

# **Challenges**

### **WHAT**

- Priorities
  - Selection of vectors
  - o Methodology of approach
  - Observatory

#### **WHO**

- Government
- Municipalities
- Stakeholders
- Citizens

## **HOW**

•21 Agenda

#### **WHEN**

Very critical!



# What

## **Top-down approach:**

Knowledge, Planning, Regulation

- Environment
  - <sub>o</sub> Territory
  - <sub>o</sub> Energy
  - $_{\circ}\,\text{Materials}$

top-down

- <sub>o</sub> Water
- <sub>o</sub> Wastes
- Social-Economical

## What

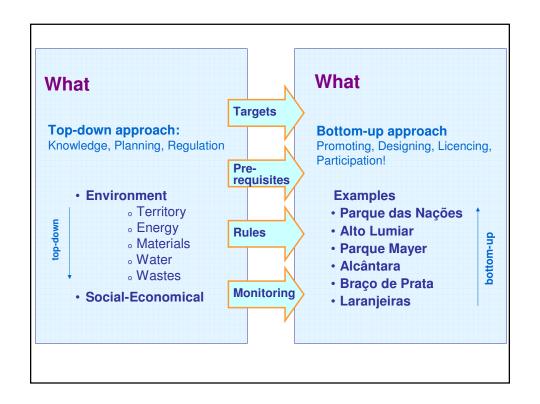
## **Bottom-up approach**

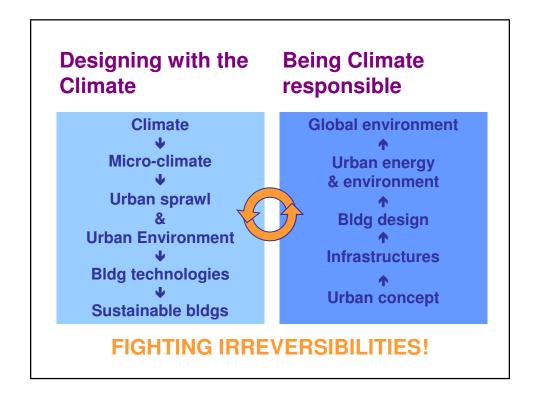
Promoting, Designing, Licencing, Participation!

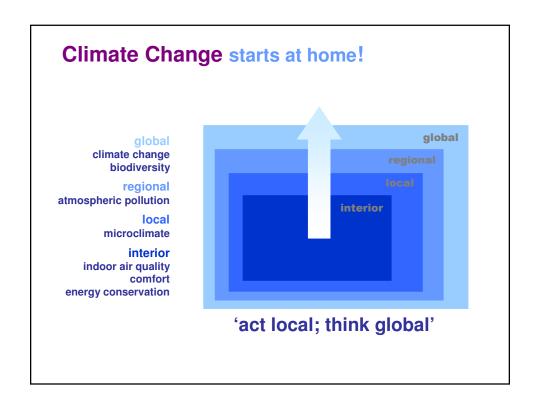
#### **Examples:**

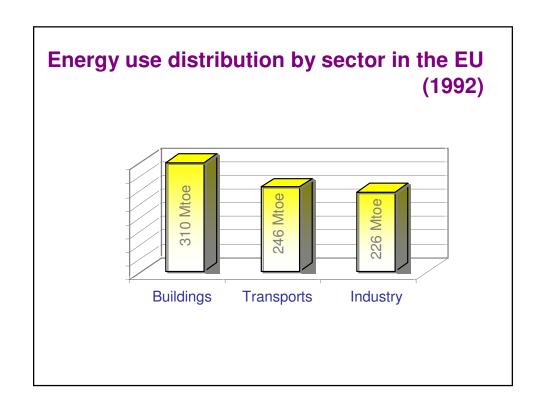
- Parque das Nações ✓
- Alto Lumiar
- Parque Mayer
- Alcântara
- · Braço de Prata
- Laranjeiras

