

Block 1: Introduction to urban infrastructures

3. The main dimensions of urban infrastructures

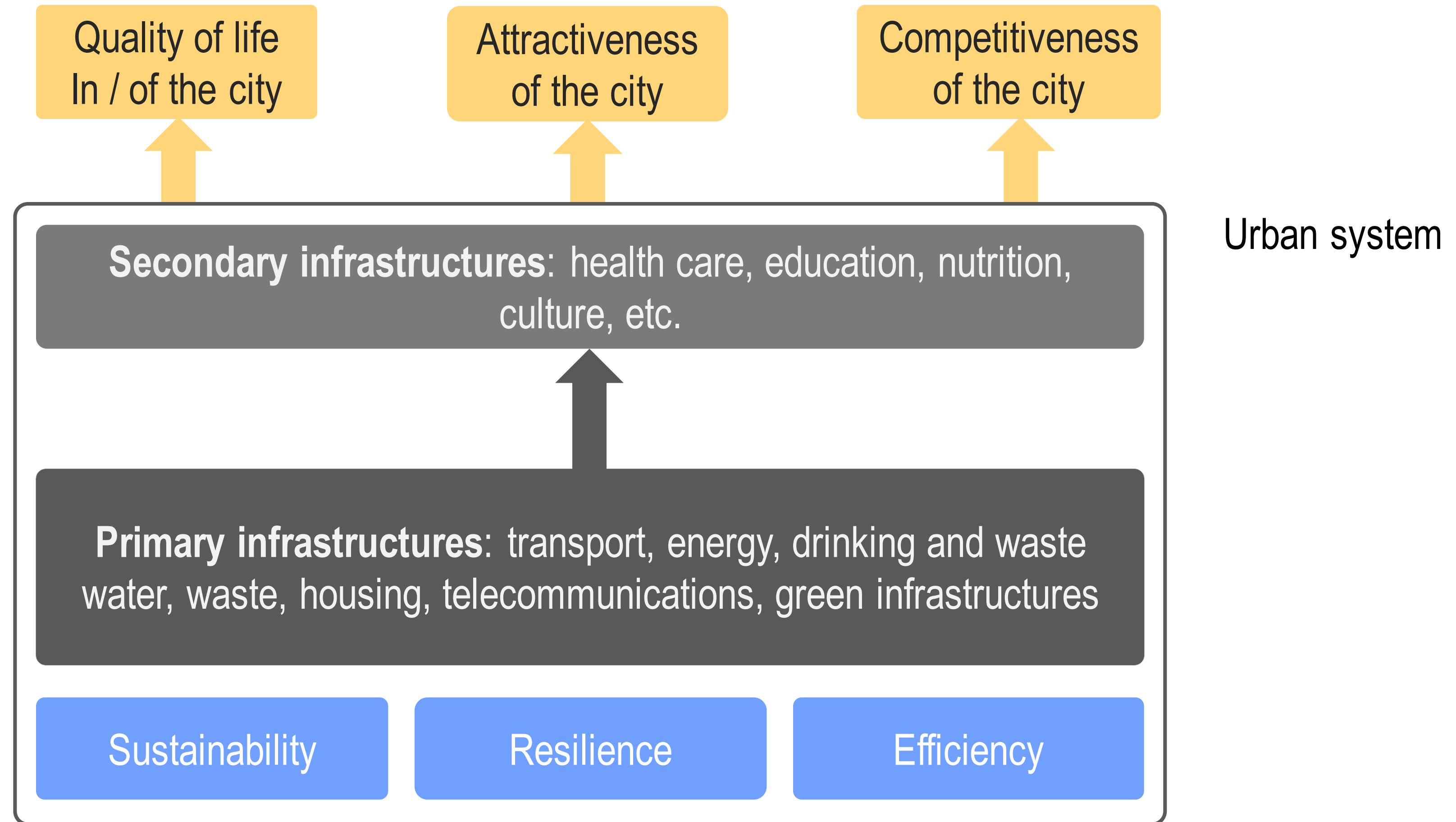
Prof. Matthias Finger

Session overview

