



Coordination Action of the European Network of Territorial Intelligence

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<http://intelligence-territoriale.eu>



CONCEPTION OF A TERRITORIAL OBSERVATION AND PROSPECTIVE TOOL FOR ENERGY. THE CASE OF FUELWOOD

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Structure of the presentation

Introduction

Local actors' role

The need of DSS

The complexity of energy system

Demonstration

Presentation of an observation tool for local energy actors.

- The development of renewable energies
- The need of decision support systems (DSS) and observation tools

- The energy system
- Fuelwood and territory
- Complexity and fuelwood in a observation tool

- Demonstration

A global crisis

GLOBAL SCALE

Introduction

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Demonstration

Economy

Lack of resources

Global augmentation of the demand

Rise of prices

Policy

Fields precisely geolocalized and geographically concentrated

Dependance towards producing countries

Environment

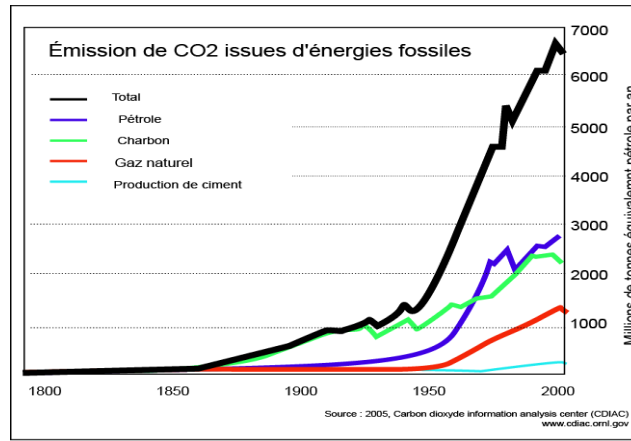
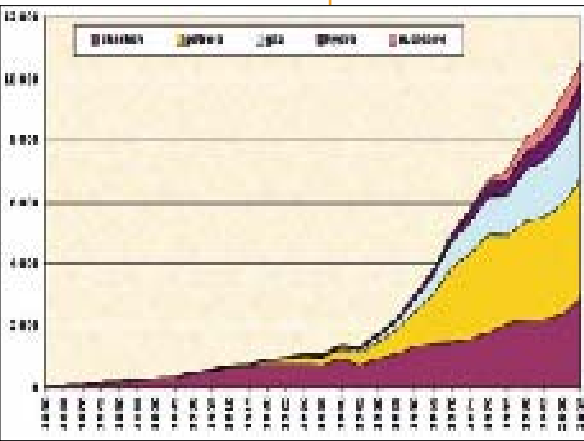
Resources surexploitation

Augmentation of greenhouse gas

Social

Energy poverty

(disproportionate burden of energy costs which reduce the funds available for food, clothing, Medicine and other basic necessities)



