

Bioenergy Development and Local Energy Action in
Latgale Region • 18 April 2013 • Rezekne
Bjarne Rasmussen, Region Zealand

Latgale Region as a Bioenergy Region

Challenges and opportunities for regional development



Bioenergy Promotion



Bioenergy Promotion



EUSBSR
EU STRATEGY
FOR THE BALTIC
SEA REGION



- **33 partners from**
- **10 countries in the Baltic Sea Regions**
- **public decision-makers at national and regional levels**
- **environmental and forestry development centres**
- **agencies for renewable energy resources**
- **chambers of industry, commerce and agriculture**
- **research institutes & universities**

Focus on regions

**17 regions in the
1st project period
2009-2011**

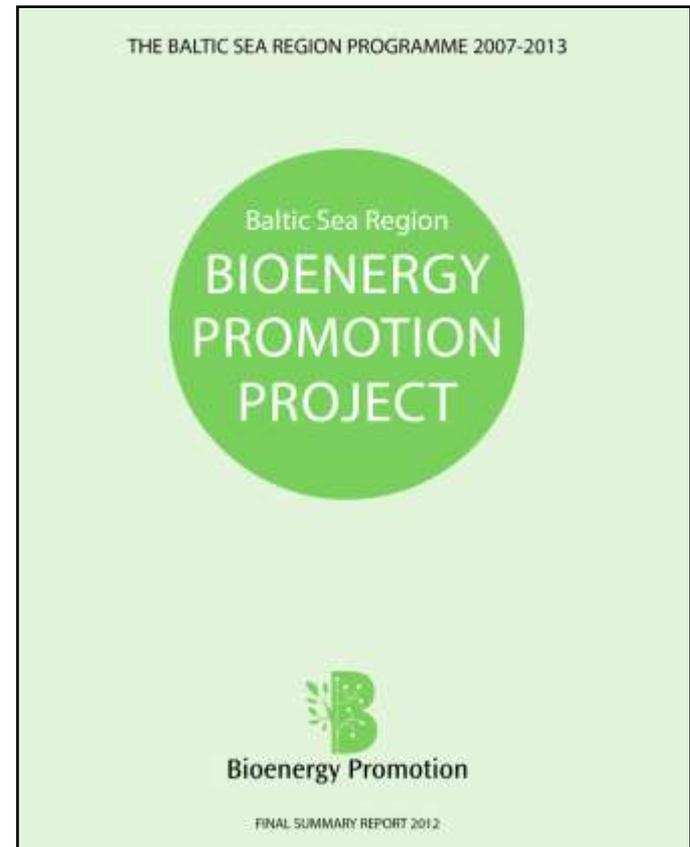


**7 regions in the
2st project period
2012-2013**



Objectives - Key areas

- **Policy development:
guidelines, recommendations**
- **Regional bioenergy strategies:
development and
implementation activities**
- **Promoting bioenergy business
development**
- **Transfer of experiences to
non-partner regions**

