BALANCE WP4:

Development of a Baltic Sea marine area management framework



- with key inputs from WP1, WP2 & WP3

BALANCE Kick-Off meeting, Copenhagen, 31 Aug-1 Sept 2005

Contents of the presentation:



- **1.** The structure of the group (partners)
- 2. Goal and objectives (overall aim & milestones)
- **3. Work programme: Framework for BS marine area management planning**
- 4. Zoning (background & examples)
- **5.** WP4 working process (framework, indicators &
- tools, stakeholder involvement)

Workpackage 4 structure: WP4 Leader: Jan Ekebom, Co-leaders: Ole Vestergaard, Jochen Lamp



WP4 Partners:

County Administration of Stockholm CABS (Sweden)Annelie Mattisson

Swedish Envirnomental Protection Agency SEPA (Sweden)Cecilia Lindblad

Danish Institute of Fisheries Research DIFRES (Denmark)Ole Vestergaard, Thomas Sörensen

Estonian Marine Institute EMI (Estonia):Georg Martin, Jonne Kotta

Metsähallitus Natural Heritage Services MH (Finland) Jan Ekebom, Minna Boström, Michael Haldin & N.N.

World Wide Fund for Nature WWF (Germany)**j**ochen Lamp, Christiane Feucht WP4: Goal and objectives:

GOAL: Development of guidelines for Baltic Sea marine management framework

Objectives:

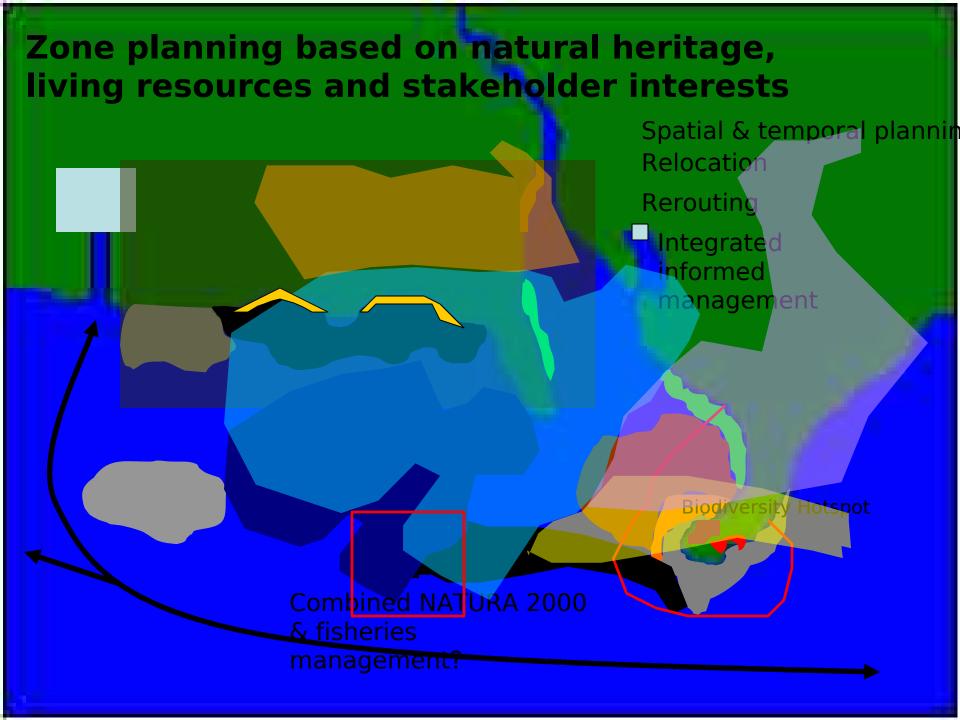


<u>Activity 2</u> (detailed part of Act.1): To produce GIS based methods (protocols, mostly GIS based) for management of marine areas with emphasis on the development of indices that quantify management efficiency

<u>Activity 3</u> (detailed part of Act. 1): To present a template and methods for stakeholder involvement



What is marine area management planning?

