The Koster-Väderö Fiord

Experience of nature conservation in a marine Natura 2000 area





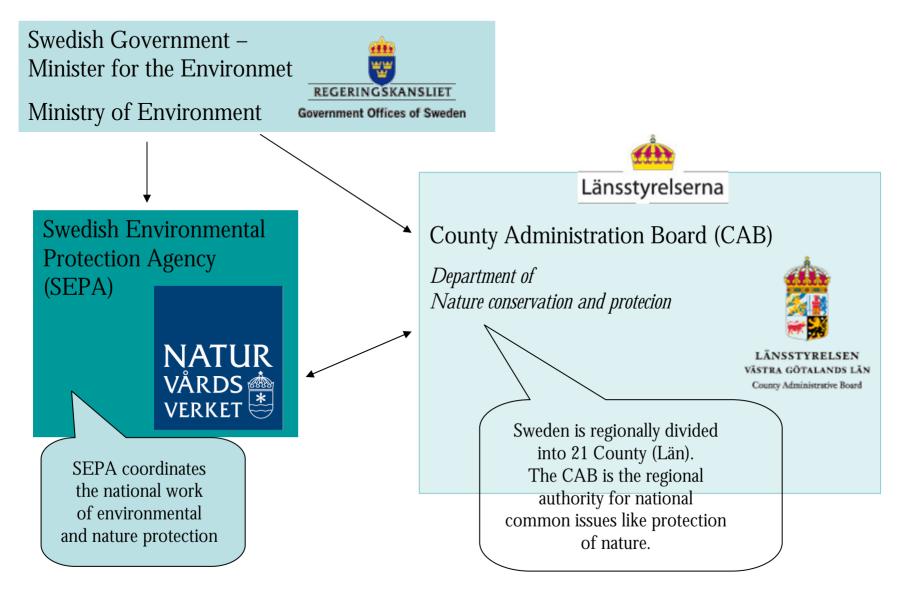
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LÄNSSTYRELSEN VÄSTRA GÖTALANDS LÄN Councy Administrative Board

This presentation Orientation **Biological values to protect Stakeholder involvment part 1:** Fishery in the area The Natura 2000 geografic story The National Park Story Stakeholder involvment part 2 -The Koster islander and all the others... What have we learned? – some advice for the future

Structure (Authority) for Nature conservation in Sweden



Nature's Year - the celebration of 100 Years of National Parks and Conservation!

The long tradition of working with Nature protection in Sweden have 100 years anniversary this year - 2009

The Swedish Society for Nature Conservation (SSNC) was established in 1909. SSNC very soon became, and still is, a very important force in natur protecting issues in Sweden.

(SEPA was established in 1967 after proposal from SSNC to the Swedish Goverment)

The first Swedish national Law of Nature Conservation came in force 1909... ...and Govermental decisions of Swedens first 9 National Parks (also the first National Parks in Europe) was made.

naturensår.se

Nature events in Sweden during the Anniversary Year

•The first marine National Park in Sweden: Kosterhavet will be inaugurated th 9 th september (2009-09-09). This is Swedens 29th National Park.

•EUROPARC yearly conference is held in Strömstad 9-13 th September

Theme of Conference:

100 years of National Parks in Europe –

a Shared Inheritance; a Common Future



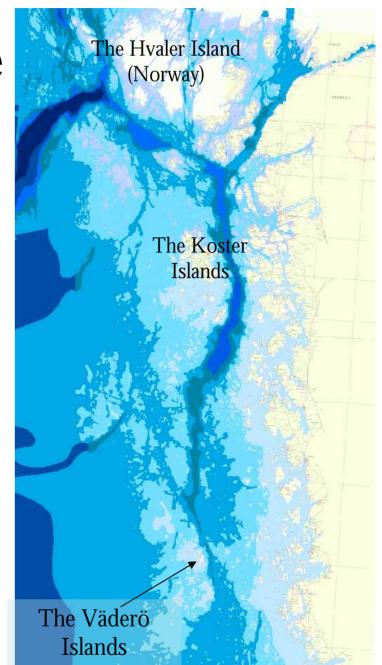
Skagemak – A comer of NorthEast Atlantic

The Koster–Väderöfiord - a taste of the Atlantic

SKAGERRAK

Values to protect – what's so special with the Koster-Väderö Fiord?