The research program OPTEER

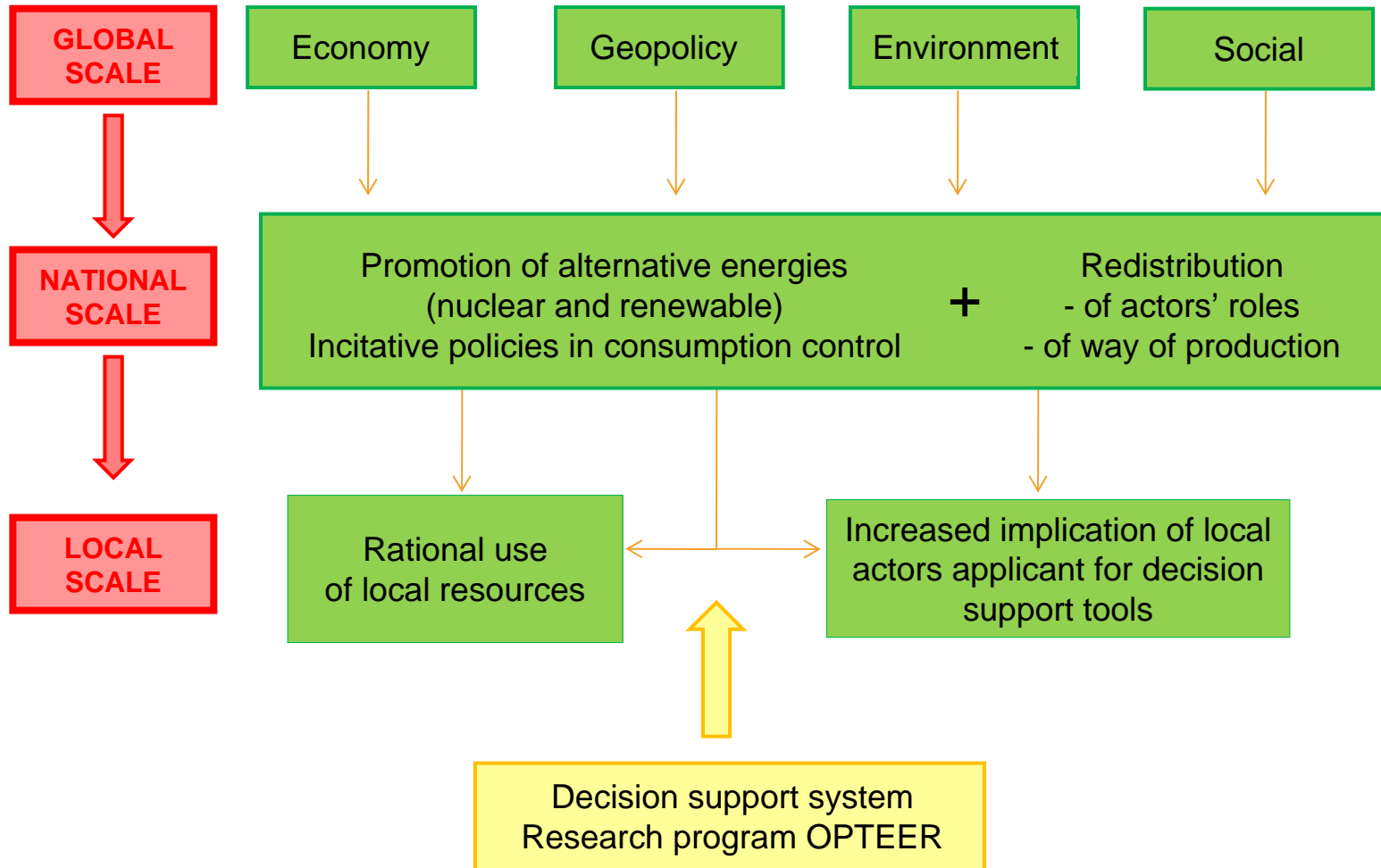
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The increase of local actors' role

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Demonstration

- A climatic and energetic revolution **cannot be only implement of State.**
- Whether energy policy has been until now essentially formed at a national level, we need to **involve local governments** in struggling against global warming, by giving them technical, juridical and financial tools.
- Thus, **local governments' competences** have to be clarified or even consolidated.
- **Local characteristics** (climate, resources, housing, planning) lead us to think that same purposes cannot be accomplished by the same way everywhere on the territory.

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An energy decision support system :

- is **a tool** used by « *energy planner, policy maker or other decision maker to make more balanced choices* »
- has to take into account **territorial specificities**
- have to be able to make **simulations** and test some **possible scenarios**

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Demonstration

- Data organisation and sharing
- Energy and context data
- A dual approach
 - **by sector** (fuelwood, wind, geothermy...)
 - **by chain** (potential, production, consumption...)

Territorial energy system

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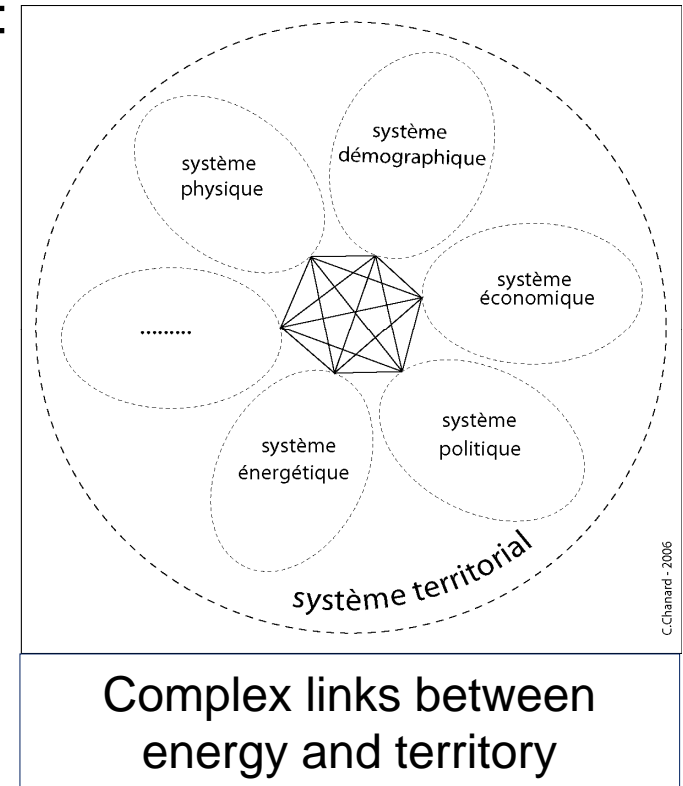
The complexity of energy system