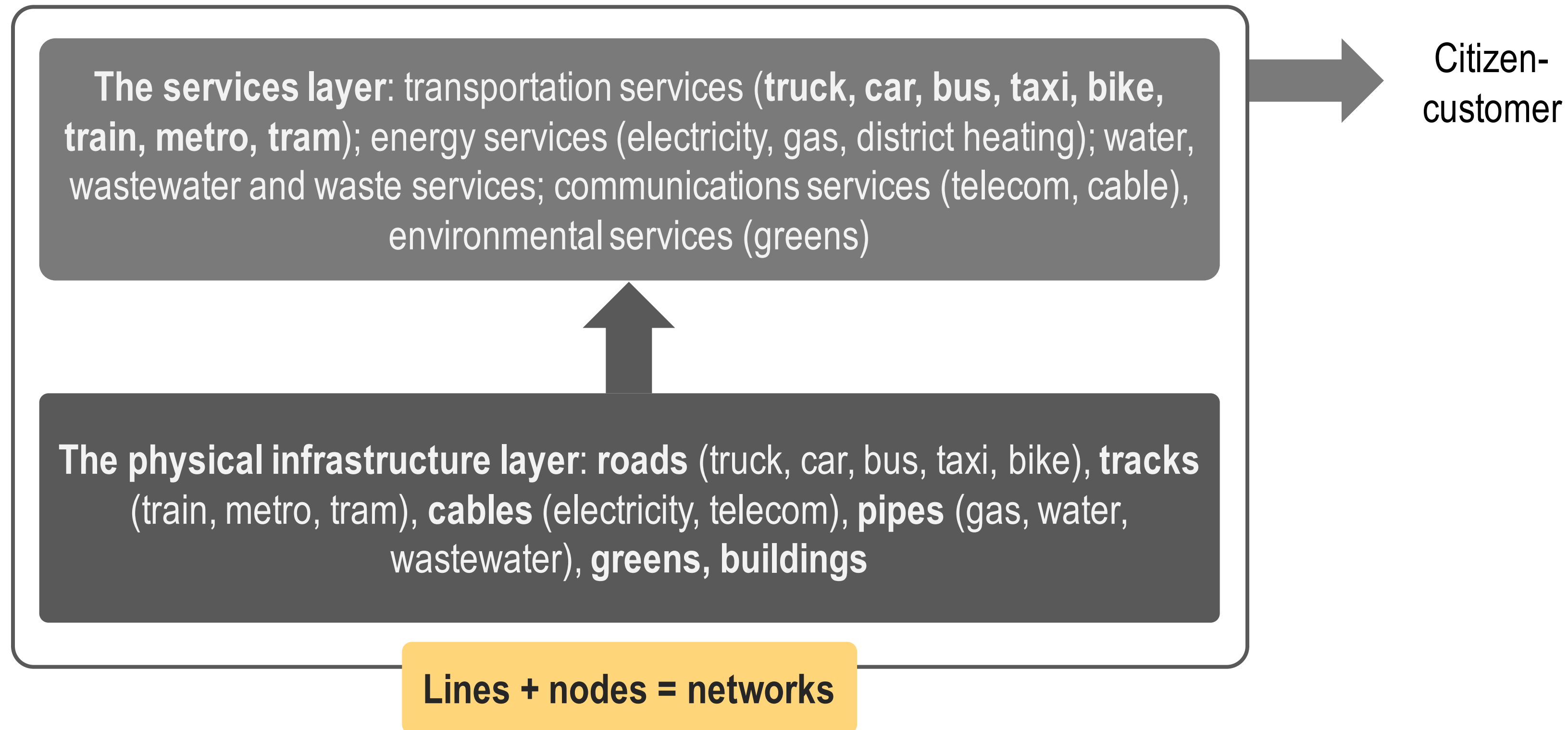
In this session, you will be introduced to the main dimensions of urban infrastructure systems; I will do this in three steps:

