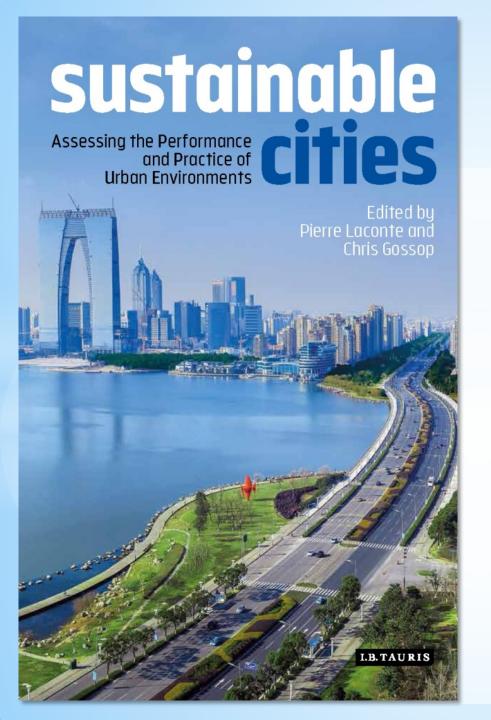


#### **Book Launch**

Wed 1 June 2016

Sustainable Cities: Assessing the Performance and Practice of Urban Environments

Edited by Pierre Laconte and Chris Gossop



# sustainable



#### **Book Launch**

Wed 1 June 2016

Introduction

Pierre Laconte Foundation for the Urban Environment Assessing Sustainable Urban Environments depends from the levels of observation - individual buildings, urban neighbourhoods and entire cities and towns. Best practices are to be examined in a space and time framework.

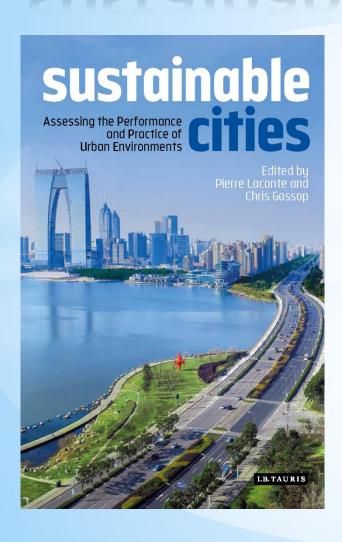
The second part offers a critical assessment of the techniques used to assess urban development, including the measurement of greenhouse gas emissions, ecological footprint analysis, and the assessment of urban biodiversity. It proposes an alternative approach to CO2, making the case for greenhouse gas to be seen as a resource, rather than as a liability.

The book presents a number of best practices, including Urban Transport in France (Peter Hall's last paper), Manchester's waterfront, Amsterdam's ring canals, London's King's Cross development, Hamburg's energy efficiency district, the Lee Kuan Yea World City Prizes Bilbao, New York and Suzhou, Singapore being their model, and the new university town of Louvain near Brussels.

A longer presentation at UCL on June 23\* will focus on the cases of Singapore (state), Bilbao (city), and Louvain (part of a city).

<sup>\*</sup> http://www.ffue.org/2016/05/assessing-sustainable-urban-environments-criteria-practices-london-23062016/





#### **Book Launch**

Wed 1 June 2016

Energy in Building: Contributions and Considerations

Dr Kerry J Mashford

Chief Executive - National Energy Foundation

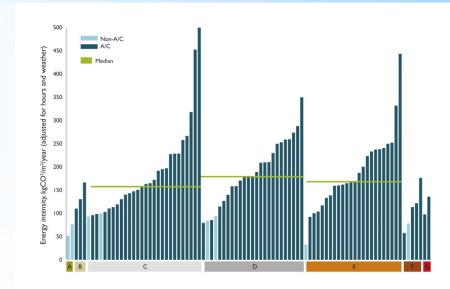


Buildings studied under Innovate UK's building Performance Evaluation Programme

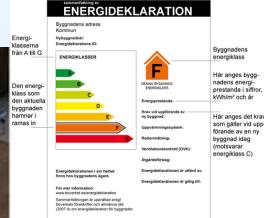
### **Buildings**



- 39% of total EU energy consumption
- EPC, SAP, Performance delusion
  - Actual = 2-4 times predicted
  - Sweden only member state requiring in-use verification
- People in the building system
- Measurement and verification, monitoring and benchmarking







### Systems of Buildings

I.B. TAURIS

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Urban concentration increases building energy intensity

- Heat island
- Prestige and highly serviced buildings

#### Thermal instability

- Climate change
- Density
- Design

Night-time cooling insufficient

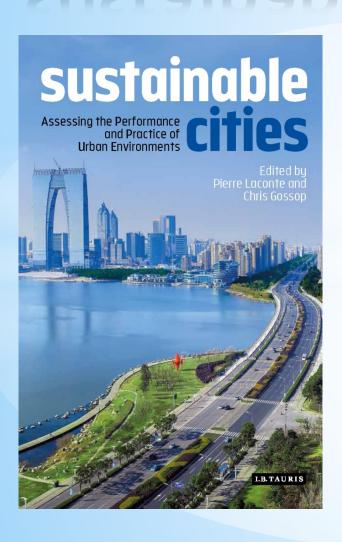
Design for use - what uses?

