



Using Ecosystem Services information to develop and prioritise in the national environmental measures programme

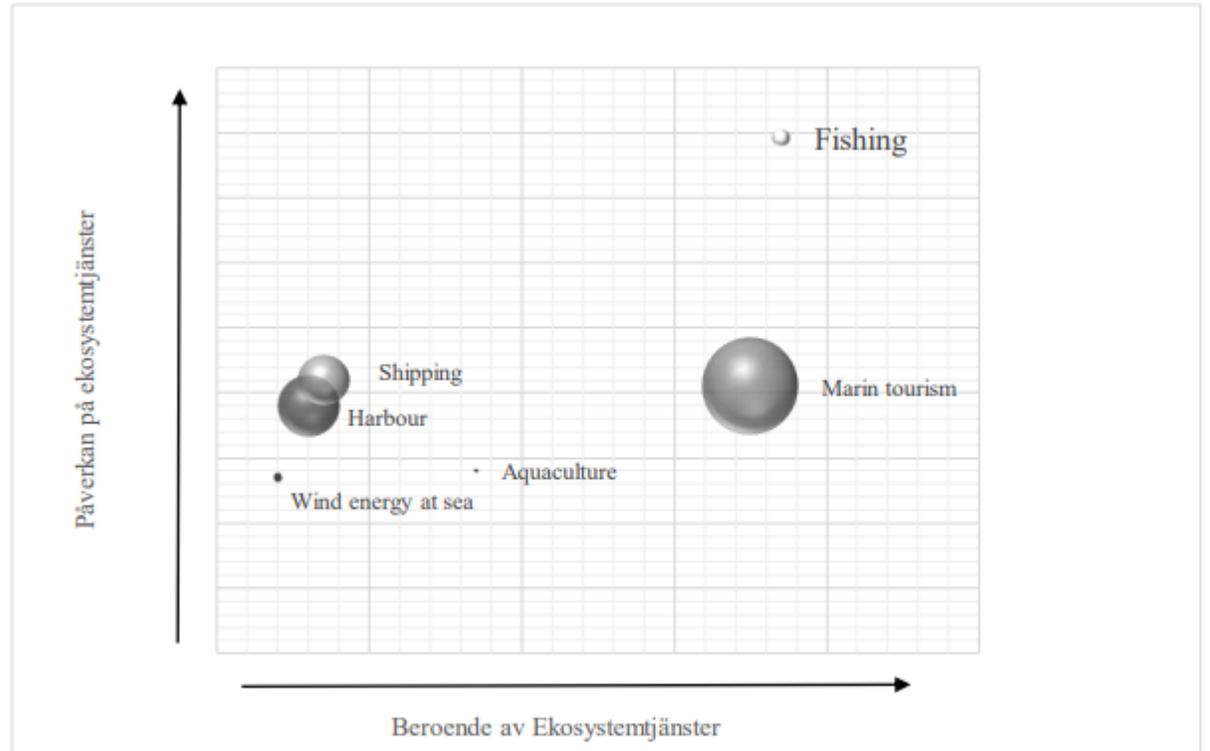
Worth it?

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Background

- Conducted ES analyses for:
 - 🇸🇪 PoMs – 2015 & 2021
 - 🇸🇪 Initial Assessment – 2017
- Based on data from SLU (Bergström, Bryhn, Kraufvelin et al.)
- Used linkage frameworks: Activities → ES → Activities
- ES → Environmental targets (Art. 10, MSFD)



