

Building Urban Resilience and Sustainability (BURST)

Symposium/Workshop

May 20-21, 2013

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What is BURST?

- An integrated approach for investigating the conception, planning, design, analysis, and functioning of urban systems
- Funded through UIC's Areas of Excellence program—an initiative of the Office of the Vice-Chancellor for Research
- Currently involves 15 scholars at UIC from 5 colleges, 7 departments and 2 centers

Goals of the Workshop

- To assess the state of science, technology, planning and practice on urban resilience and sustainability
- To collect forward-thinking concepts that may serve as the basis for future research directions (white paper)
- To lay the groundwork for potential collaborations, both domestic and international

BURST Initiative

Originally proposed in two parts:

- VCR Area of Excellence Phase 3 (funded)
15 faculty/7 departments
- Provost Interdisciplinary Faculty Cluster (not funded)
4 new hires proposed
 - architectural ecological design
 - urban hydrology
 - environmental justice
 - environmental/energy economics

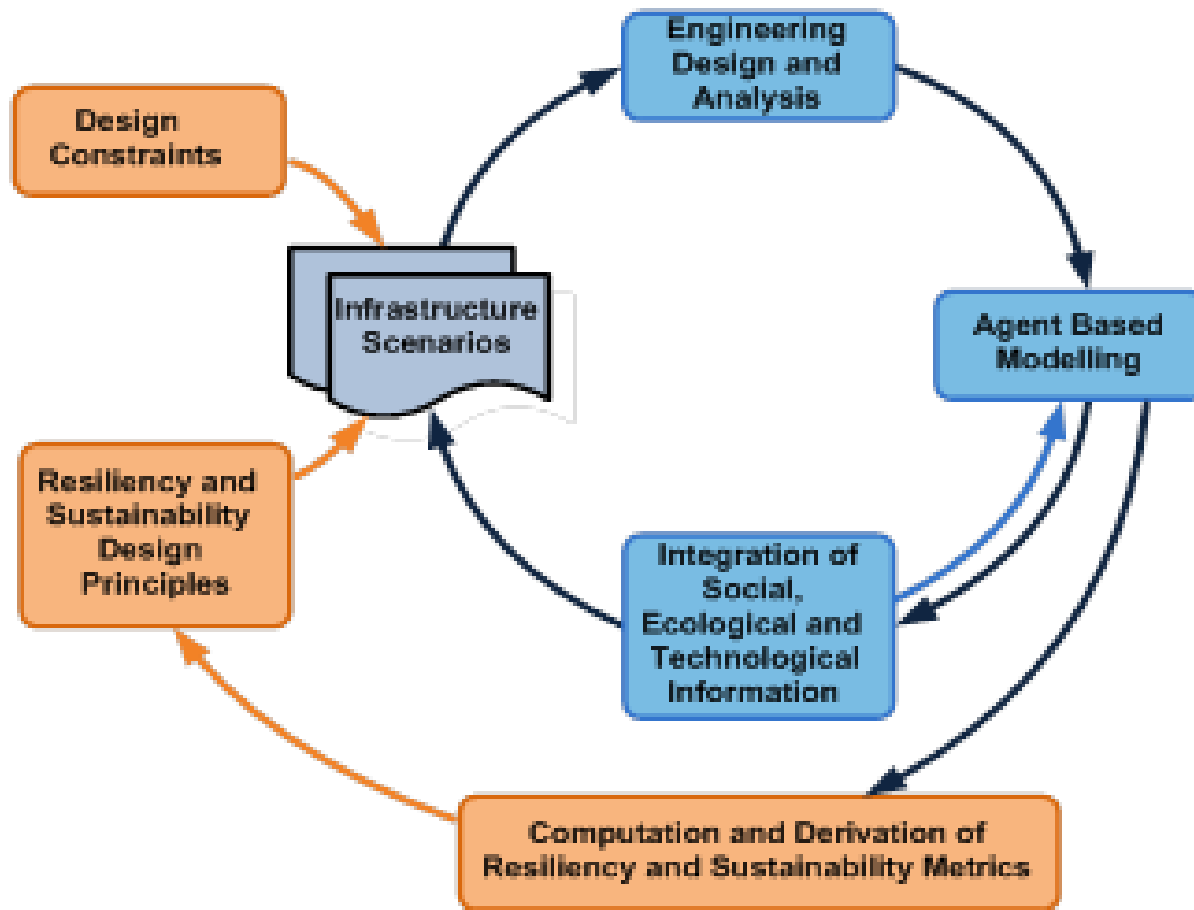
Urban-related Milestones at UIC

- 1978 Voorhees Center for Neighborhood and Community Improvement
- 1979 Urban Transportation Center
- 1982 UIC formally established
- 1995 CUPPA, Great Cities Institute
- 2000 Institute for Environmental Science and Policy
- 2002 Environmental Manufacturing Management (EvMM-IGERT)
- 2006 Landscape Ecological Anthropogenic Processes (LEAP-IGERT)
- 2006 Computational Transportation Science (CTS-IGERT)
- 2007 Energy Engineering program (MIE)
- 2011 UIC Energy Initiative
- 2012 Environmental Planning and Policy program (CUPPA)
- 2013 BRACE-Illinois (EOHS)
- 2013 BURST Initiative

Critical Questions

- Resiliency and sustainability: friends or foes?
- How will urban systems be envisioned, planned, and designed?
- What will sustainable/resilient planning and design principles of the future look like and how will we derive them?
- What are the environmental and social consequences of specific urban spatial patterns?