- The highest diversity of marine species in Sweden with approx 5000-6000 marine species
- More than 200 unique species of animal & 9 unique species of algae
- Unique biotopes rocky deep bottoms, Lohelia reefs, exposed shallow sediments, maerl, sea-pen soft bottom (i e untrawled deep soft bottom)
- Many different marine biotopes
- Large marine area: Inner sheltered bays to outer skerries



Lophelia reefs extinct and present distribution

In 1980 the Ytre Hvaler - Koster area had 2 known living sites of *Lophelia pertusa -reefs* Today: Aprox. 14 living and 14 dead





Stakeholder involvment part 1: Fishery in the area

Fisheries and Nature conservation work in Koster-Väderöfiord

- Focus on marine conservation from 1979.
 Several proposals on marin protected areas (nature reserves) from both aouthorities and nature protecting NGO's
- Strong conflicts (in the beginning). Demonstrations and arguments in media. Trawlers feared they would be excluded from their fishing areas.
- Participatory process started 1998 (initiated by the provincial government).
- An agreement was reached between fishermen, their organisiations, the fishery authority, the provincial gouvernment and the local communities in 2000.
- A Co-Management project was initiated and worked out from 2005-2008.
- Fishermen involved, positive but questioning in the process with the National park

Some features of the local fishery

- Occupies around 50 fishermen in 30 boats (10 – 26 meter)
- Turnover estimates 80 milj SEK



- Long tradition of local
 managenment and informal rules
- Rules not only helps to manage the resource along the local fishermen it also excludes outsiders for example larger trawler
- The shellfish fishery is within biological limits sustainable regarding the resource

The participatory process...

- Stakeholder identification
- Overall principles where laid down between authorities.
 MPA instead of reserves sustainable fishery.
 Use of fishery legislation (not other laws i e nature protection laws)
- A steering group was set up
- Goals where set up and agreed upon.
- Methods and roles
- Inventory fase
- Dialog, negotiating and agreement fase
- Follow up fase including education and inititating a fishery
- Co-management initative



The first Kosterfiord inventory

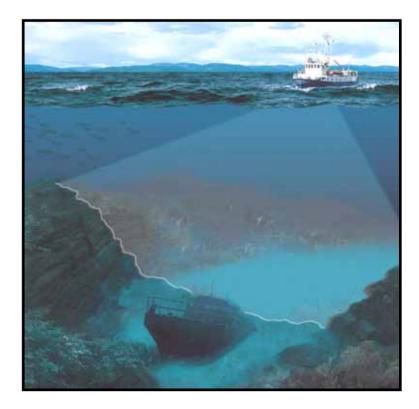
An inventory of the area was executed 1998-2000 to meet the fisheries demand of knowledge of their impact

Project included:

•Bathymetric mapping of the Kosterfiord

•Processing of logging from fishingvessels

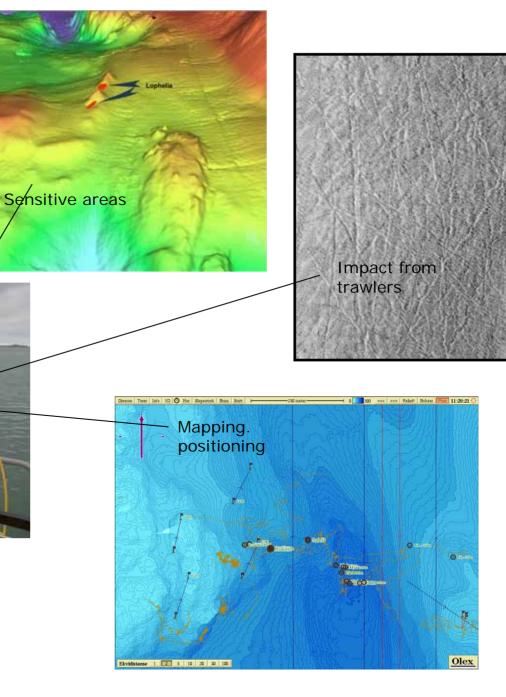
•Inventory of sensitive habitats with ROV technic

