

Spotlight on ICES science groups

Dave Reid – Science Committee Chair

For MIRIA & MIACO

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International Council for
the Exploration of the Sea
Conseil International pour
l'Exploration de la Mer



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Dave Reid – Science Committee SCICOMM Chair

- ***Biodiversity, science and advice***
- **Cumulative Impacts**
- ***Fish Distribution***
- ***Carbon and fishing***
- ***Fish biology and climate change***
- ***Aquatic Animal Welfare***
- ***Marine Nature Restoration***



Science

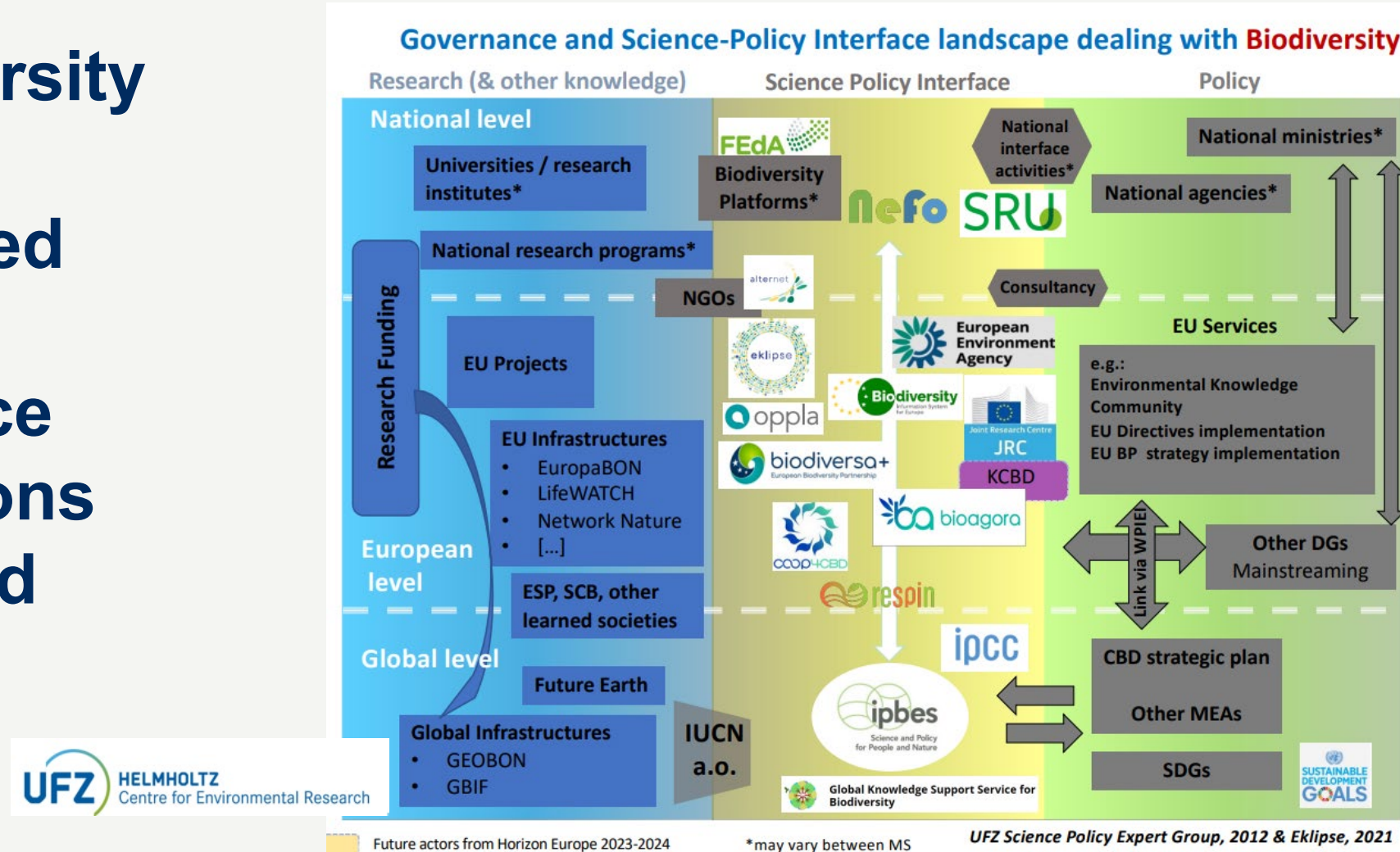
Fish stocks

Advice