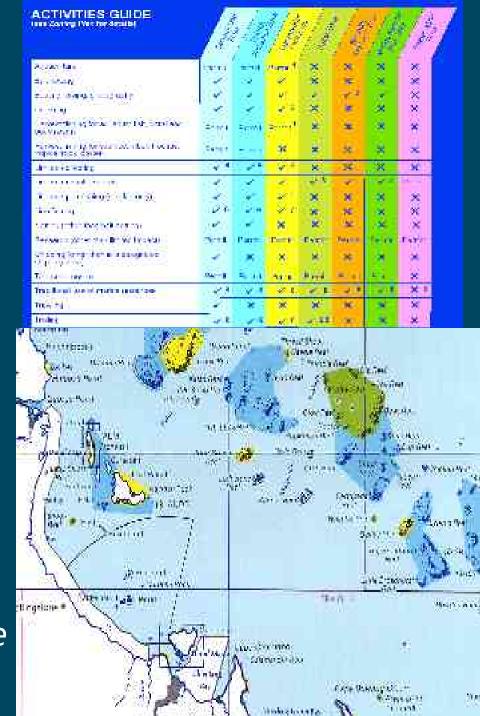


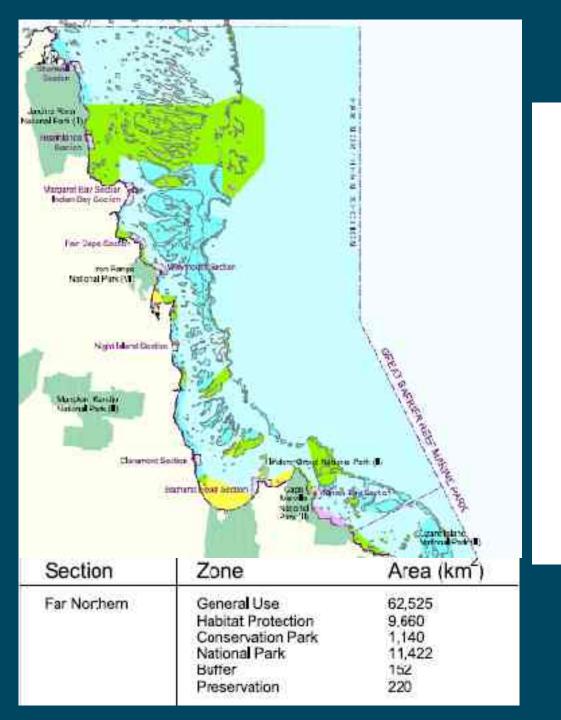
A key management tool is zoning Zones separate conflicting uses and range from e.g.:

- General (= sustainable)
 use
- National Park ('no-take')
- Preservation ('no-go')

Each zone type has a specific written objective

Modified from Jon Day, GBRMPA







Source: GBRMPA

ACTIVITIES GUIDE (see Zoning Plan for details)	Conservation of the	Francisco de		Bune 20	en.
Aqusculture	Parmit	Permit	Permit 1	×	
Bait netting	×.	~	×	×	
Beating, diving, photography	~	~	*	4	
Crabbing	1	~	🗸 3	×	
Harvest fishing for aquarium fish, coral and beachworm	Permit	Permit	Permit ¹	×	
Harvest fishing for sea oucumber, trochus, tropical rock lobster	Permit	Permit	×	×	
Limited collecting	× 4	× 4	× 4	×	
Limited impact research	×.	1	× .	¥ 5	
Limited spearfishing (snorkel only)	~	1	v 1	×	
Line fishing	√ 6	✓ 6	V 7	×	
Netting (other than beit netting)	×	× .	×	×	

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and the state of the second state Research (other than limited impact)

Shipping (other than in a designated shipping area)

Teurism program

Traditional use of marine resources

Trawling

Trolling.