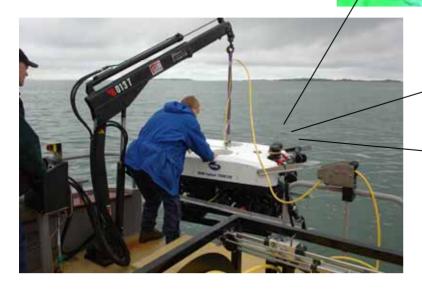


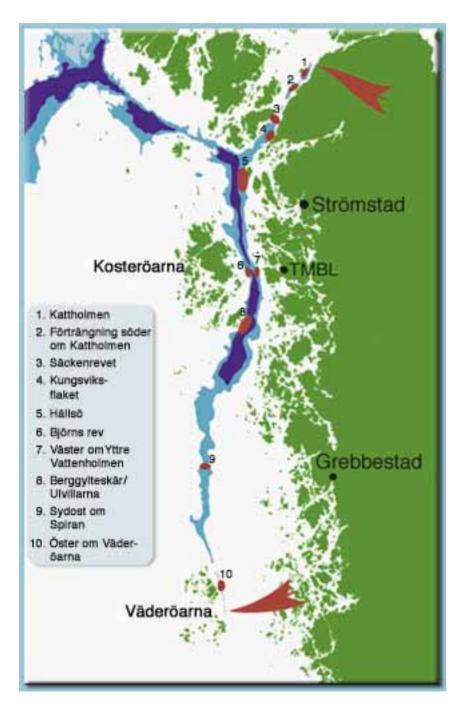
Bathymetri mapping:

- Multibeam scanning
- Sidescan sonar

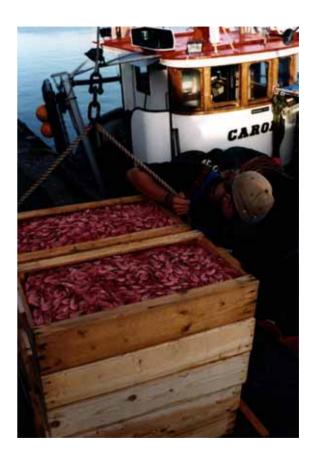
ROV-inventory of sensitve habitats







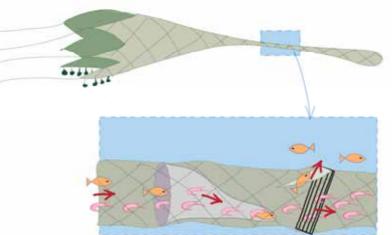
The Koster-Väderfjord agreement A major step toward mutual understanding of nature protection and fishery regulations



The agreement

- Size and weight of trawl doors reduced to 2.7 m² and 350 kg
- Selection panel to sort out bycatcth
- Trawling ban in sensitive areas
- Shallowest trawling depht allowed mowed from 50 to 60 meter
- Continued development of environment friendly fishing gear
- Education i marin ecology for all fishermen in the area





The Co-management Initiative

- Full integration of resource management, economic develpment and environment into a sustainable fishery within the 4 nm zone
 - Further development of selection (shrimp size)
 - Selfcontrol
 - Marketing, Branding
 - Labelling
 - Improved navigation of trawls in the area through better charts and plotters
- Creating a management plan

Result of fishermans work in the Co-Management initiative

•NJORD - a local brand

Eco-label on 2-3 shrimp-trawling boats

•Acadamy for shrimps in Strömstad (www.rakakademien.se)



Main fishery today

- Northen shrimp (*Pandalus borealis*)
- Norway lobster (Nephrops norvegicus)
- Lobster (Homarus gammarus)