SIBSA – Strategic Initiative on Biodiversity science and advice

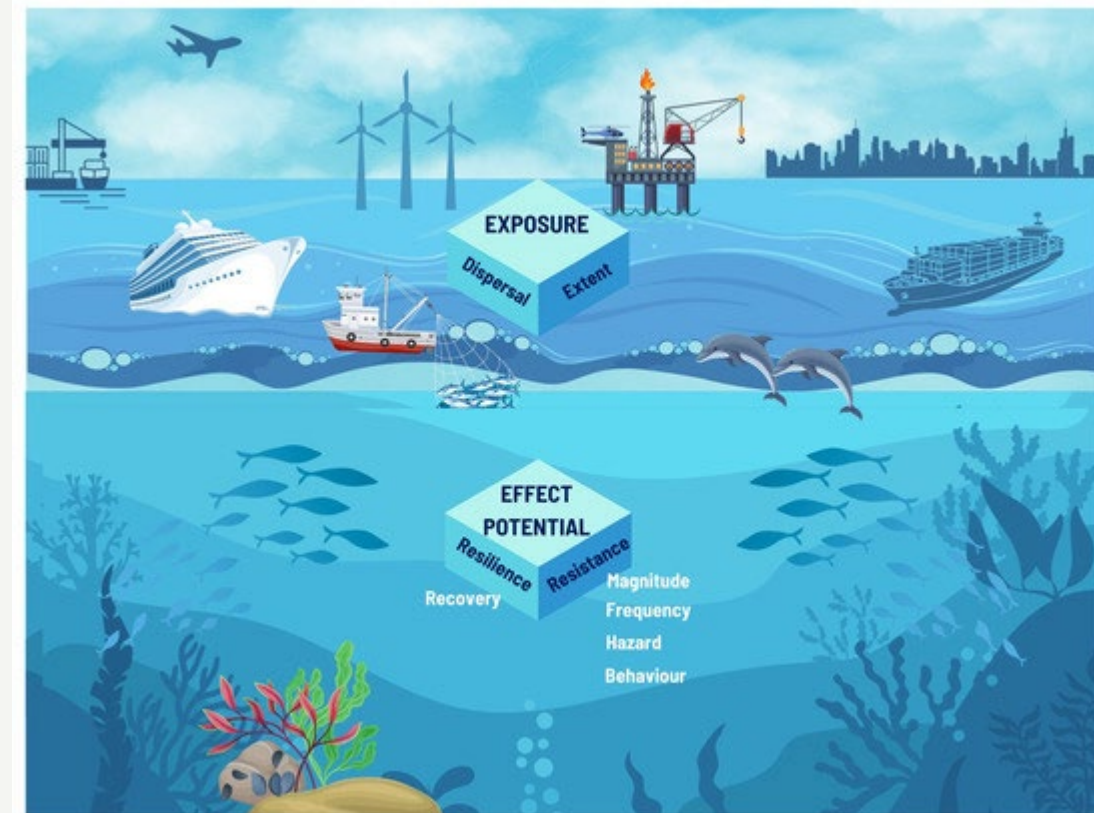
- Find best biodiversity indicators
- Develop risk-based approach to biodiversity advice
- Build collaborations inside and beyond ICES
- Develop advice

Figure from Ute Jacob (UFZ) from [Eklipse](#) “Bridging the gap between policy and knowledge on biodiversity in Europe”



WGCIAM – Cumulative Impacts Assessment Approaches in Management

- **Methods – availability, choices, development**
- **Collect appropriate spatial data**
- **Apply food web models for multiple effects**
- **Collaborate with Regional Seas Conventions**
- **Develop potential advice**

