

INFORMATION ARCHITECTURE OF CITIES

Who Builds Cities? Towards Citizen Design Science

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COVERING THE NUTURING EARTH WITH CEMENT: "EXPLOSIVE" EXPANSION OF BANGKOK SINCE 1900

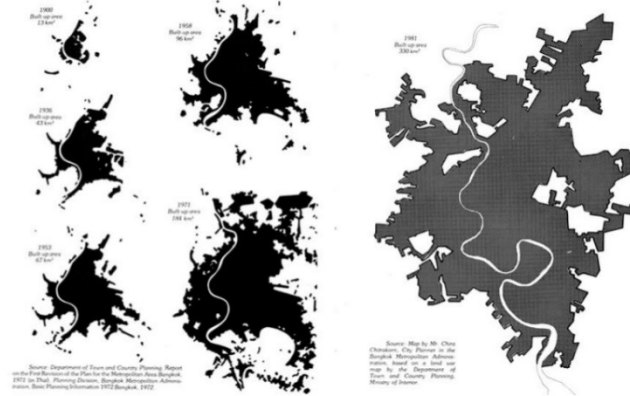
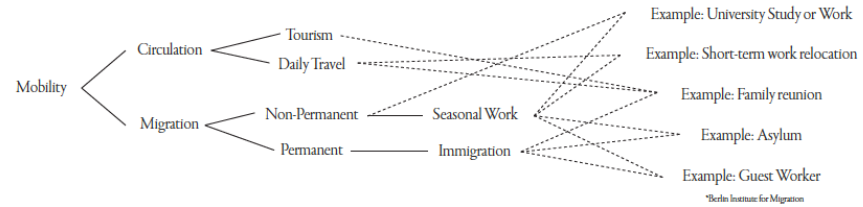


Fig. Urbanization and Changes of Settlement Patterns in Bangkok Metropolitan since 1900 to 1981 (source: Sternstein, 1982)

Jordan Berta



Berlin: Mobility
Stocks and Flows in Human Movement and Migration

Jordan Berta



The story so far:

1. Cities are complex systems, with a metabolism, expressed in terms of stocks and flows
2. Criteria for the livability of cities are emerging, both in specific and in general terms
3. Architecture, urban planning and citizen behavior determine the urban climate
4. The Urban Heat Island Effect and air pollution can threaten livability in the tropics
5. Energy Flows and Energy Systems are design factors for buildings and urban systems
6. Energy production and consumption influence livability, both as challenge and opportunity
7. Ecosystem services in combination with good planning become major assets for livability
8. Mobility and Transportation in a city are drivers and results of urban planning and health

Scales, Stocks and Flows

SPACE
ENERGY
MATERIALS
PEOPLE
CAPITAL
WATER
INFORMATION

SMALL

BUILDING TECHNOLOGY

MEDIUM

URBAN DESIGN

LARGE

TERRITORIAL PLANNING

LOW EXERGY

DIGITAL FABRICATION

A/P ARCHITECTURE & CONSTRUCTION

TRANSFORMING & MINING URBAN STOCKS

HOUSING

URBAN DESIGN STRATEGIES & RESOURCES

URBAN SOCIOLOGY

A/P ARCHITECTURE & URBAN PLANNING

TERRITORIAL ORGANISATION

LANDSCAPE ECOLOGY

MOBILITY & TRANSPORTATION PLANNING

A/P ARCHITECTURE & TERRITORIAL PLANNING

SIMULATION PLATFORM





Stocks and Flows

Stocks are entities that rest. Flows are entities that move.

People, materials, air, water, food, energy, health, space, finances, data and information are examples for stocks and flows in the urban context.

They interact with each other in the city as a complex system.





Questions to the expert, regarding Participatory Design and a possible Citizen Design Science

- Who actually builds cities?
- What is the geographic scope of your observations?
- What is the role of the market?
- What is the role of rational planning?
- What is the origin and role of participatory planning?
- How do you see that the informational turn in city building could increase livability, and how could this be made a global trend?



Prof. Dr. Jane M Jacobs

Director of the Division of the Social Sciences, Professor of Urban Studies
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Professor Jacobs' undergraduate and Masters' training in Human Geography was at the University of Adelaide, Australia. She completed her PhD at University College London. Prior to joining Yale-NUS College, Professor Jacobs taught at University College London from 1989 to 1991, The University of Melbourne from 1992 to 2002, The University of Edinburgh from 2002 to 2010, and the National University Singapore in 2011. She was a founding member of Melbourne's Institute of Postcolonial Studies, and served a term as its Director. Professor Jacobs has supervised more than 15 PhD students, and has been on the editorial team of various journals, including the *Geographical Research*, *Environment and Planning D: Society and Space*, *Scottish Geographical Journal*, *Cultural Studies Review*, *Social and Cultural Geographies*, *Transactions IBG (NS)*, *Gender, Place and Culture*, *Annals of the Association of American Geographers* and *Antipode*.

Sharing the same name as urban scholar Jane Jacobs, who authored the book *The Death and Life of Great American Cities*, Professor Jacobs has become an expert in professional disambiguation.