- Outline of our framework of city management and governance
- Presentation of the main dimensions of urban infrastructures, namely:
 - the technical dimension
 - the economic dimension
 - the jurisdictional dimension
 - the social dimension
 - the environmental dimension
- I will conclude by defining cities as dynamic socio-technical systems

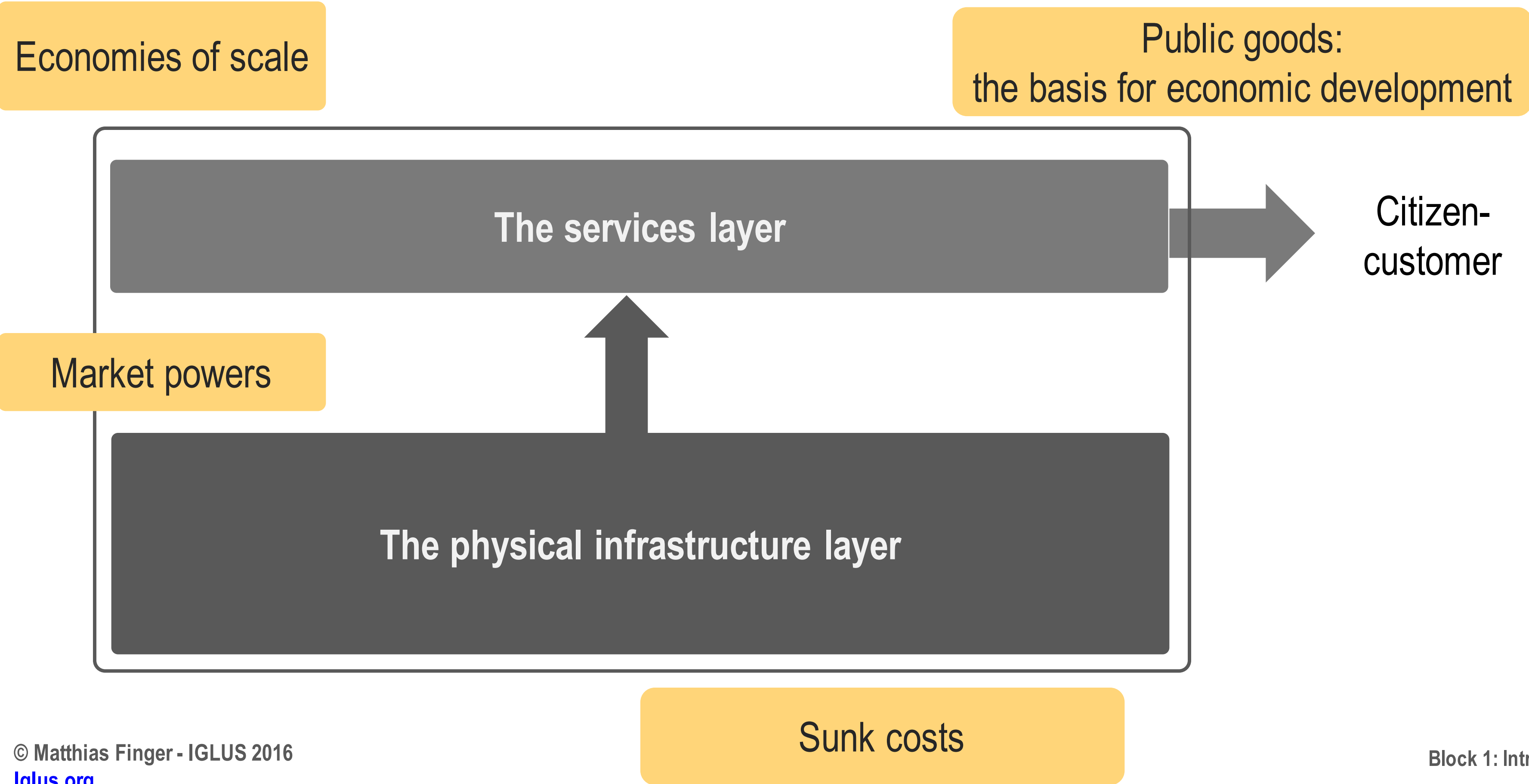
Our framework of city management and governance



