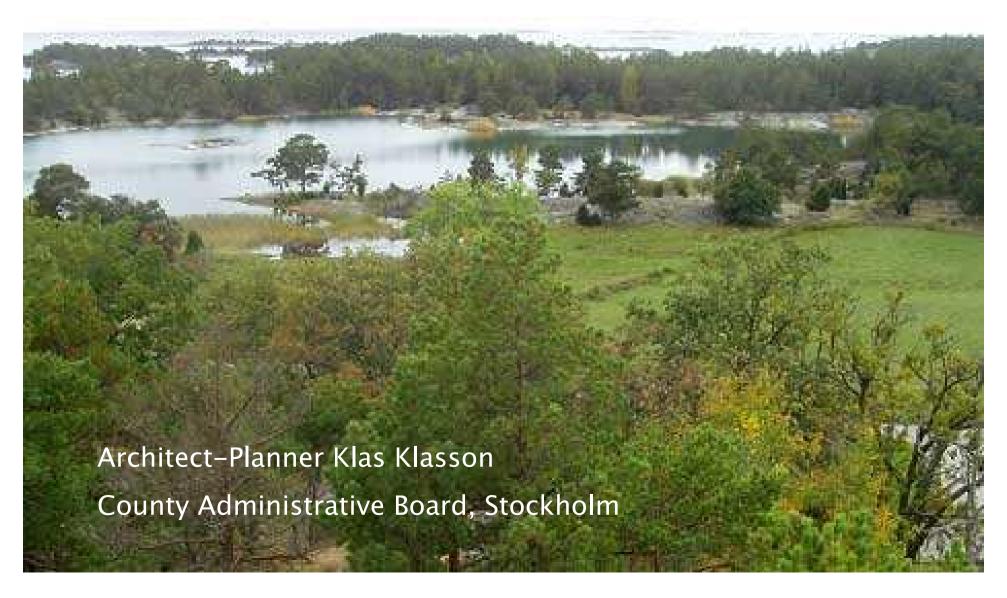
## Physical Planning and ICZM

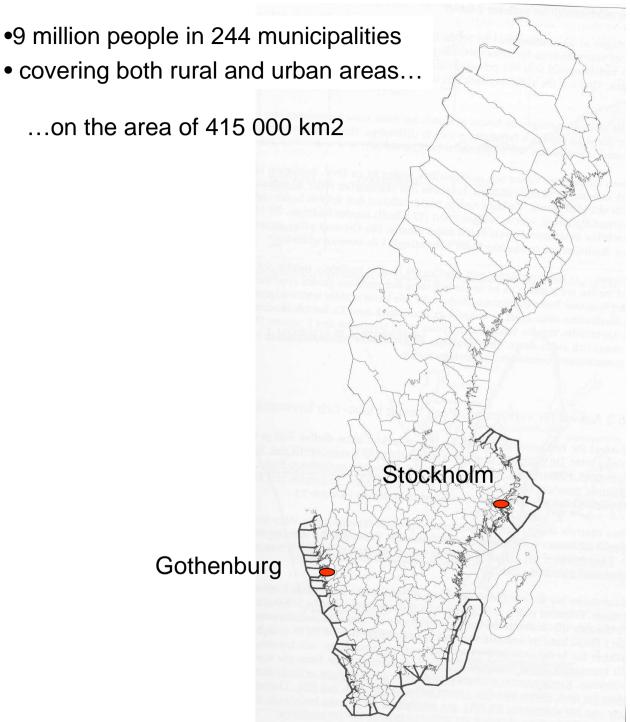
Gdansk 2008-06-02

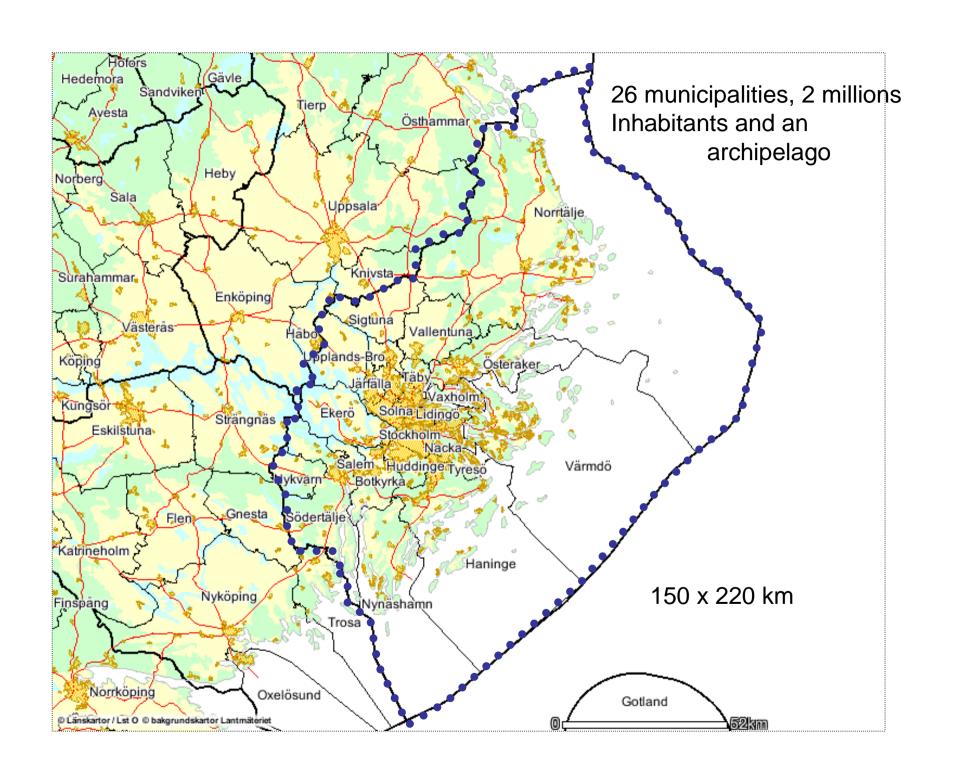


### The County Administrative Board

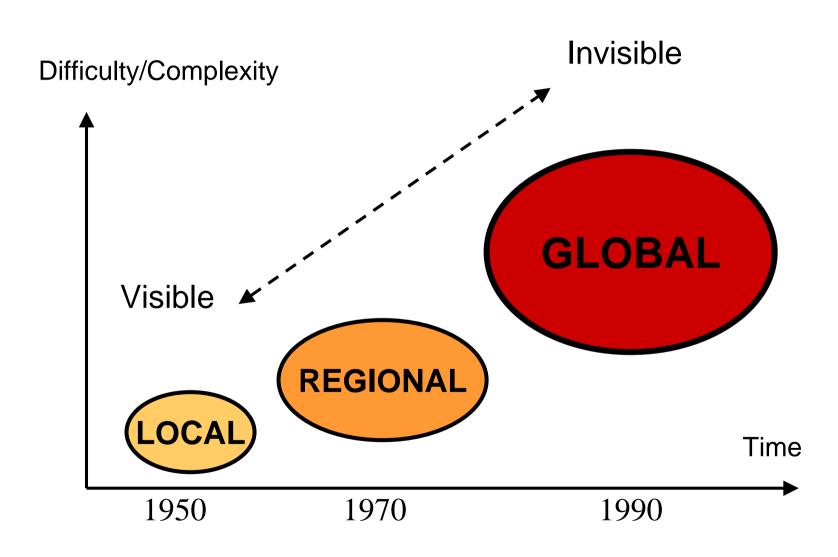
- Providing data for local and regional planning
- Advising 26 Municipalities and National bodies
- Coordination of different national interests
- Working for national interests and resources
- Protecting national interests and assets







## The problems of pollution and destruction of natural resources



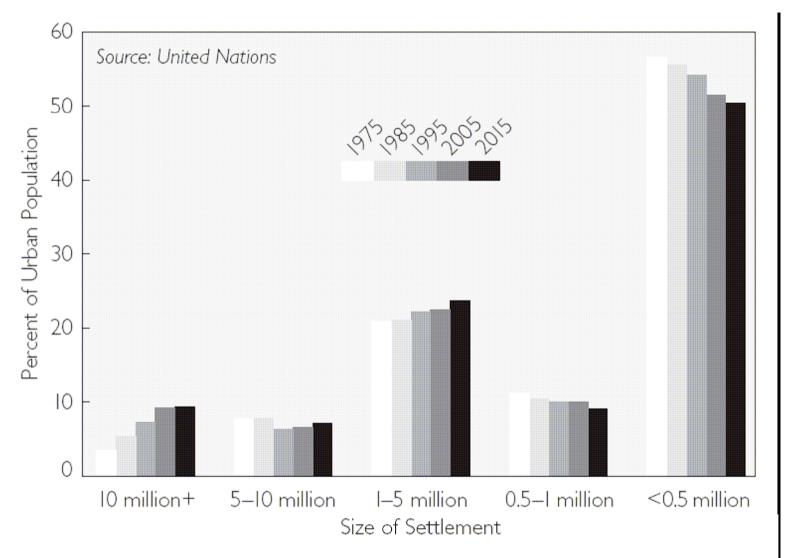


Figure I-2. Urban Population by Size Class of Settlement

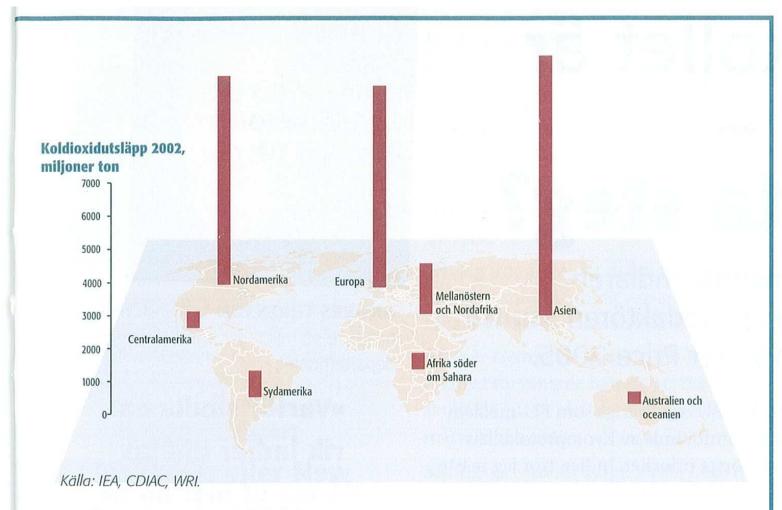




### Why not EIA:s on life styles??



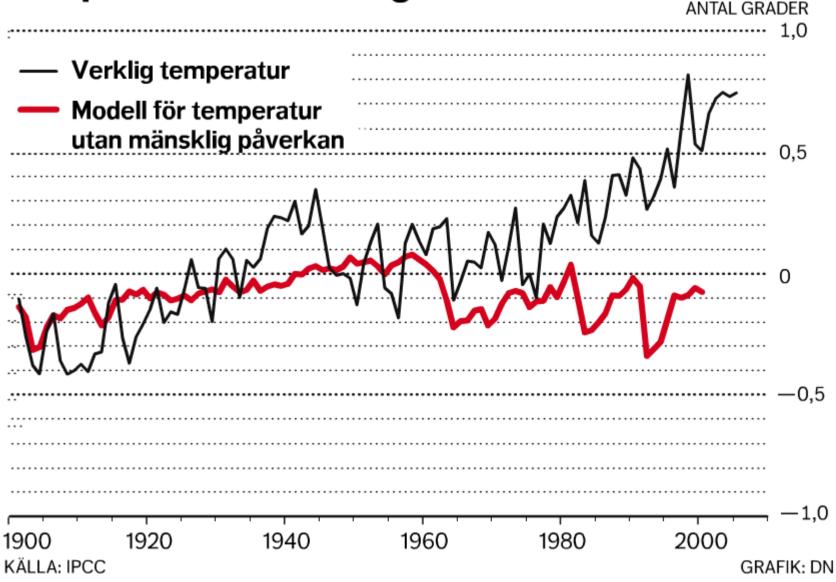
Illustration: S. Willis/San José. Courtesy to Mercury News.

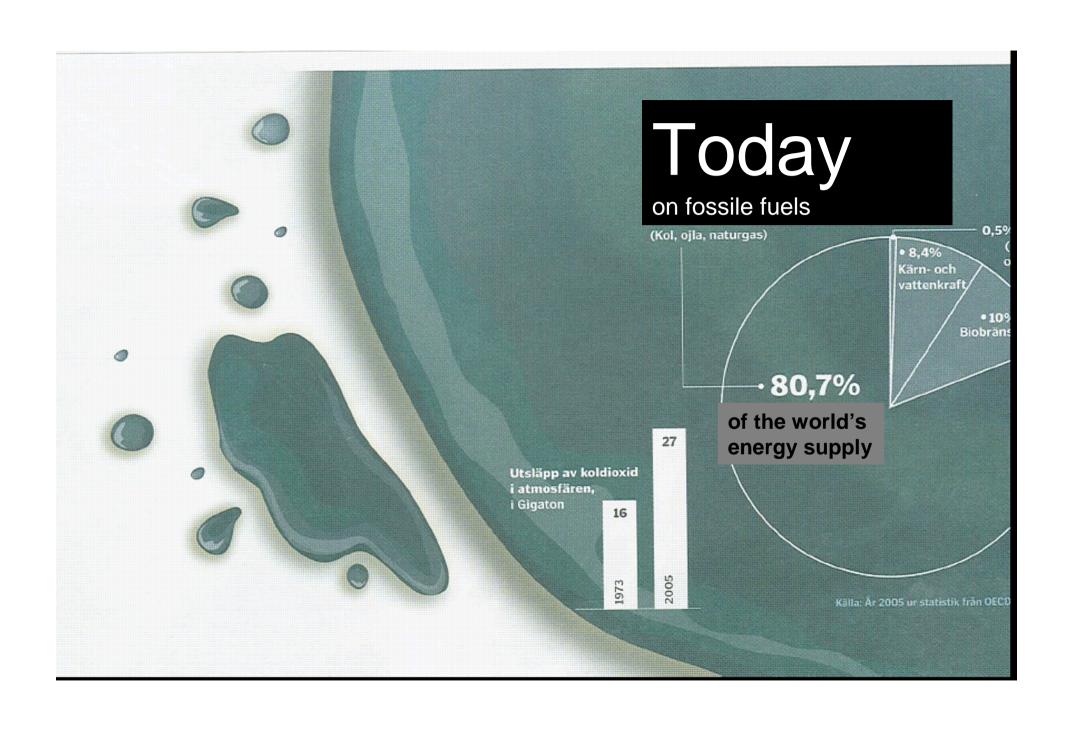


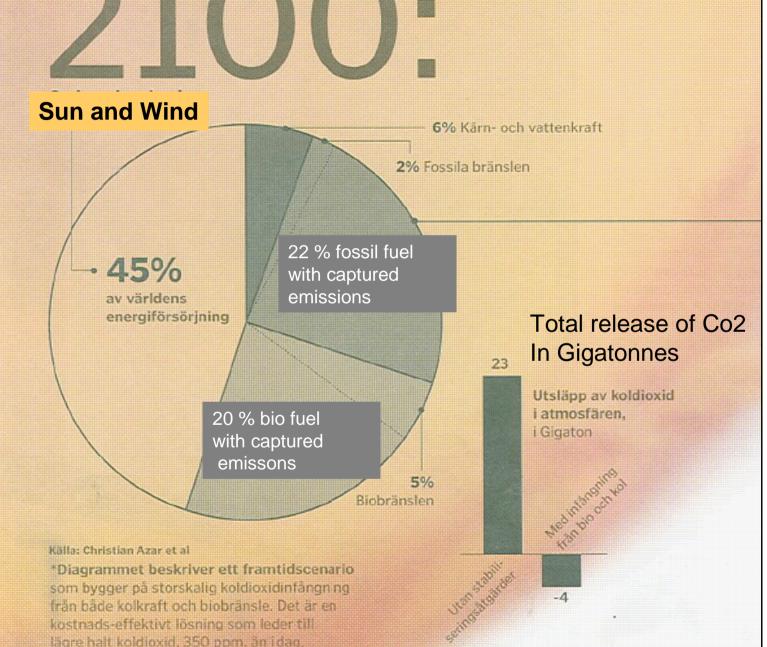
### Totala utsläpp per världsdel

Trots att per capita-utsläppen är låga i de folkrika länderna i Asien är de totala utsläppen stora. Beroende på om man räknar framtida minskningsåtaganden per land eller per capita blir det stora skillnader i vem som får bära bördan. De befolkningsmässiga giganterna Indien och Kina vägrar att förhandla om egna sänkningar innan USA och EU börjat minska sina utsläpp.