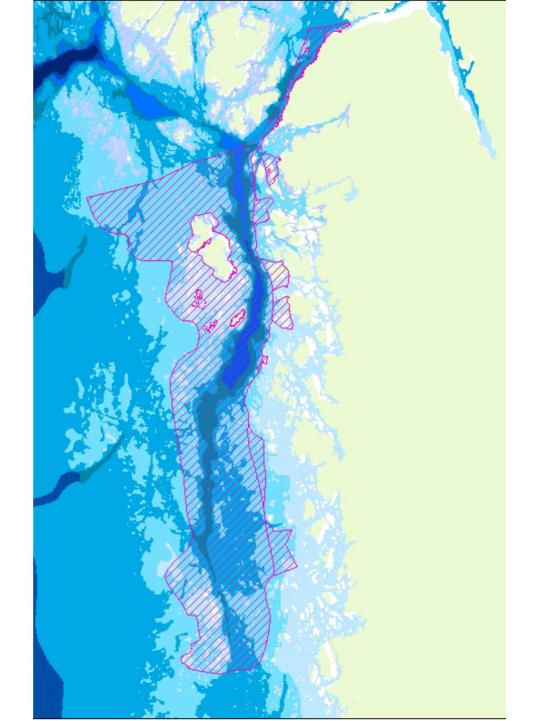






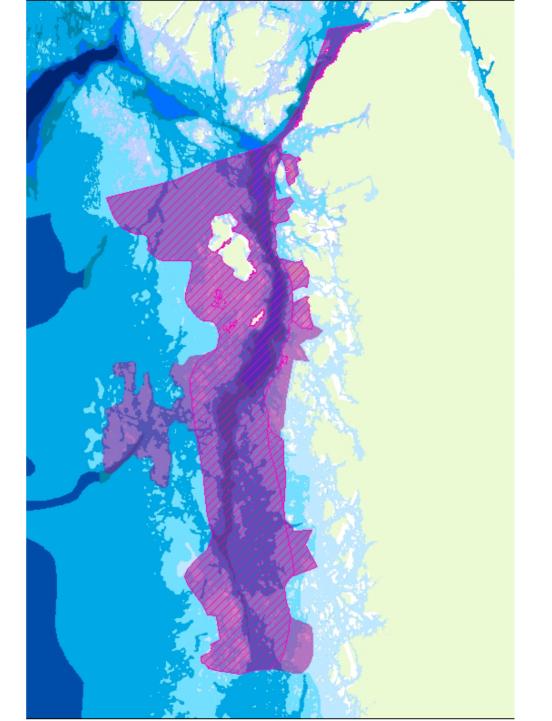
The Natura 2000 (geografic) story and more specific protection by national legislation in the end

The Kosterfjorden – Väderöfjorden Natura 2000 area in year 2000...



The Kosterfjorden – Väderöfjorden Natura 2000 area in year 2000...

...and extended in 2008

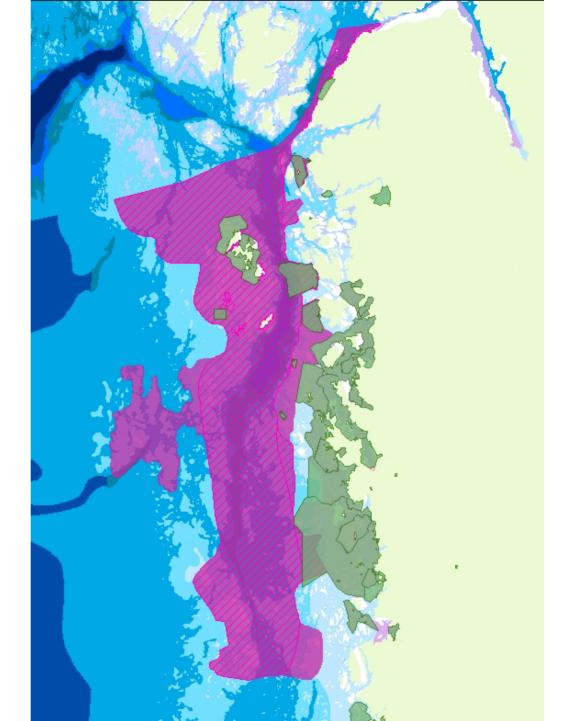


Adjacent (Coastal) Natura 2000areas to Kosterfjorden-Väderöfjorden



Protection by national legislation

(i e Natur reserves and similar)



