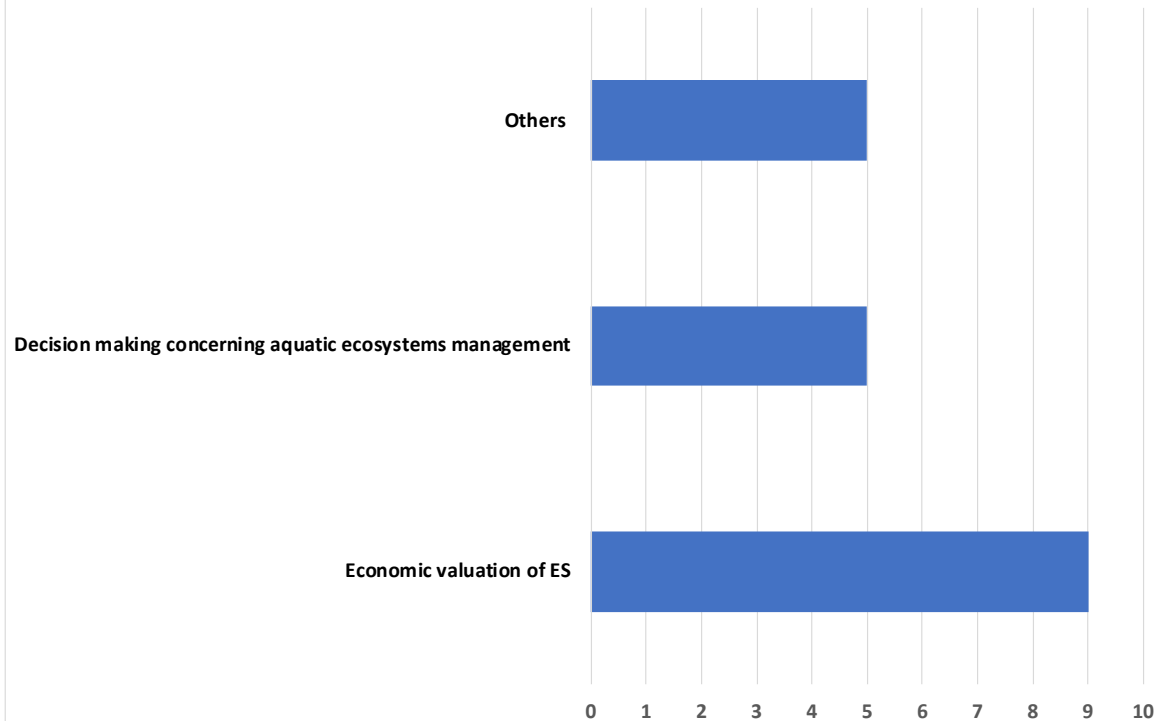
- What measurements can be implemented to restore damaged ecosystems
- How to integrate the ES approach into cost-benefit analysis
- How nature conservation improves ES

Others

- Capacity of ES (e.g., biomass production)
- How to address gaps in the understanding of food/security/biomass production in oceans in the context of climate change

Questions raised by respondents

Questions raised -practice domain



Economic evaluation of ES

- How to value ES
- What is their maintenance cost
- To what extent the conservation of ES affect the level of socioeconomic development
- Value of ES in case of degradation or Improvement
- How to scale up valuations from small-scale studies to national relevance

