

Workshop sulla sostenibilità (Quarta Edizione)

Supervisor: **Prof. Alessandra Ghisalberti** (UniBg)

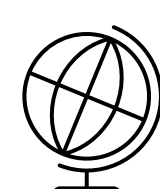
Co-supervisor: **Eng. Vito Imbrenda** (CNR – IMAA)



Scansiona il QR code per
la **versione in italiano**



Research Context



Nowadays, **sustainable mobility** represents one of the main challenges for contemporary territorial systems. Traditionally associated to the environmental impact reduction, sustainability is increasingly interpreted as a **multidimensional concept**, that includes also social and economic aspects, such as equity in accessing resources and services. Despite the growing attention towards sustainable mobility, the analysis of its **relational dimensions** and the modalities through which the **cartographic representations** contribute to make visible – or sometimes hidden – the spatial inequalities, remain limited.

Research Goals



Investigating the role of mobility as the result of **territorial relationship building**, and exploring the contribution of cartography as an **interpretative and design tool** for analysing **spatial justice** dynamics.

Theoretical Approach

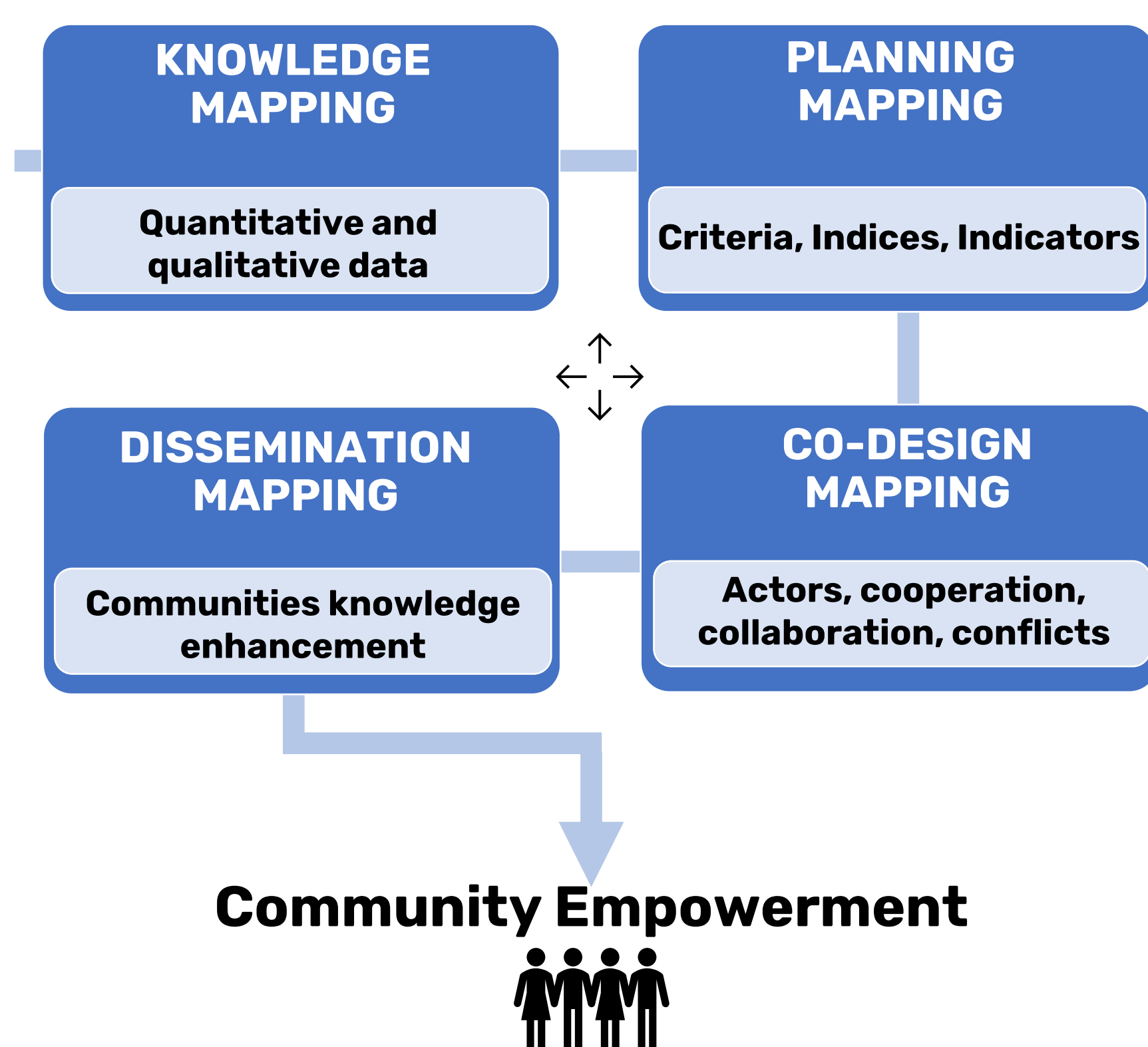


Mobility cannot be considered exclusively as a physical movement within the space, but as a condition that reflects and produces inequalities. As *David Harvey (1973)* pointed out, social processes are subscribed within the space, generating territorial configurations in which opportunities access results unequally distributed. In this vein, *Edward Soja (2010)* introduces the concept of **spatial justice**, highlighting how social inequalities assume a concrete geographical dimension, visible in the infrastructures and service distribution.

As highlighted by *Jacques Lévy (2008)*, the space can be interpreted as a **system of relationships and access possibilities**, in which mobility represents a fundamental resource. In this sense, both physical and virtual mobility contribute to the building of **new imaginaries** and **forms of polytopic living**, in which individuals, by moving through different places, forge symbolic, material and cultural bonds (*Alessandra Ghisalberti, 2025*).

It is within this context that the concept of **landscape** arises, meant as **cultural and perceptual construct**, result of the perception and values of a society, and as a fundamental element **linking the way we live to our experience of and care for the local area** (*Jean-Marc Besse, 2018*).

