Session D:
Urban mobility, environmental and social impacts

Sylvain Houpin
Blue Plan
Environmental and social impacts in Mediterranean cities

Issues of environmental and social impacts

Presentation of the session
Environmental and social impacts in Mediterranean cities

A singular “eco-region”

- 46 000 km of coastline, 10% of vegetation species, 7% of marine species
- 430 M inhab., 7% of world pop., 13% of world GDP,
- 8% of CO2 emissions (increasing).

Source: Plan Bleu
An urban model in crisis almost everywhere

Some serious consequences for the environment

- An extensive land artificialization of natural areas and agricultural lands (wetlands, forests, coastal)
- Growing pressure on wetland (poor sanitation, inadequate waste management, pollution of groundwater)
- Air pollution domes (photochemical smog) already almost permanent in many cities: Athens, Cairo, Genoa, Barcelona and Marseille-Aix …

2/3 of the Mediterranean are living in urban area… They will be about 3/4 by 2030

Photos: Le Caire, UN Habitat
Environmental and social impacts in Mediterranean cities

The Mediterranean, « hot spot » of global warming

**IPCC Projections IPCC for the Mediterranean**

1980-1999 vs 2080-2099, A1B scenario

- Temperature increasing between 2.2 and 5.1 °C
- Rainfall decreasing between 4 to 27%
- Violent events increasing (droughts, floods)

*Source: Somot & al.*

**Surface air temperature (°C): 2070-2099 vs. 1961-1990 Summer**

A strong car and road dependence

- A marked recession of the use of public transportation;
- Congested transit system;
- Constant increase of informal systems (taxis, minibus ...)
- Fast growth of car ownership: the prospect of a mass motorization by 2020;
- A dilapidated state of individual and collective vehicle fleets;
- An almost total absence of soft modes (except for walking).


An increasing primary energy demand for the transport sector

Some GHG emissions progressing more quickly than the world average

A growth rate, in the Southern and in the Eastern countries exceeding by twenty points the World trend.

The demand of primary energy could be multiplied by 1.5 in the Mediterranean Sea by 2025

The growth rates of the demand of primary energy for the Southern and the Eastern countries is four times higher than the Northern countries
A progressive awareness on sustainable urban mobility issues ...

... but for all to carry on

- missing or partial datas (GHG, particles)
- insufficient consideration of environmental impacts (eg. health stake)
- unsustainable consumption modes (urban sprawl and automobile dependency)

Photos: Plan Bleu, AFD, ATMO PACA
3 axes to explore:

- *Local pollutions and urban quality of life*
- *Urban transit facing global warming issues*
- *The socio economic issues of urban transport*
How to improve knowledge?

What sort of hazards (Air quality, noise) is there?
What are the impacts (Public health, economic evaluation)?
What are the tools for monitoring and evaluation?
What are the health and environmental indicators?

What issues are involved?

For the people (public health …)
For the urban dynamics (attractiveness, urban sprawl …)

How to act on the emission sources?

How to influence individual and collective behavior?
How to promote technical innovation?
Issues of environmental and social impacts

Urban transit facing global warming issues

How to carry on awareness?
By the knowledge improvement (territorial approach of emissions)
By estimating the economic impacts of fossil fuel consumption?
By economic evaluations of the non-acting cost? (energy, trade balance, territorial competitiveness)

How to influence behavior?
By giving priority to demand management, controlling urban sprawl before supply based approaches?
By promoting public transports rather than car?
By speed management?

How to promote technological innovation?
In order to facilitate the models and concepts renewal (urban, telecommunications, lifestyles)
In order to facilitate the dissemination of “carbonless” technologies
What about accessibility in the Mediterranean cities?

How to reduce spatial and social segregation?
Which preferential prices for public transportation?
What is the real cost of commuting for households?

What are the transport sector challenges’ in local economy?

What sector weight in the local economy? (employment, education needs)
How to act on the informal sector?
Gender issues in public transport?
Session C

Structuring transit system and urban integration

Presentations:

- Dominique Robin, ATMO PACA France
- Mme Kawthar Hefny, EEAA, Cairo
- M Edouardo Croci, Boconi University, Milano

Testimony:

- M Bernard Cornut, ADEME, France/Turquie

Publication:

- M Sylvain Houpin, Plan Bleu
More information

www.planbleu.org