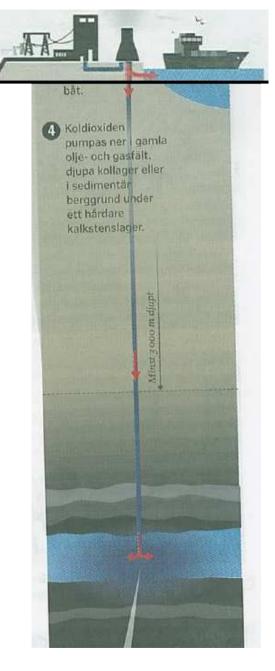
### Temperaturutveckling 1900—2005

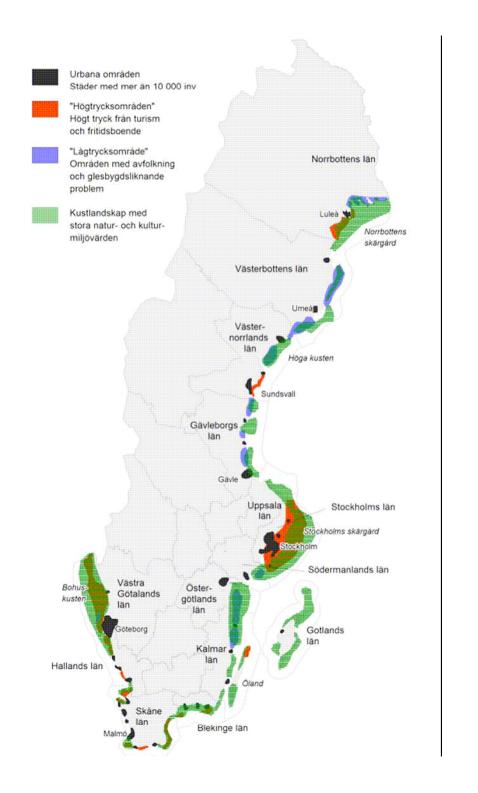


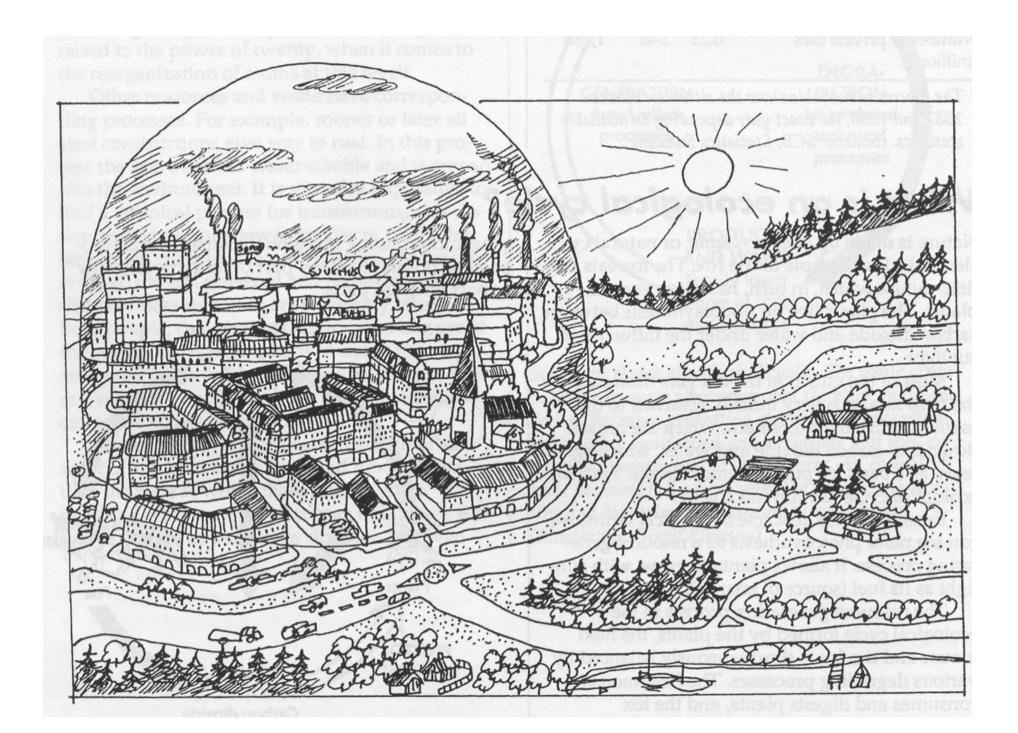




Capturing of CO<sub>2</sub> from both fossil and bio fuel emissions, compressed to liquid and pumped down to fill old oil or gas layers

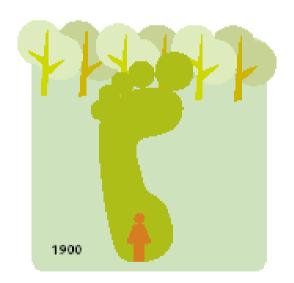


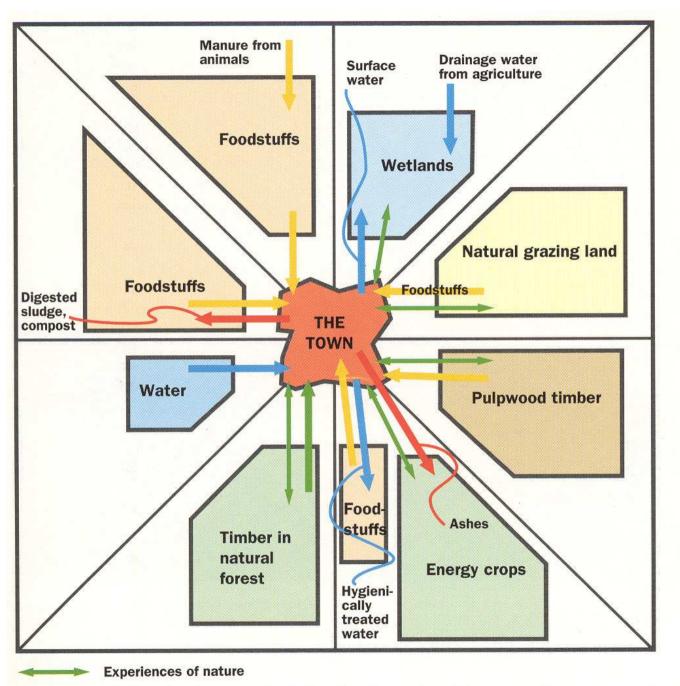




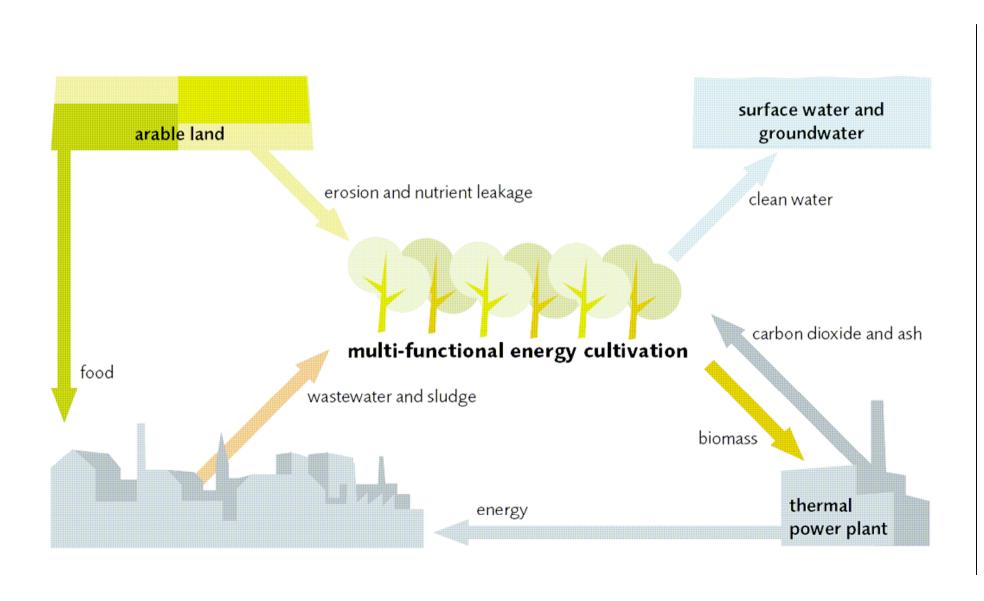
### The ecological footprint

basis of the global population. So, to sum up: the wealthy proportion of the world's inhabitants consume about three times the land area per capita than is available for the total global population calculated per capita Source: Wackernagel & Rees (1996)1950 1995

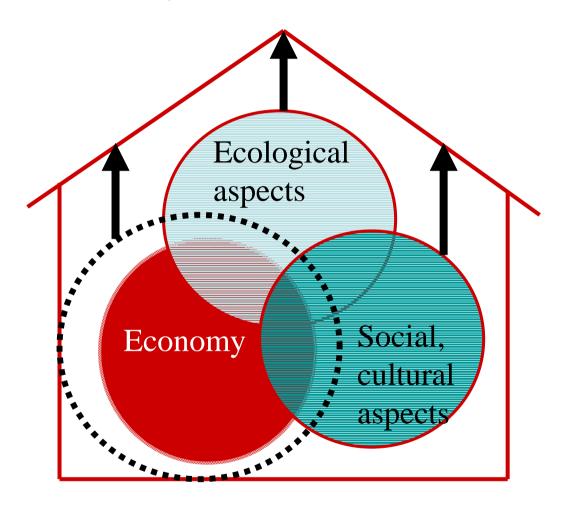




The new arenas for adapting to ecological cycles. Examples of the types of areas surrounding an urban area that will be needed in a future society in tune with ecological principles.



### The three pillars of sustainability

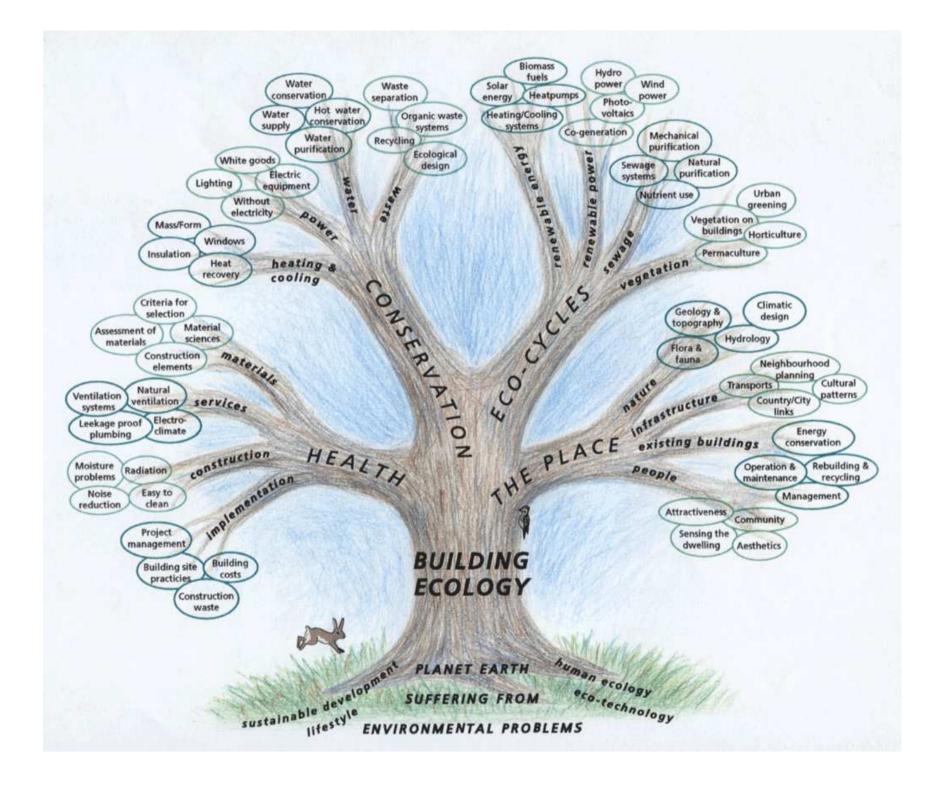


# Planning for sustainable futures requires a holistic approach

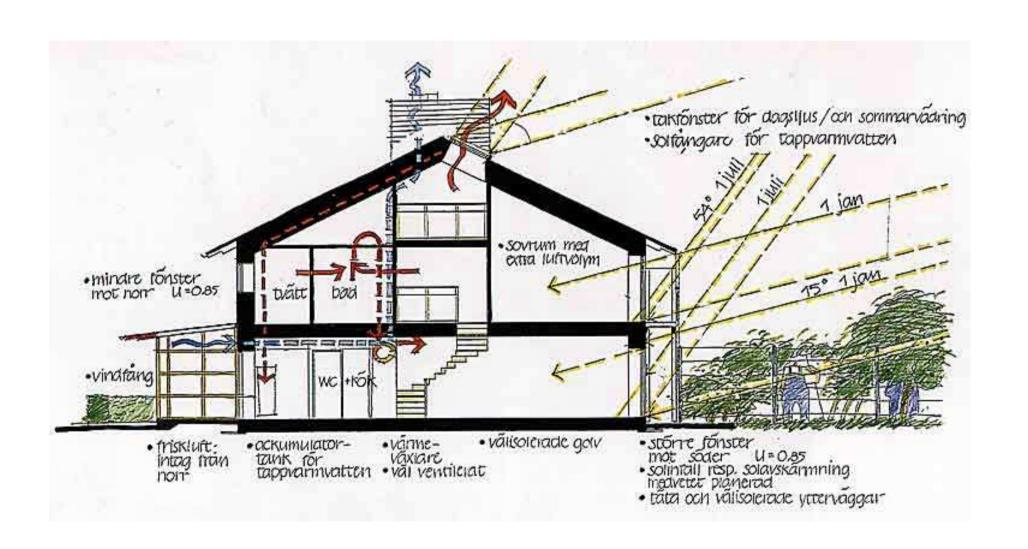


### Plan for Sustainability

- Participatory approach
- Enhance local ownership through local affiliation and involvement
- Involve stakeholders through cooperation, financing alternatives
- Involve Sustainability goals and vision through Ag 21 and environmental action



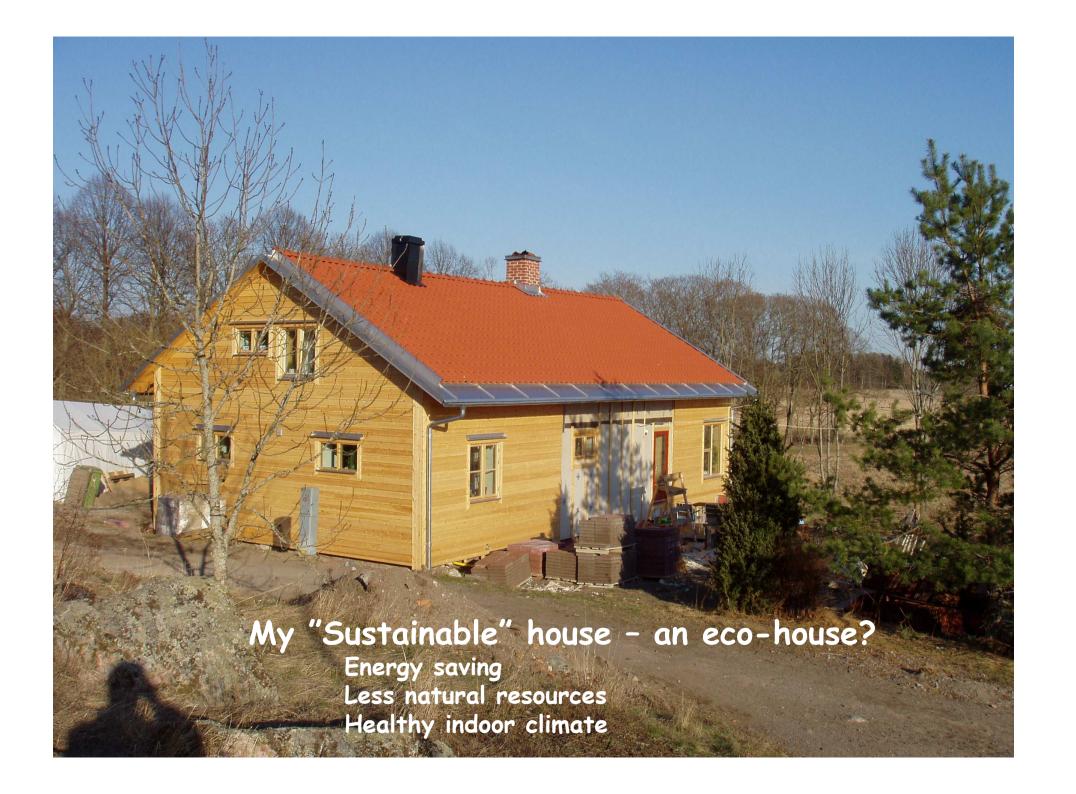




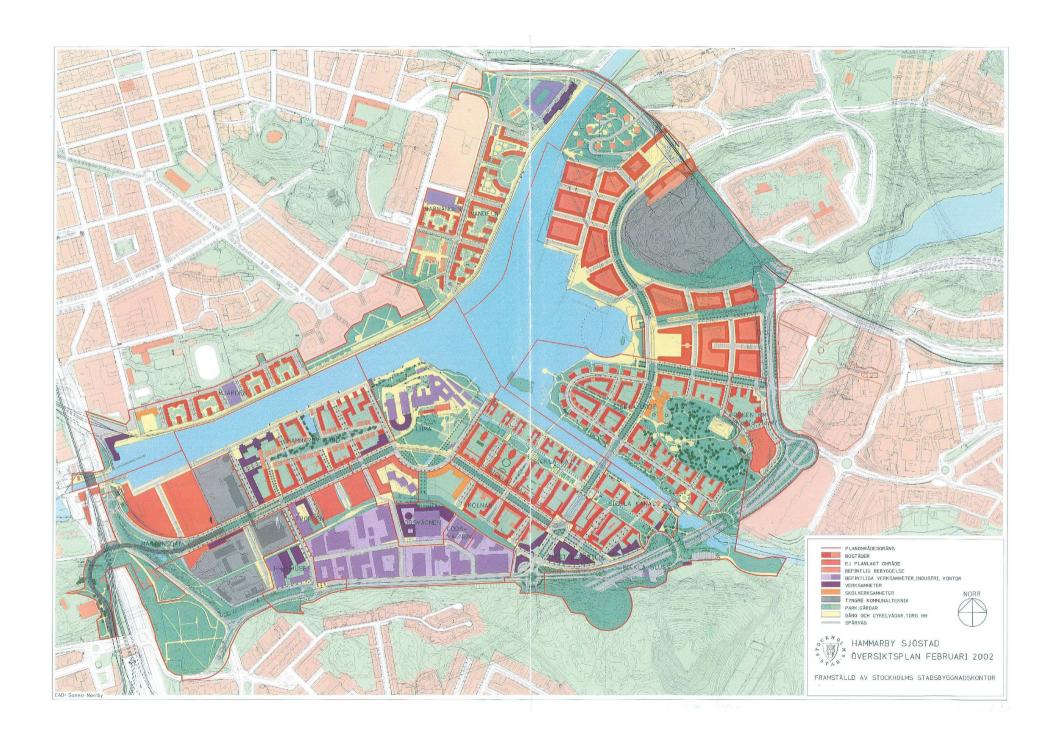
### The power consumption per year:

