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Developing Regional Sustainable Mobility A Proposal for a Methodological Framework

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Topics

- Some principles of sustainable mobility (SM)
- The local / regional perspective of SM: solving complexity
- A proposal for a methodological framework



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Some principles of Sustainable Mobility

EU White Book 2011, but not only

- Mobility is a major source of unsustainability: pollution, oil dependence, land's consumption, social disadvantages, landscape worsening, and so on.
- A sustainable and effective transport network is a prerequisite for economic development and employment.
- Urban planning and regional development dramatically affects mobility; disjointed planning is a primary source of unsustainable mobility in local areas.



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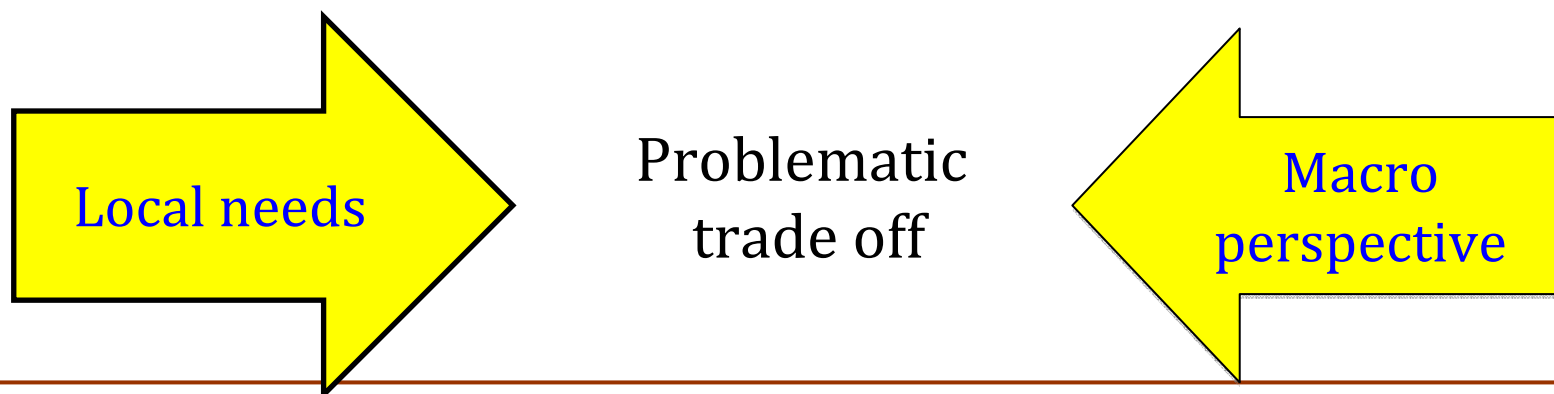
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Principles of Sustainable Mobility

- The actual sustainability of a mobility network depends on the specific economic, environmental and socio-demographic feature of the region. Each region / area requires a specific model of SM, thus a specific analysis and peculiar policies.





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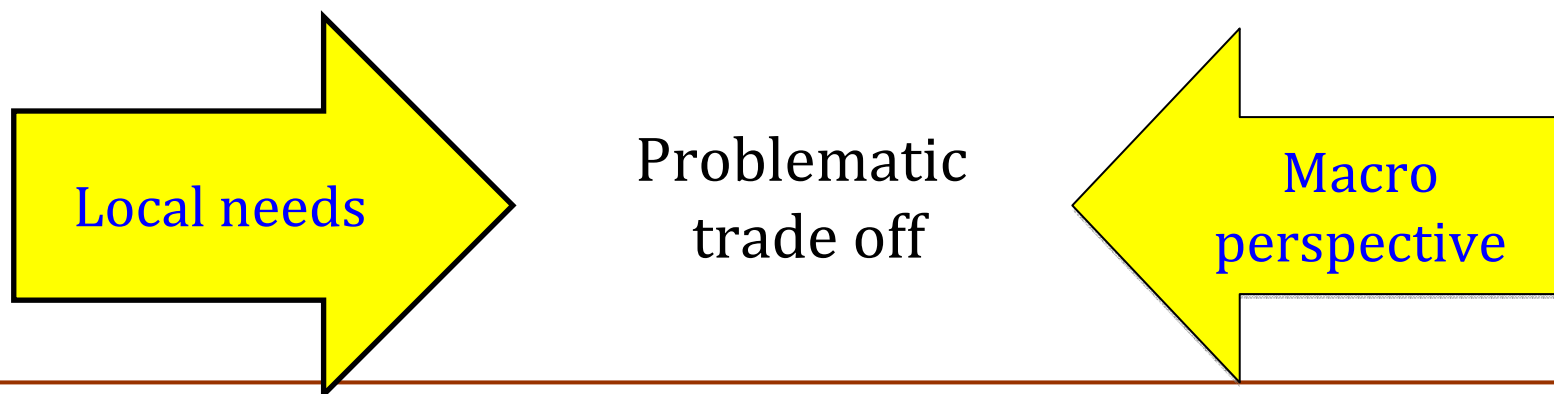
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The regional perspective. Solving complexity