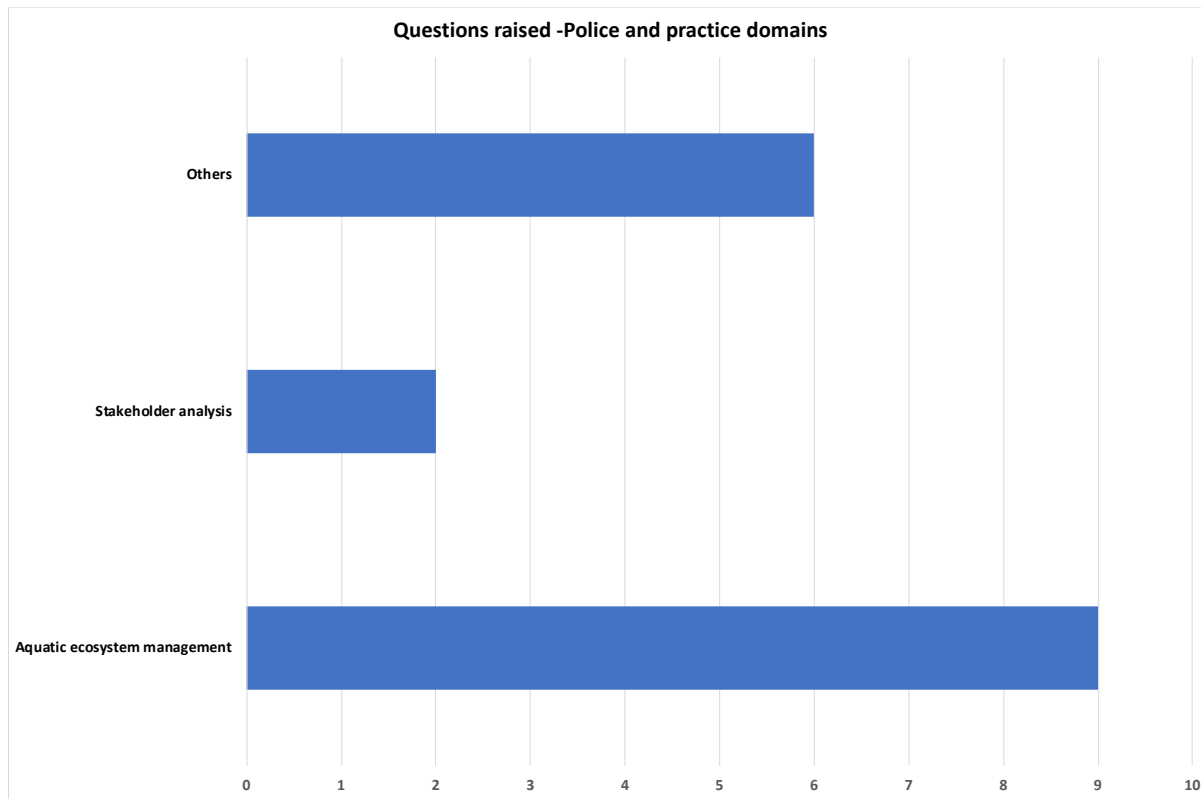
Decision making concerning to aquatic ecosystem management

- How nature-based solutions can be integrated into natural resources management
- What are the relative benefits of nature based solutions compared to grey infrastructure
- How different ES can be compared in the framework of water resources management
- How to reconcile the benefits and costs of conflicting management strategies (e.g., preservation of natural floodplain habitats versus intensive agriculture)
- Tools to be used to monitor changes in ecosystems

Others

- Loss of biodiversity resulting from the degradation of ES.
- Which are the keystone species linked to the most relevant ecosystems.
- Design and implementation of communication strategies to improve the perception of the general public and decision makers on the value of ES.

Questions raised by respondents



Aquatic ecosystem management

- How effective and reliable nature-based solutions are
- The extent to which the management measures based on the ES approach are sustainable from a purely economic perspective
- To what extent the ES approach can help to achieve the objectives set out in the European Green Deal or the Agenda 2030 for sustainable development