Heating	125 kWh
Domestic Electricity	.2 770 kWh
Hot water	1 500 kWh (50 % of 3 000 kWh, the rest from solar panel)
Fan/ventilation	175 kWh
Solar Pump	40 kWh
TOTAL	4 610 kWh = av. 50kwh/sqm

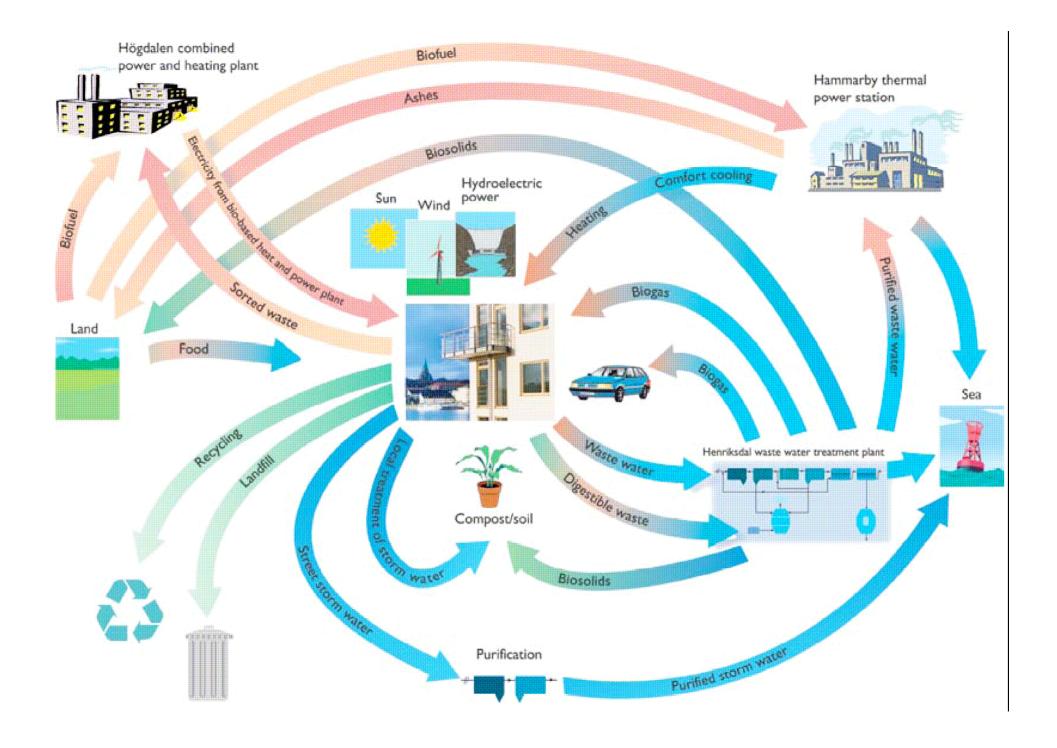
A swedish standard villa of 120 sqm = 20 000 kwh or 170 kwh/sqm/year











## Why Planning?

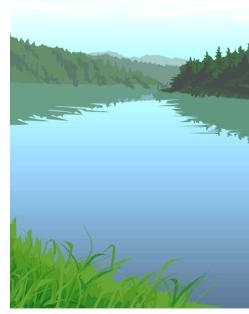
 Planning is a way to manage and optimize resources for development

 Planning is a means to organise and manage the future

Use planning to master the future rather than being the victim of it!

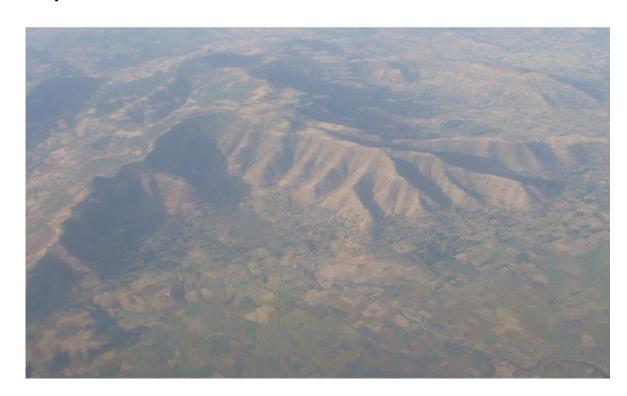
### The Concept of Planning

- To organise and manage the *future* through.....
- Mapping the Present and Plan the future



## The Use of Physical Planning

- A way to.....
  - optimize the use of land
  - optimize the use of resources
  - balance resources for development
  - plan for new settlements



### The Swedish way

- The Building and Planning Act (1987):
  - The Local Municipality is responsible for all physical planning
  - The Local Municipality must have an updated Comprehensive Physical Plan covering all their territory

Detailed Local Plan + Building Permission

# The Swedish Municipal comprehensive plan

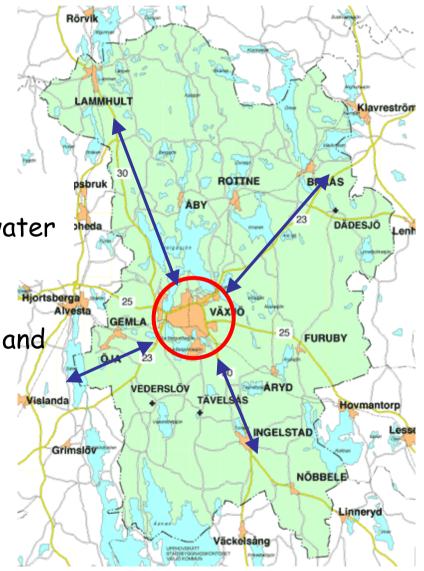
A long term strategic plan for 10-15 years

A land use mapping and visions for the future utilisation of land, water and settlements......

Covering the town, its hinterland and the linking framework.....

Sector integration and Multidisciplinary approach

(an inland municipality)



#### Latest SEA regulation:

Screen and check if the plan is expected to have a **significant impact** on environment

and if not...

Justify it and integrate environmental aspects

#### Standard Planning Process

1. Agree on a Vision, clarify the goals

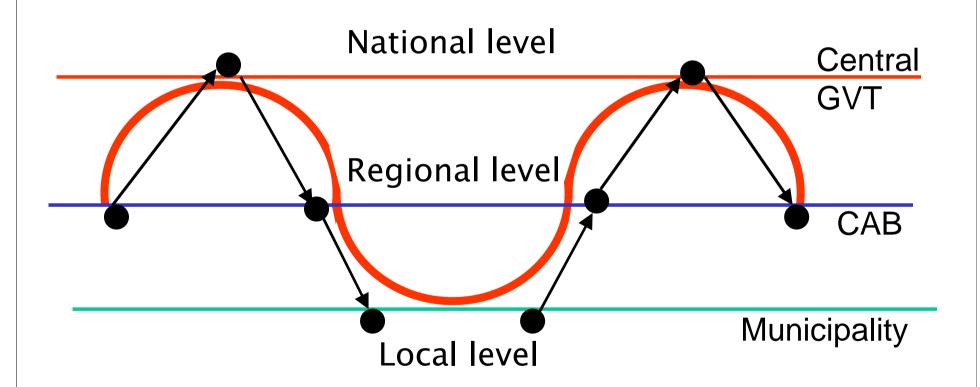
2. Consultation on proposals

3. Display and get final approval

4. Legal adoption

#### The national planning snake

- discussions between different levels



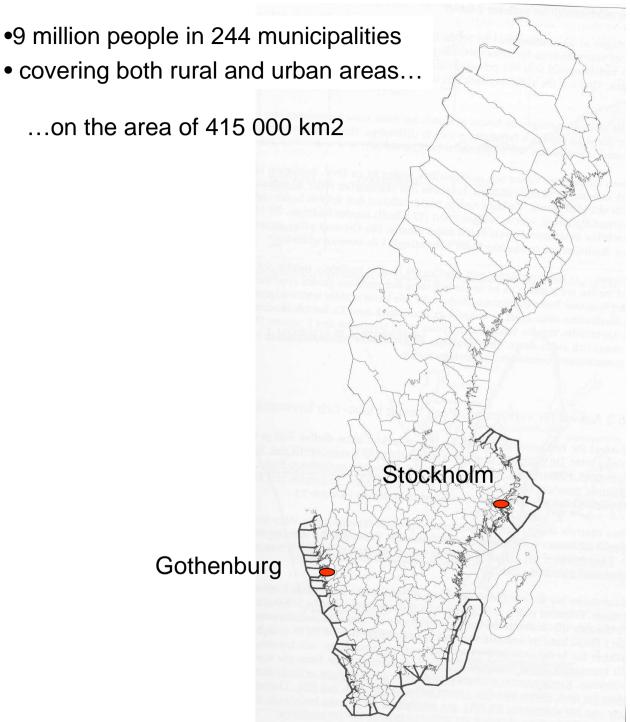
#### Planning for management of natural resources





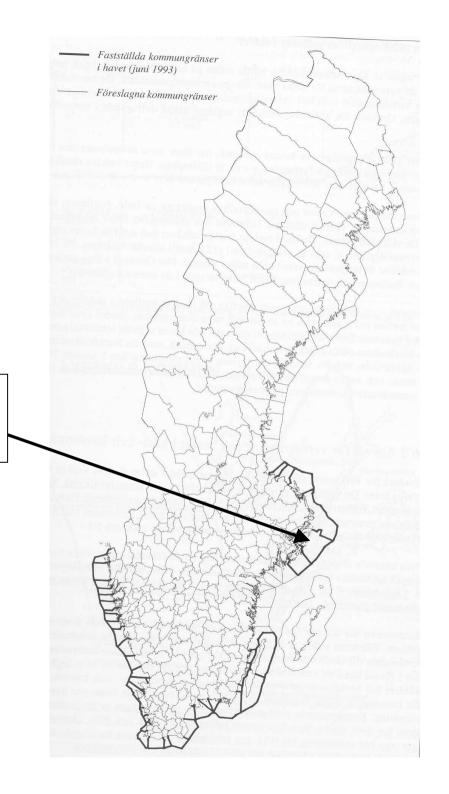
The rural setting and the planning for urbanisation.

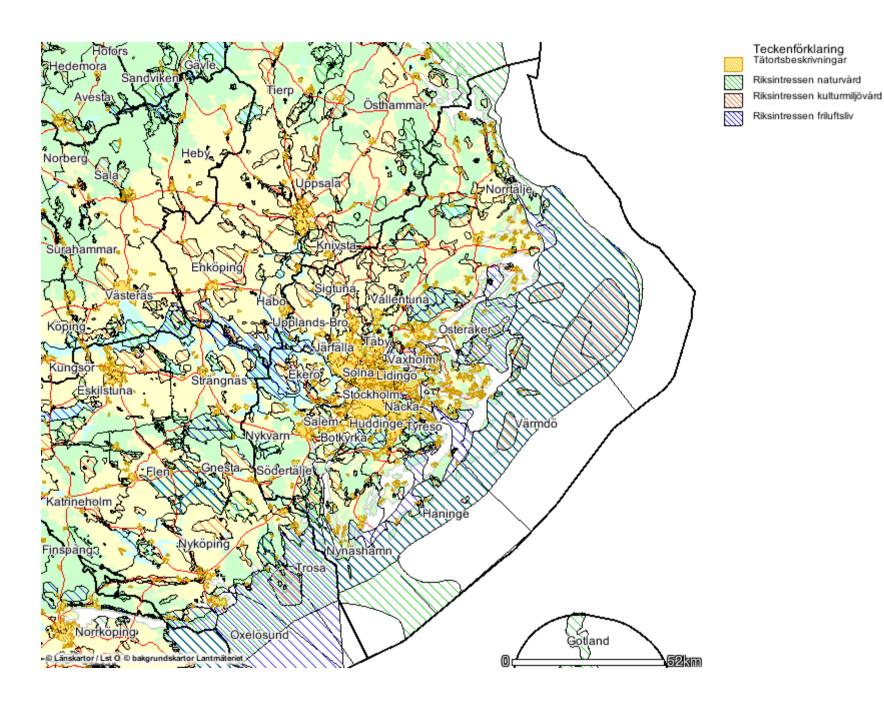


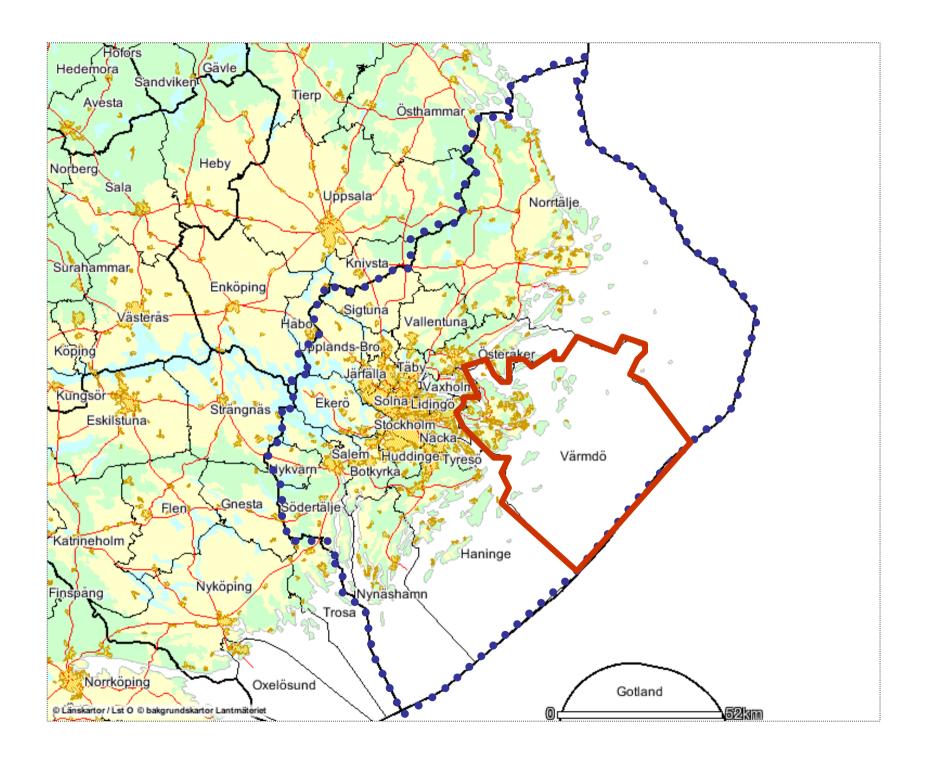


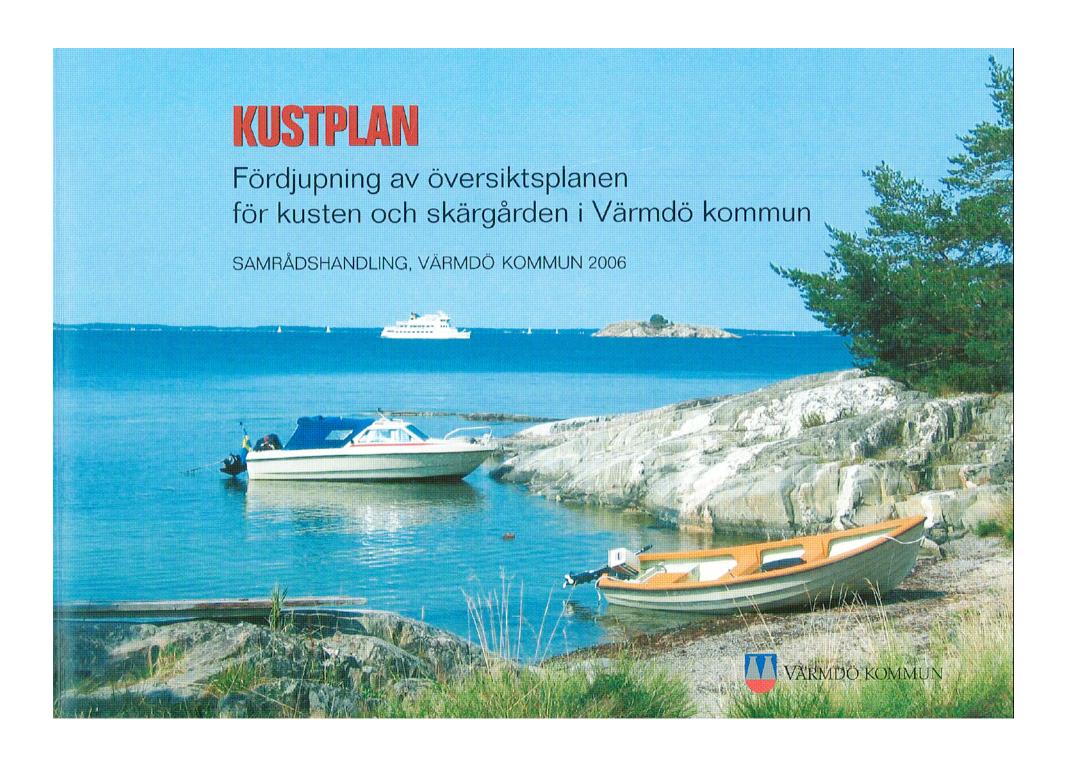
# Planning in the Stockholm Coastal Area