- Statement 1: the perspectives and the evaluation parameters of a local mobility network vary significantly according to the scale of analysis and to the peculiarities of the region





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The regional perspective. Solving complexity

Example

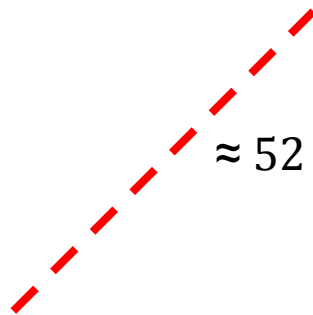




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The regional perspective. Solving complexity

Example

 $\approx 52 \text{ Km}$

London $\approx 7,1 \text{ mln}$

PD+VE+TV $\approx 2,7 \text{ mln}$





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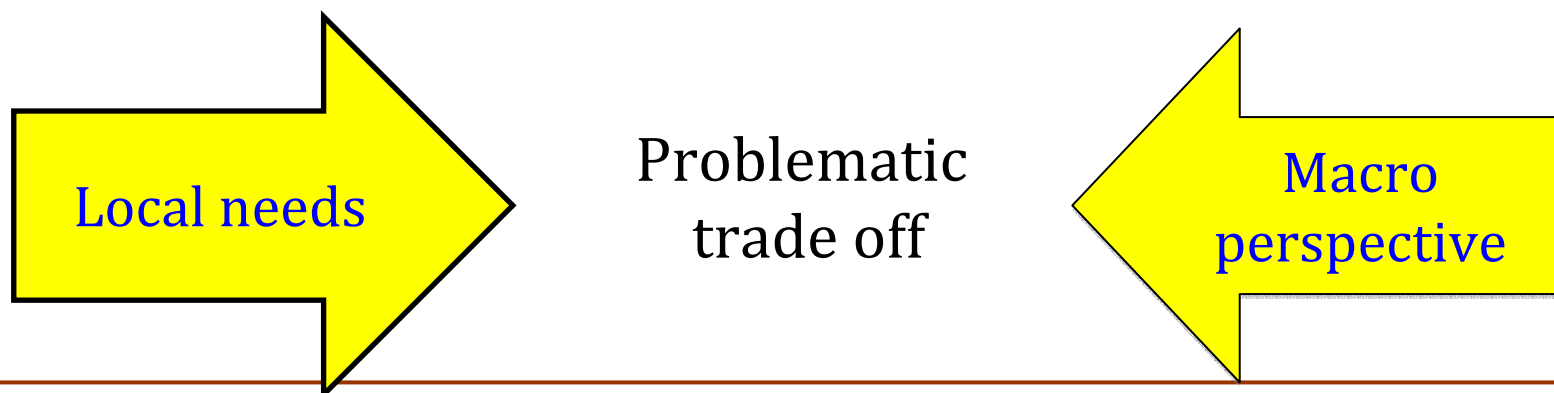
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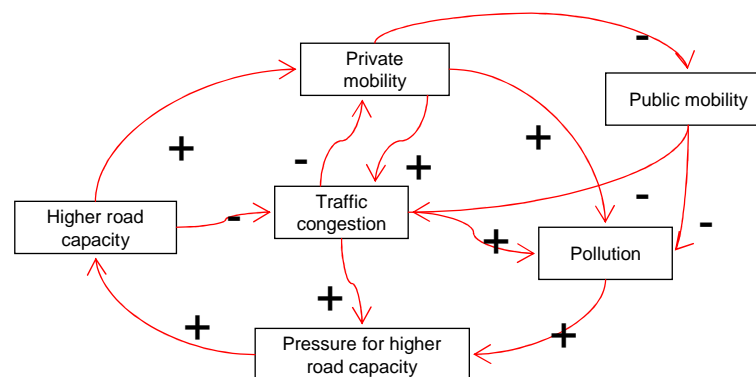
The regional perspective. Solving complexity

