

- Aim**
- identify important science gaps for EBM implementation
 - available data/methods/approaches etc to fill these gaps
 - concrete actions (who needs to do what?)

- In particular**
- methods to apply Precautionary Principle
 - new types of data

Plan for the session

Introduction
 Group discussion 1 (20 min)
 Joint discussion
 Group discussion 2 (20 min)
 Joint discussion & summary



HELCOM Stakeholder Conference 2021

Practically implementing ecosystem-based management

Science station

What is lacking in practice in different processes (e.g. in target setting, ecosystem assessment, practical implementation) to implement the precautionary principle? What can science contribute? Which action(s)?

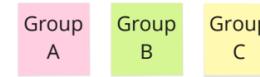
Voting stickers (one per participant)



Tips

- The **main menu** to access the functionalities should be to your left. An additional menu will pop-up when selecting an item from the main menu.
- Press **"space"** or **click** on the board to move it around.
- To **zoom**, either use the scrolling wheel of your mouse, press the "+" or "-" keys, or use the navigation menu.
- The **navigation menu** should be to your bottom right. There, you can adjust the zoom, jump to a specific section etc.
- To select multiple elements, press "shift".
- To **group elements**, select multiple items, then "group objects" in the pop-up menu
- Cancel your last move? You can **undo** your actions with "ctrl+z" or using the arrows at the top of the window.

Sticky notes: use your group colour



- For sticky notes, press "N" or add them to the board from the main menu to your left.
- When adding content to a sticky note, the **text will automatically shrink** as you type along. You do not need to increase the size of your note.
- Clicking on a sticky note will make its own menu pop-up. You can change the note's properties such as colour there.



from DePiper et al 2017. ICES J. Mar. Sci. 74:2076-2086

1. Science gap
2. Science to fill gap
3. Required action

In which process is more/new science needed?

From HELCOM science agenda

- Evaluation of in what way and how far the EA, i.e. the management of human activities in the Baltic Sea Region, has been **implemented**;
- Establishing rules of procedure and approaches for implementation of the **precautionary principle** in the EA, ensuring compatibility with other assessments;
- Investigate how the provisions of the Paris Agreement, as response to the **threat of climate change**, can be incorporated into the EA concept for the Baltic Sea;
- Evaluation of approaches, measures and instruments to improve the state of the Baltic Sea towards good environmental status through application of the EA;
- Develop and improve **Decision Support Tools** that can perform **qualitative and quantitative analysis** to support implementation of the EA to management of human activities.



Recommendation to funding agencies: Ensure appropriate funding for communication & knowledge co-production in funding decisions (in order to provide incentives for this). Also funding interdisciplinary research, involving social science.

Recommendation to managers and policy makers: To create better incentives for