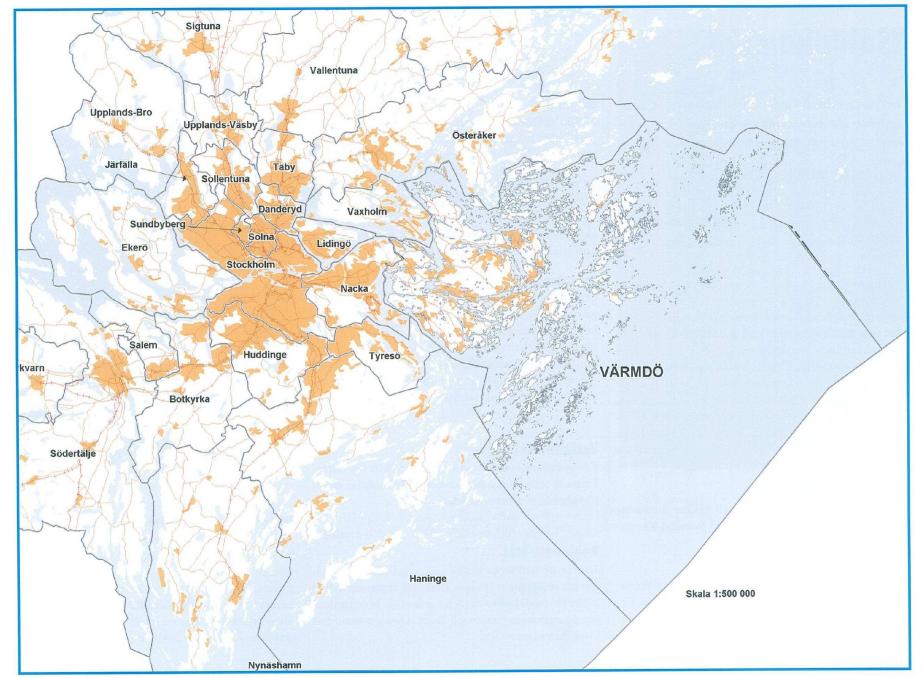
Värmdö Muncipality Coastal Plan

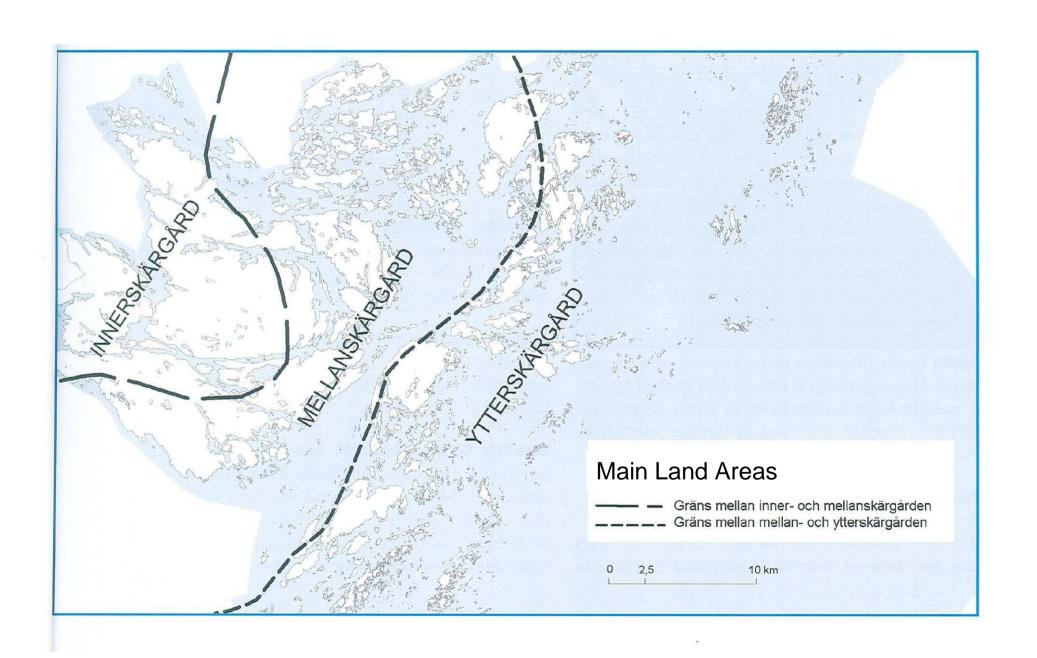


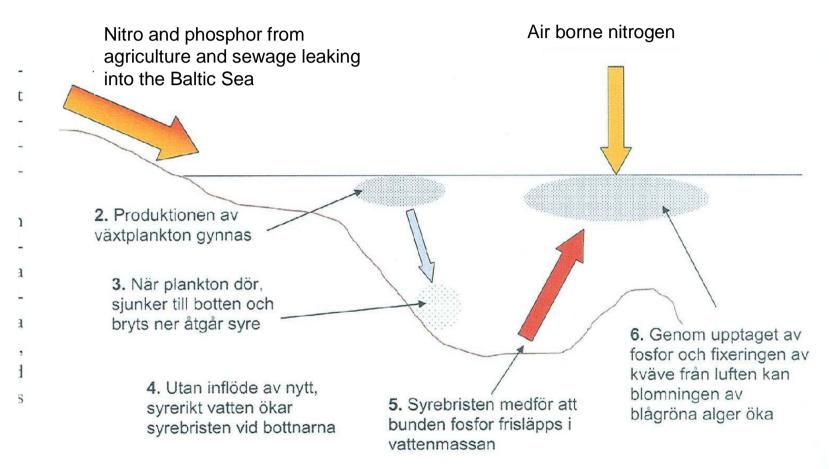




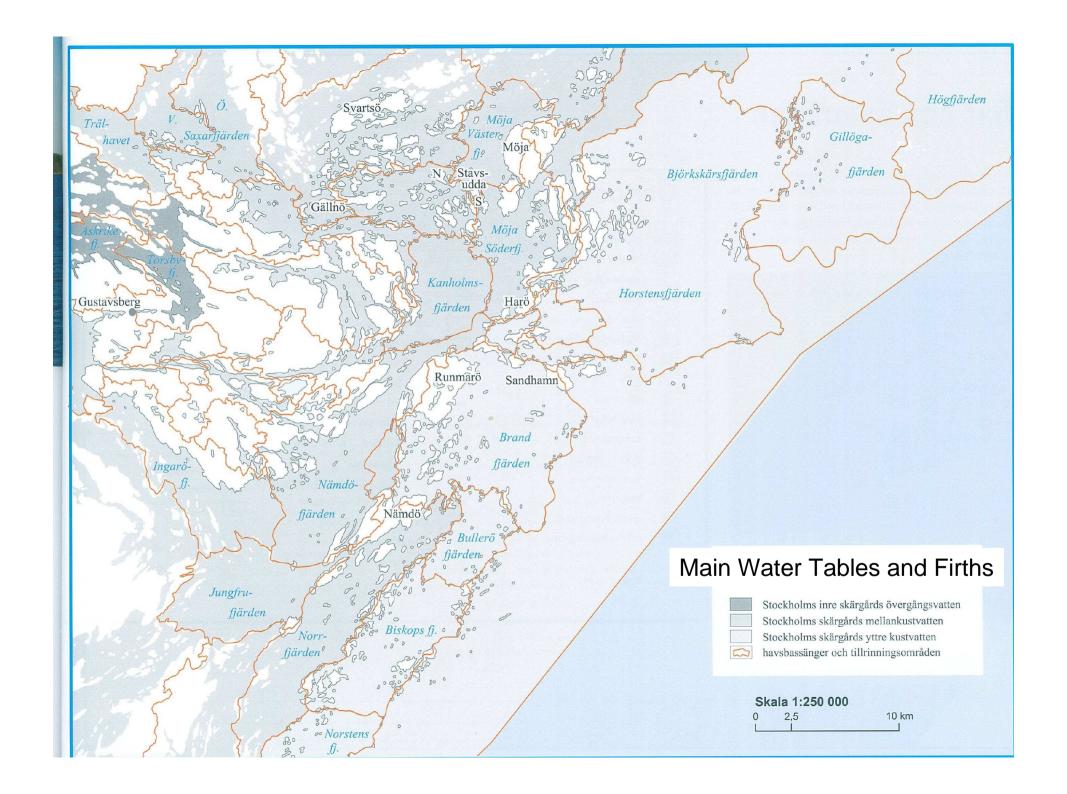


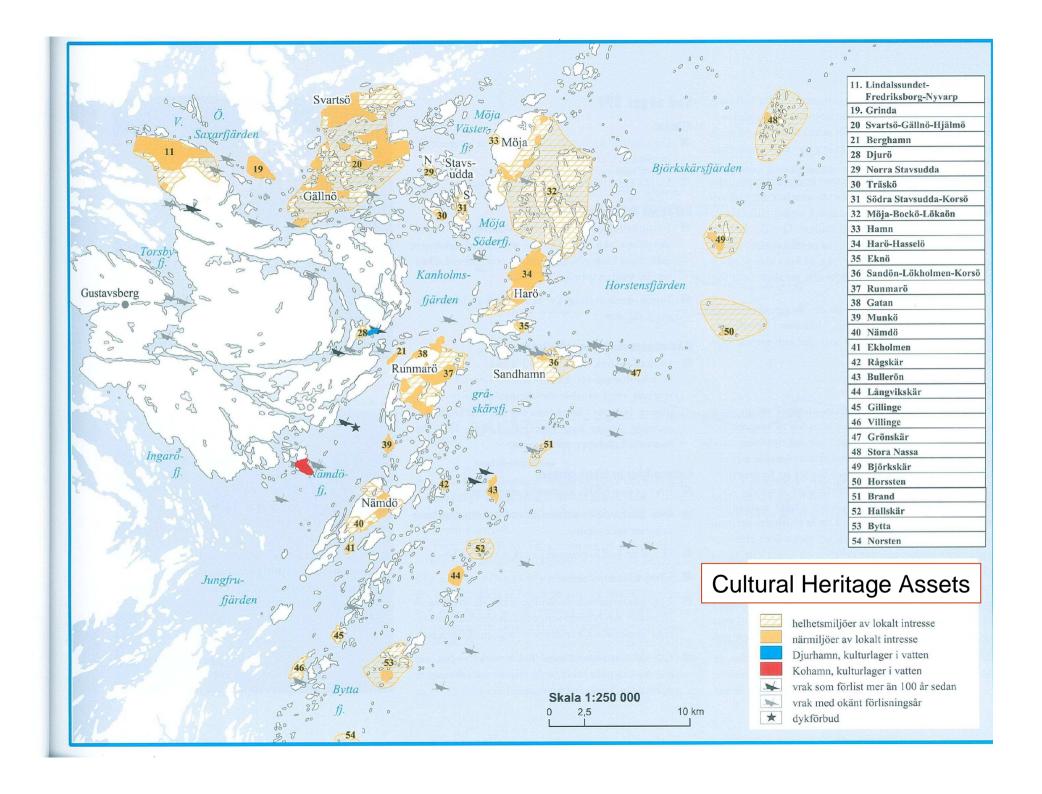


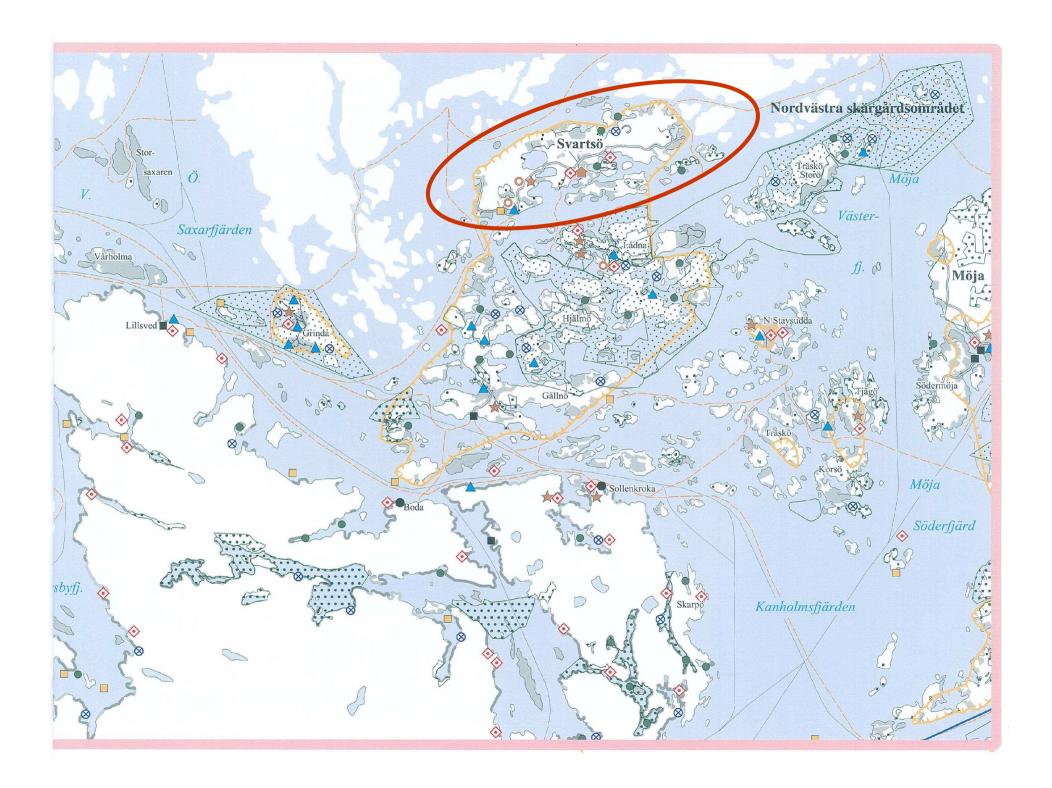




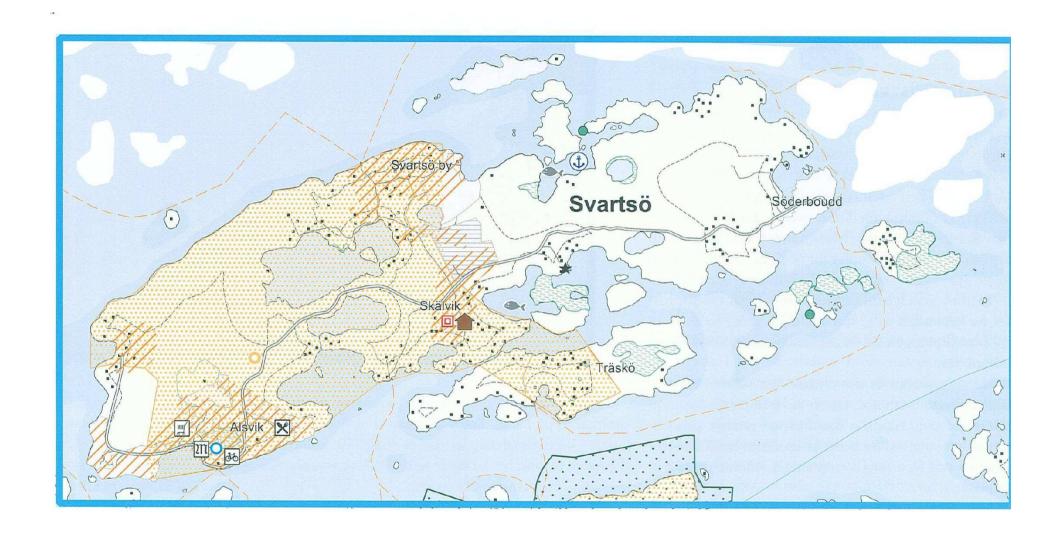
Ekosystemet Östersjön kan ha kommit in i en ond spiral där kvävefixerande blågröna alger särskilt gynnas av ökad tillgång på fosfor.











