

The WUDAPT Decade

JKS. Ching, G. Mills, B. Bechtel, M. Demuzere, D. Aliaga, C. Ren, M. Wong, D. Niyogi, M. Neophytou, A. Middel, I. Stewart, L. See, S. Arunachalum, Y. Shi

IAUC Community @ICUC-9, Toulouse, France, 2015

2011

Emergence of LCZ Concept: Croucher ASI, Hong Kong 2012

Proof of Concept LCZ to WUDAPT at ICUC8, DUBLIN IR 2013

LC Z Workshop, Dublin IR Training Areas from Satellite 2015

LCZ Training Workshop ICUC-9, Toulouse Fr City Specific LCZ maps HUMINEX (Quality) 2018

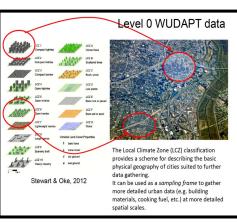
ICUC-10, NYC, City Specific LCZ maps Proposed LCZ City-Regions-Global maps 2020 - 2022

AMS-BUE Boston
DSC, UBEM Tools
Regional Maps,
LCZ Generator, UCP Tools
Global LCZ maps

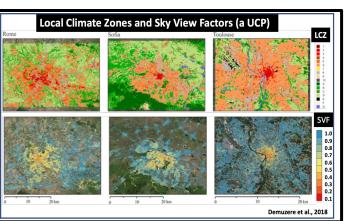
Future

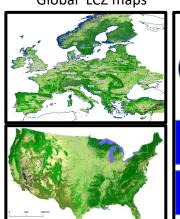
Level 1&2 Testbeds
Fit for Purpose Applications

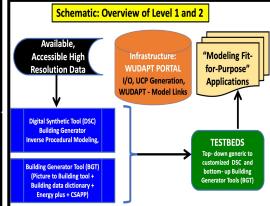
- Intraurban WX, AQ
- Sustainability
- Urban Planning











WHY?

- Enhanced risks, Climate Change
- Urban population exceeds 50%
- Need for Urban Services
- Science-Based Advanced Modeling Systems
 - Weather, Air Quality, Climate,
 - Energy, GHG systems
 - Future Cities Modeling

KEY PARADIGMS, APPROACHES

- Universal LCZ foundation
- Multiple Community based collaborations
- Innovation and methodology driven
- Strategic Hierarchical approach,
- Advanced Quality Assurance
- Dynamic LCZ change Implications
- Testbeds for
 - Methods evaluation
 - FFP Applications

MAJOR OUTCOMES

- Unique City Specific LCZ maps
- Rationale for Intraurban capabilities
- Regional LCZ Maps
- Building to block scale Form and Function details
- Global LCZ map
- FFF Scale Dependent studies

GET INVOLVED!

- Testbeds
- UCP Advances, refinements
- FFP Applications
- Future cities
- Global Climate data infrastructure