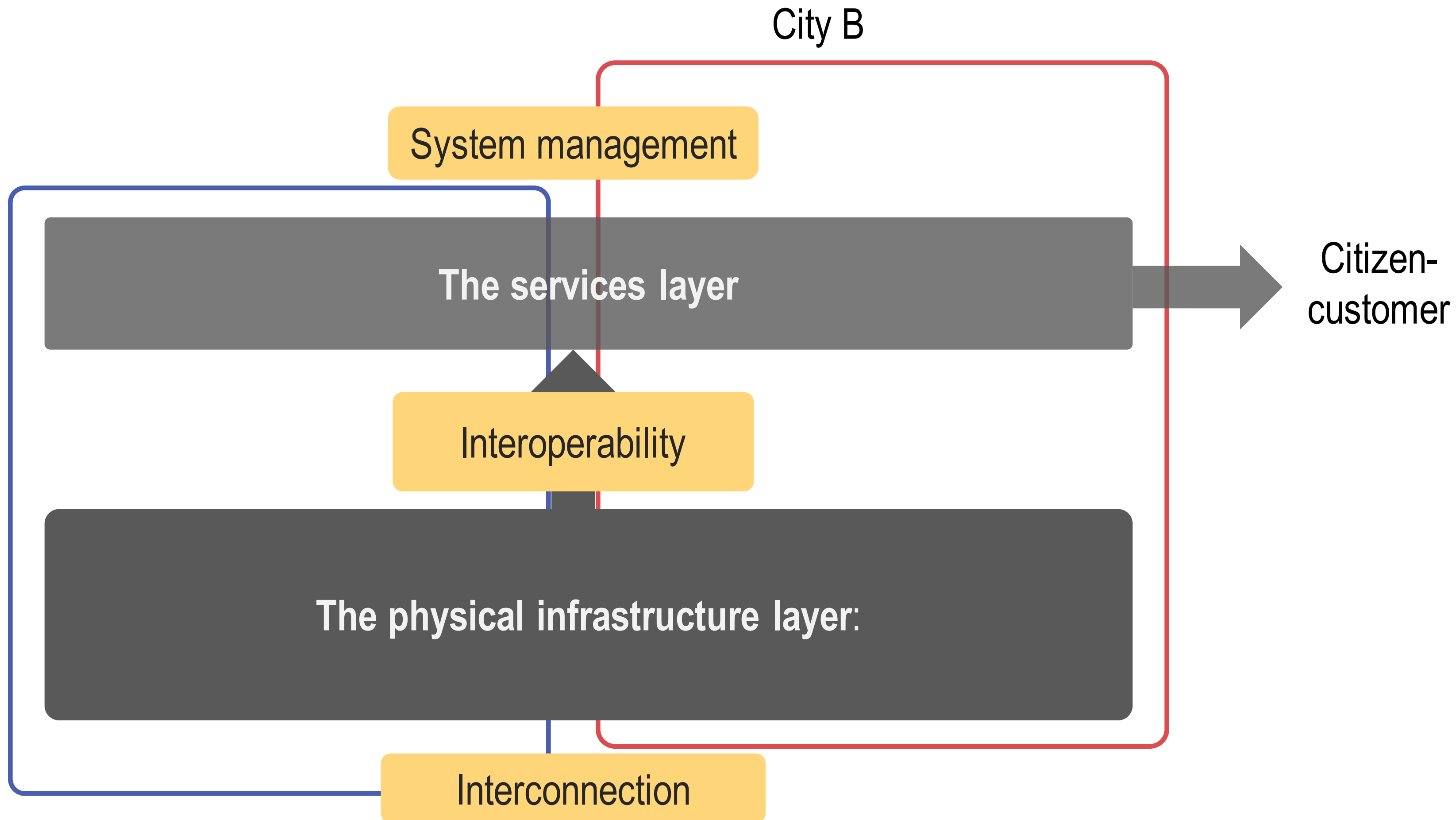
The technical dimension



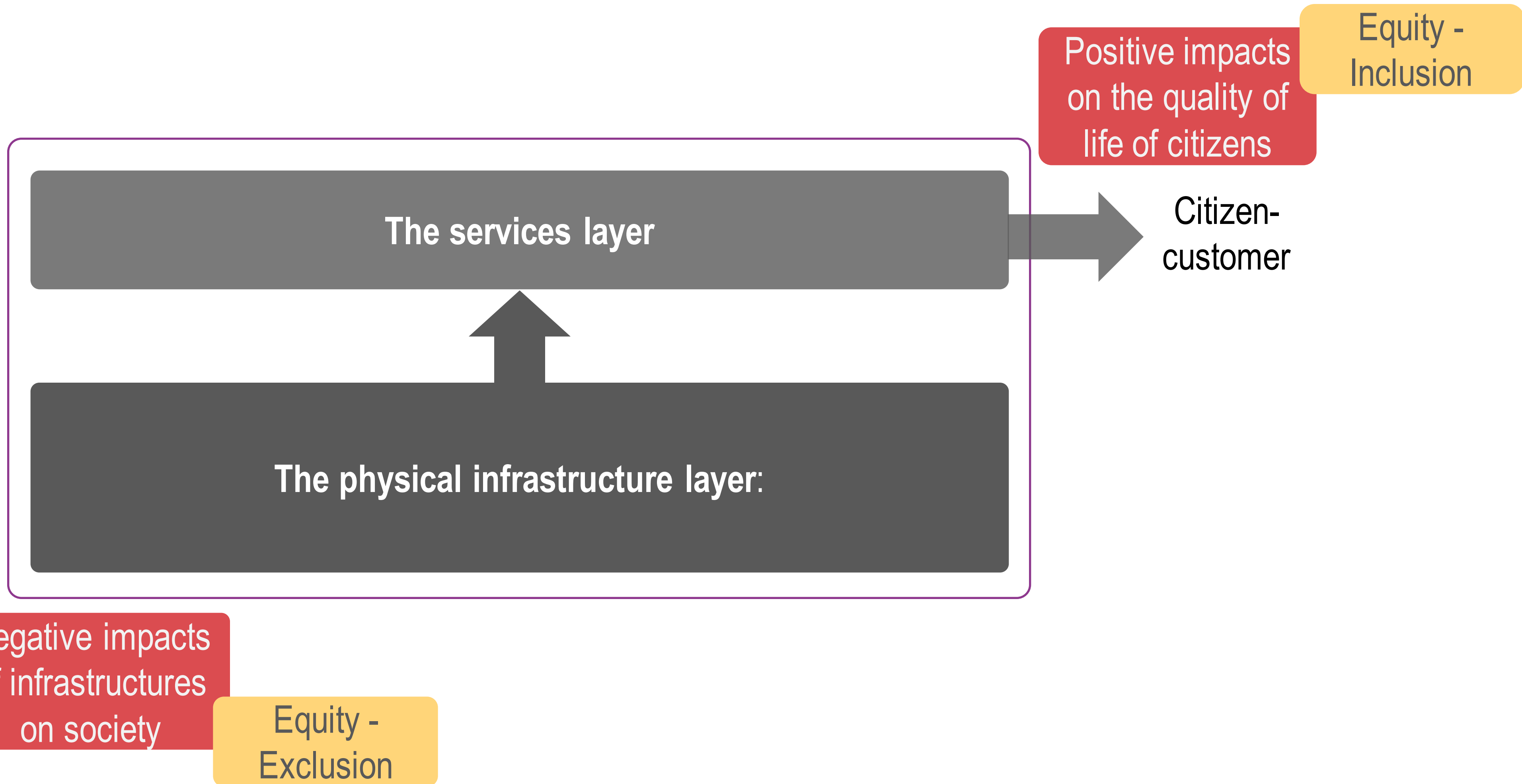
The economic dimension



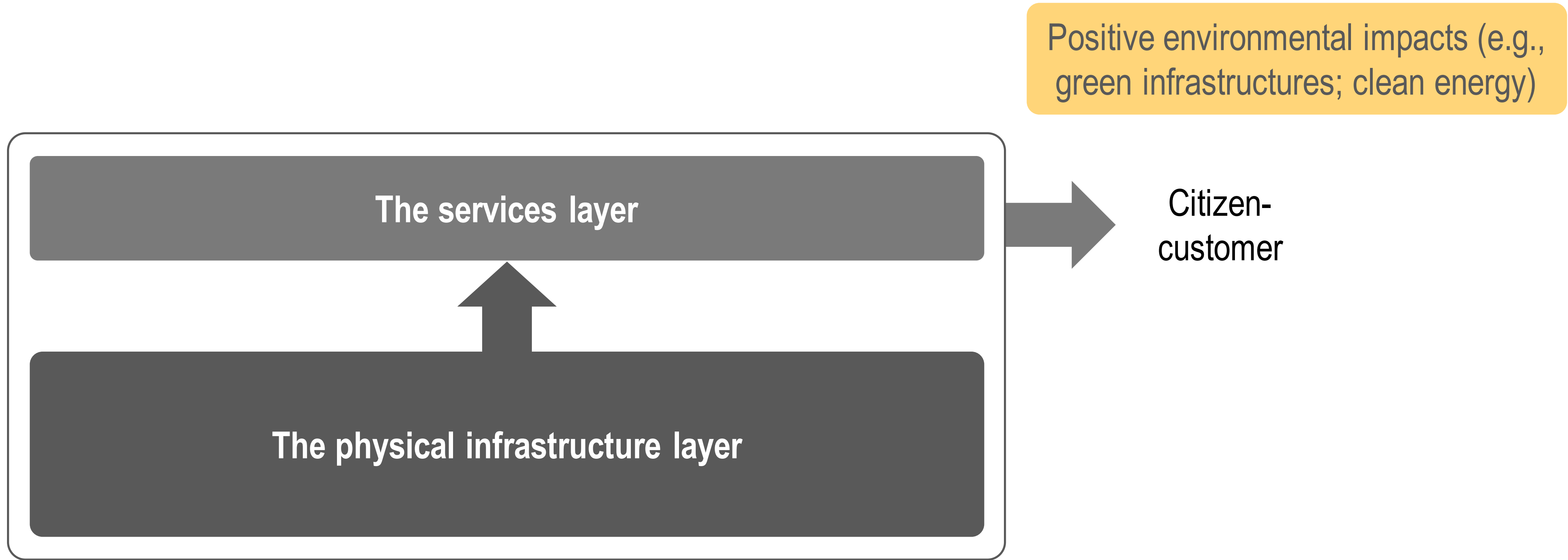
The jurisdictional dimension