#### The Planning Context

to manage a development situation

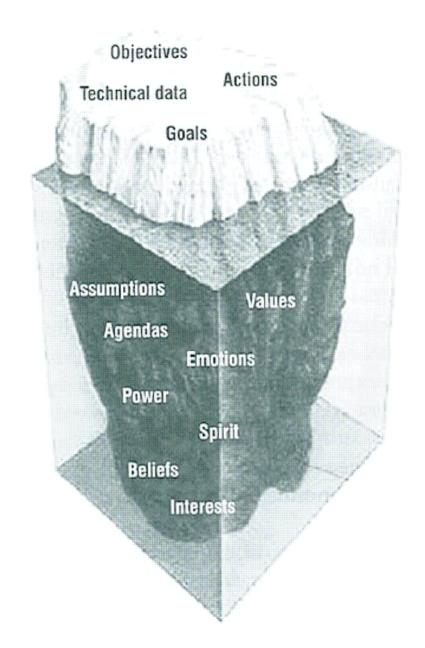
#### Actors and Stakeholders:

Variety of citizens

Commercial actors

Local market businessmen

**Organisations** 



#### The Planning Context

#### Forces and resources:

public assets
livelihood situations
social values and assets
natural assets and resources
political attitudes, wills and
changes

#### The Planning Context

#### A changing world:

Climate change

State of degraded environment

Faster changing processes

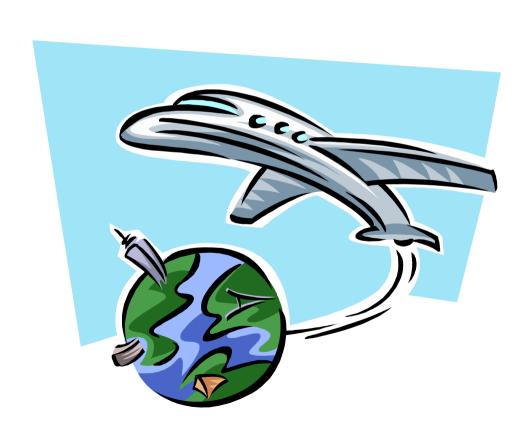
Urbanization towards coastal areas

New emerging risks

International collaboration

### New complex risks

#### Example:



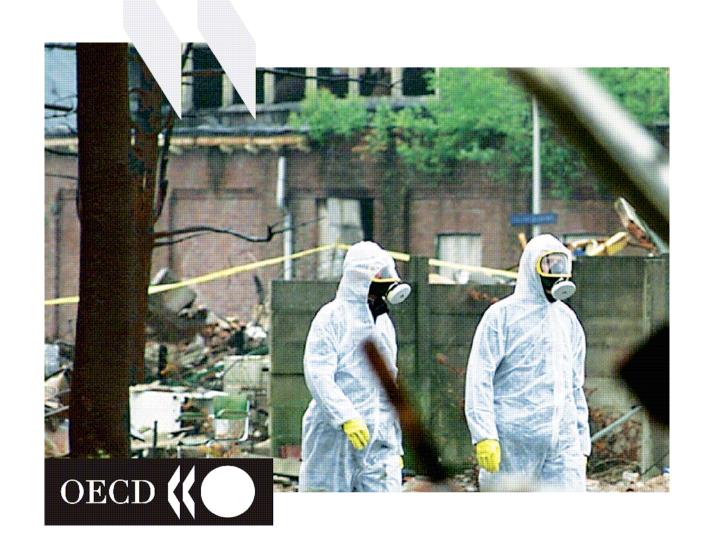
The number of air routes increases

The weather changes and dynamics

= more complex to plan and forecast

### **Emerging Risks** in the 21st Century

AN AGENDA FOR ACTION



#### Top down or.....



Predestinated or..

open to new inputs?

Bottom up....?

#### The role of Public Sector

is to balance the management of public assets and interests with the commercial markets and private short term interests and powers in a rapidly changing world....

And hence the public sector must use planning

#### The Coastal situation

The coastal area contains large and vulnerable assets in the need of careful and long term planned management based on good governance and local ownership

#### Good planning is

a process...

that is transparent,
both bottom up and top down
and open to new inputs and trends



#### Good planning is also

Locally driven,
having a clear ownership
and hence needs to be very
participatory!

#### Participation...

- Promotes local ownership
- Enhances accountability
- Strengthens project sustainability
- Facilitates Public-Community-Private partnership
- Facilitates process transparency and prevents corruption

## The 3 steps of successful participation:

- 1. Sensitization to make people listen
- 2. Animation to make people active
- 3. Mobilization to make people move things

#### The planning needs

To be flexible, practical and adaptable to new situations

Combining the **controlling and promoting** of development!

= The "carrot and stick" approach

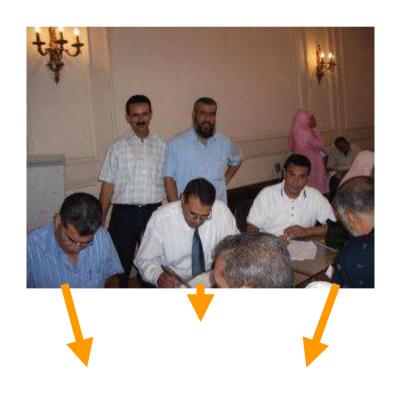
# We need a new planning approach:

#### **Strategic Urban Planning**



#### The Master Plan

is designed in a top-down way



#### The Strategic Urban Plan

is combining top-down and bottom-up made in participation with the town residents



#### Planning Concepts

#### Master Plan....

- Problem oriented
- Top down approach
- Spatially focused
- Central decision based
- Physical conditions
- Static
- Reactive & restrictive
- The plan is a product

#### versus the **Strategic Plan**

- Goal and vision oriented
- Bottom up & top down
- Spatial and non-spatial
- Participation based
- Urban management tool
- Implementation oriented
- Dynamic and promotive
- The plan is a process providing strategies

# The Strategic Urban Plan

### **Asset based**

Working with local assets and opportunities and building a

COMMON VISION and long term goals

### **Strategy oriented**

Principles to guide decision making in rapidly changing urban settings

Strategy approach gives stability and flexibility

# The Strategic Planning Process

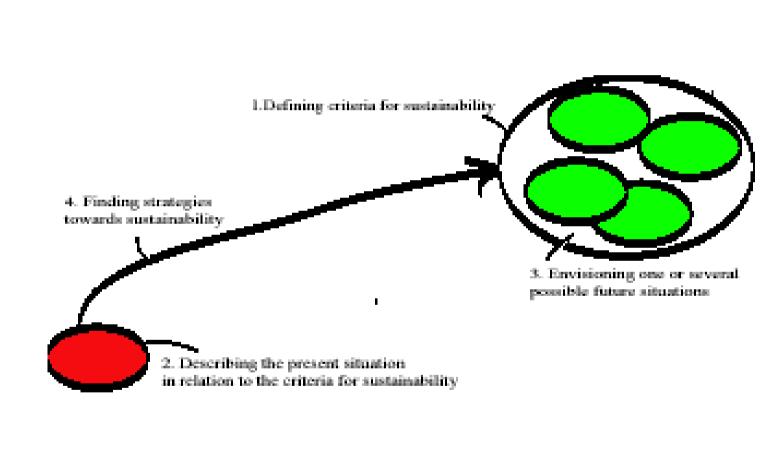
• The four D:s **Discover** Assets&Resources **Deliver Dreams** Implementation Vision Design Mission and Plan

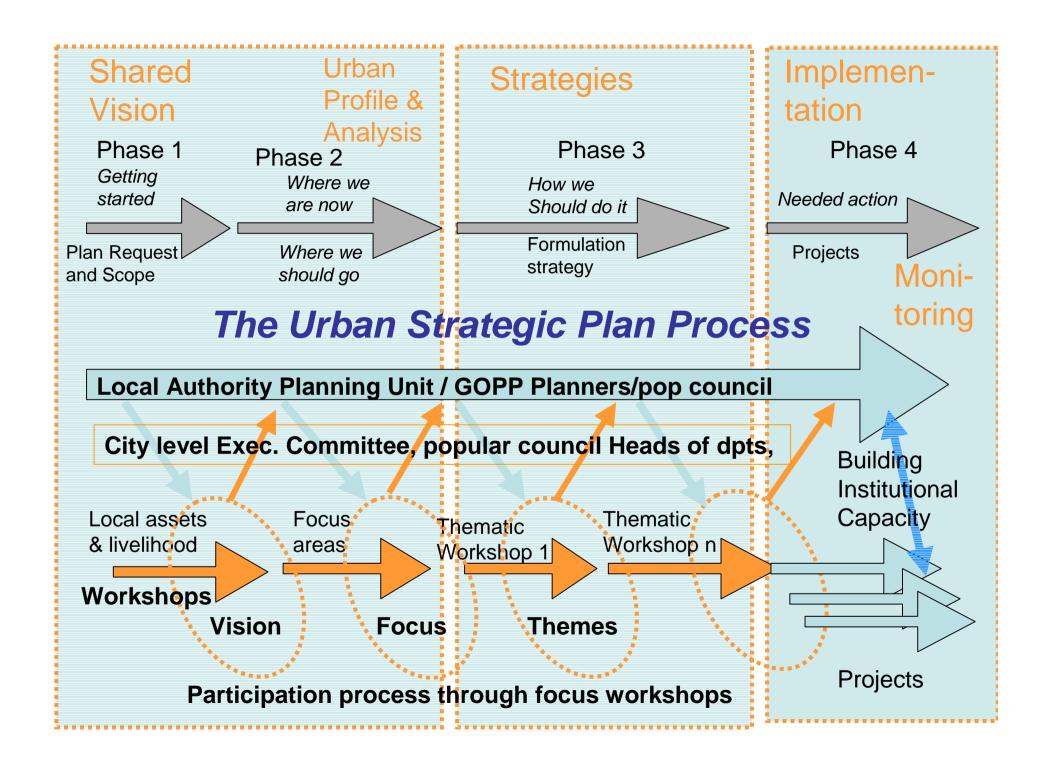
## The Anglo-Saxon planning culture

- Town planning
- "Country planning"
- Land use planning
- Regional planning

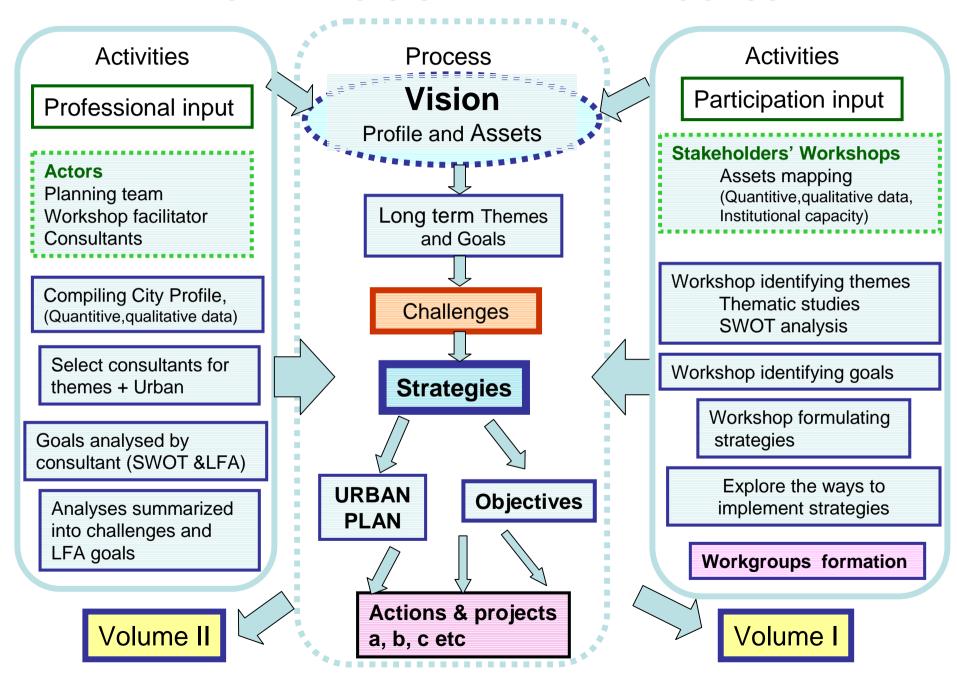
## The Strategic Urban Plan...

- is goal oriented with a clear spatial dimension more than problem oriented
- derives from a series of focused workshops where the local assets and urban profile is discussed with stakeholders
- is based on themes of workshop outputs being the basis for the strategies

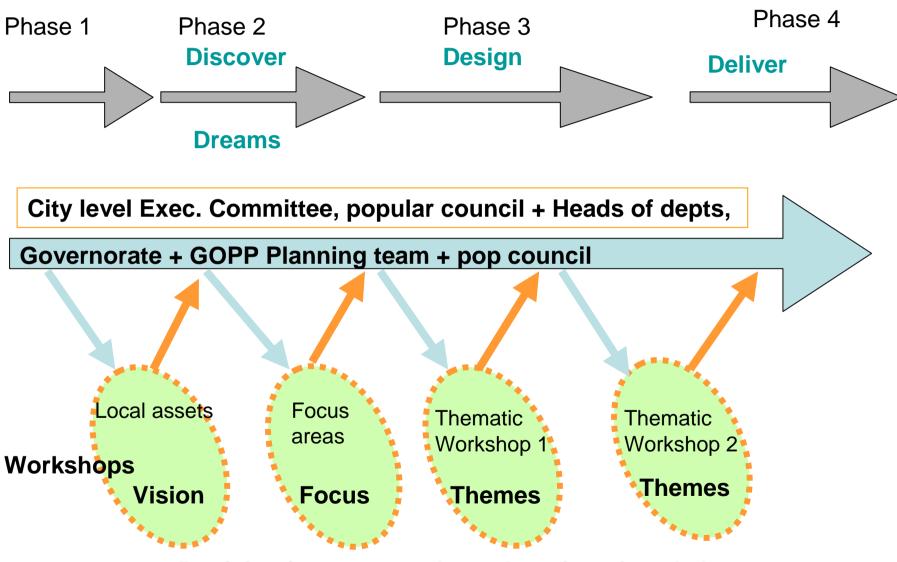




#### THE STRATEGIC URBAN PLAN PROCESS



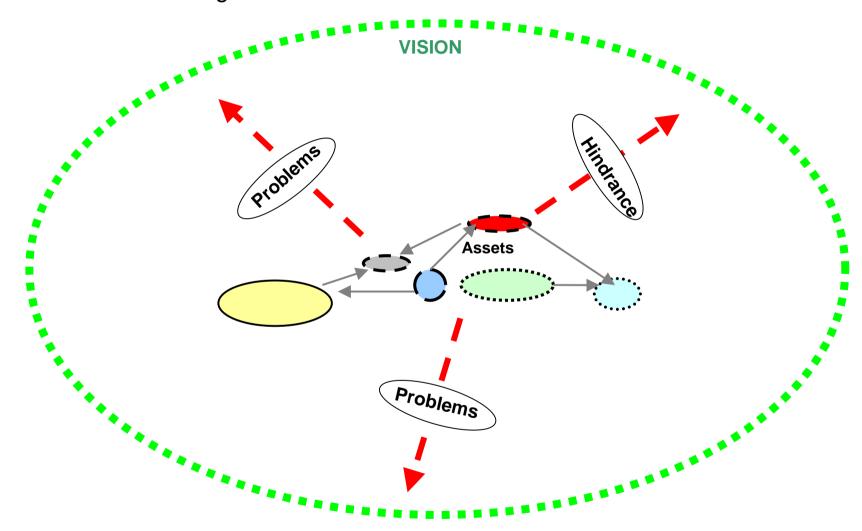
### The Strategic Urban Plan Process



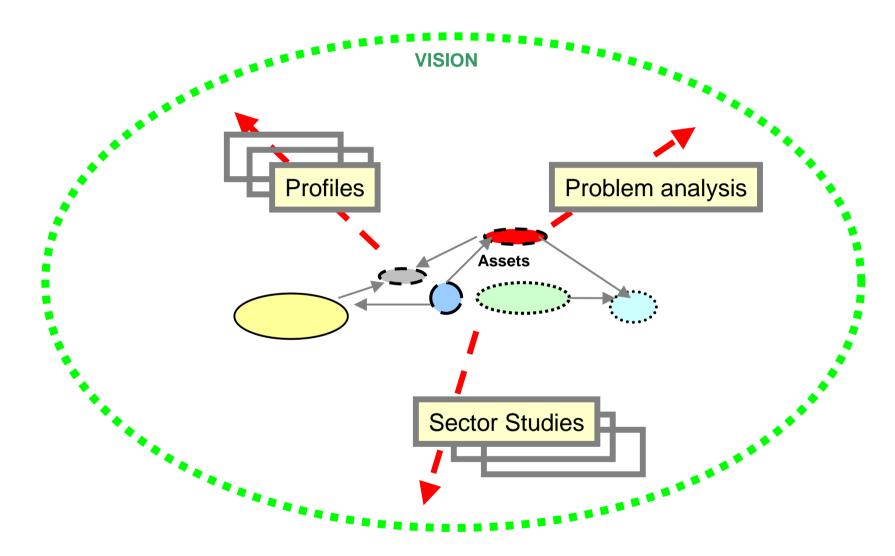
Participation process through series of workshops