Methodology: Territorial Analysis, Reflexive Cartography and Co-design

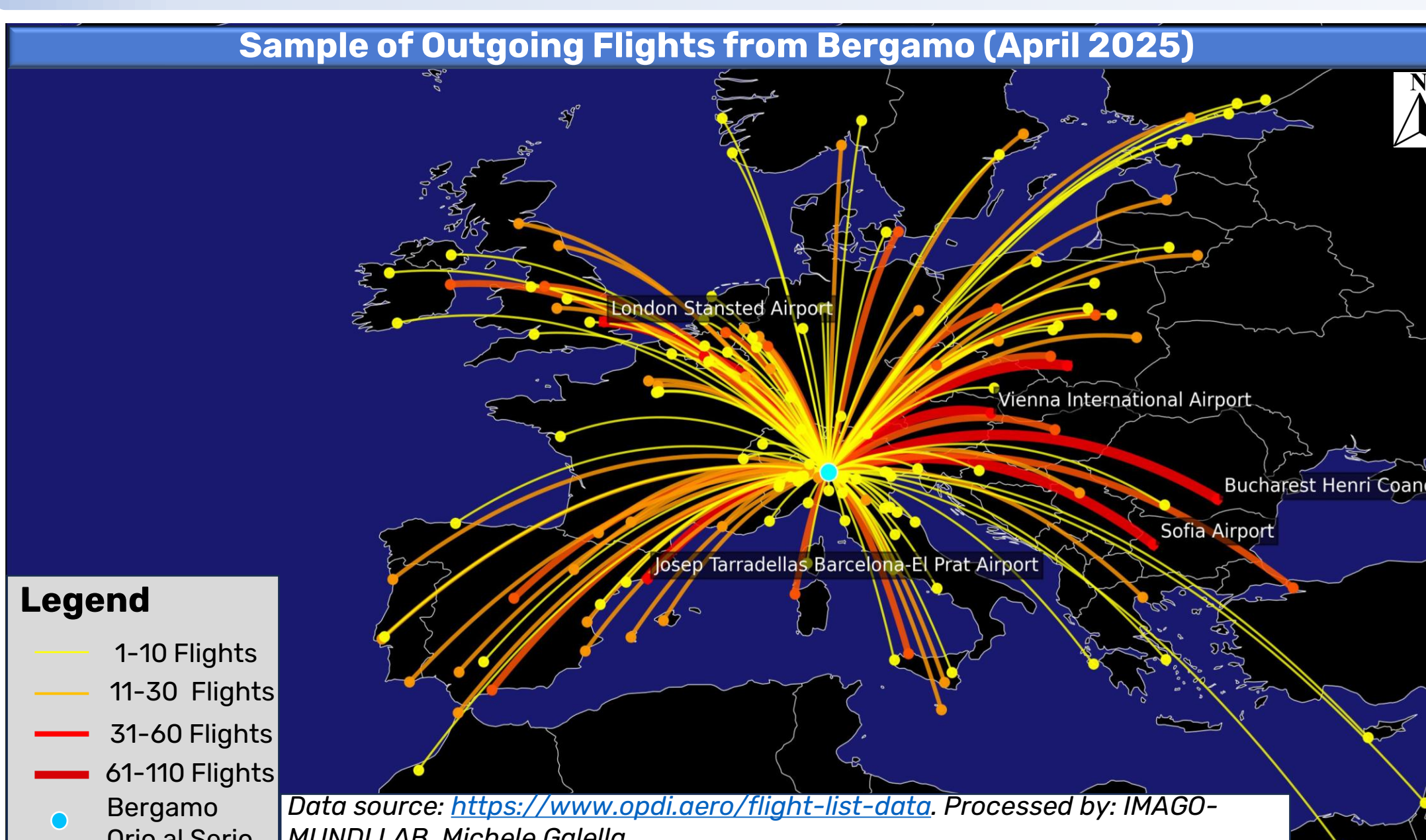


Rethinking **mobility** in **sustainable** terms means recognising its **relational and systemic nature**, and adopting **spatial justice** as a guiding principle – from **global networks** of connectivity to **integrated urban systems**, as showcased by the case studies ^① and ^②.

