## **Pedestrian accessibility and atractiveness** indicators for walkability assessment

Paulo Cambra<sup>1</sup>, Filipe Moura<sup>1,2</sup>, Alexandre Gonçalves<sup>1,3</sup>

<sup>1</sup> Instituto Superior Técnico, Universidade de Lisboa<sup>2</sup> Center for Urban and Regional Systems, CESUR/DECivil<sup>3</sup> Institute for Structural Engineering, Territory and Construction, ICIST/DECivil pjcambra@gmail.com (corresponding author), fmoura@ist.utl.pt, alexandre.goncalves@ist.utl.pt





**Model structure** 

Indicators / Areas of Impact Key concerns Concerns concern Descriptors Main consensual **Conceptual dimensions** Collected literature points out 150 possible factors of analysis to be assessed, indicators for walkability assessment. 7C layout: Selected set of indicators should be: Connectivity Consensual Accessibility Comfort Exaustive Atractiveness Convenience Non redundant Conviviality Concise Screening Conspicousness Independent Process . Coexistence Operationable Commitment

- MCDA provides robust indicator weighting and calibration features
- Indicators can be measured by alternative descriptors according to local data availability
- Descriptors can be of quantitative or qualitative nature, as long as objective
- Threshold calibration may be done by policy makers, experts and public participation
- GIS mapping allows good readable outputs for community and policy makers communication
- The proposed framework delivers a comprehensive tool for planners and policy makers to observe, understand and act

