

Ecosystem Services & Human Wellbeing

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Workshop on Ecosystem Services
Baltic Sea Stakeholder Conference*



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- Why hold this workshop?
- Aim 1
- Promotion of ocean literacy on marine ecosystem services in relation to MPAs
- Aim 2
- Information collection: providing stakeholders with a dynamic space to exchange perspectives and provide critical insights to WP4's work on Baltic Sea ecosystem services



Workshop Agenda

1. Slido Round 1 – everyone (*10 minutes*)
2. Intro to ES - Presentation (*10 minutes*)
3. Slido round 2 – everyone (*10 minutes*)
4. Small group work (*1 hour*)
5. Round off – together (*15 minutes*)

• Slido Round 1

- 1. Why did you choose this workshop?
- 2. How familiar are you with Ecosystem Services (ESs)?
- 3. With your experience level in mind, what do you hope to gain from this workshop?



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Presentation: Intro to Ecosystem Services ...

- 1 • What are Ecosystem Services (ESs)?
- 2 • Understanding the 'Cascade' – from ecology to human wellbeing
- 3 • PROTECT BALTIC and ESs
- 4 • Today's small group work

What are Ecosystem Services? (MA, 2005, CICES v5.2.)

Biotic =
living

Ecosystem =

"a dynamic complex of plant, animal, and microorganism communities and the non-living environment, interacting as a functional unit"

Humans are an integral part of ecosystems.

Abiotic =
nonliving

Ecosystem services =

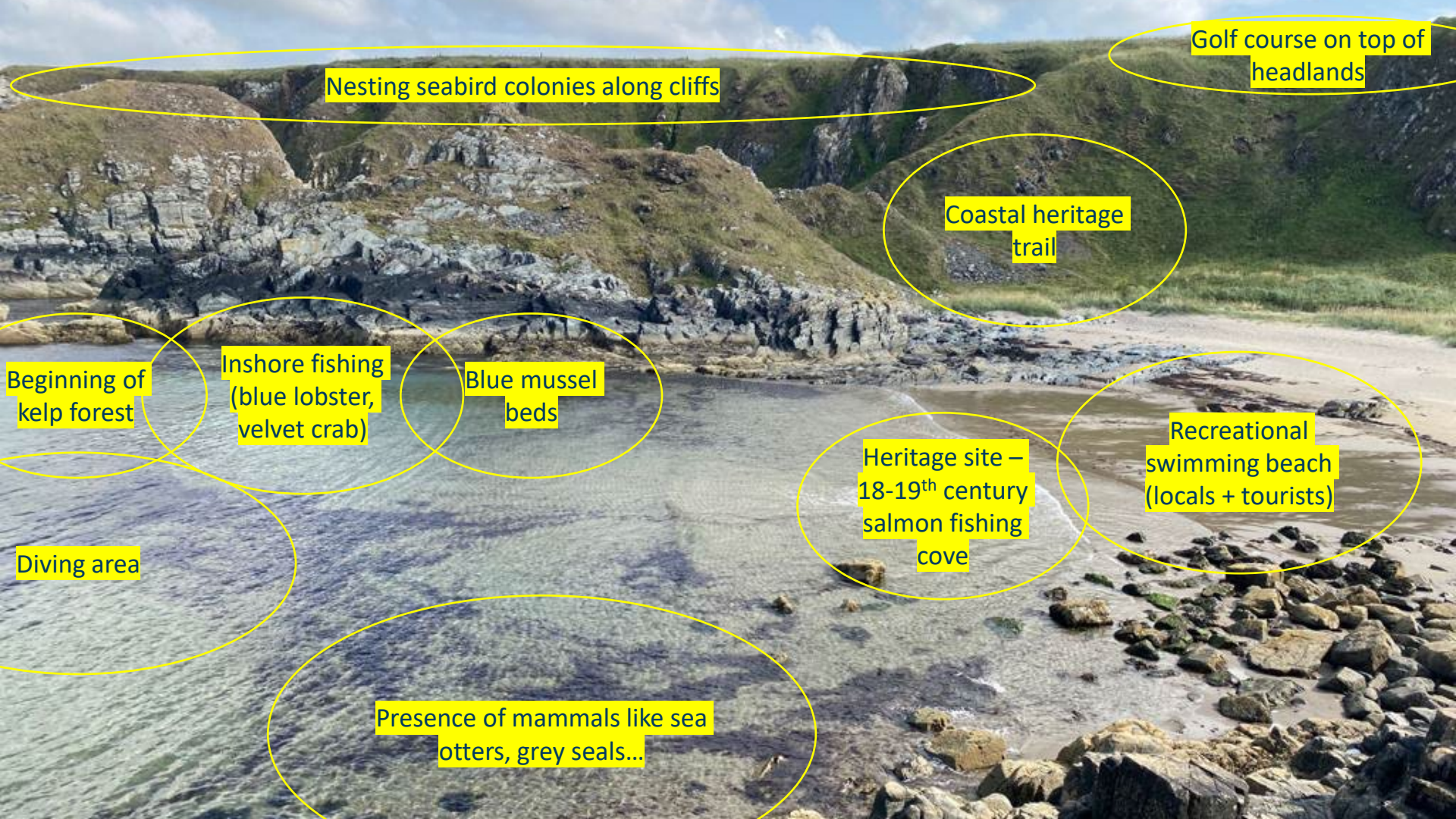
benefits people obtain from ecosystems.

