

1. Record Nr.	UNINA9910985987503321
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Titolo	Decide Better : Open and Interoperable Local Digital Twins // edited by Lieven Raes, Susie Ruston McAleer, Ingrid Croket, Pavel Kogut, Martin Brynskov, Stefan Lefever
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	9783031814518 3031814517
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (431 pages)
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Disciplina	004.6
Soggetti	Computer networks Internet of things Information modeling Computers and civilization Computer Communication Networks Internet of Things Information Model Computers and Society
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1 Introduction: Defining Local Digital Twins -- Part I Local Digital Twins for Evidence-Driven Smarter Cities -- Chapter 2 Digital Twins for Urban Governance: General Desires, Expectations, Challenges -- Chapter 3 Local Digital Twins for Smart Cities: Opportunities for Evidence-Informed Decision-Making -- Chapter 4 Local Digital Twins: A Central Urban Integrator to Break Down the Silos -- Part II Implementing a Reusable Local Digital Twin -- Chapter 5 Unlimited Potential: The Reusable Local Digital Twin -- Chapter 6 Public Development: Towards Open Standards and Components for Local

Digital Twins -- Chapter 7 Connected Services: IoT Data to Fuel Your Local Digital Twin -- Chapter 8 Future Ready Local Digital Twins and the Use of Predictive Simulations: The Case of Traffic and Traffic Impact Modelling -- Part III Maximising Impact of Local Digital Twins -- Chapter 9 Local Digital Twins for Cities and Regions: The Way Forward -- Chapter 10 Force Multiplier: Realising the Benefits of Open and Re-usable Local Digital Twins -- Chapter 11 Rights and Responsibilities: Legal and Ethical Considerations in Adopting Local Digital Twin Technology -- Chapter 11 Pioneering Practitioners: Key Lessons Learned from Local Digital Twin Implementations.

Sommario/riassunto

This is an open access book. *Decide Better: Open and Interoperable Local Digital Twins* explores the transformative potential of Local Digital Twins (LDTs) in urban governance. The book begins by introducing the concept of LDTs, which create digital replicas of cities or regions, combining real-time data and simulations to inform decision-making. It highlights how LDTs can enhance urban management by fostering collaboration among stakeholders and providing evidence-based insights for policy and operational strategies. The book emphasises the importance of openness, interoperability, and ethical use in LDT development, offering practical guidance for policymakers, urban planners, and technologists. The book is divided into three parts. The first part discusses the foundational principles of LDTs and their role in making cities smarter through data-driven decision-making. The second part focuses on implementing reusable LDT architectures, emphasising standards and interoperability. The final section addresses maximising LDT impact, offering strategies for governance, scalability, and ethical considerations. Drawing from real-world examples and expert insights, the book provides a comprehensive framework for adopting LDTs in diverse urban environments, aiming to advance sustainable and citizen-centric urban development.