**Bottom-up** 









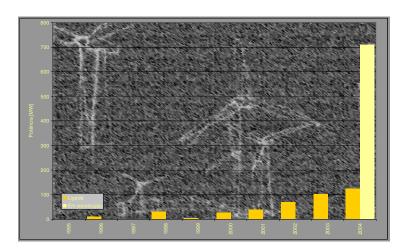
# Who

**Top-down** - some actions are better planned at Government level

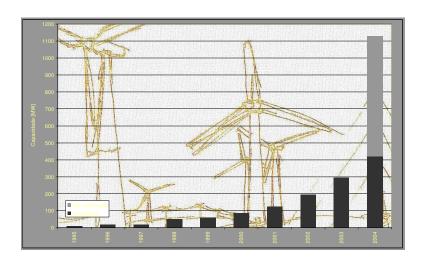
## **Bottom-up approach**

- citizens
- stakeholders
- the role of cities

# E4: Wind energy impact I (electricity)



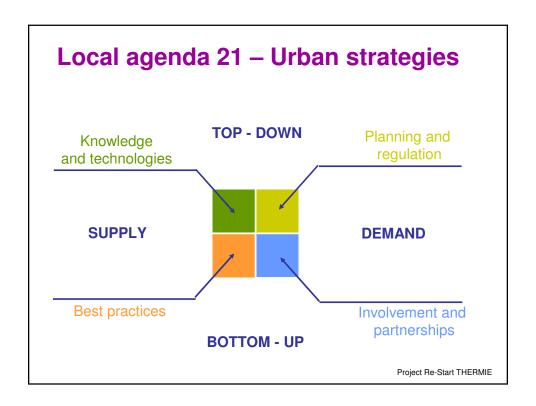
# E4: Wind energy impact II (electricity)



# How?

# **Local Agenda 21**

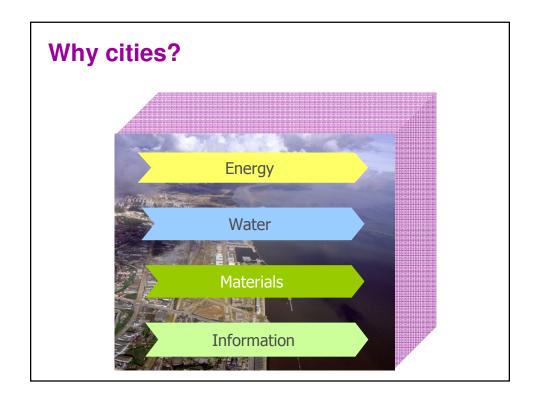
- not as a report but as pathway or as a process
- not as something done but as a permanent teaser interpelling every actor at any time.