1. Provisioning services: food & water
2. Regulating and maintenance services: flood & disease control
3. Cultural services: spiritual, recreational, & cultural benefits



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Nesting seabird colonies along cliffs

Golf course on top of headlands

Coastal heritage trail

Beginning of kelp forest

Inshore fishing (blue lobster, velvet crab)

Blue mussel beds

Heritage site – 18-19th century salmon fishing cove

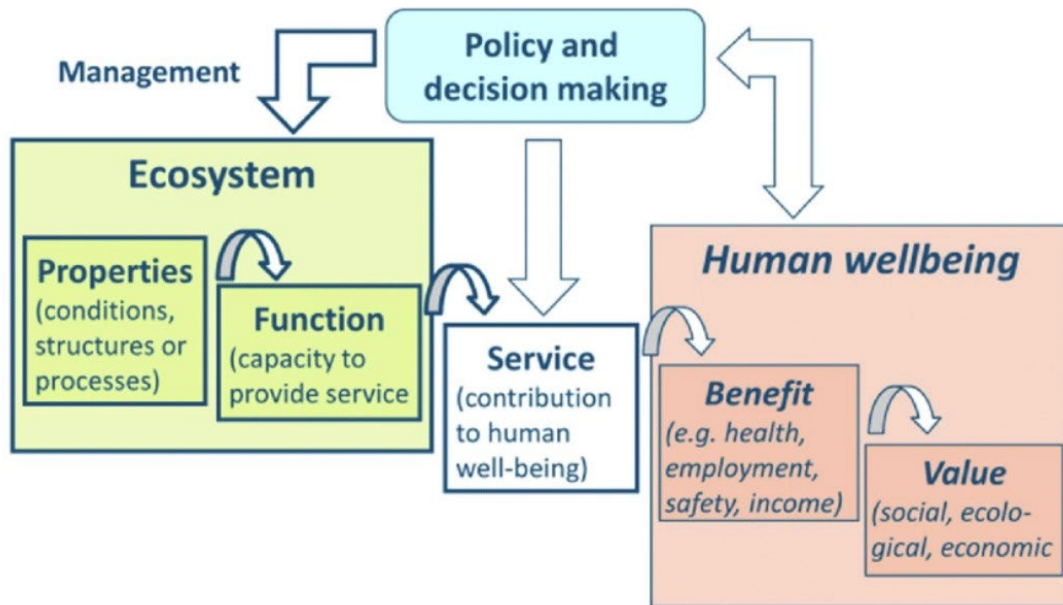
Recreational swimming beach (locals + tourists)

Diving area

Presence of mammals like sea otters, grey seals...