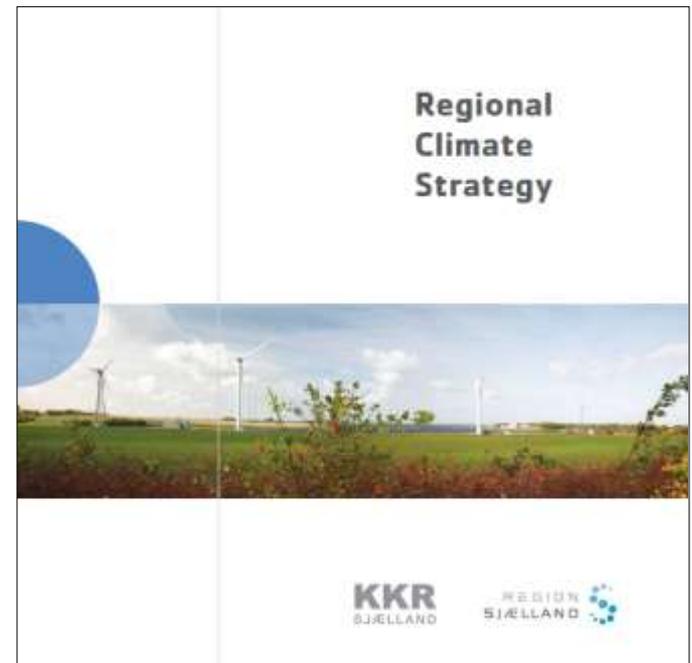


Bioenergy region

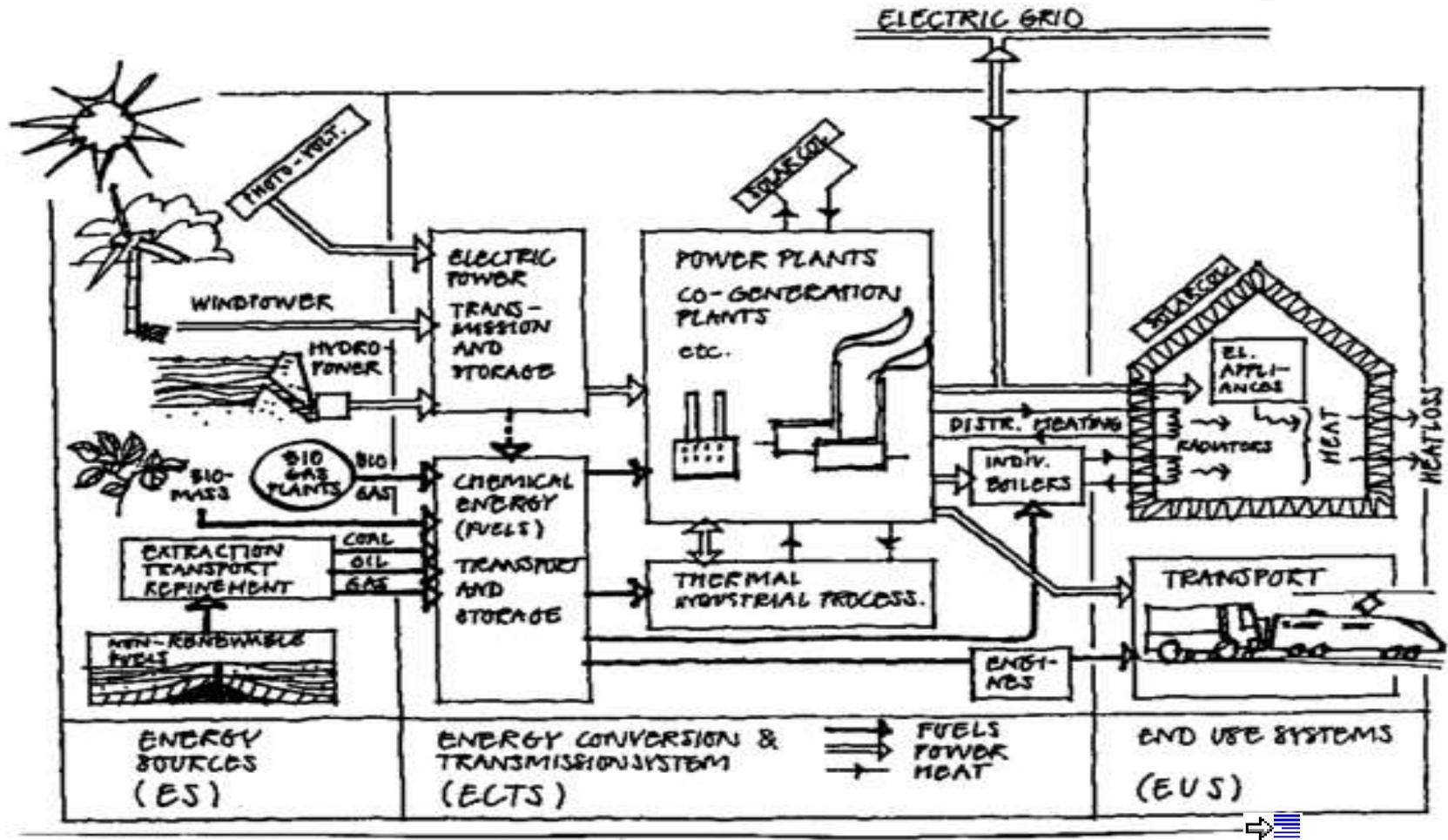


Regional Climate Strategy

- **Vision: Leading Climate Region in Europe**
- **Linking 3 perspectives:**
 - mitigation
 - adaptation
 - innovation
- **8 action programmes**
- **Guideline for action**
- **Participative approach**
- **Platform for cooperation between region and 17 municipalities and other stakeholders**