- What measures are most appropriate for determining if one approach is more sustainable and/or resilient than another? Are there new forward-looking metrics and tools that we should be using?
- Is there an integrative methodology best suited for examining urban systems?

The BURST Paradigm



Agenda

May 20

- 8:45 Welcome, Professor Mitra Dutta, Vice Chancellor for Research, UIC
- 9:00 Opening Remarks, Tom Theis, UIC
- 9:15 Anticipating the Future: Challenging the Barriers to Action
Philip R. Berke, University of North Carolina at Chapel Hill
- 9:45 Resiliency versus Sustainability: Conflicting or Complementary Goals in Cities
Becky P.Y. Loo, University of Hong Kong
- 10:15 Institutional Collective Action Dilemmas in the Pursuit of Urban Resilience and Sustainability
Richard Feiock, Florida State University
- 10:45 BREAK
- 11:00 Exploring an Information-Centric Theory of Cities
Keith Besserud, Skidmore, Owings, and Merrill, LLP
- 11:30 Infrastructure Ecology: A New Paradigm of Sustainable Urban Development
John C. Crittenden, Georgia Institute of Technology
- 12:00 Managing Urban Ecosystems for Goods and Services
Kevin J. Gaston, University of Exeter
- 12:30 LUNCH
- 13:15 Examining the Performance of Urban Interventions in the Far Future
Christopher D.F. Rogers, University of Birmingham
- 13:45 Built in Concrete? Designing Sustainable Infrastructure for a Changing World
Helen Couclelis, University of California Santa Barbara
- 14:15 Sustainable, Resilient Urban Infrastructures
Christopher Kennedy, University of Toronto
- 14:45 Urban Freight Transport Management for Resilient and Sustainable Cities
Eiichi Taniguchi, Kyoto University
- 15:15 BREAK
- 15:30 The Health Consequences of a Changing Climate: Adaptation from a Public Health Perspective
George E. Luber, Centers for Disease Control and Prevention, USA
- 16:00 Sustainability and Sustainability Metrics, Indicators, and Integrated Metrics
Heriberto Cabezas, Office of Research and Development, US Environmental Protection Agency
- 16:30 Towards Semantic Conflation of Geographic Data
Krzysztof Janowicz, University of California Santa Barbara
- 17:00 Concluding Remarks
- 17:30 ADJOURN
- 18:00 Dinner, Athena Restaurant, 212 S. Halsted, Chicago