- Statement 2: coordination, as well as choosing the “right scale” level of planning, are crucial factors for the effectiveness of any SM program and for the development of the territory



The regional perspective. Solving complexity

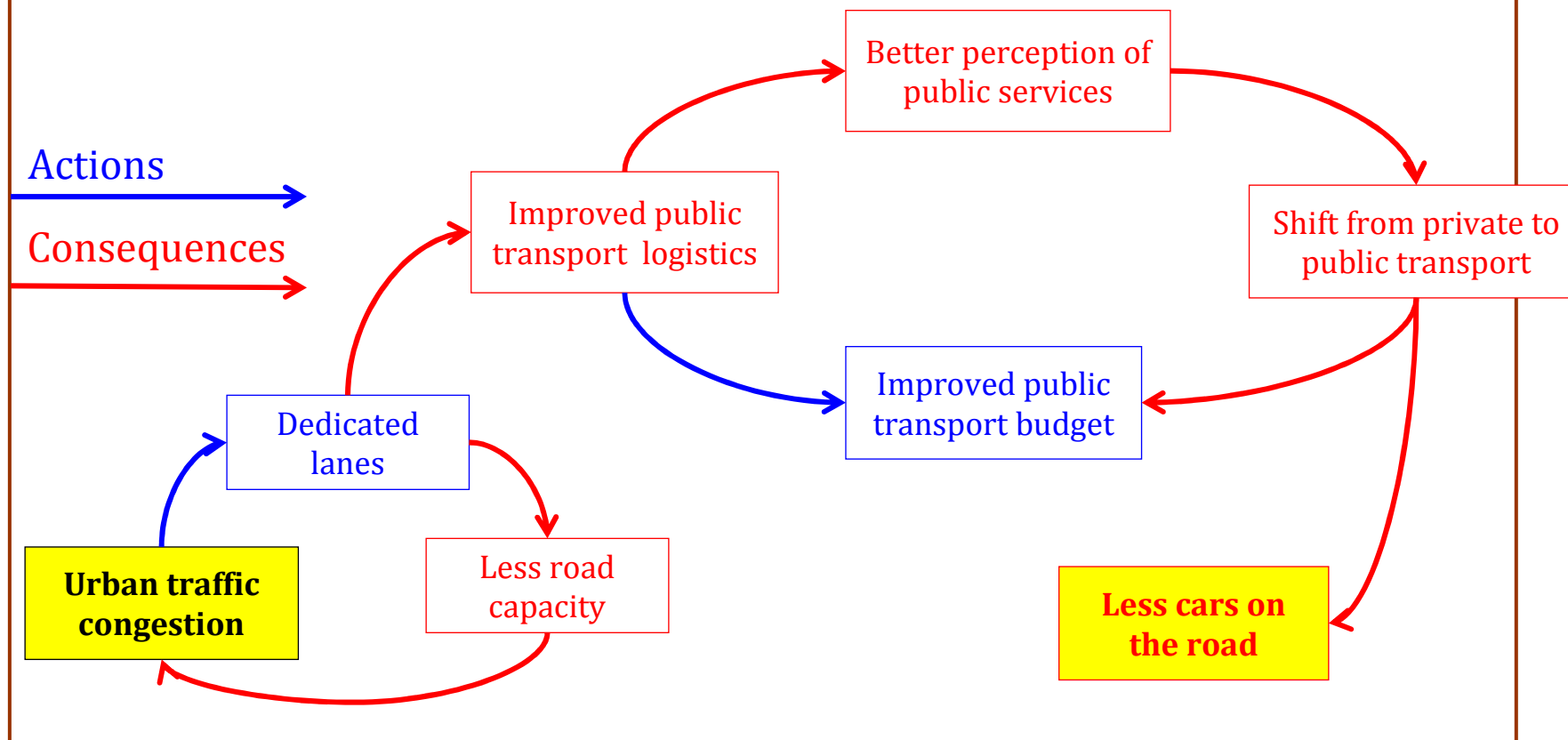
- Statement 3: cause-effect relationships between actions and consequences are everything but linear and simple. Social, economic and environmental factors interact in a non-linear way with several indirect relationships (complex systemic interactions)





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Solving complexity: an example