Energy System Approach



Energy sources

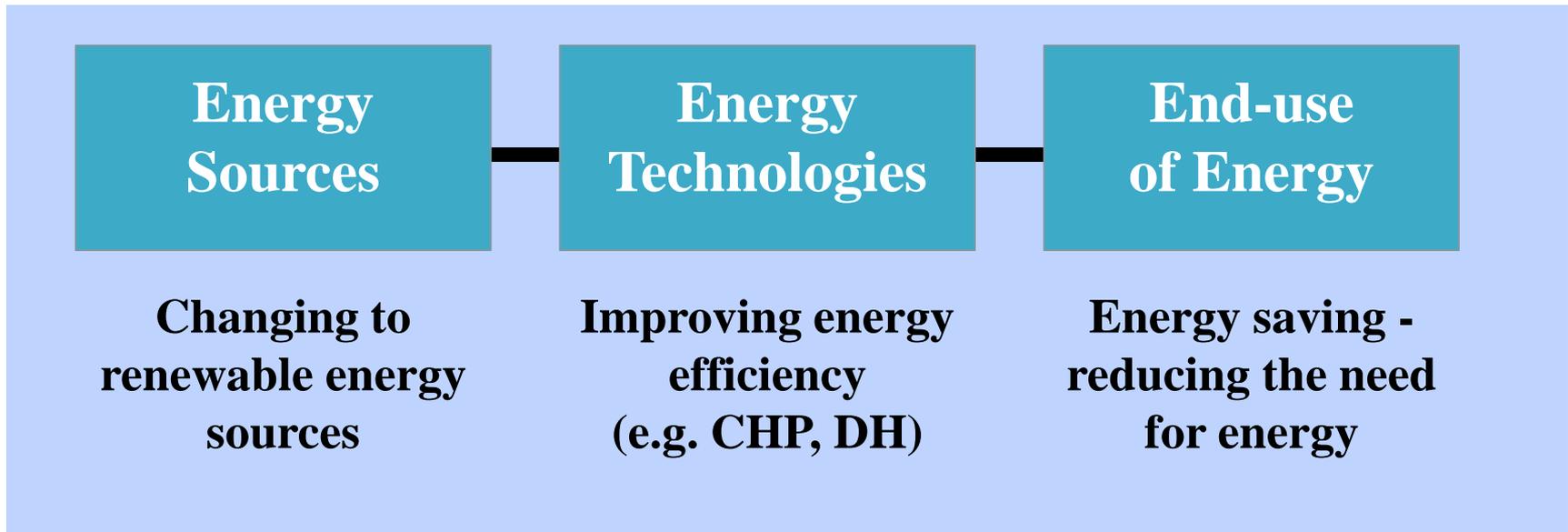
Conversion and transmission

End-use

System approach: The three subsystems of an energy system

Energy System Approach

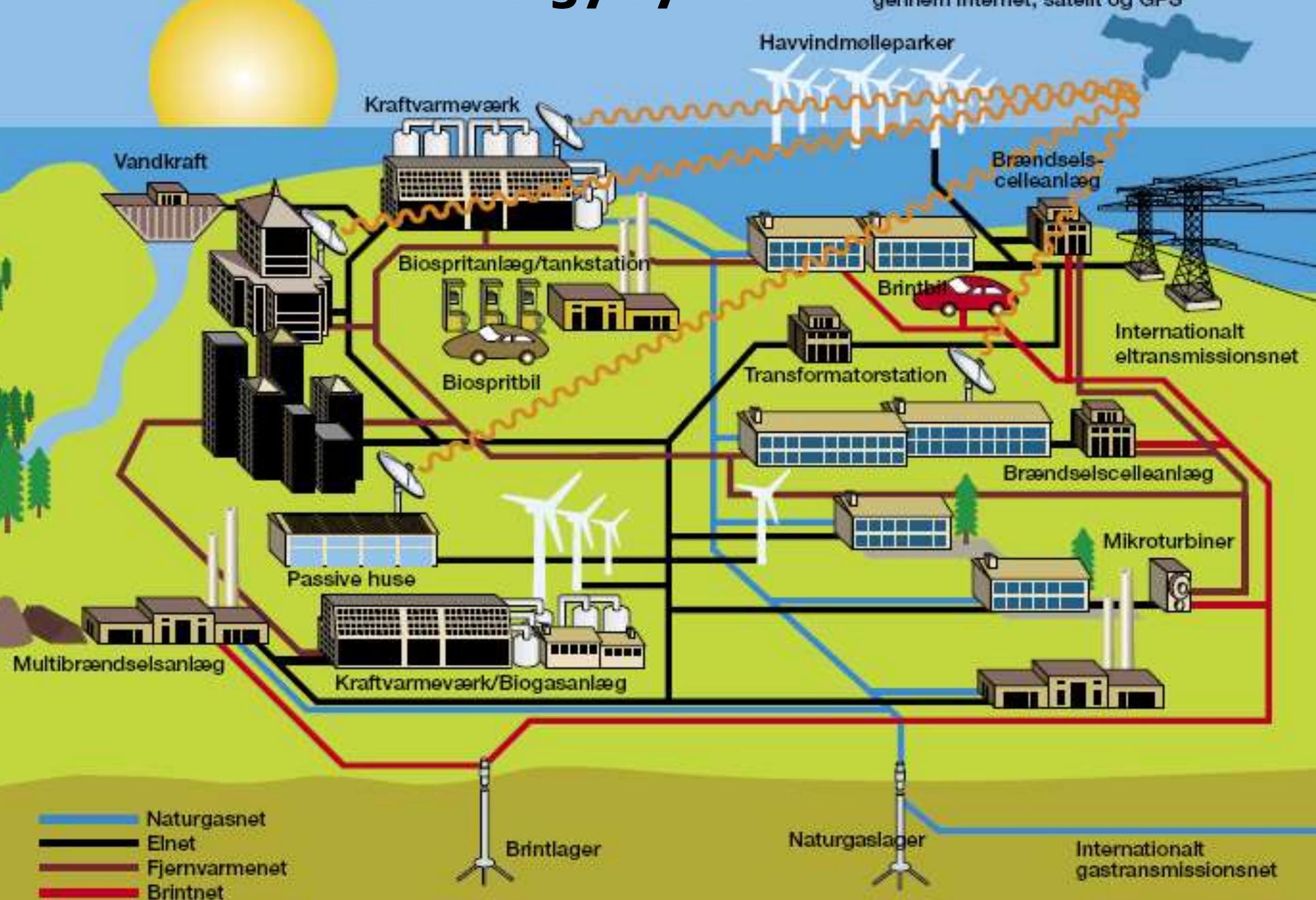
3 subsystems → 3 CO₂ reduction approaches



**Energy/value chain → Integrated approach:
Coordinated change in the sub-systems
Optimizing system efficiency and investments**

The distributed energy system

I det intelligente enerisystem kommunikerer producenter, distributører og forbrugere gennem internet, satellit og GPS



