

## Introduction to InPlaLabs Technical Toolkit: References and Further Reading

Batty, M. (2013). *The new science of cities*. MIT Press. <https://doi.org/10.7551/mitpress/9399.001.0001>

- A foundational text on computational urban modelling and urban analytics. It provides the theoretical and technical grounding for digital tools that analyse networks, density, flows, and spatial complexity in contemporary cities.

Geertman, S., Stillwell, J., & Pettit, C. (Eds.). (2020). *Handbook of planning support science*. Edward Elgar Publishing.

<https://www.elgaronline.com/edcollbook/edcoll/9781788971072/9781788971072.xml>

- A comprehensive reference on Planning Support Systems (PSS), GIS-based decision tools, digital modelling platforms, and collaborative spatial analytics. It directly underpins the digital and GIS-based components of the Technical Toolkit.

Goodchild, M. F. (2007). Citizens as sensors: The world of volunteered geography. *GeoJournal*, 69(4), 211–221. <https://doi.org/10.1007/s10708-007-9111-y>

- Introduces the concept of Volunteered Geographic Information (VGI), foundational for OpenStreetMap, crowd-sourced spatial data, and participatory GIS practices used in integrated planning.

Hillier, B. (1996). *Space is the machine: A configurational theory of architecture*. Cambridge University Press. <https://doi.org/10.1017/CBO9780511597237>

- Provides the theoretical and methodological basis for Space Syntax analysis, centrality measures (integration and choice), and digital street-network analysis tools such as Depthmap and the QGIS Space Syntax Toolkit.

Jankowski, P. (2009). Towards participatory geographic information systems for community-based environmental decision making. *Journal of Environmental Management*, 90(6), 1966–1971. <https://doi.org/10.1016/j.jenvman.2007.08.028>

- A key paper establishing Public Participation GIS (PPGIS) as a structured methodological and technical framework for inclusive spatial decision-making.

Charlton, M. (2008). Modifiable areal unit problem (maup). In *Encyclopedia of geographic information science* (pp. 289-290). SAGE Publications, Inc., <https://doi.org/10.4135/9781412953962.n133>

- A classic methodological reference explaining spatial aggregation effects and scale sensitivity—critical when working with GIS-based datasets such as Urban Atlas, CORINE, and density rasters.

Pelzer, P. (2015). Usefulness of planning support systems: A conceptual framework and an empirical illustration. *Transportation Research Part A: Policy and Practice*, 77, 84–95. <https://doi.org/10.1016/j.tra.2015.04.012>

- Examines how digital planning tools and spatial decision-support systems function in real planning contexts. It bridges technical capabilities with practical usability in professional planning environments.