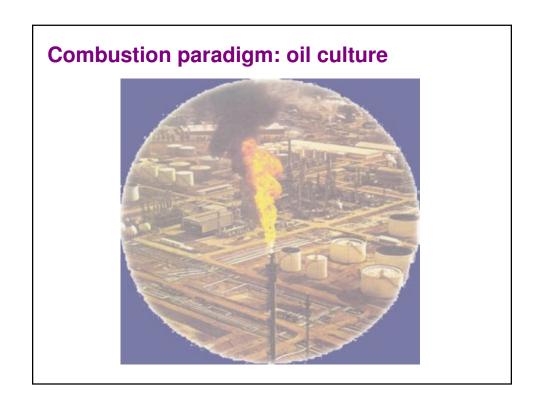


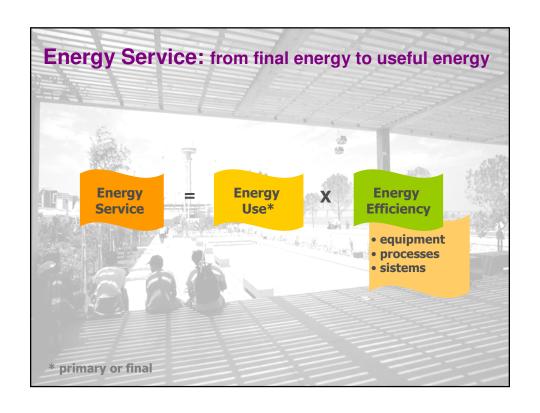
# **Specific Actors**

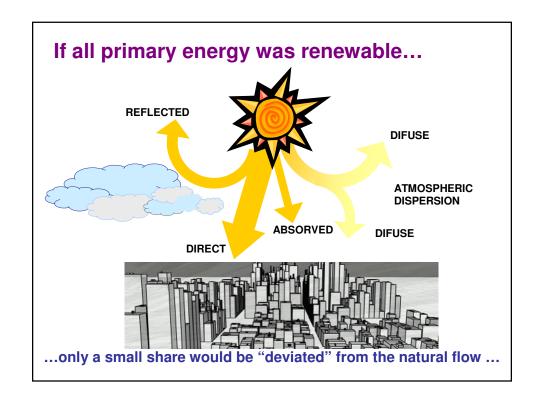
#### **Energy Agency**

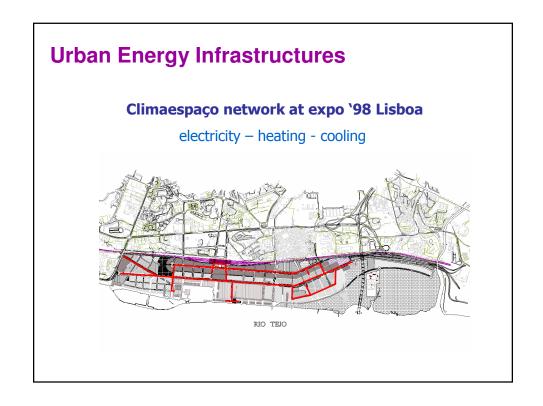
- It is doubtful that an energy agency can be justifiable on a municipal basis for the generality of existing "municipios"
- That is not the case of Lisboa
- The Agency must be seen not as a Department but as a Forum with the stakeholders
- A crossroad where vision and integration and sustainable approaches are due.