Bioenergy as a key element

Energy system - Fluctuating sources

Development of an entirely new type of energy system

Unpredictable
energy sources



Balancing



Wind power

Predictable
energy sources



Biogas

Reliable
energy sources

Unreliable
energy sources

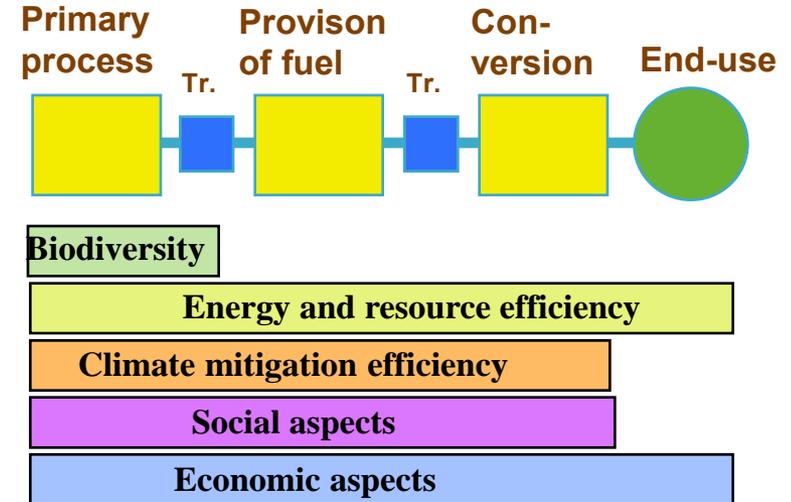
Sustainable Development

»... a development that meets the needs of the present without compromising the ability of future generations to meet their own needs« (Brundtland Commission, 1987)

There is a need to develop a specific concept related to the specific topic or sector.