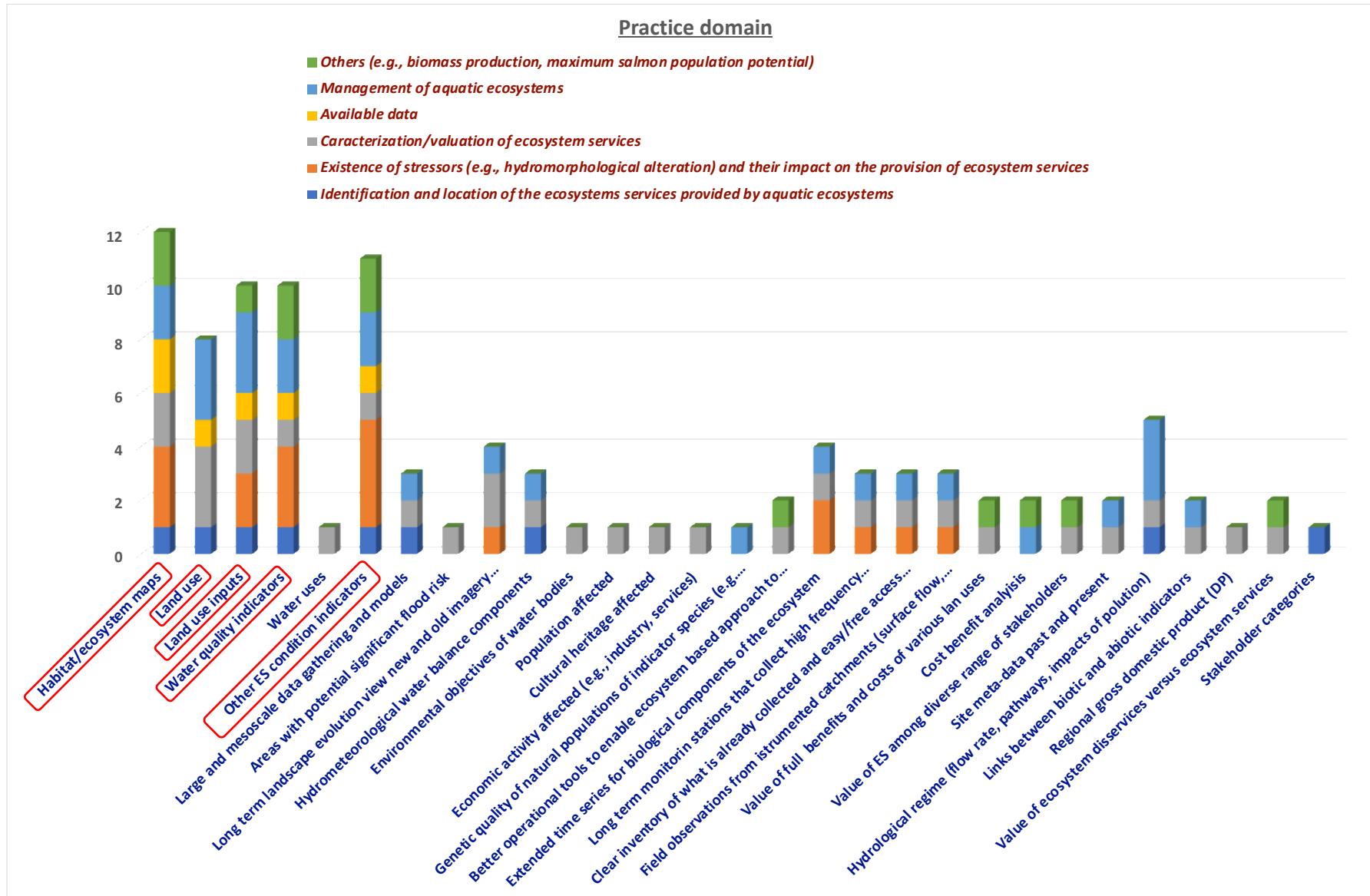
Stakeholder analysis

- Seeking stakeholder engagement in the design and implementation of management strategies that rely on ES
- Characterizing stakeholders perception about the value and benefits of ES

Others

- How ES are characterized/verified and who is in charge of undertaking this task
- What is the social value of ES.
- Valuation of the most subjective and intangible ES classes associated with open ocean and deep sea