Kraufvelin et al. 2018

ES- AnalysPoM 2022-2027

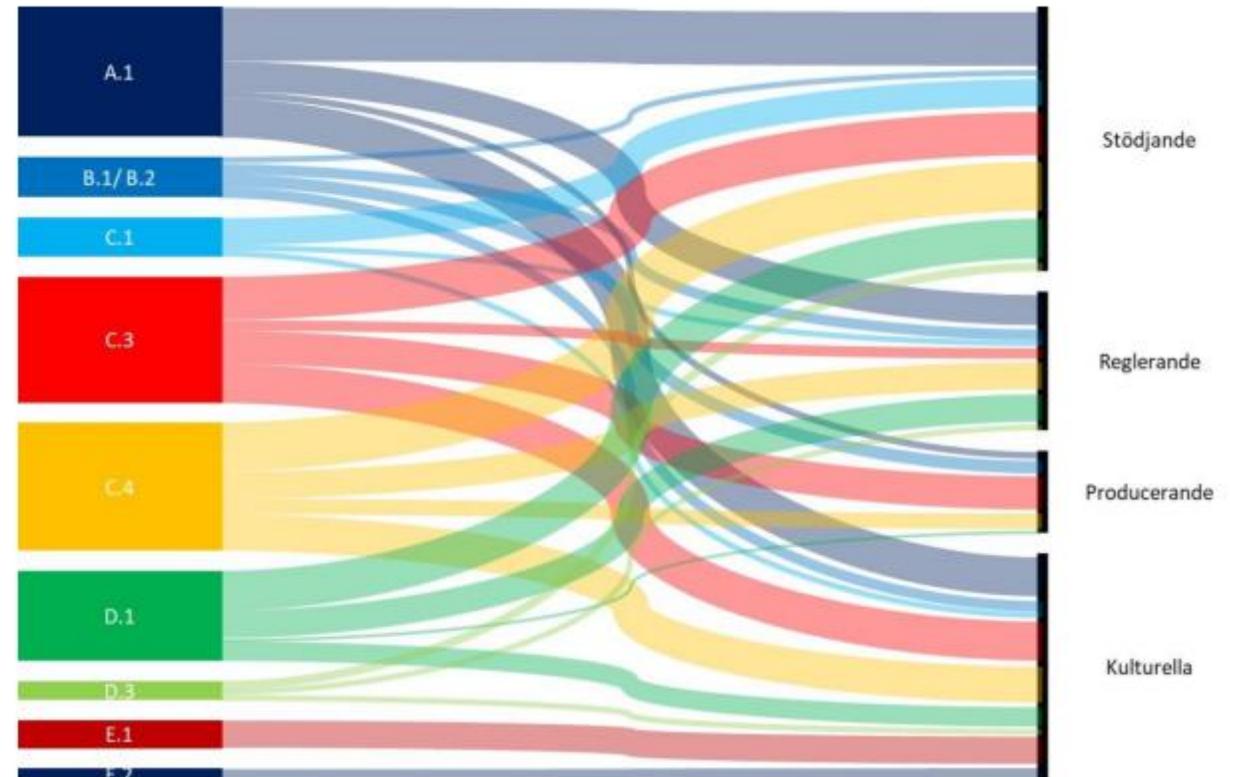
- GAP analyses to evaluate how new measures contribute to achieving targets.
- Link between Environmental Quality Standards (EQS) and Ecosystem Services (ES).
- Quantify increase in ES services supply using a willingness-to-pay (WTP) study (Value of(GES))

	A.1	B.1	C.1	C.3	C.4	D.1	D.2	D.3	E.1	E.2	-
	NÄOM	FAÄM	FRAR	FISK	FÖVÄ	HABO	BISU	HYFÖ	MASK	IMLJ	Andra indikatorer
S1 Biogeokemiska kretslopp	3	1	1	1	2	2	2	2	0	0	2
S2 Primärproduktion	4	0	0	2	1	2	2	1	0	0	3
S3 Födovävsdynamik	2	0	2	3	4	2	2	1	1	1	2
S4 Biodiversitet	2	1	2	3	3	2	4	1	1	1	2
S5 Habitat	3	1	2	2	3	3	4	2	1	1	2
S6 Resiliens	3	2	2	3	4	3	3	1	1	1	3
R1 Klimat- och atmosfärsreglering	2	0	0	1	2	1	3	1	0	0	3
R2 Sedimentkvarhållning	1	0	0	0	0	3	3	2	0	0	2
R3 Reglering av övergödning	4	0	1	2	3	2	2	1	0	0	1
R4 Biologisk reglering	3	1	2	2	3	2	3	0	0	0	2
R5 Reglering av giftiga ämnen	2	4	0	1	2	3	2	0	1	0	2
P1 Livsmedel	1	3	1	4	3	1	2	0	0	0	1
P2 Råvaror	2	1	0	4	1	1	1	0	0	0	2
P3 Genetiska resurser	1	0	1	2	2	2	3	0	0	0	3
P4 Kemiska resurser	1	0	0	1	1	1	1	0	0	0	4
P5 Utsmyckningar	1	0	1	1	1	1	1	0	1	0	3
P6 Energi	1	0	0	1	0	0	1	0	0	0	4
C1 Rekreation	3	2	1	3	3	2	3	1	3	2	2
C2 Estetiska värden	3	0	1	2	2	1	3	1	3	1	3
C3 Forskning och utbildning	2	2	2	2	3	2	3	2	2	2	3
C4 Kulturarv	2	1	0	3	2	1	2	0	1	1	4
C5 Inspiration	2	1	1	2	2	1	3	0	1	1	4
C6 Naturarv	3	2	1	3	3	3	3	1	2	1	3

Results

Estimated Benefits 2022–2040	Costs of New Measures 2022–2040	Net Benefits 2022–2040
0.73 (0.10–1.25) € bn	0.05 (0.02–0.09) € bn	0.67 (0.08–1.16) € bn

- Value for management?
- Required under MSFD and Swedish legislation (EST optional)
- Other values?