Bioenergy criteria should be based on the EU Renewable Energy Directive and cover:

- **Biodiversity** (primary process)
- **Resource efficiency** (primary process)
- **Energy efficiency** (whole chain)
- **Climate mitigation efficiency**
- **Social aspects**
- **Economic aspects**



Bioenergy Programme

Regional bioenergy programme

- **Promotion of bioenergy**
- **Mapping the present biomass potential**
- **Preparing 18 bioenergy installations**
- **Feasibility analyses**
- **Mobilizing non-used biomass and energy crops**

Regional Bioenergy Programme

2012-2014



Demonstration projects



WHY Bioenergy Strategy

- **Climate change - reducing greenhouse gas emissions**
 - **Energy supply security - reducing dependency on oil and natural gas (prices)**
 - **Future energy system - utilising regional energy resources, creating a green economy**

 - **Latgale programme 2017:**
Green energy is a priority
-

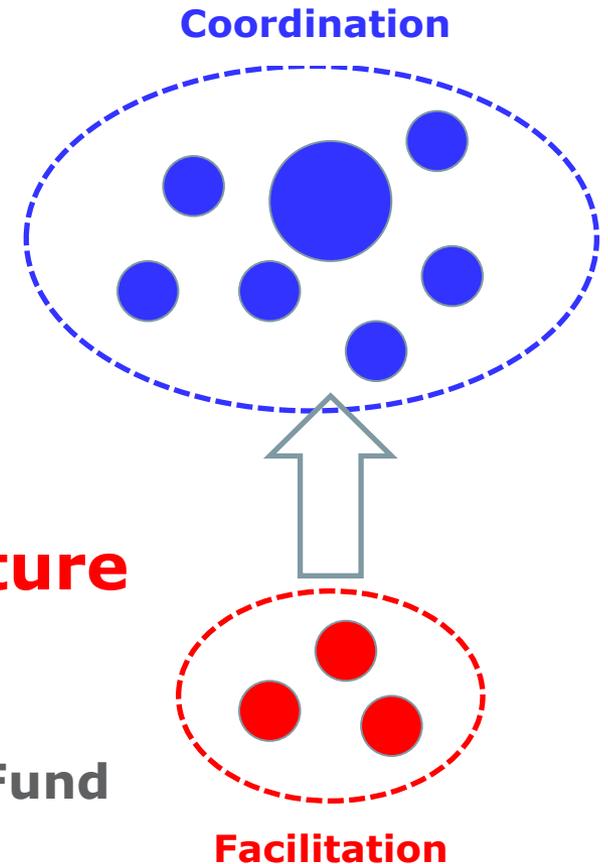
HOW Bioenergy Strategy 1

- **Regional cooperation**

- Planning region
- Municipalities
- Agriculture: Farmers' association
- Forestry: Foresters' association
- District Heating companies

- **Capacity / Supporting structure**

- Universities
- Rural Support Service
- Latvian Environmental Investment Fund
- other actors?



HOW Bioenergy Strategy 2

PRINCIPLES

- All bioenergy issues
- Mapping the present biomass potential
- Long term perspectives (2020, 2050)
- Involvement of all key actors

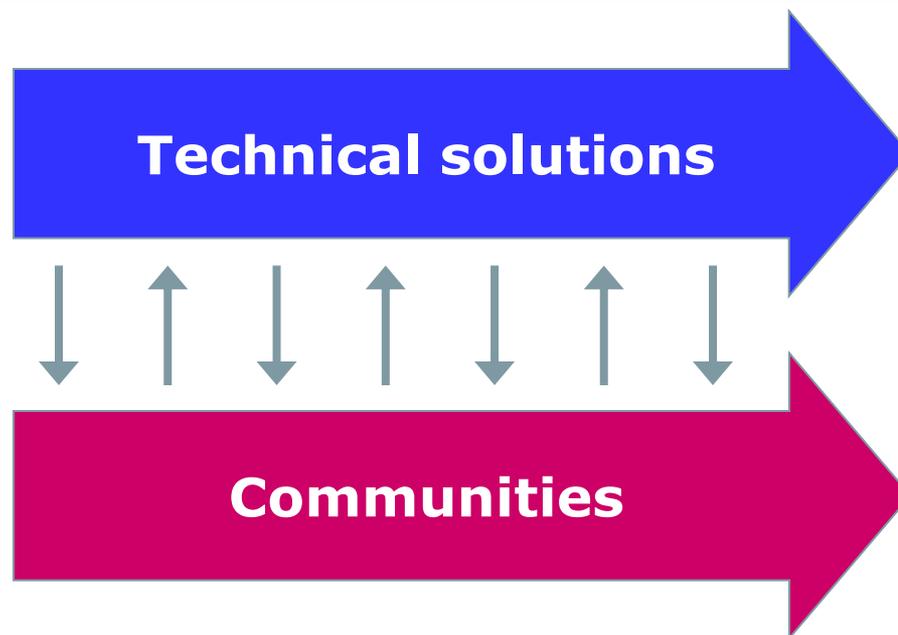
"PLAN"