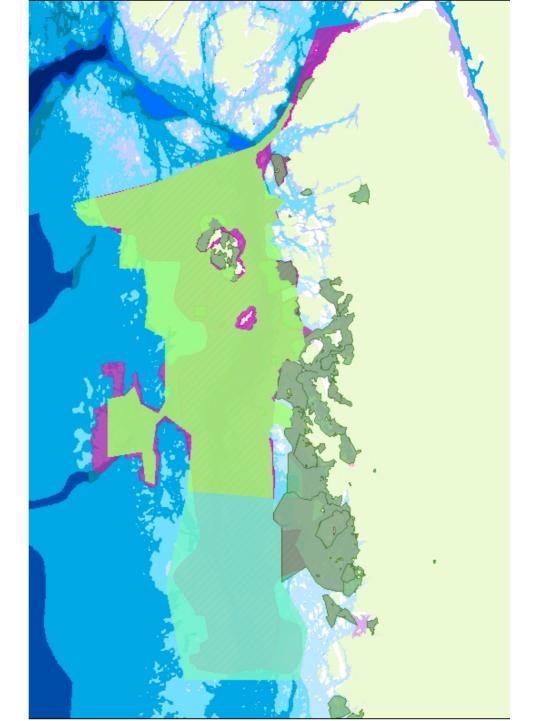
Protection by national legislation

The Kosterhavet National Park

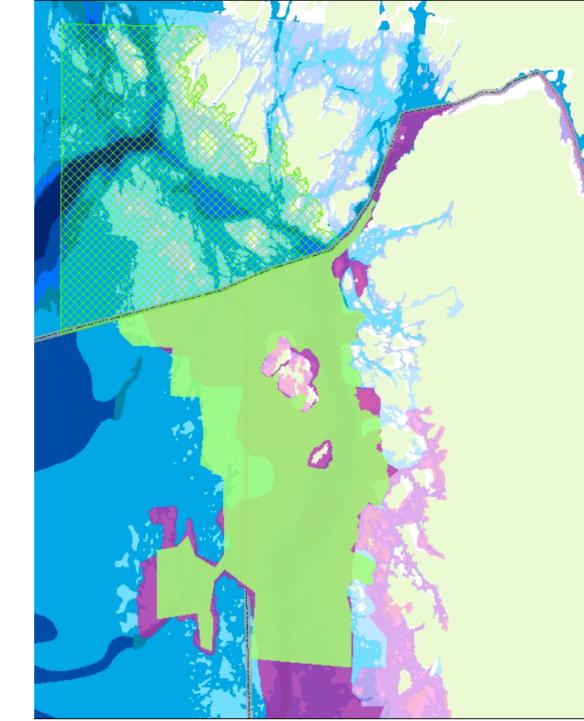
Inaugurated in 2009-09-09



Väderöarna (Marine)Nature Reserve (resolution planned to end of year 2010)



Kosterhavet transboundary national park with Ytre Hvaler in Norway

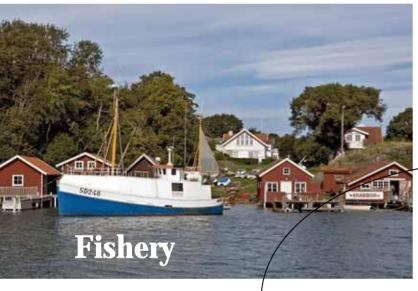








Marine protection and use of land and water



Nature conservation

Recreation

Farming



Local business

Ongoing activities in Koster

- Recreation / Tourism attractive destination
 kayaking, diving, trolling/fishing
- Leisure boats Sweden's largest destination, over 170 000 guestharbour-nights per summer
- Fishery
- Aquaculture oysters and blueshell
- Housings
- Shipping
- Living community in the middle of the park
- ...cattle farming and more....