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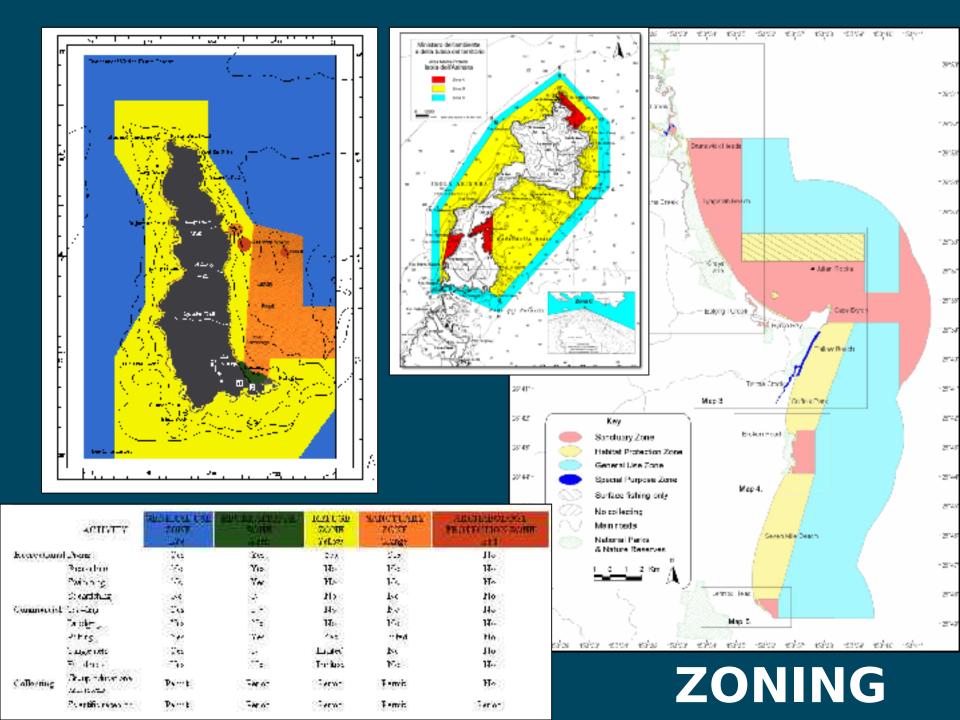
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Some examples:

<u>Minimum</u> of 20% per bioregion/habitat type in notake areas

More than one example of 'no-take' per bioregion to maximise protection if adversely affected Represent diversity of plants and animals across: northern to southern reef inshore to offshore Also protect biophysically special or unique places Depending on the MPA Goal:

Multiple use MPAs over broad areas can provide for high levels of protection in specific areas while allowing a range of reasonable uses to occur in other zones within MPA.

A spectrum of zones may be required if MPA is very large or a complex area.