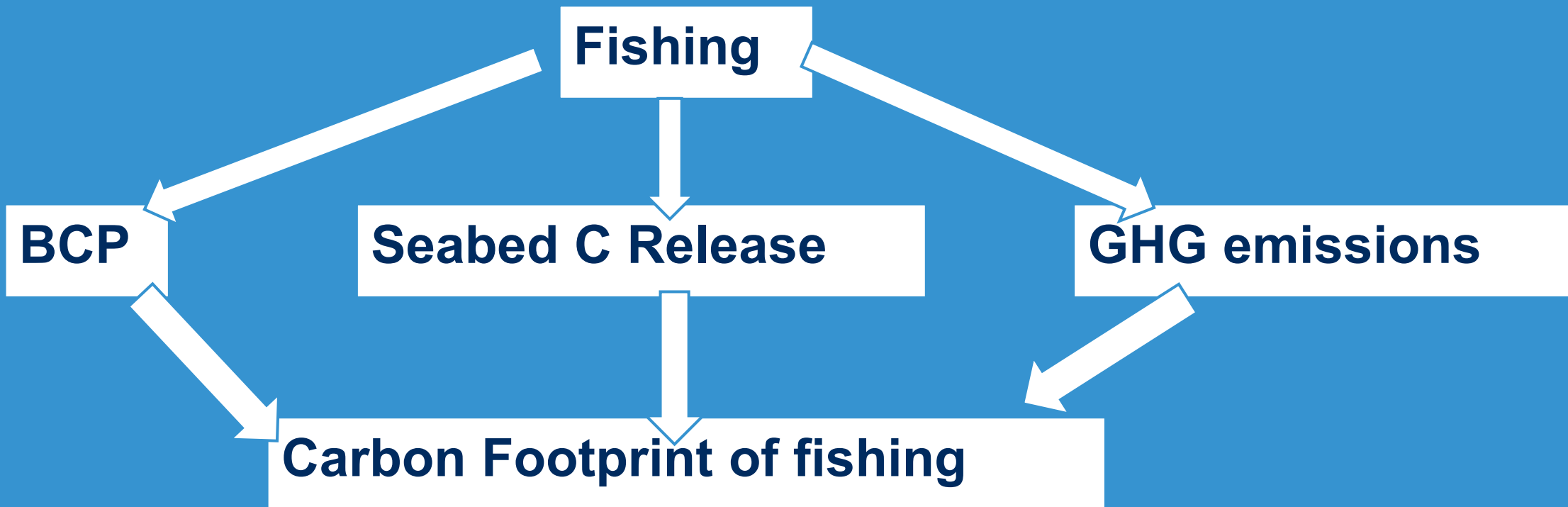
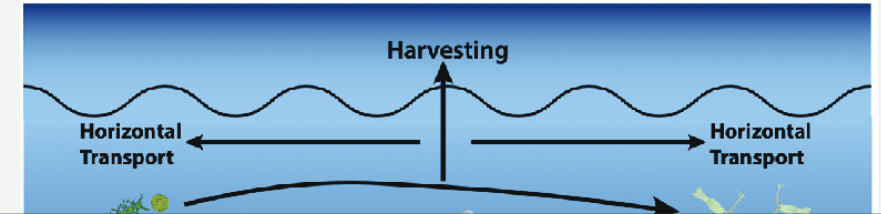


Workshops on Fish Distribution (WKFISHDISH)

- **Evaluate and apply Fish Distribution models**
- **Evaluate and apply Essential Fish Habitat models**
- **Evaluate likely changes in distribution cf, climate change**
- **Link with assessment & management issues**



Working Group Assessing the Impact of Fishing on Oceanic and Atmospheric Carbon (WGFISHC)