The social dimension



The environmental dimension

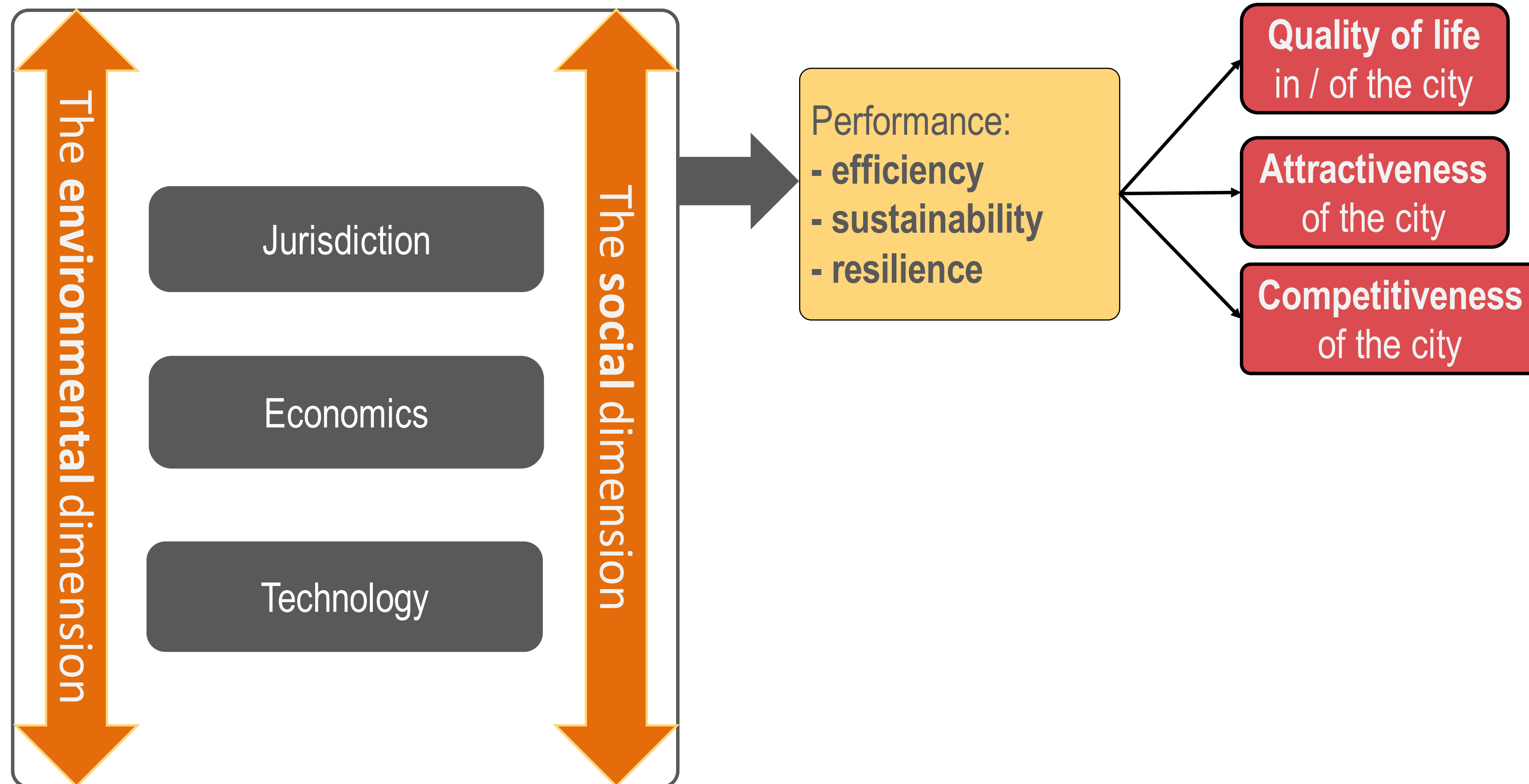


Negative impacts of infrastructures on the environment (e.g., CO₂ emissions, noise, pollutants, land use)

Positive environmental impacts (e.g., green infrastructures; clean energy)

Citizen-customer

The city as a complex socio-technical system



- In this session we have seen the different dimensions of urban infrastructure systems
- In the next session, you will hear from a practitioner how this all plays out in reality
- I will then come back to present the two main analytical perspectives for approaching urban infrastructure systems