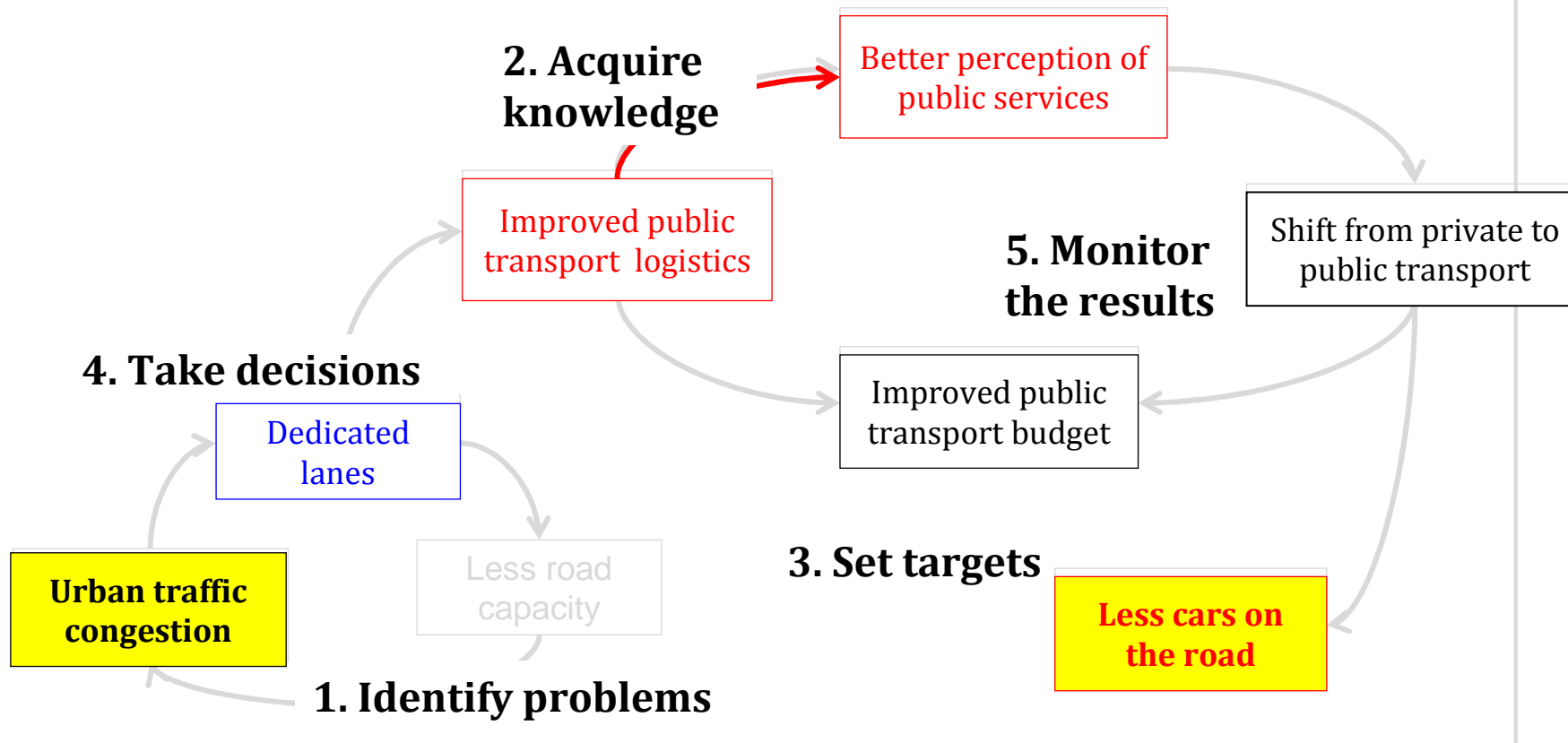
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Solving complexity: a proposal





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Methodological Framework for SM

A proposal

Meta-objectives
(principles)

Adopting a philosophy of a sustainable approach to regional planning and development, to feed sustainable mobility premises

Regional
criticalities

Economic, socio-demographic and environmental analysis of regional peculiarities, main problems and main opportunities

System map

Acquiring knowledge of the system dynamics and interactions between key-policy variables and consequences

Targets &
Actions

Defining priorities, setting goals, defining indicators for monitoring the implementation of policies

Monitoring &
feedback

Continuous monitoring of policies effects, feedback to policy makers



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Some causes of SM policies ineffectiveness

- 1. Excessive localism in problem analysis and target definition**
- 2. Tools-driven (instead of problem driven) actions**
- 3. Misleading feasibility analysis: under evaluation of coordination efforts vs investments efforts**
- 4. Lack of monitoring & feedback during implementation**





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Thank you for attention

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