History of the road to the Koster Sea National Park

- 1979 discussion of protection starts
- 1983 the Koster islands becomes Nature reserves
- 1979-1987 The area is pointed out for protection in several different documents
- 1987 The Swedish Nature protection society states that "Ranrike" (most of NE Skagerrak) should be a (transboundary) National park
- 1989 SEPA presents a plan for 20 future national parks in Sweden, Kosterarea is one of them
- 1997 analysis of biological values and report on criteria for selection of marine protected areas
- 2000 ROV survey of part of the area. The Kosterfiord-Väderöfiord is proposed as Natura 2000 and the agreement on fishery is made
- 2001 SEPA publish a report on protection strategy, The KV area is proposed as nature reserve or alternatively national park
- 2004 The Koster local forum gets positive to a NP
- 2005 A prestudie and later a plan for a NP is outlined by Count Adm Board and SEPA
- 2006-2009 Intensive preparation work for the NP - sebed mapping, biological inventory, local planning, workshops, managemenplan, decisions
- 2009-09-09 The Koster Sea National Park will be iaugurated



Key issues – at local level

- Protection and development
- Fishery
- Mangement x2 (Land and Sea)
- Infrastructure
- Living community's 365 days per year
- Local involvement in governance (delegation)

Some other step stones in the work

- The Local Board of Koster (Kosternämnden) presents a program for localdevelopment. Coservation of the nature (i e a National Park) plays a important role (2004).
 - The local population on Koster feels that they in the future will have harder and harder to handle a decreasing (and unregulated) flow of tourists to an arround the islands.
- Local Bord of Koster supports a delegation model with local invlovement in their governance

Local engagement



- Area planning
- Sustainable destination
- Support living all year around
- Working places





CREST



- Agree about the definitions
- Environmental/Social/Economy
- Implement a modell / the toolkit
- Naturens Bästa ("Natures Best"), Gröna Nyckeln (Greeen Key), Blue flag
- Give us a market 12 M
- Co-operation

EU Interreg IIIB North Sea Programme project

Tool's of success for a National Park...

- The agreement with fisheries in the Koster-Väderöfjord
- Areaplanning and guidelines for NP bottom-up approach
- Local participation in <u>all</u> issues
- More than 10 diff. workinggroups (external) and even more internal...
- Fruitful cooperation: research governance local people
- Interreg. project cooperation (Crest, Norway-Sweden)

What have we learned? – some advice for the future







Positive exampel - how to work

To work out major parts of the marine management plan we arranged a strategic planning workshop in cooperation with "Foundation of success" (FOS). The workshop followed "Open Standard for the Practice of Conservation" made by the Conservation Measures Partnership (CMP), where FOS is one member. During the workshop we worked with the FOS-made "Miradi Software" for Adaptive Management.

Participants came from: SEPA, CAB, Swedish.Board of Fisheries, Tjärnö MarineBiolLab (Gotheburg University).

Biggest benefit with Open Standards and Miradi.

To use same language and structure (tools) in conservation work (not "make up the wheel again"). Easier to translate internationally, easier to cover all values and all activities in your area and so on.

Webpages of FOS, CMP and Miradi

Foundation of Success: <u>www.fosonline.org</u> Standard protocol for protection and adaptive management: http://conservationmeasures.org/CMP/