It starts with the **Assets mapping** and Techn. Infrastructure Roads, Water + Sewage **The Town Profile Communal institutions** + Communications Social networks Economy ess Local Social Care Urban **Environment** & Nature

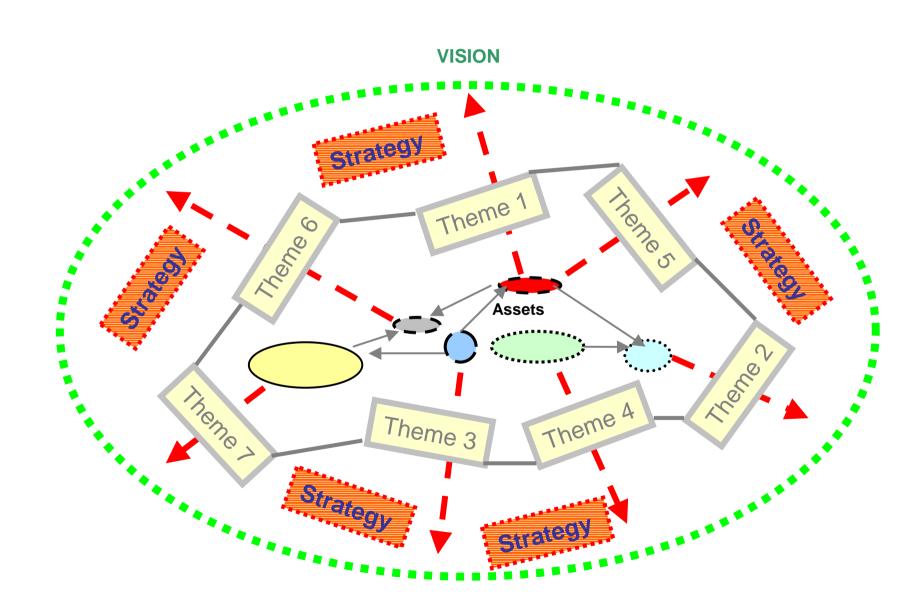
Defining the issues to reach the Vision = Challenge



#### Analysing the potentials and problems



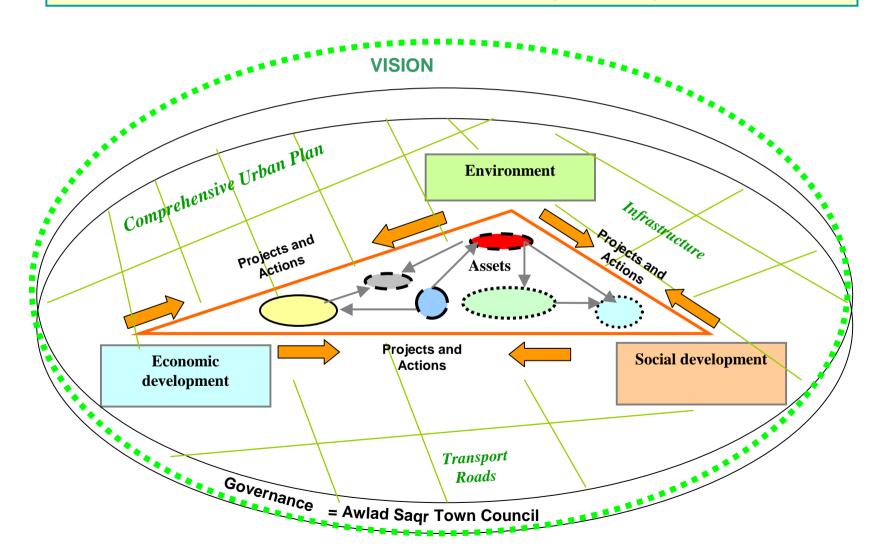
## Defining the goals, development themes and the *STRATEGIES*



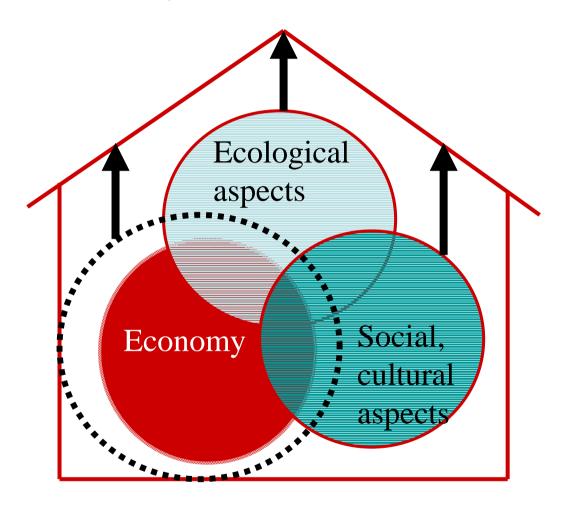
The **Strategy** as the way to the sustainable urban future VISION Urban Component A Jipan Component Assets Urban Component B

The Strategic Urban Plan to be a tool for the City Council/Municipality and the stakeholders

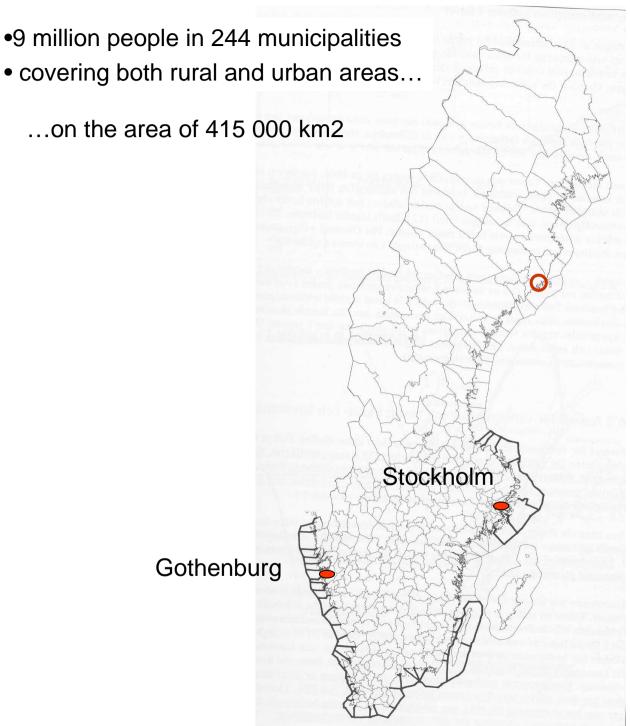
to coordinate actions, explaining the <u>ways, times and resources</u> for an orderly development towards an agreed long term vision

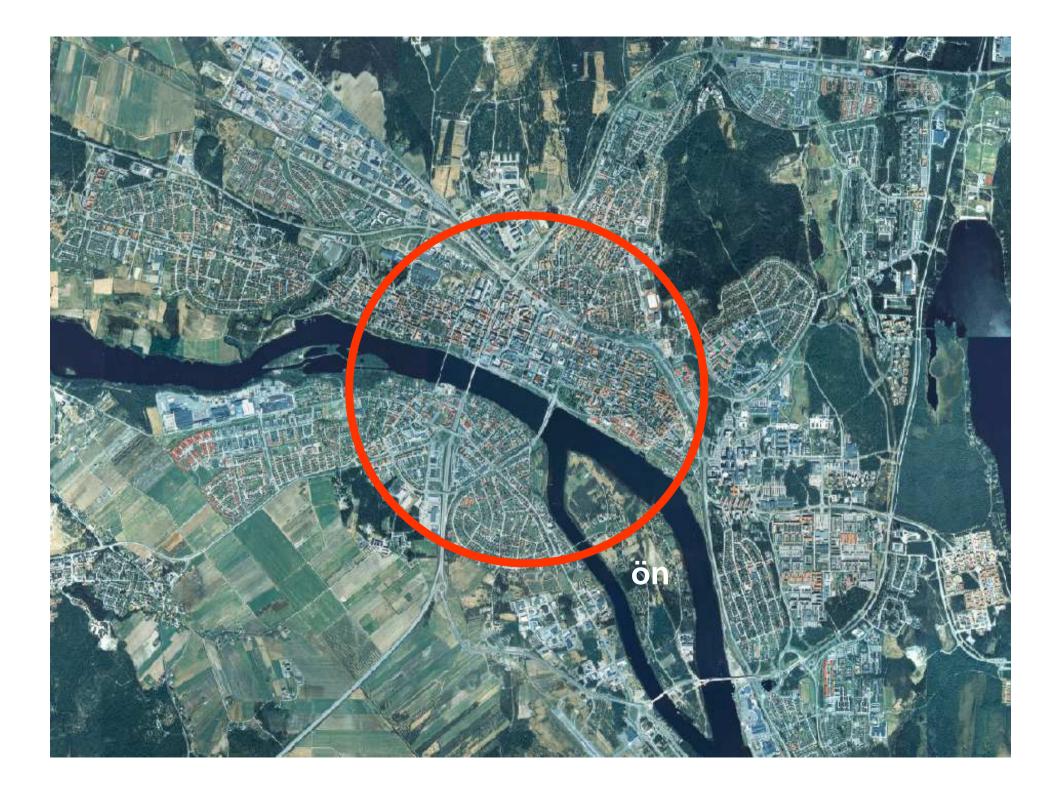


## The three pillars of sustainability

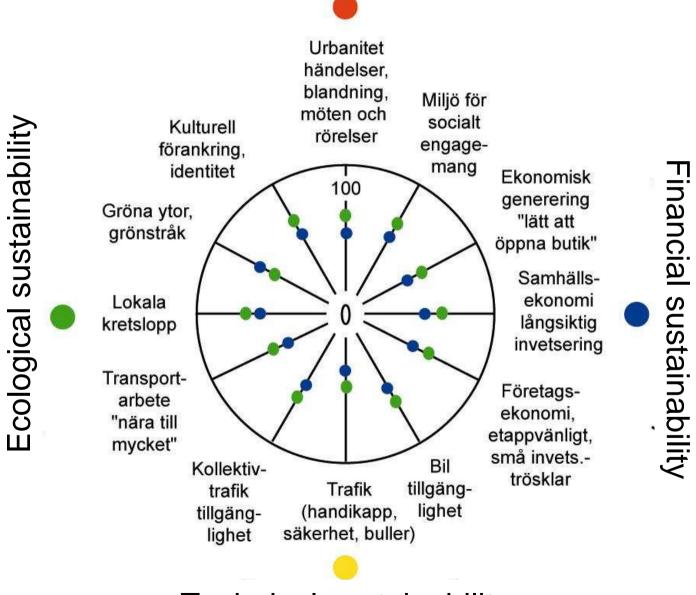








### Social sustainability



Technical sustainability

# SMALL

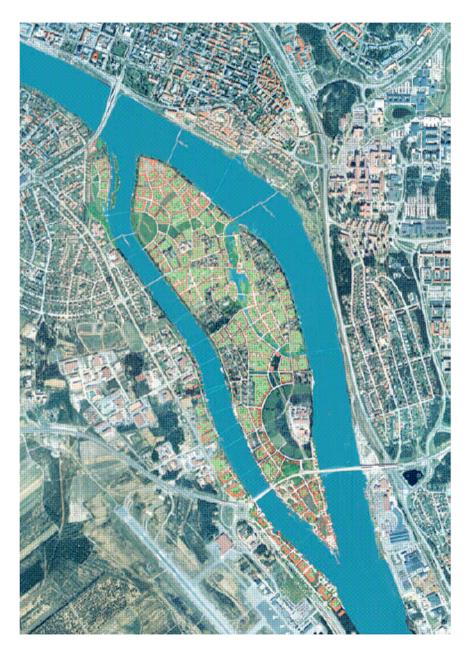
# MEDIUM





# LARGE

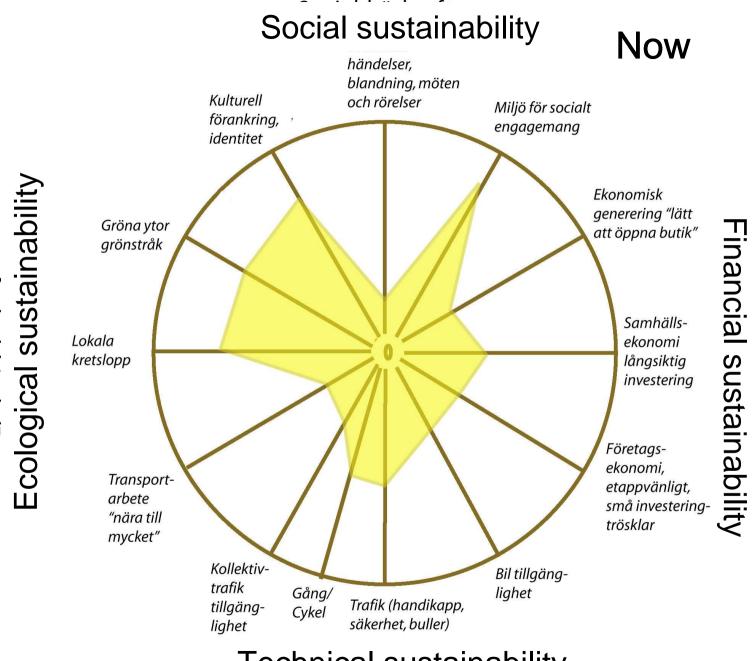
# X-LARGE





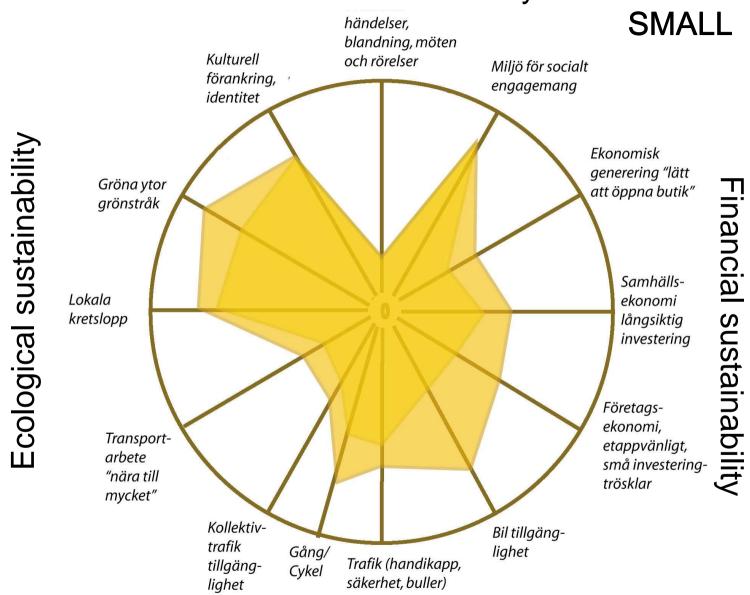






Technical sustainability

### Social sustainability



Technical sustainability

Social sustainability **MEDIUM** händelser, blandning, möten Kulturell och rörelser Miljö för socialt förankring, engagemang identitet **Ecological sustainability** Ekonomisk generering "lätt Gröna ytor Financial sustainability att öppna butik" grönstråk Samhälls-Lokala ekonomi kretslopp långsiktig investering Företagsekonomi, Transportetappvänligt, arbete små investering-"nära till trösklar mycket" Kollektiv-Bil tillgängtrafik Gång/ lighet Trafik (handikapp,