- 2. Understanding the 'Cascade' – from ecology to human wellbeing (Adapted from Potschin, M. and R. Haines-Young (2011))

- How do we begin to understand this complex situation in different locations?
- The cascade model = clear flow from ecosystem to wellbeing



- E.g. Blue mussel!

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• Ecosystem Service List (CICES V5.2)

Provisioning	Plant aquaculture for nutrition, materials or energy
	Animal aquaculture for nutrition, materials or energy
	Wild plants for nutrition, materials or energy
	Wild animals harvested for nutrition, materials or energy

Regulation & Maintenance	Reduction of nutrient loads and mediation of wastes
	Erosion control
	Flood and storm surge mitigation
	Gamete dispersal
	Maintaining or regulating nursery populations and habitats, breeding grounds (Includes gene pool protection), refuge habitats or feeding grounds
	Pest and disease control
	Regulation of soil quality
	Regulation of water conditions
	Climate regulation (Examples: Carbon storage and sequestration)



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Cultural	Recreation
	Scientific investigation or the creation of traditional ecological knowledge
	Education and training
	Culture or heritage
	Aesthetic experiences
	Entertainment or representation
	Symbolic meanings & sense of place
	Spiritual and/or religious meaning
	Existence of nature
	Inter-generational existence or conservation



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• PROTECT BALTIC – Work Package 4: Ecosystem Services and Valuation

- PROTECT BALTIC Work package 4 – progresses and assesses ecosystem services and their value to society.

- **WP4 ... 5 dedicated tasks (T4.1-4.5)**

- WP4 will develop a versatile methodology to assess ES in the Baltic Sea.

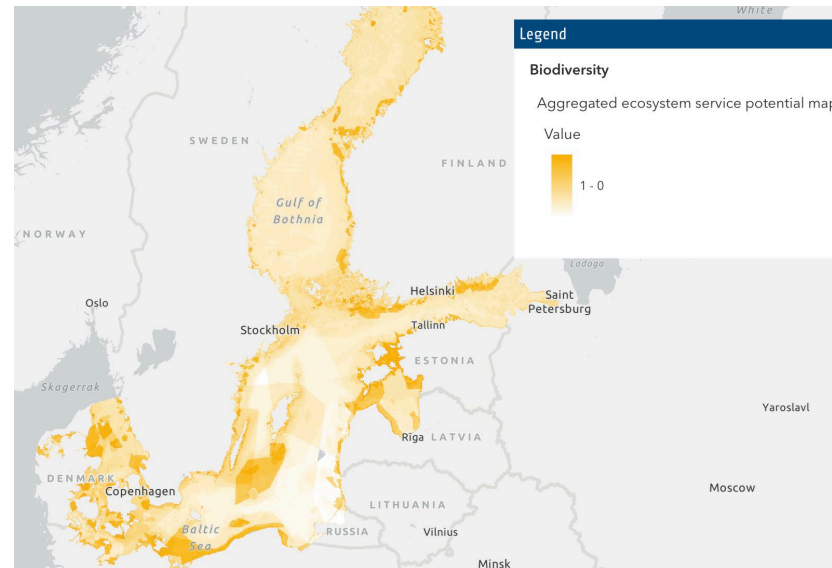
- = **identify, map, quantify, and value** ESs

- Whilst aiming to explore how ...

1. **how habitat quality and location** affect ESs

- + 2. Take ecosystem **function** into account when valuing services.

- WP4 will build on existing ESs work in BSR ...



*Aggregated ecosystem service potential map – HOLAS 3
(HELCOM, 2023)*



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- Slido Round 2
- What do you think of when you hear the term 'Ecosystem Services' (ESs)?



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A scenic view of a coastal town with wind turbines and a lighthouse under a cloudy sky. The foreground is filled with dark blue, choppy water. In the middle ground, a line of greenery separates the water from a town with red-roofed houses. Two white wind turbines are visible on the left, and a tall white lighthouse stands in the center. The sky is filled with large, white, fluffy clouds against a blue background.

Time to find your small group!

Thoughts, questions, concerns?



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- Slido Round 3

- How do you feel after this workshop?



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Thank you!



Photo: Renata Kilinskaite