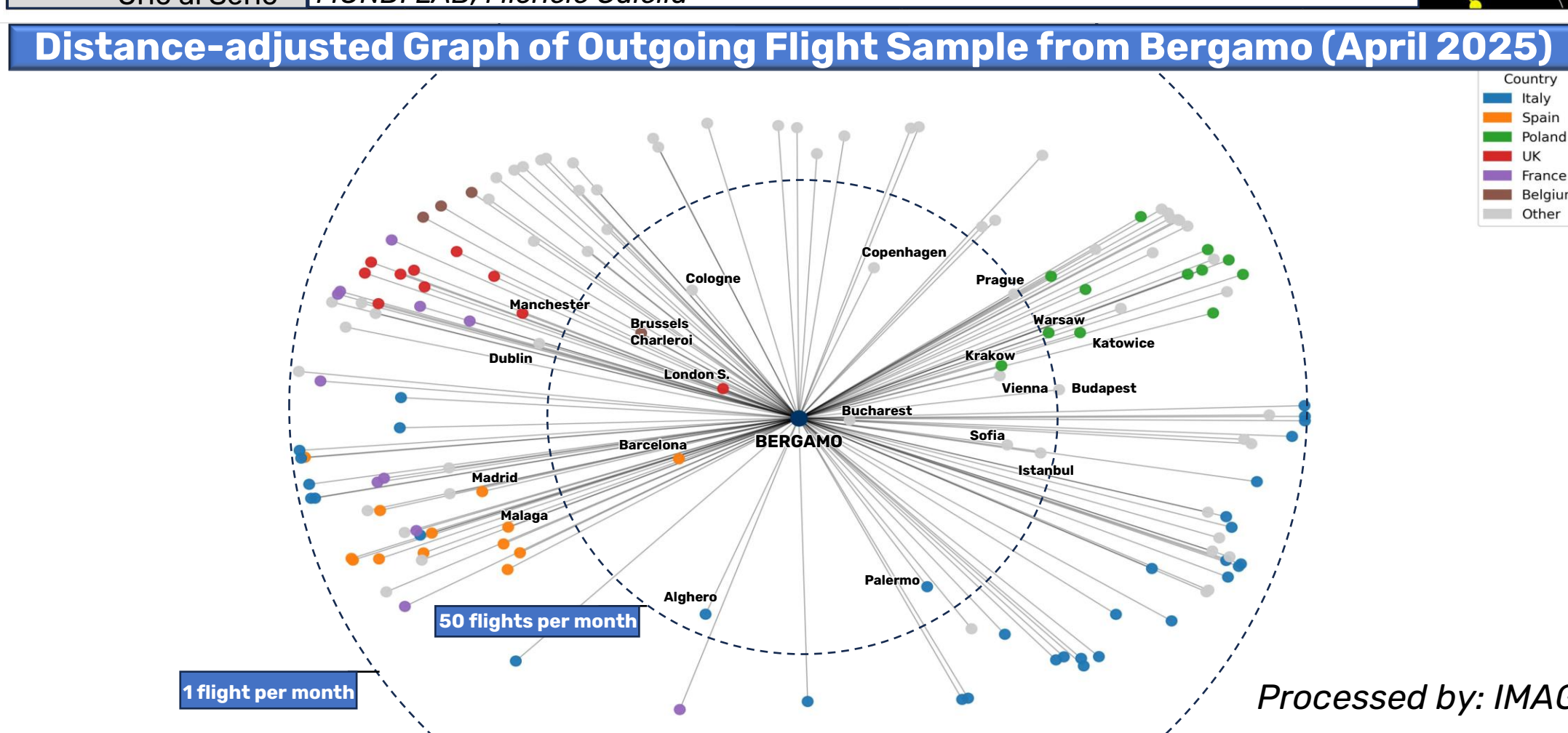
Preliminary Results

European Networks: How Airport Mobility Reflects Relational Intensity

①

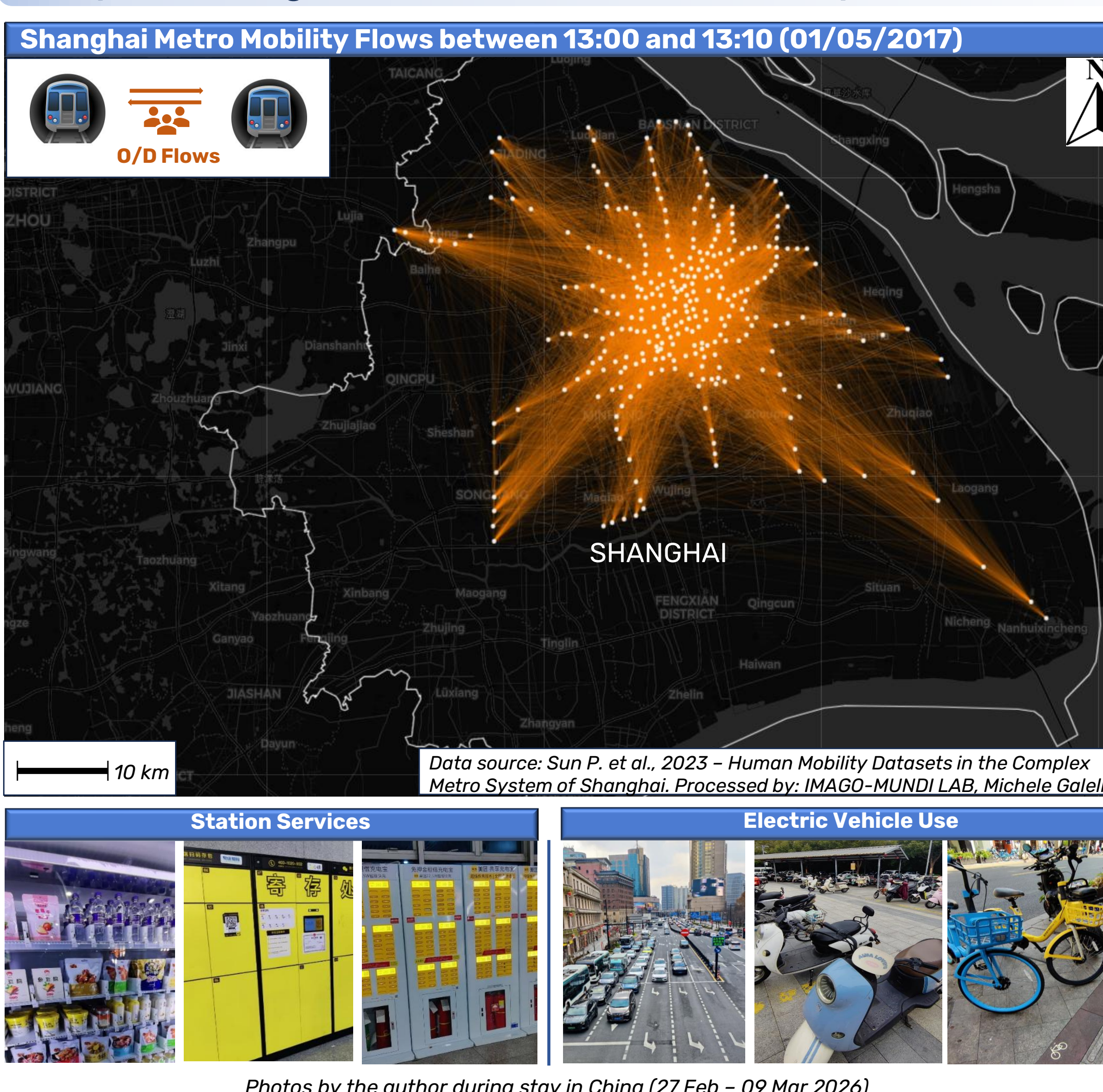


The map of air connections from **Bergamo Orio al Serio Airport** highlights a **highly interconnected transport network**, in which geographical distances are reduced by the intensity of flows. Through a **self-expanding representation**, the most connected cities move closer to the **main hub**, showing the space compression produced by contemporary mobility. The intensification of air links contributes to the **strengthening of territorial hierarchies**, highlighting