- Robustness and sensitivity
- Adaptability 60% of 2050 buildings are already built
- BPIE estimates 71% energy saving









#### **Book Launch**

Wed 1 June 2016

Water and the City

lan Douglas

Emeritus Professor University of Manchester

#### Cities on the water and around the water







#### **Encouraging waterfront redevelopment**



#### Positive factors

Government support: enterprise zones, development corporations
Public and private sector partnerships
Municipal encouragement for developers
Improving a city's image
Ecosystem service benefits of waterways
Land and property value gains





#### Possible problems

Past and future water quality
Unsympathetic developments
Planning and financing mechanisms
Inadequate public transport

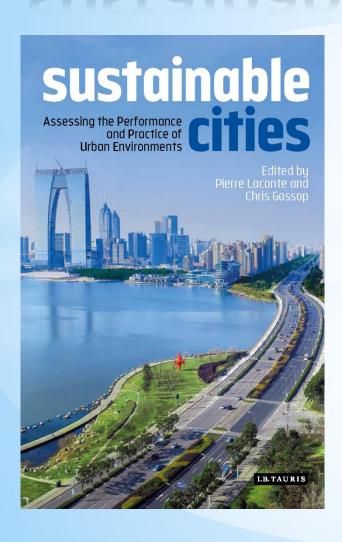
# Ambitious real-estate or sustainable development?





Fitted into medium to long-term regeneration, transportation and landscape planning efforts: a highly effective re-use of brownfield land and disused waterways





#### **Book Launch**

Wed 1 June 2016

Snapshots (Chapters 3, 8, 12)

Chris Gossop

Planner and Environmentalist

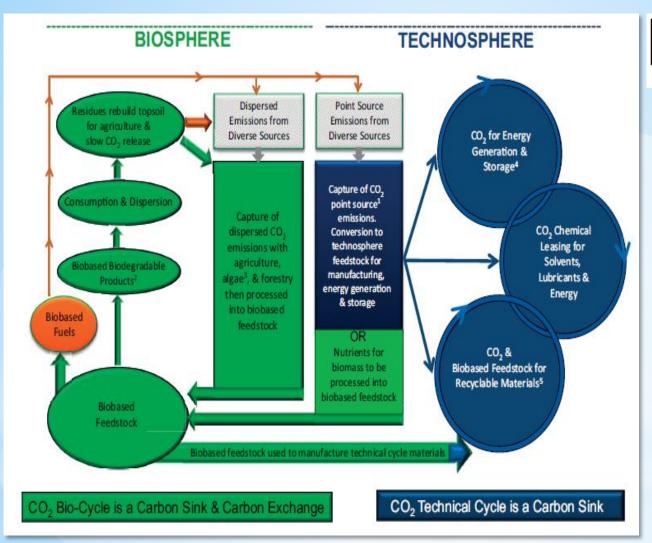
#### City Comparisons - Birgit Georgi



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	European Green Capital Award 2010/2011 (Expert panel) (EGCA)	European Green Capital Award 2012/2013 (Expert panel) (EGCA)	European Green Capital Award 2012/2013 (jury) (EGCA)	European Green City Index (Siemens, 2009)	Mercer Ecocity 2010 (European cities) (Mercer, 2010)	Mercer Quality of Life Index 2010 (European cities) (Mercer, 2010)	EIU Liveability Index 2011 (European cities) (EIU, 2011)	Globe Sustainable City Award (European cities) (Globe Award, 2010)	Monocle's most liveable Cities Index 2010 (European cities) (Monocle, 2010)
1	Hamburg	Barcelona	Vittoria- Gasteiz	Copenhagen	Helsinki	Vienna	Vienna	Malmö	Munich
2	Stockholm	Malmö	Nantes	Stockholm	Copenhagen	Zurich	Helsinki	Murcia	Copenhagen
3	Munster	Vittoria-Gasteiz		Oslo	Oslo	Geneva		Stargard Szczecinski	Zurich
4	Amsterdam	Nuremberg		Vienna	Stockholm	Düsseldorf			Helsinki
5	Freiburg	Nantes		Amsterdam	Nuremberg	Frankfurt			Stockholm
6	Oslo	Reykjavík		Zurich	Bern	Munich			Paris
7	Bristol			Helsinki	Zurich	Bern			Vienna
8	Copenhagen			Berlin	Aberdeen	Copenhagen			Madrid

Different ratings/different things; Different purposes; Indicators and data? Many questions but a way forward?



Carbon Dioxide as a resource for the circular economy. Source: Mulhall, Hansen and Braungart



Capture and storeto capture, storeand re-use

Biosphere Cycle dispersed emissions from diverse sources

Technosphere
Cycle - exploiting
point source
emissions

Changing the perception of CO<sub>2</sub>





#### I.B. TAURIS

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### King's Cross Development





Circular economy again? An exemplary new urban quarter? A clear transport vision? A vibrant mixed use community? A clear master plan - for the long term Related strategies on design and env.performance