BALANCE WP4 working process

WP4 understanding of BALANCE working process

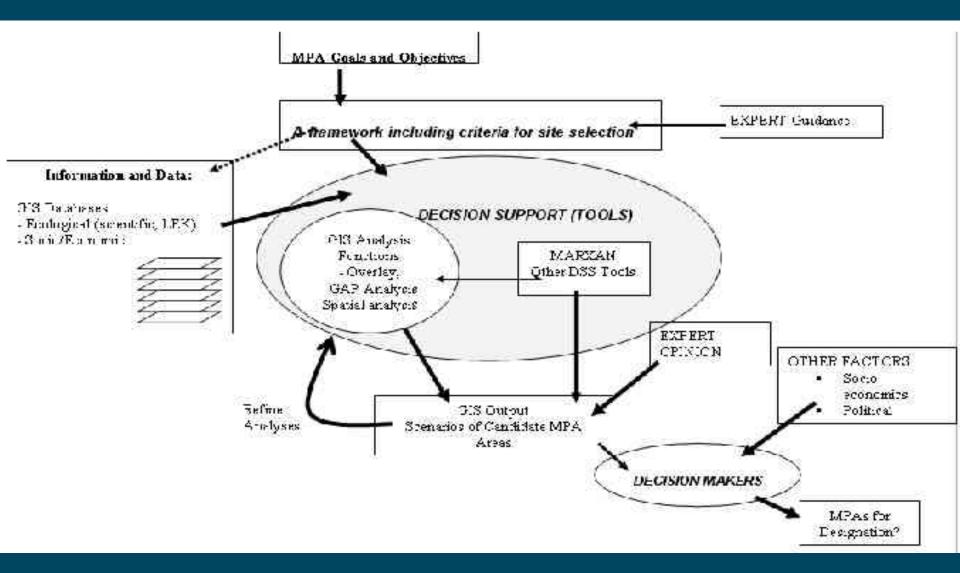
Data requirements

Representativity analysis

Mapping requirements

Guidelines for marine management planning

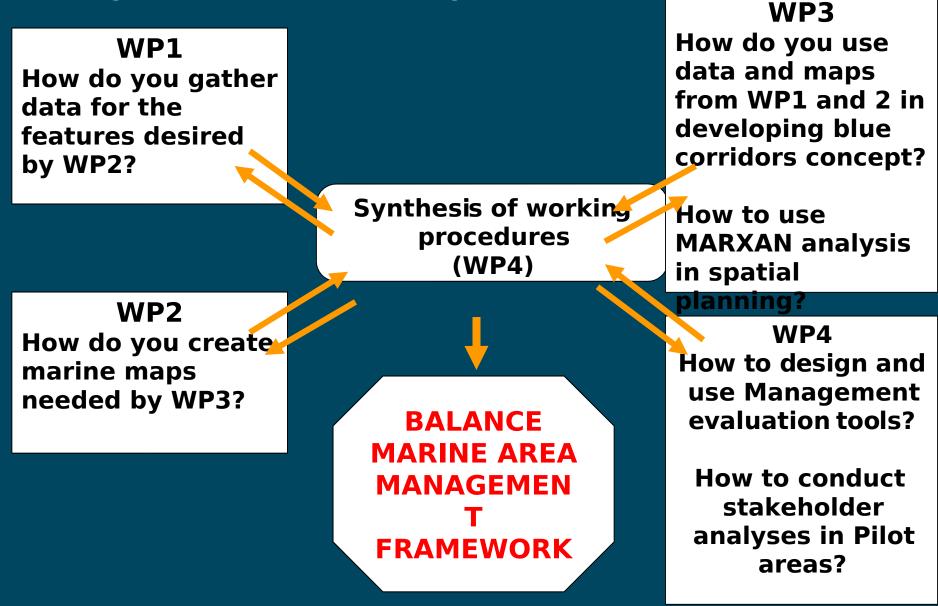
BALANCE Marine Management framework



Source: Hussein Alidina (*n press*)

BALANCE WP4 requirements from WP1, WP2, WP3 and WP4

Management framework synthesis (WP4)



Introduction Overaching aims of management frameworkNP4, All Relevant authorities responsible for the marine area WP4 Existing legal frameworks in pilot areasNP4

Rationale for designation and description of marine area feature(s)

Marine area descriptionWP1, WP2

Physical features, WP1, WP2
 Hydrographic features, WP1, WP2
 Geological features, WP1, WP2
 Biological features WP1, WP2

Development of action plan for marine area management

List of potential management measures
 WP4

Detailed monitoring programme for the marine area and reporting structure WP4.

Development of success criteria to be monitored WP4

<u>Marine area management objectives</u> List of area specific management objectives for the features of the marine area (e.g. Marxan input)WP3-4, all Outline monitoring requirementsWP4

Existing uses which may cause deterioration, depletion or disturbance to features

Ranked list of activities in pilot areas causing deterioration, depletion or disturbance
1. within marine area boundaryWP3-4, all
2. from outside marine area boundaryWP3-4, all

Matrix of stakeholder interests and perceptionsWP4

Status of marine area management

Assessment of existing human activities (resource use, recreation, fisheries)WP 3-4, all Identification of gaps in managementWP 3-4