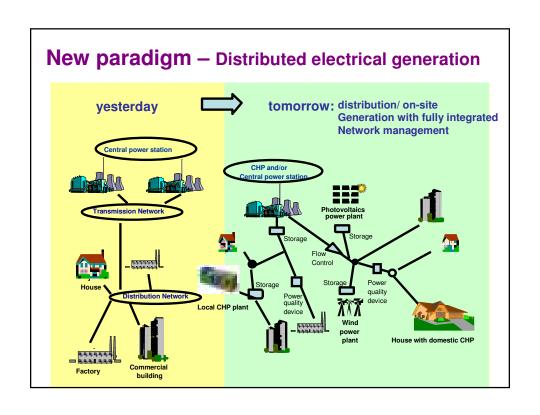


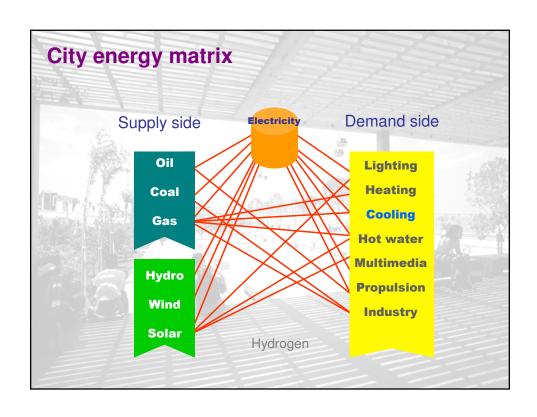




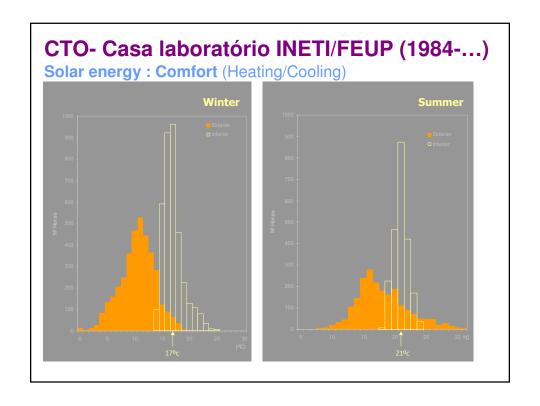


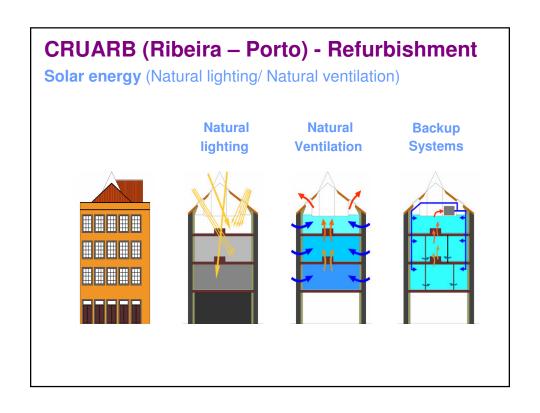












# PLEA'88 Building in Vila do Conde

(social housing)





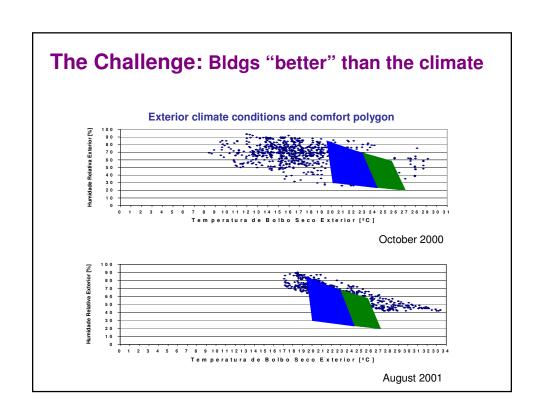
# PLEA'88 Building in Vila do Conde Fracção AQS Solar 20% Final energy Energia Solar 20% Electricidade 30%

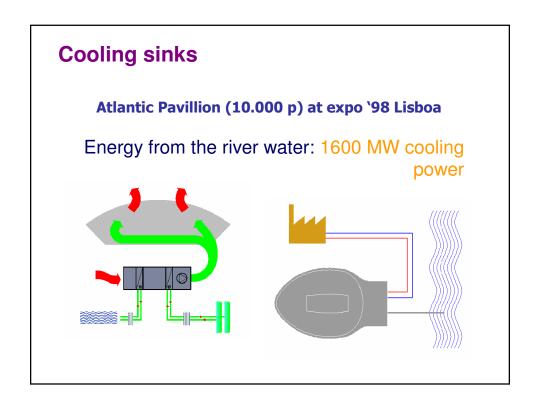
### **Edifício Torre Verde at EXPO**

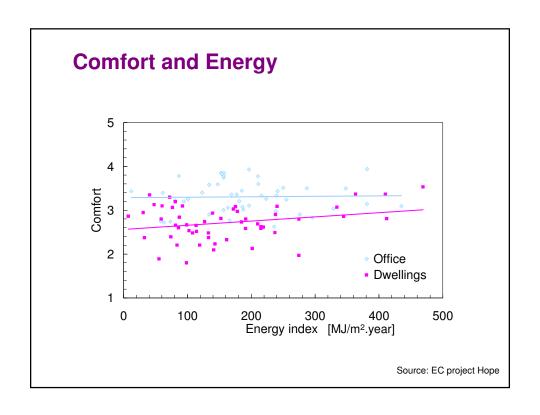
Fracção AQS Solar é 20% do total











## **Conclusions: Sustainable strategies**

- Concepts, methods & tools
- Domains, sectors and vectors
- Context, status and targets
- Knowledge, commitment & consistency
- Public procurement and top-down due actions first
- Stakeholders and citizens involvement
- · Observatory, reporting and diffusion

## THANK YOU.