- Vision and objectives
 - Strategic actions
 - Implementation approaches
-



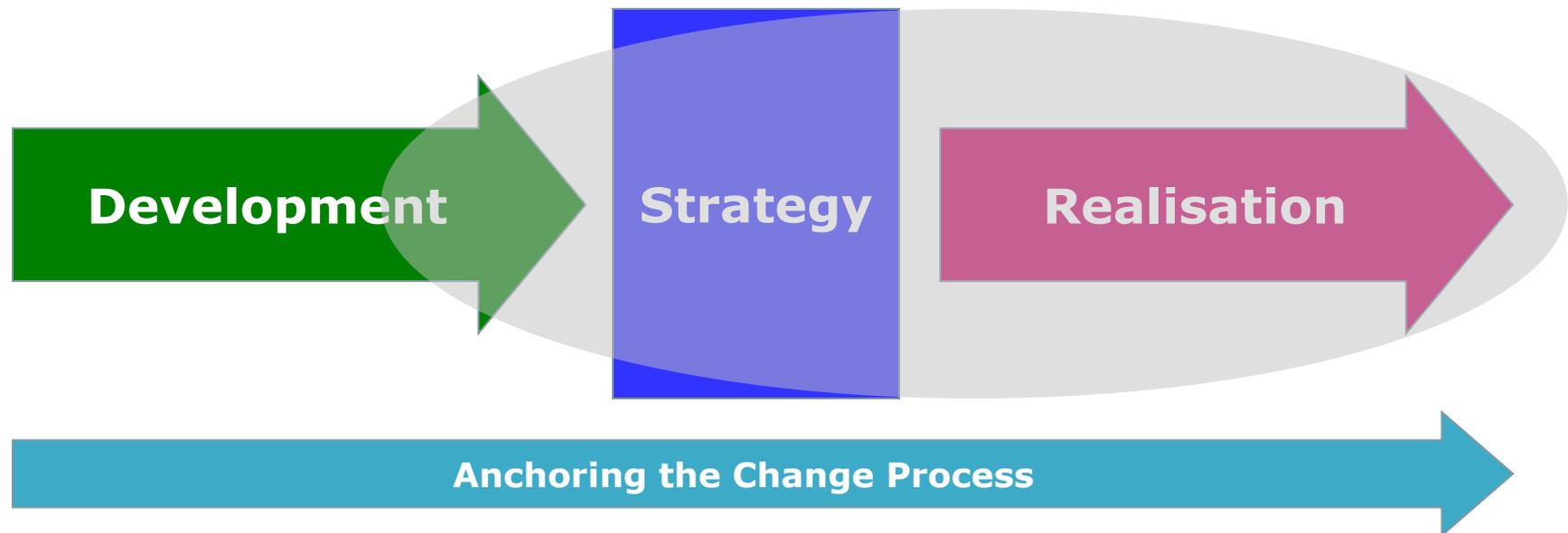
Renewable energy technologies and energy systems Economy and environment, Spatial planning

- **Technology-track** for planners and energy experts
- **Community-track** for local actors



**Involvement and ownership, Local knowledge
Awareness on renewable energy and climate**

- **Focus on implementation already when preparing and during the strategy development process**



- **Actors, who participate in developing the strategy, also take part in the implementation**

Move your region!

Be ambitious and realistic

- Set ambitious targets and focus
- Develop realistic actions - that address needs in the region, mobilise human and natural resources and create new jobs

Innovation is not enough:

Implementation of mature technologies
+ Innovation of new solutions
= (Green) Economic Growth

Thank you for listening



Baltic Sea Region
Programme 2007-2013



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REGION
SJÆLLAND



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