Demonstration

The territorial energy system :

- potential,
- production,
- consumption,
- sectors

→ Depend on territorial specificities and actors



The choice of fuelwood example

Introduction

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**The complexity of
energy system**

Demonstration

- Several actors of the sector and financial partners show a real interest to this project
- Fuelwood become a strategic component from alternative energy system
- Fuelwood sector is still considered through a very sectorial and fragmented way

Fuelwood and territory

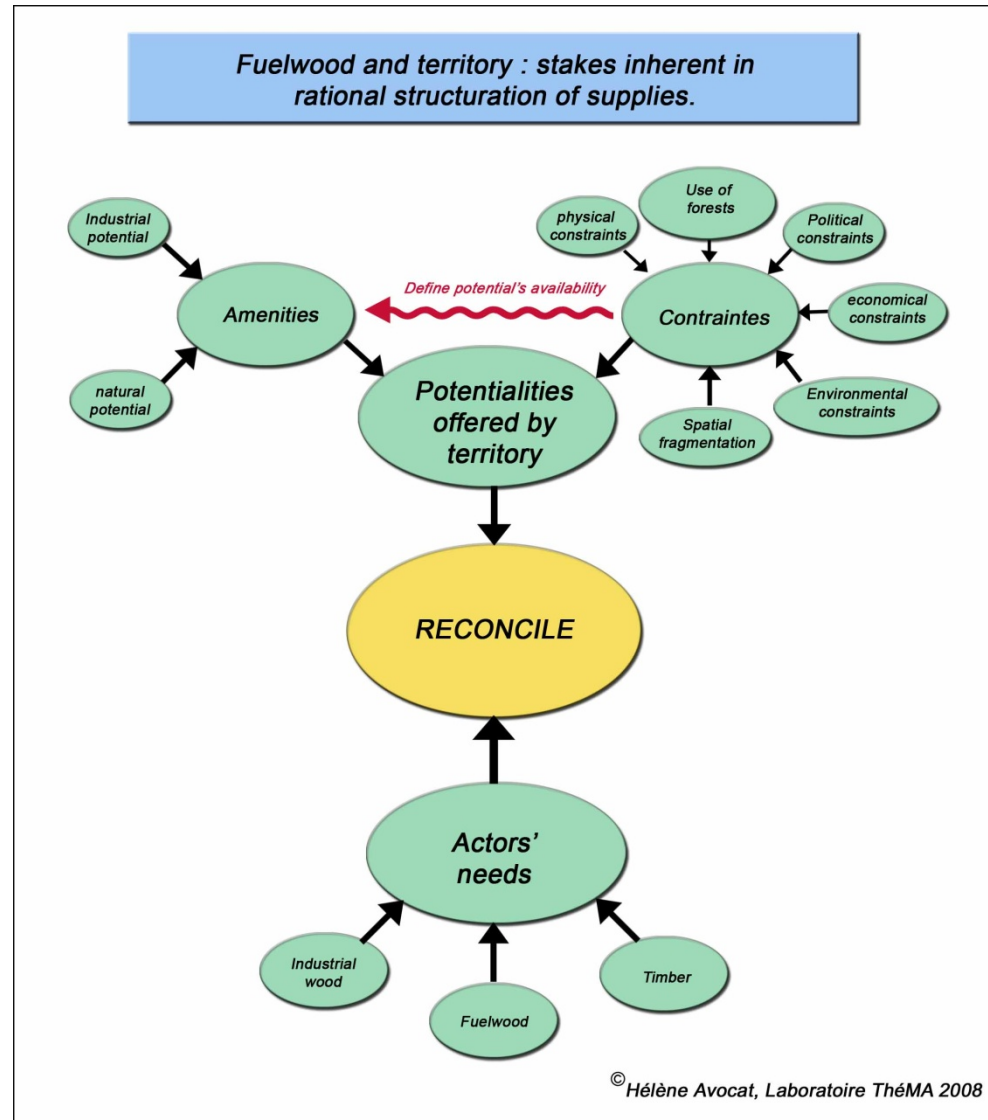
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Demonstration

Integrate complexity inherent in
energy system, and especially in
fuelwood sector in a DSS.