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(This article belongs to the Special Issue Sustainability and Urban Metabolism) ... This paper analyses the particularities of these different urban scenarios, considering the effects of climate on the real urban densification. The purpose of this study is to find a relationship between the historical inner courtyards dimensions and the climate ...

Special Issue "Sustainability and Urban Metabolism"

To clarify the material flows in the urban system and understand the process of UM, this study established a model of metabolism as Fig. 1 shows. As stocks and flows in the urban system are generated or

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(directly) influenced by human activities, the metabolism model could be established through human activity categorization, concerning domestic behavior (e.g., eating, sleeping, and cleaning ...

Examining urban metabolism: A material flow perspective on ...
The goal of this work is to understand the conditions under which urban development is "sustainable" relative to the costs of providing water. We do this by investigating the environmental and societal costs of supplying water as demand has grown, for four cities: Singapore, Singapore; New York City and Los Angeles, United States of America; and London, United Kingdom.

urban metabolism :: Urban Water Supply

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The Metabolism of Cities Living Lab (MOC-LLab): Strengthening Diversity and Deliberation in Climate Adaptation Planning applies unique participatory planning tools to generate knowledge from communities consistently overlooked in traditional development planning scenarios at San Diego State University, San Diego, California, USA. We strive to engage directly with under-represented communities ...

Metabolism of Cities Living Lab | Metabolism of Cities

The management of interactive resources is essential for supply chain analysis. This research analyzes the food-water-energy system of urban metabolism for sustainable resources management. A system dynamics model is established to investigate the urban metabolism of food, water, and energy resources.

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More specifically, the DSS integrated biophysical observations with socio-economic issues, enabling end-users to evaluate several urban planning scenarios based on their identification of planning objectives. In this way, sustainable planning objectives can be based on quantitative assessments of urban metabolism components.

Environmentally friendly urban planning | Result In Brief ...

(2010). Society, energy and materials: the contribution of urban metabolism studies to sustainable urban development issues.

Journal of Environmental Planning and Management: Vol. 53, New Perspectives on Sustainable Development, pp. 439-455.

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Society, energy and materials: the contribution of urban ...

Dynamic modeling of Singapore's urban resource flows: Historical trends and sustainable scenario development Tamas Abou-Abdo, Noel R. Davis, Jonathan S. Krones, Karen N. Welling, and John E ...

Dynamic modeling of Singapore's urban resource flows ...

Keywords: material and immaterial drivers, post-growth, resilience and sustainability, urban metabolism, systems thinking, urban ecology, sustainable planning and design, cities. Citation: Cristiano S, Zucaro A, Liu G, Ulgiati S and Gonella F (2020) On the Systemic Features of Urban Systems. A Look at Material Flows and Cultural Dimensions to ...

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Frontiers | On the Systemic Features of Urban Systems. A ...

GURU was also a key member of the successful Sustainable Urban Metabolism in Europe (SUME) project. SUME ranged from the analysis of trends in urban development with respect to impacts on resource use, energy consumption, land consumption and waste output to advanced modeling of urban metabolisms, impact analysis and alternative models of cities to the formulation of (sustainable) urban ...

Environment - Cities - Newcastle University

In this research, system dynamics models are established to analyze the urban metabolic food-water-energy systems. System dynamics was developed in 1950; the simulation method is widely applied in industrial, engineering, natural science, and public policy fields

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[28,29,30,31,32,33,34,35,36].Furthermore, system dynamics can be used to examine optimal state trajectories and tradeoffs of systems ...

Urban Metabolic Analysis of a Food-Water-Energy System for ...

□What makes a strong urban economy? □What makes a strong and sustainable urban environment and metabolism? □How will (or should) urban form and structures evolve? □How can cities be future-proofed: more resilient to shocks? What are the alternative scenarios? □Governance: what makes a successful city?

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