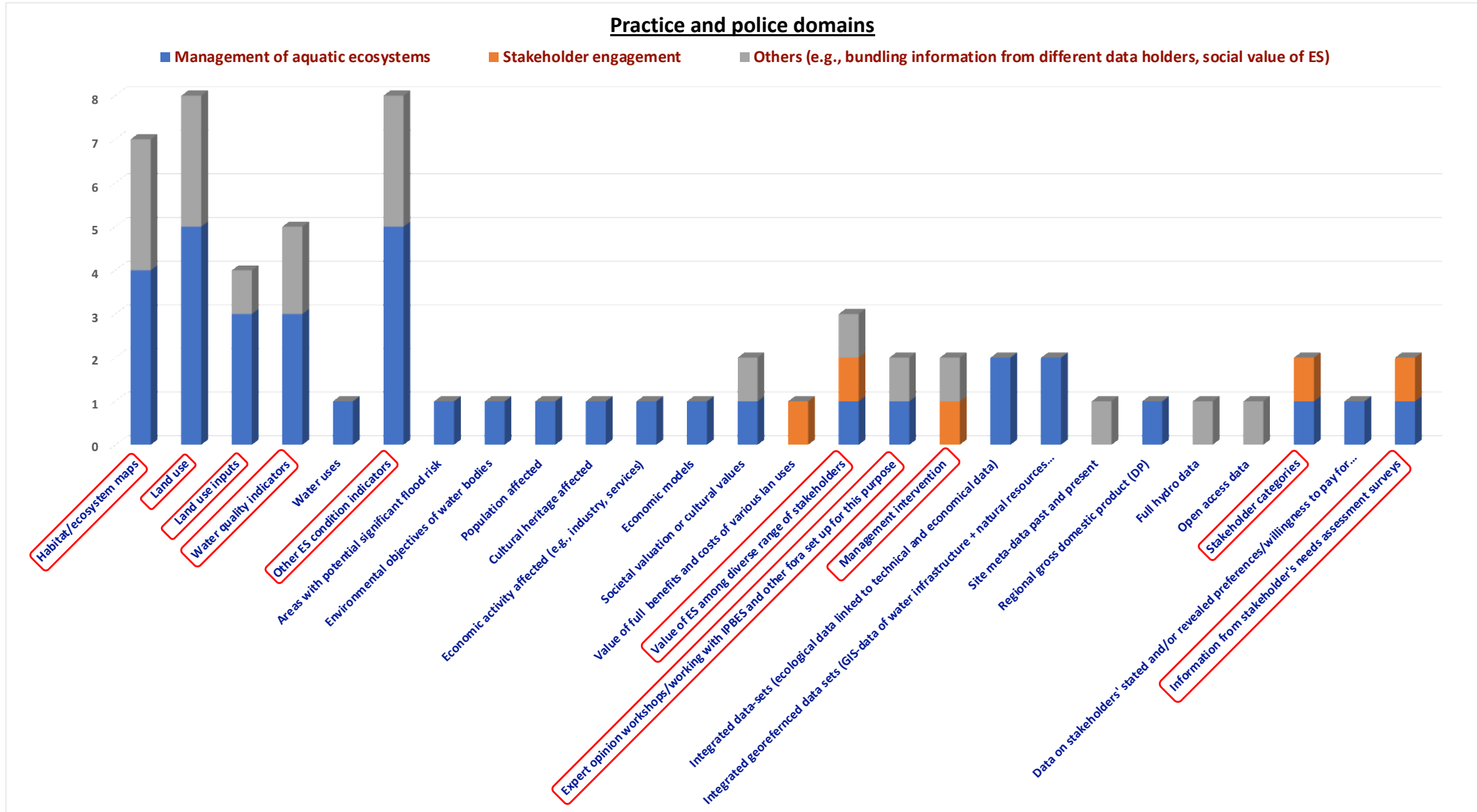
Data types required to address the questions raised



Data types required to address the questions raised



Data types required to address the questions raised





Next steps

The experts surveyed are mostly **Irish** and to a lesser extent **Spanish**. If possible, it would be useful to have additional questionnaires filled in by **experts from the other countries** that participate in AQUATAP.

Most of the questionnaires have been completed by experts from the **academia**. If possible, it would be useful to have additional questionnaires completed by **professionals and experts of the decision-making area**.