how **global mobility is characterised by the tension between relationships and spatial justice**.

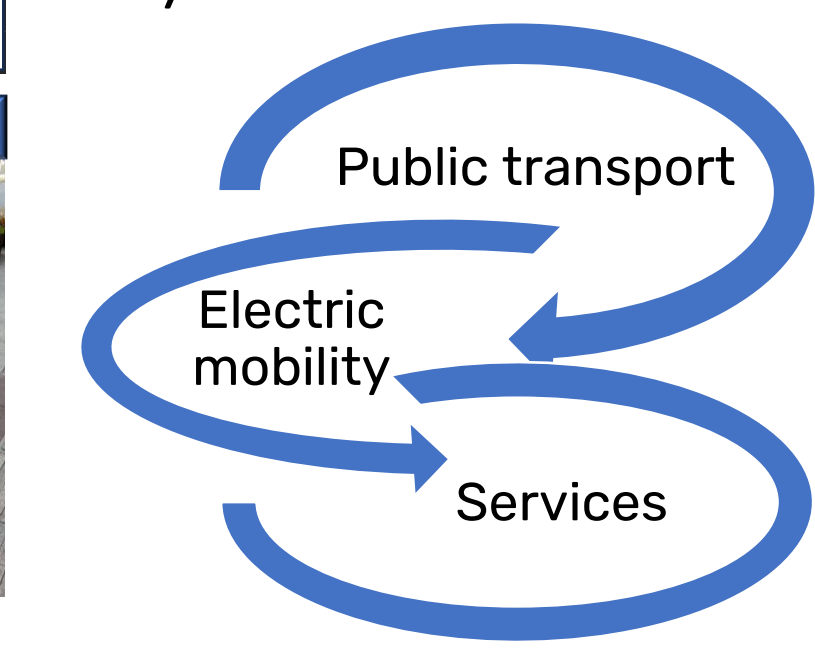


Visiting Scholar Experience in China: Shanghai as an International Case Study of an Integrated and Diffuse Urban Mobility

②



In Shanghai, urban mobility takes the form of an **integrated system of public transport**, **widespread adoption of electric vehicles** and **the provision of public services** within transport infrastructures. Such organisational efficiency helps to shape new forms of urban sustainability. Mobility is not just limited to travel, but becomes part of a broader urban ecosystem, capable of reducing journey times, improving accessibility and supporting users' daily routines.



Essential References

- Besse Jean-Marc (2018). *La nécessité du paysage*, Marseille, Actes Sud.
- Ghisalberti Alessandra (2025). *Mobilità e nuovi immaginari del mondo per un abitare sostenibile: geografie simboliche per l'Africa rurale, e oltre*. Semestrale di studi e ricerche di geografia, 1(1).
- Harvey David (1973). *Social Justice and the City*. London, Edward Arnold.
- Soja Edward (2010). *Seeking Spatial Justice*. Minneapolis, University of Minnesota Press.
- Sun P. et al., (2023). *Human Mobility Datasets in the Complex Metro System of Shanghai*.