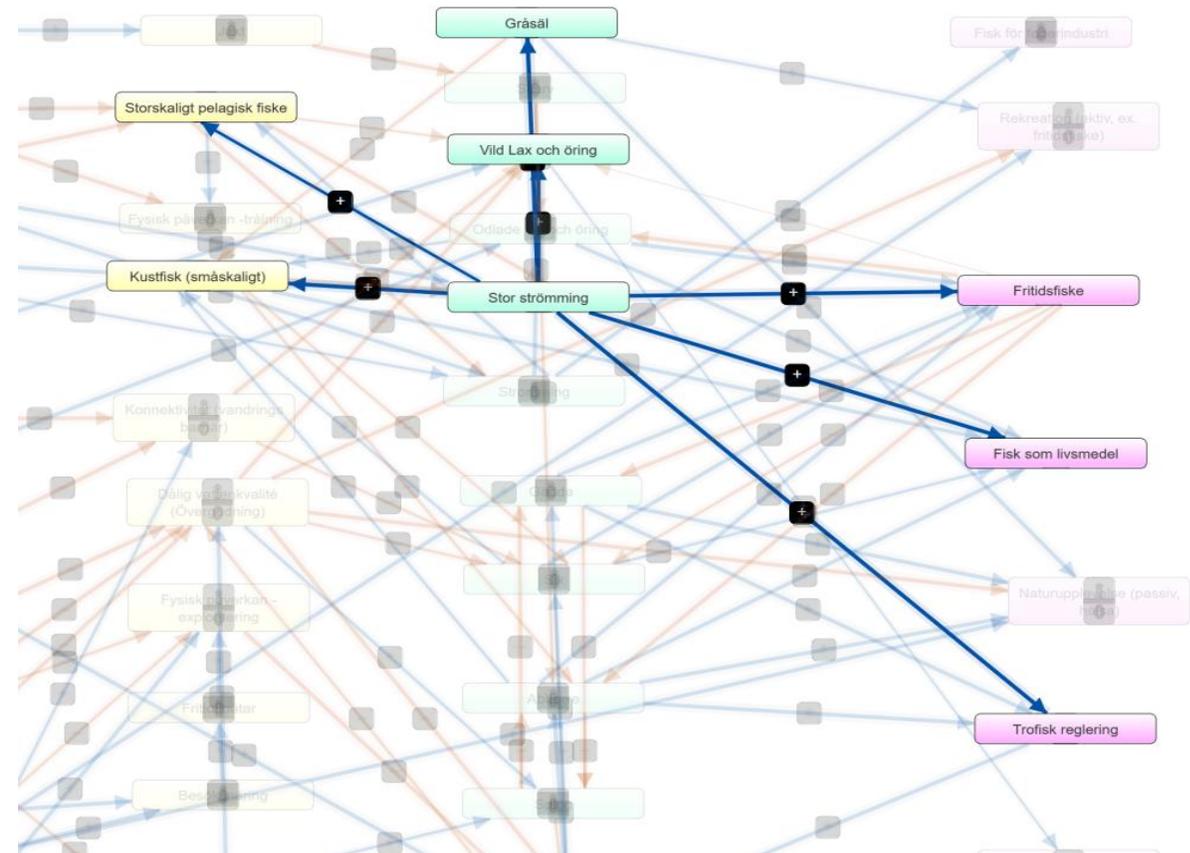


Worth it?

- Many ecosystem service (ES) analyses under the MSFD rarely influence actual decisions (🇸🇪).

However,

- ES analyses are essential for ecosystem-based management (EBM).
- Focus ES analyses on their intended use to **ensure relevance** (triage approach).
- Determine the **appropriate type** of ES analysis based on the **management need**.
- Examples from ES analyses in **EBM pilot areas in Sweden**.



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THANK YOU!