Technical sustainability

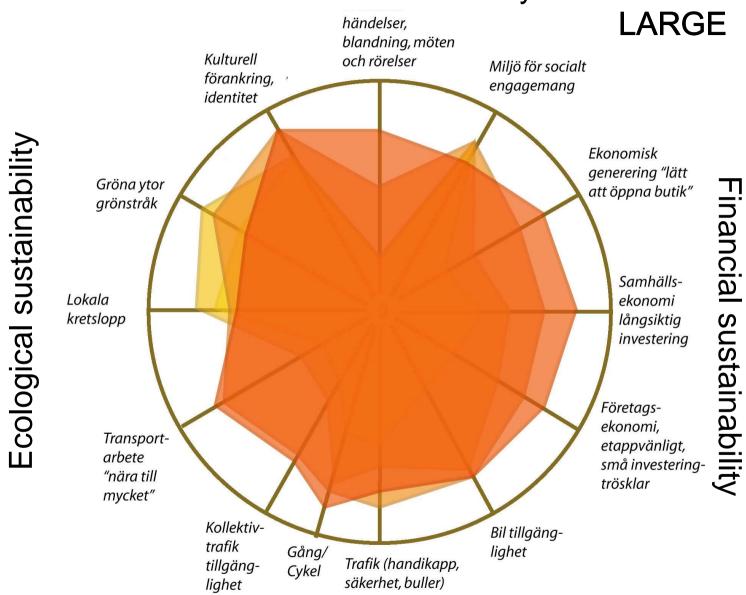
säkerhet, buller)

tillgäng-

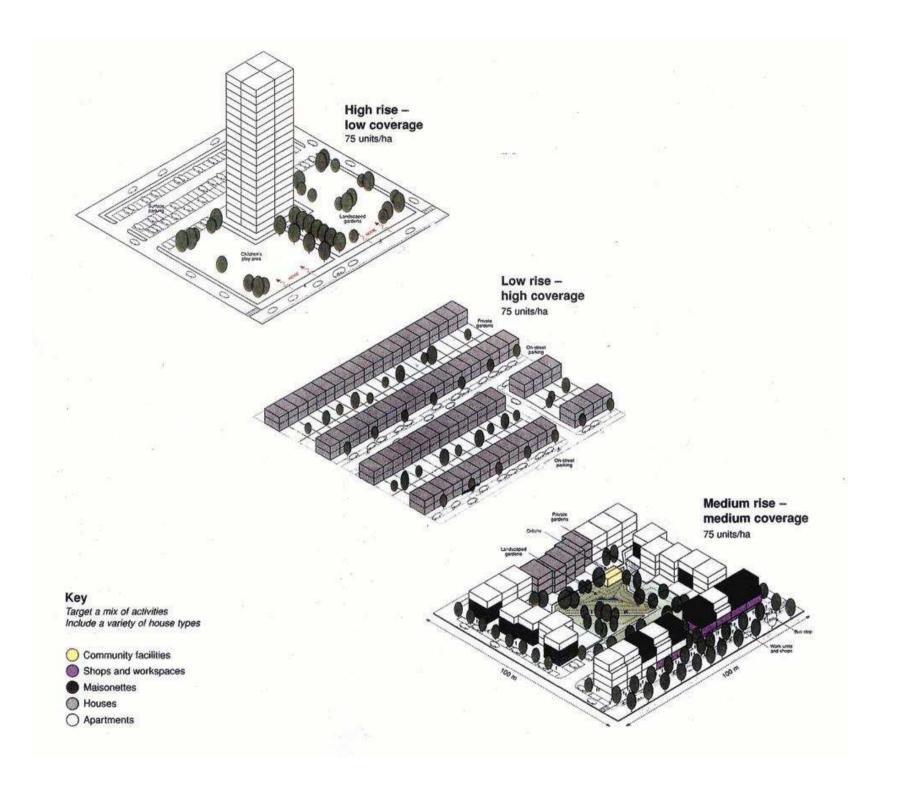
lighet

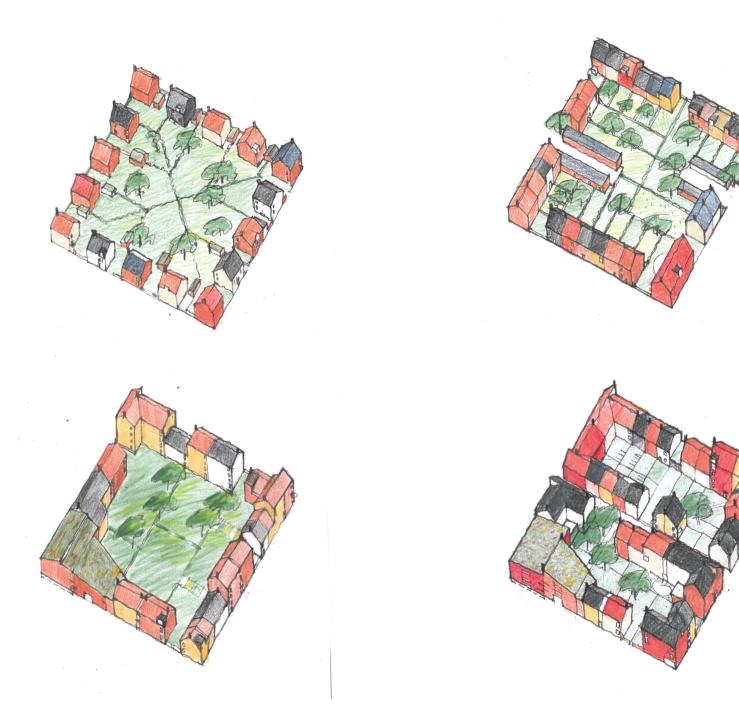
Cykel

### Social sustainability



Technical sustainability





#### **Coastal Processes**

Processes Coastal zones are typified by a complex and dynamic interplay of natural, demographic and economic processes linked to each other in a network of mutual reciprocal influence.

These processes are essentially dynamic cycles involving the exploitation of natural resources; the transformation and use of resources for demographic growth, social organization and economic production; and the generation of by-products and their dispersion back into the natural system.

Uncontrolled or excessive socio-economic growth increases the pressure on the natural sub-system and will cause oppressive problems resulting in environmental degradation and eventually in the collapse of the coastal system or parts thereof.

Climate change will tend to exacerbate such problems. Climate change may lead to a range of impacts including rises in sea level and changes in storminess, rainfall, evaporation and freshwater

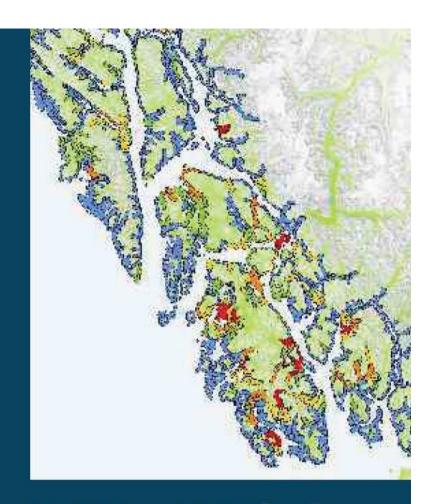
SOCIAL NATURAL **PROCESSES** PROCESSES P R 0 **ECONOMIC** PROCESSES В S E Μ Climate Change

webbsida från www.NetCoast.nl

larald Sterner GU förvaltning/planering av kust och hav 2008-02-25

## **BALANCE WP4:**

Development of a Baltic Sea marine area management framework



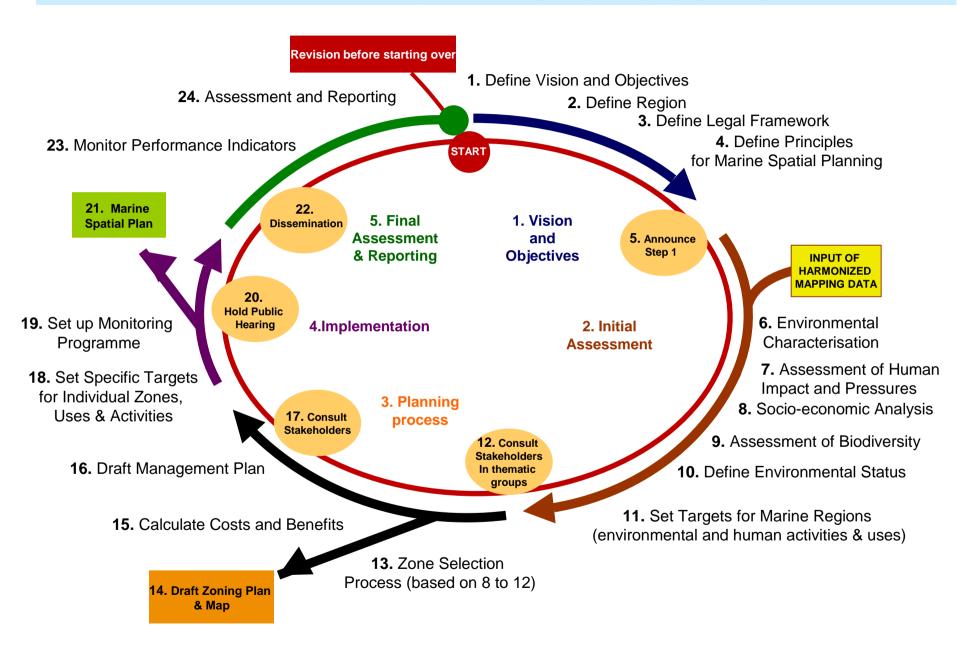
- with key inputs from WP1, WP2 & WP3

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

### 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)

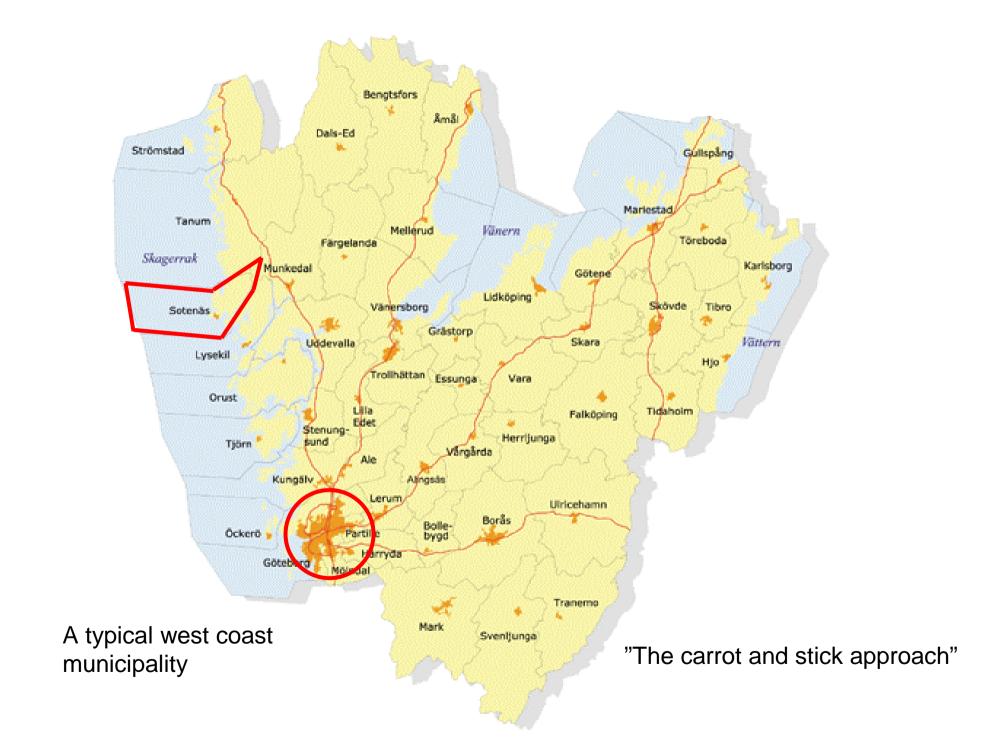
#### The BALANCE Marine Spatial Planning Template Applying Zoning

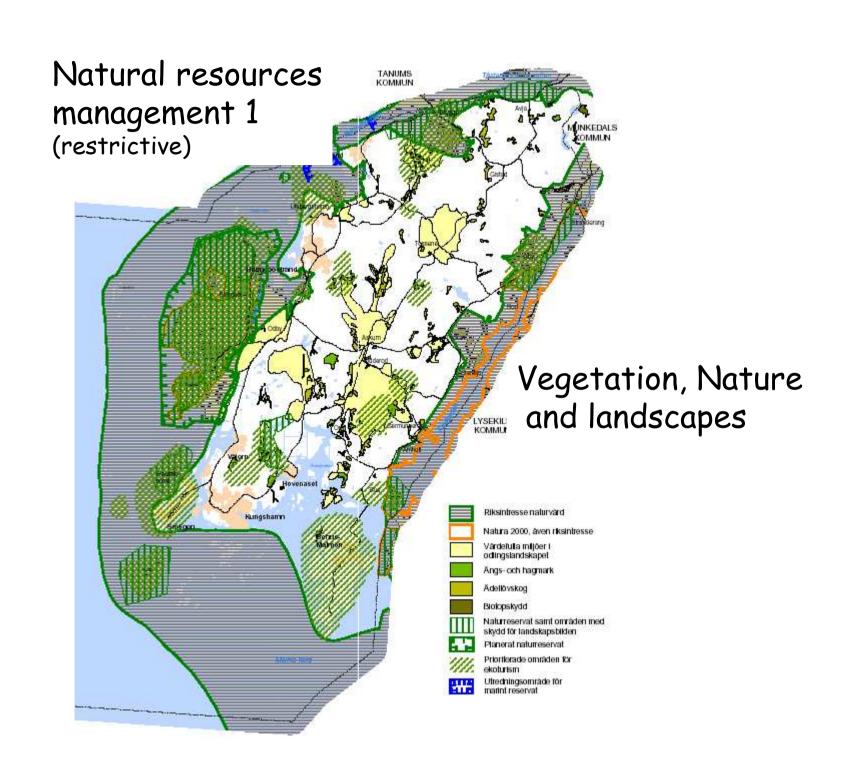


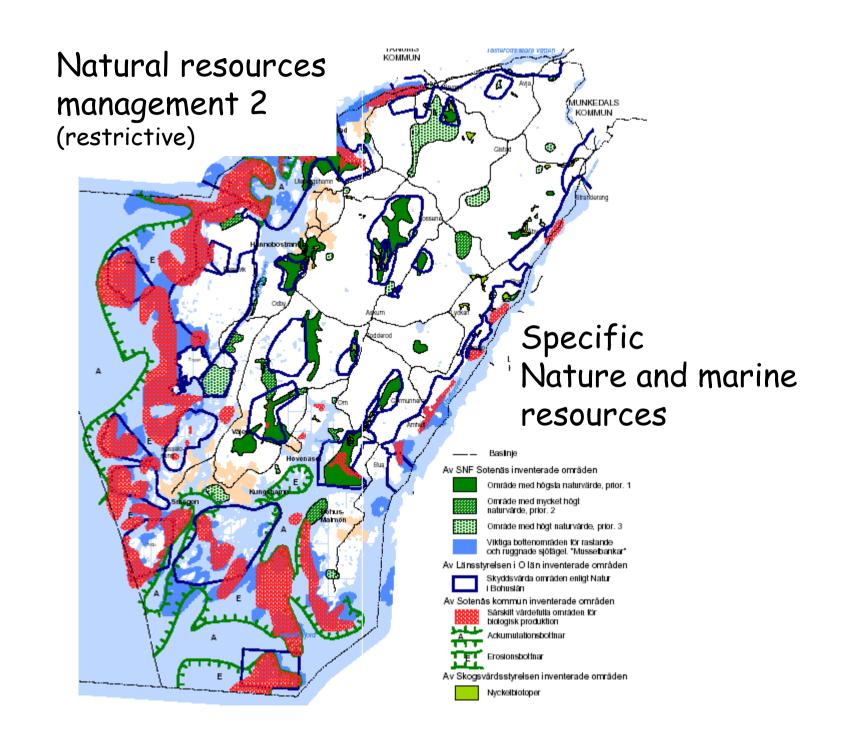
40.00

Putting it all together 10 km Land areas Area not zoned Restricted access Exclusive use Targeted management General use

