



Circular Economy

Urban Metabolism and Regional Development

Challenges for a Sustainable Future

JULY 5-6 | 2018
LISBON, PORTUGAL

FCSH FACULDADE DE CIÊNCIAS
SOCIAIS E HUMANAS
UNIVERSIDADE NOVA DE LISBOA

APDR

www.apdr.pt/congresso/2018/

Special Session (SS01) on:

BIM technology in resource optimization

Organizer:

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The aim and scope of the special session:

The construction activity involves multiple parties in a constant decision process which lead to a certain economic, social and environmental impact. The impact of the choice of a particular solution is normally obtained on an advanced stage where only small details can be changed. Currently, Building Information Modelling (BIM) methodology can be used to get information associated with the multiple stages of building construction process and lifecycle management. Based on BIM tools and the parametric modeling concept several optimizing studies can be performed: energy and carbon analyses; CO₂ construction impact; demolishing wastes; water usage results; photovoltaic exploration; LEED daylight consume.

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