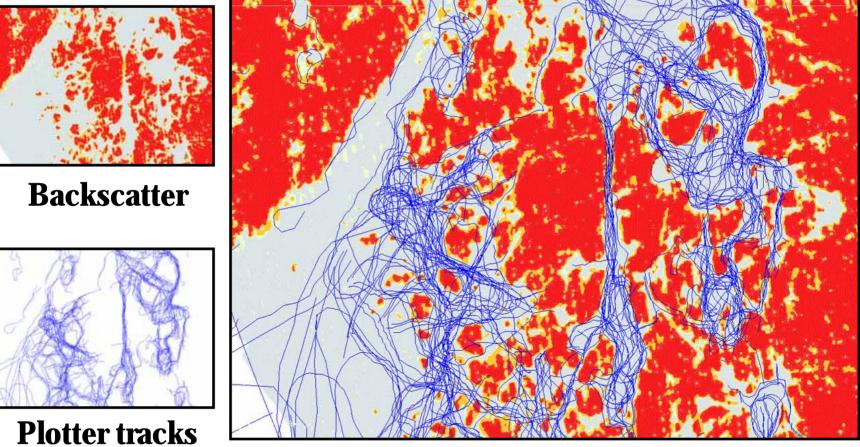
SP ASSISTER

Software for management planning) https://miradi.org/



E Miradi - Windows Internet Explorer provided by Lünsstynders · al bits (bent top) -Radows Vas Perostar Ventus Hills de dinas O MIRADI" Wood, Subsure Partners, Date Dankady, Deschied Mind, FADs, Contact Miradi has the notential to transform the practice of conservation. · Easy Step-bo-Step Interview Wigard · Threat Prioritization · Development of Objectives and Artiste Selection of Mondaring Indicators · Planning and Financial Views Working Together Welcome to Miradi The Miradi software program is a junt enture between the Conservation Hirad: - a Swahili word meaning "project" or "goal" - is a user-friendly program that allows nature conservation practitioners to design, manage, mondor, and learn from their projects to more effectively meet their Measures Partnership (CMP) and Renalast invervation goals. The program guides users through a series of step-bystate interview wiserste, based on the <u>open Standards for the Practice of</u> <u>Concernators</u>. As practitioners on through these steps, Miradi helps them to CMP define their project scope, and design conceptual models and spatial maps of their project site. The unfinary total teams to prioritize threats, develop The Construction Heasures Partnership is a consortum of conservation BGOs objectives and actions, and select monitoring indicators to assess the committed to improving the practice of effectiveness of their strategies. Hiradi also supports the development of workplate, buildets, and other tools to help practitioners implement and manage their project. Users can export Minalli project data to donor report Danataab or, in the follow, to a central database to share their information with othe

Example of using knowledge in communication



from the fishermen

Combining data sets

What have we learned with Kosterfjorden – Väderöfjorden ?

Good knowledge (data, research etc) is tools in better understanding

Cooperation between authorities, research and local people is fruitful

Co-management and adaptive management is the Model of work!?

It's good and wise to have both time – and timing...

Also some patience with slow organizations (authorities) don't hurt

Never underestimate the importance of using media

Natura 2000 seams not to be a hot issue in Sweden (...yet)

But...

There are a lot more work to be done in the Koster-Väderöarea !!!



Management, monitoring and evaluation in coordination with...

• Natura 2000

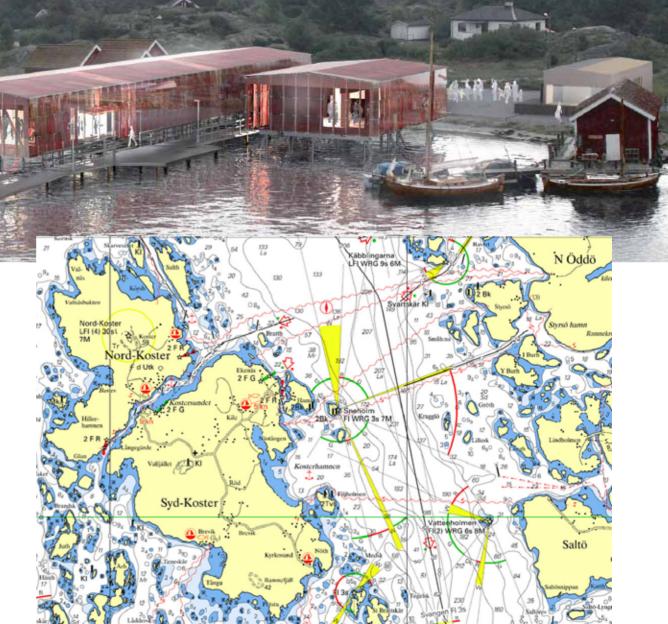
- contribution to future management of Natura 2000 habitat

- OSPAR strategy for protection of species and habitats
- Water framework directive
- Marine directive



Visitor Center Kosterhavet - naturum





Some more webpages to visit

- Projectweb KosterSea: <u>www.kosterhavet.se</u>
- About the County in english: www.lansstyrelsen.se/lst/en
- SEPA:
- www.swedishepa.se/en/In-English/Menu/
- EuroParc federation: www.europarc.org/home



LÄNSSTYRELSEN VÄSTRA GÖTALANDS LÄN County Administrative Board





Thank you ! and Good luck with your marine Natura 2000 sites!





ALL AND ALL AN