Zoning

Production of marine area maps illustrating zoning scheme WP3-4

Description of pilot zoning schemeWP4

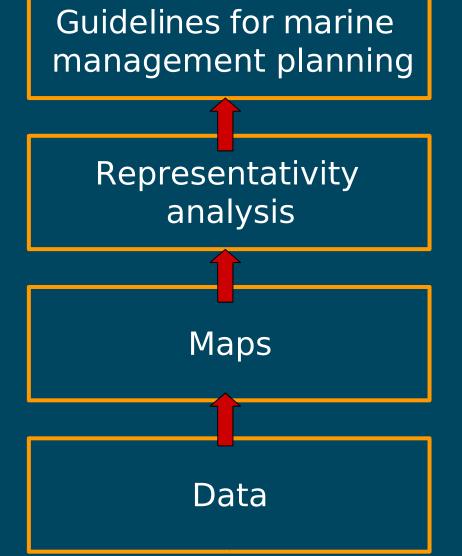
Detailed rationale behind zoning scheme (based on Marxan analyses and stakeholders)WP3-4

<u>Evaluation of management effectiveness</u> Evaluation of management effectiveness (based on success-criteria) WP4

Conceptual framework for Baltic Sea marine area management planning



Requirements for development of framework for BS marine area management planning



WP4 Indicators of management effectiveness

Framework for BS marine area management planning

Development of GIS tools (protocols, examples, indicators for marine area management

GIS tools for management planning

GIS tools for marine area management efficiency evaluation

GIS tools for stakeholder involvement

Framework for BS marine area management planning

Tools for management planning (done together with other WPs):

For describing the features of the marine area

For identifying potential threats and pressures in the marine area

For how to link non-georeferences datasources* into GIS

* Municipalities and authorities have statistical or descriptive data that can be used for quantifying patterns (degree of urban sprawl, governance of areas, economic status of areas and how these develop) Tools for management efficiency evaluation First step: Definition of success criteria

Quantitative indicators for evaluation of how marine nature conservation goals have been achieved

– Use of focal species (position, cover, depth range)

Quantitative indicators for evaluation of how the socio-economic goals have been achieved and if there is indcation of negative impact of potential threats

- Gain to local communities from a managed marine area with a zoning plan
- Impact of urban sprawl and development(buildings, construction activities)
- Impact of ship & boat traffic

Quantitative indicators for evaluation of how the governance of marine area management is carried out

- Number of registred court cases in an area
- Degree of public participation

Data needs from other WPs

GIS data is needed primaliry from BALANCE areas 2 and 3 since the draft zoning plan will be made for these areas or parts thereof

<u>Abiotic data:</u> bathymetry, shoreline, geology <u>Biological data:</u> habitats, species data, MARXAN

Socio economic data:

georeferenced data on constructions (buildings, harbours/marinas, piers...) ship-lanes, boat routes, roads/ferry routes georeferenced data on demography (human population) georeference data on local economy (companies, location...)

<u>Governance data:</u> Number of registred court cases in an area Degree of public participation

WP4 Stakeholder involvement and collection of socioeconomic information

Stakeholder Involvement

- Agree on common "rules of the game", principles for the whole process of planning, decision making and monitoring
- Create ownership for the process and the results
- Stakeholders participation fosters information/understanding
- Builds trust and reliability on all sides
- Communication is crucial (how, when, media of comms)
- Target groups are different and should be approached differently (local to regional, professions, different scale of involvement)

Approaches and activities

- Explore existing best practice in communication of values and creating awareness/commitment (best practice models and draft communication strategy)
- Define stakeholder groups and communication tools adapted to the pilot areas and for the Baltic Region
- Develop GIS-based information material for public information, adapted to the target groups
- Find ways to integrate stakeholder knowledge into the evaluation and planning process (indicators, use patterns)
- Integration of public/stakeholders in management processes can be formalized by standardized submission/feedback software and templates
- Different tools (questionnaire, interviews, media, keyspokespersons involvement) should be checked and adapted to different types of areas and conflicts/demands (coastal/offshore, touristic, multi-use areas)

Results and benefits

- Increased transparency in the management process
- Adaptive maps as discussion and decision-making tool
- Stakeholder communication fora with contact points at local and regional level
- Capacity building for stakeholder involvement and management processes
- Commonly agreed recommendations for stakeholder participation
- Creating communication standards

thank you