International Workshop - A New Look into Old Buildings A Sustainable Vision for Lisbon

Lisboa, 21 de Março – Centro de Informação Urbana de Lisboa (CIUL)



Simulated building energy use for Olivais Norte

Cities are the center of economic and societal development, consuming 75 % of natural resources and generating 50% of global waste. In order to reduce carbon emissions related to building energy use while keeping neighborhoods livable, vibrant and globally competitive, municipalities need a new generation of planning tools that allow them to evaluate current and future environmental performance of their jurisdictions in a holistic way. During this roundtable, which is geared towards Lisbon's planning community and its peers across Portugal, researchers from the MIT Portugal program will present high level findings of a sustainable neighborhood analysis of Lisbon. The MIT Portugal program is a multiyear collaboration between MIT and leading Portuguese Universities. Topics to be discussed include how the deliberate proliferation of a variety of energy conservation measures could reduce citywide building energy use; the future of natural ventilation in Lisbon's warming climate; how to combine increased density with sufficient access to daylight as well as new modes of urban food production. To give the audience a sense of the required effort level to use the Lisbon model or develop a comparable model in another municipality, the researchers will provide a high-level overview of the data requirements and underlying simulation methods. Following the first part, a diversity of Lisbon municipal decision makers and city top managers, are invited to discuss how challenges and needs of Lisbon residential building stock might boost a shift of paradigm towards a more resources efficiency use and sustainable renewal and how the present Urban Modeling Interface (UMI) can be improved according to the municipal needs for the next years.

ORGANIZAÇÃO







Agenda

09:00	OPEN SESSION (30 min)
	José Sá Fernandes, Deputy Mayor of Lisbon Municipality
	Mário Patrício President of the Freguesia do Parque das Nações
	Paulo Ferrão, President of Fundação para a Ciência e Tecnologia
09:30	Carlos Silva (IST Lisboa) 20 min
	Lisbon context and project framework
09:50	Christoph Reinhart/Khadija Benis/Claudia Sousa Monteiro (MIT, IST) - 90 min
	A new look into old buildings: A sustainable vision for Lisbon
	Christoph Reinhart (MIT SDL)
	Introduction: Enabling decision makers with environmental urban modeling (10 min)
	Claudia Sousa Monteiro (IST Lisboa) –
	Building data accessibility in Lisbon: Challenges and opportunities (15 min)
	Christoph Reinhart (MIT SDL)
	Current and future building energy demand in Lisbon (15 min)
	Natural ventilation and public health in Lisbon's warming climate (15 min)
	Putting a price to daylight access: Light taxes and real estate value (15 min)
	Khadija Benis (IST Lisboa) —
	Productive neighborhood landscapes: Harvesting solar, food and materials
	Christoph Reinhart (MIT SDL) - Tools and metrics for urban design: Introduction to Urban Modeling Interface - UMI (10 min)

11:20 COFFEE BREAK - 15 min

11:35 Paulo Ferrão/Christoph Reinhart/Pedro Grilo (Moderators) 70 min

Challenges and needs of Lisbon residential building stock regarding a shift of paradigm towards more resources efficiency use and sustainable renewal

- Representative of the Municipal Directorate of Urbanism
- João Tremoceiro, Chief Data Officer of Lisbon Municipality
- Pedro Pinto de Jesus, President of the Administration Board of GEBALIS (Tbc)
- Representative of the Administration Board of ADENE (Tbc)
- Maria Joao Rodrigues, Technical Director of Lisboa E-nova
- Catarina Selada, Head of City Lab at CEiiA Centre for Engineering and Development

12:45 CLOSING REMARKS (Christoph Reinhart/Pedro Grilo) - 15 min

13:00 CLOSING SESSION Deputy Mayor of Lisbon City (Tbc)



Future wind modeling natural ventilation in Parque das Nacoes



Modeling real estate value of access to daylight in Parque das Nacoes