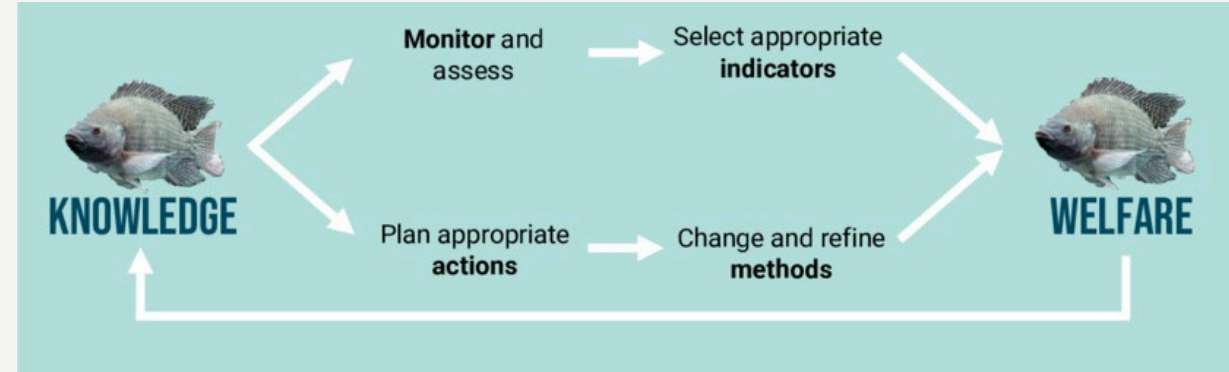


Workshop on FISH biology, ECOlogy & climate change (WKFISHECO)

- **How does Climate Change affect fish**
 - **Condition, growth, productivity, mortality, recruitment, habitats, prey and predators etc.**
- **Link with assessment & management issues**



Working Group on Aquatic Animal Welfare (WGAAW),

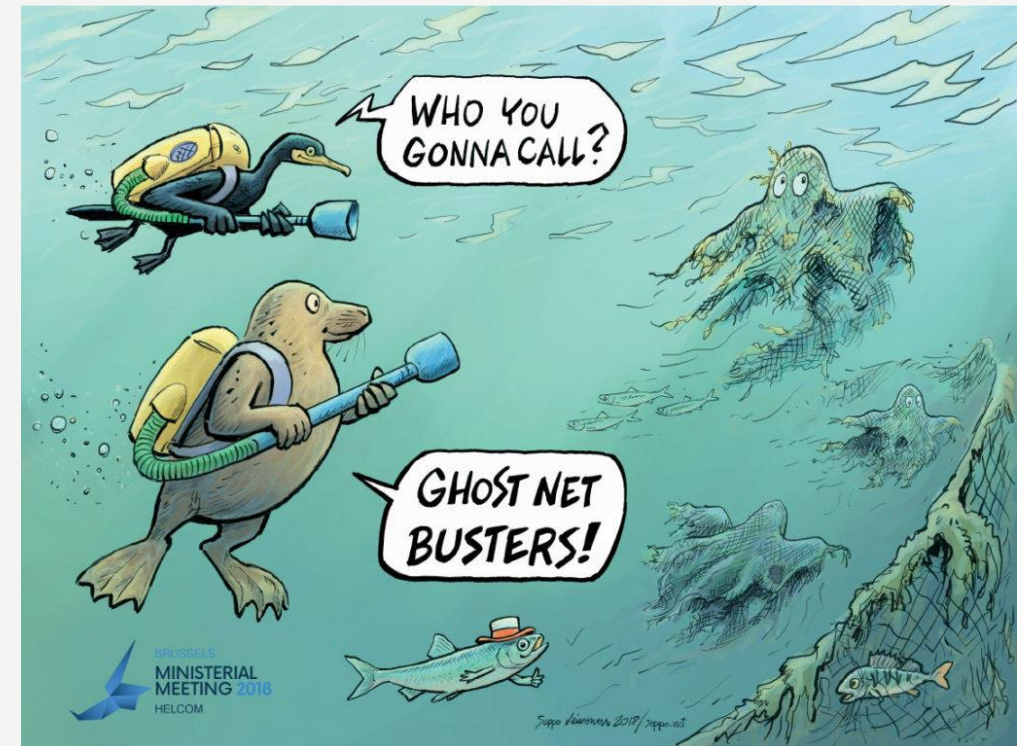


- **Metrics for AAW**
- **AAW & science activities**
- **AAW Risks and Mitigation**
- **Stakeholders and AAW**
- **Develop advice on AAW**



Working Group on Marine Restoration (WGREST)

- **Covers both Active and Passive Restoration**
- **Define appropriate metrics for recovery and/or restoration**
- **Assess potential recovery trajectories**
- **Define success criteria (thresholds) for advice**



Thank you



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Science for sustainable seas



“We like to bring together people from radically different fields and wait for the friction to produce heat, light and magic. Sometimes it takes a while.”

Image Dirk Vonten, Fotolia