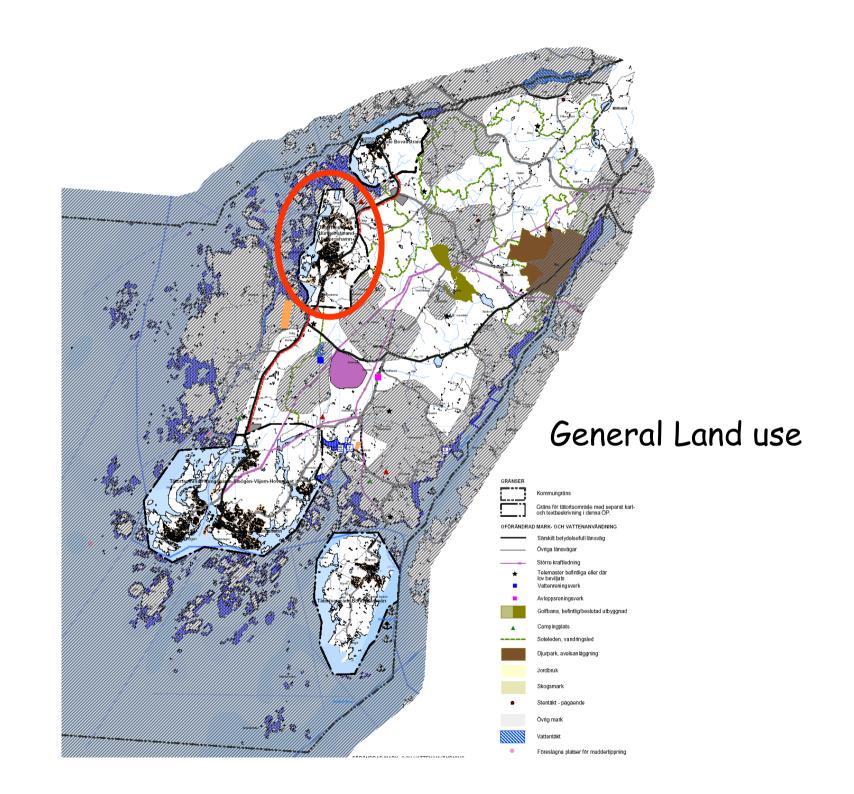
New areas

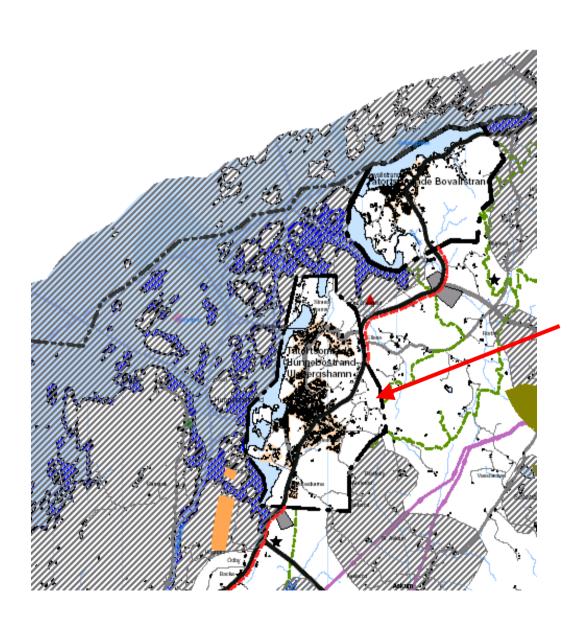




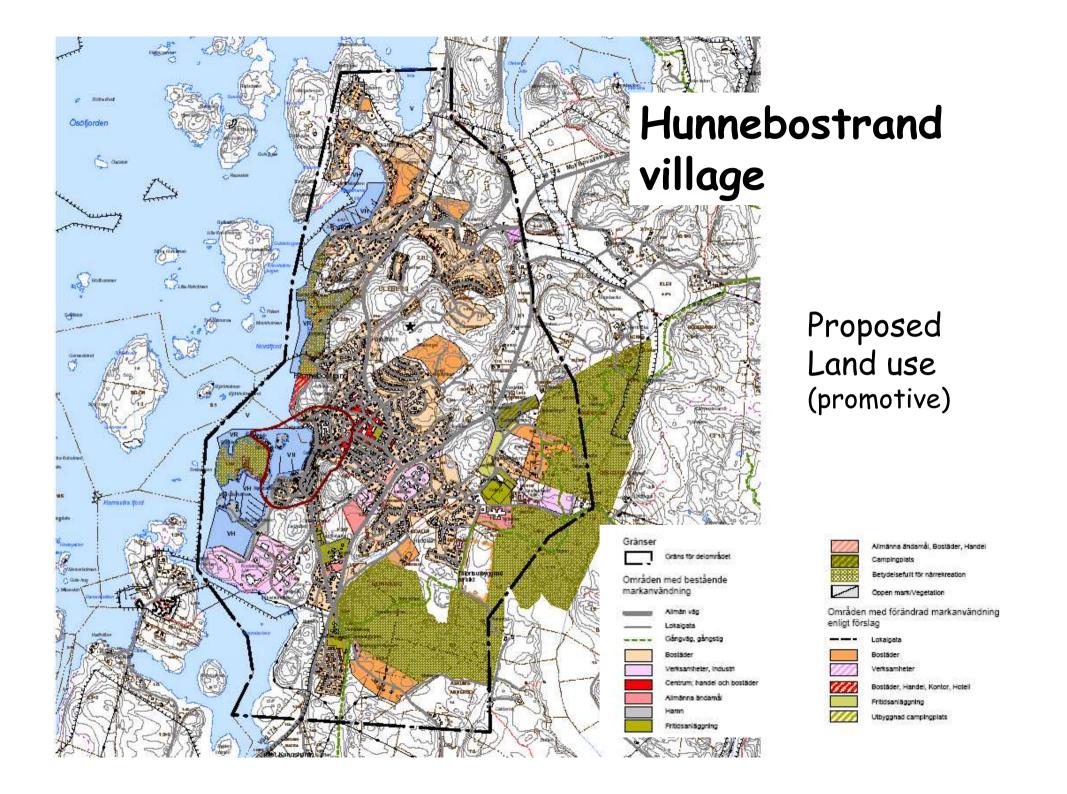


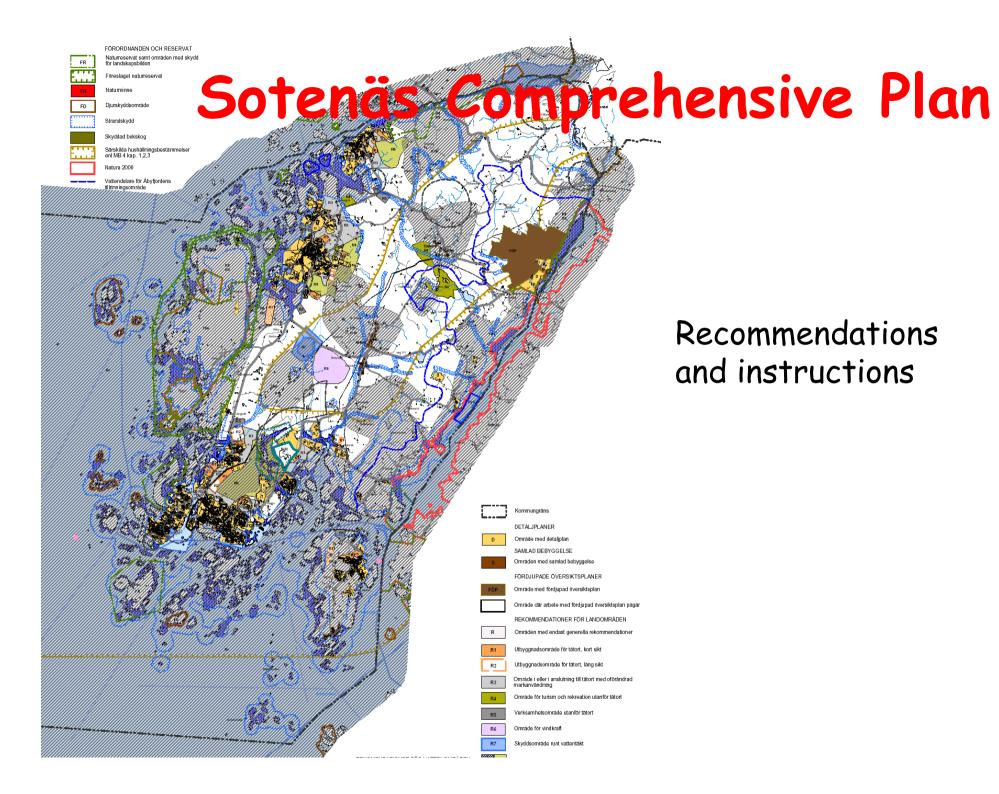
Environment, Health and Safety T Impact areas MUNKEDALS LYSEKILS KOMMUN Tillständspliktiga anläggningar Mudderlippning Nedlagda avfallsupplag Hogenäs avfallsanläggning Skyddsområde vatlentåkt Bullrande verksamhet -slentäkt Bullrande verksamhet Industri Bullrande verksamhet -skjulfält Luktstörande verksamhet Maleso ford Av föroreningar påverkade områden Vattendelare Höga halter av radon förekommer i hela.

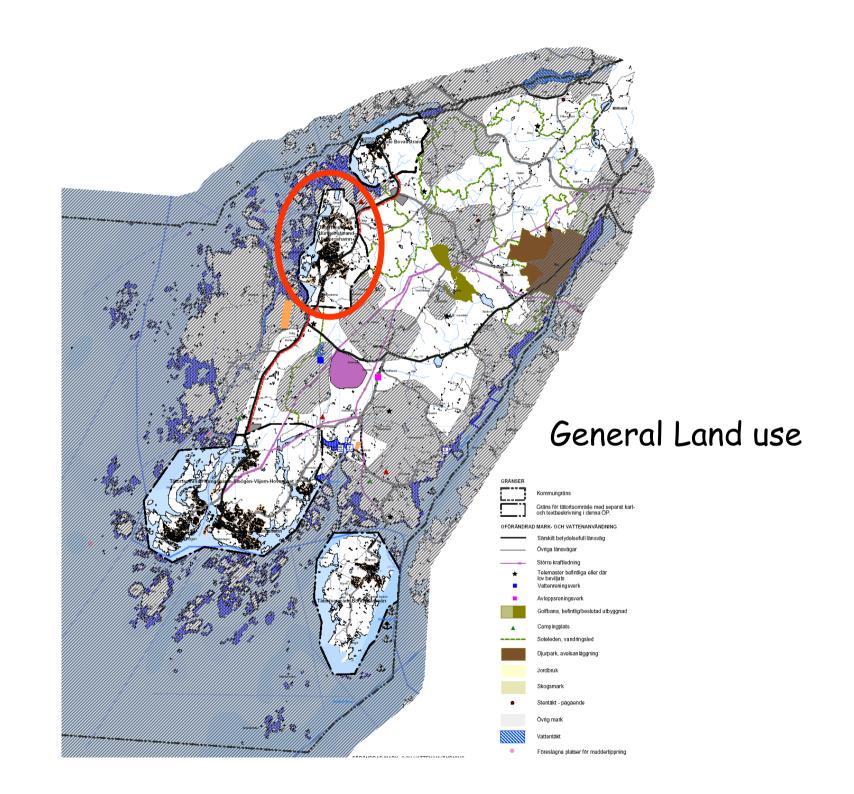


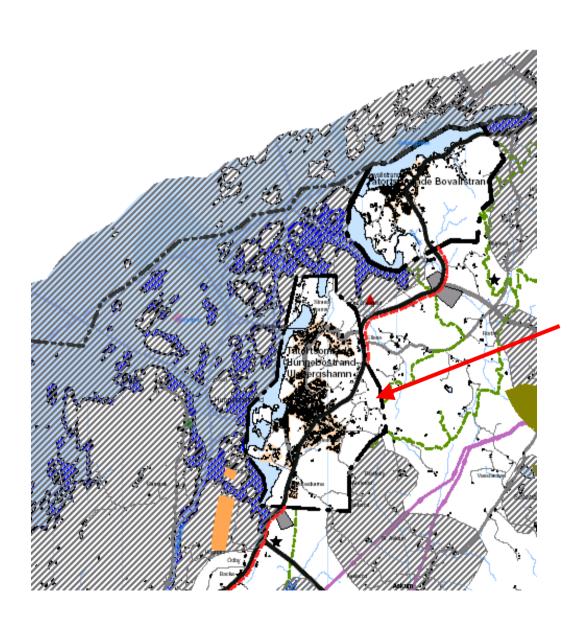


## Hunnebostrand Village

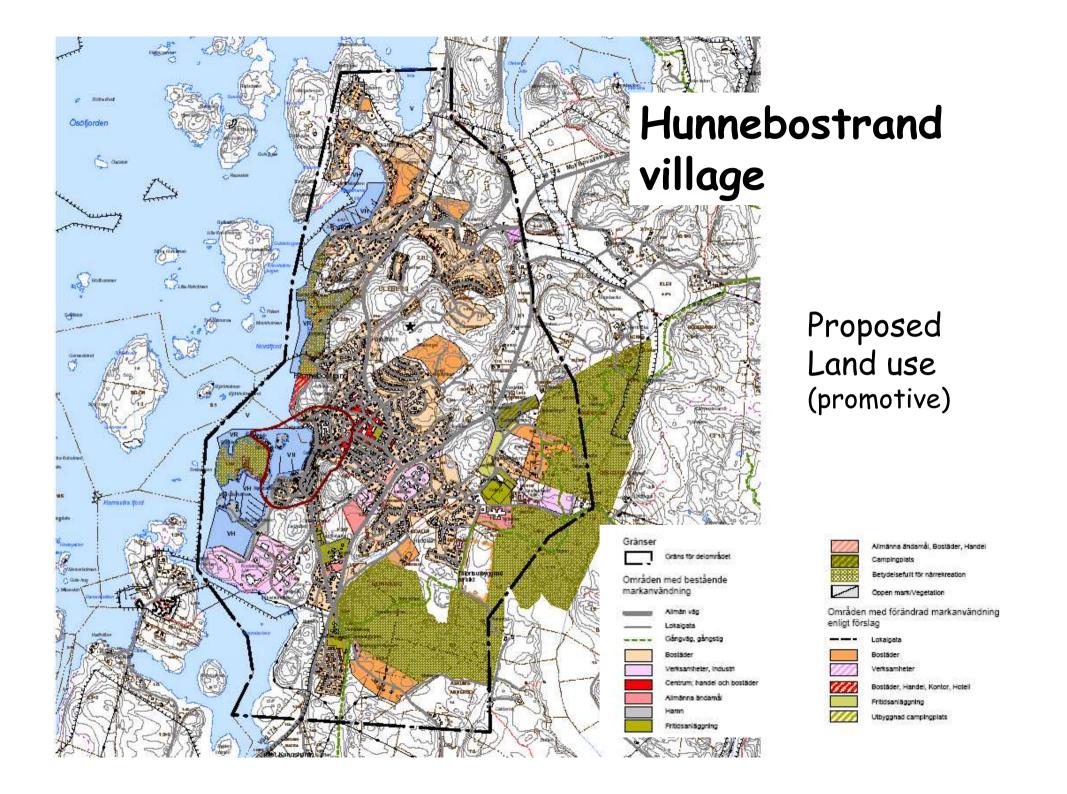


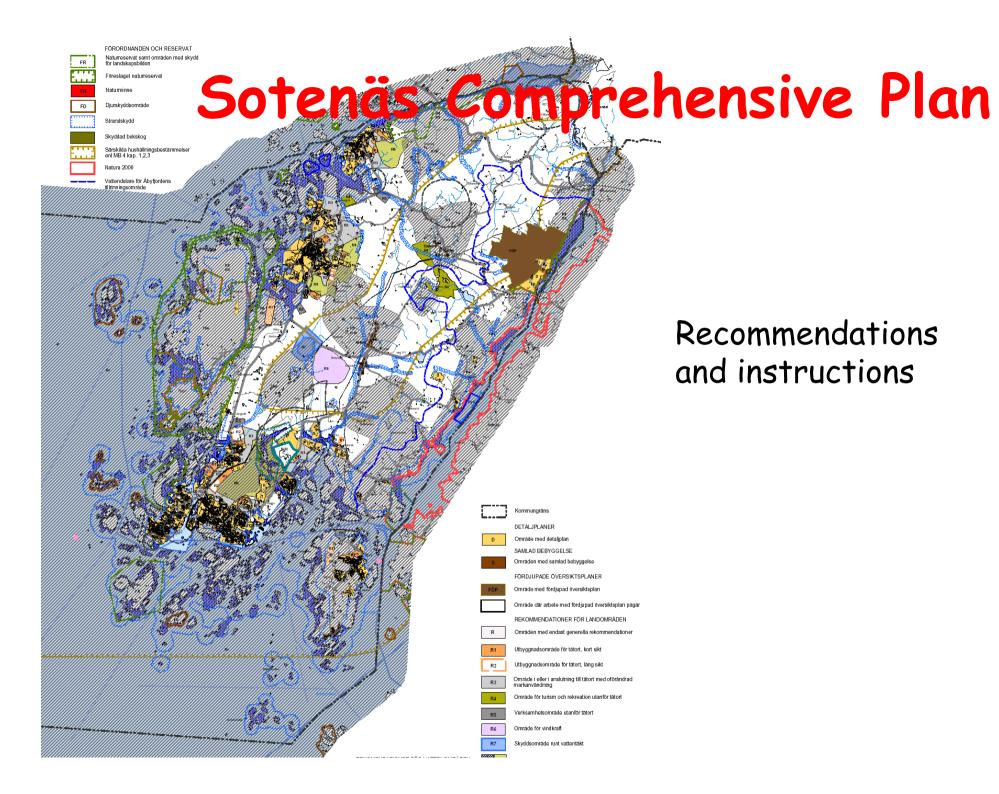






## Hunnebostrand Village





## Shore protection

In Sweden there is *public right of access* to the open country

You are not allowed to reduce or cut the area of public access within

100 m - 300m from the shoreline

The life of animals and herbs shall not be damaged in an essential way



