

WORKSHOP 1

Sustainable Data Community Forum

Date: Thursday-Friday, July 18-19, 2013

Participants: Experts from across the academy and the building industry to contribute their respective perspectives about the heterogeneous design information and data that is central to our practices and engagement in the built environment.

Location: Notre Dame Commons, Santa Fe Building
224 South Michigan Avenue
Chicago, Illinois 60604

Purpose: This workshop will bring together architects, policy makers, industry stakeholders, researchers, and computer scientists to form a diverse Community of Experts committed to building a data community and new frameworks to gather, disseminate, and promote the sharing of sustainability data.

Whether tied to existing impact analysis methods, tools, and policies, or in the development of new ones, addressing the broad energy and ecological impacts of the building industry on the environment depends on enhanced access to quality-assured data. We need tools and infrastructures for data and knowledge acquisition, discovery and sharing between communities so collective knowledge, experience and more importantly data, can be pooled and accessed widely. By leveraging the collective knowledge of the wider professional community, the challenges of realizing truly sustainable, energy efficient design can be addressed in an unprecedented fashion.

Inputs: The sustainability challenge in the built environment is growing increasingly tethered to the vast amount of heterogeneous data related to the design, construction, and operation of high performance buildings and infrastructure. In this age of ubiquitous data, what are the data pools that are unique to advancing and achieving a more sustainable built environment? How do we currently access and use them? What are the barriers to the data? What data is missing? How do we enable and promote broader engagement with structured data across our discipline?

Outcomes: By the conclusion of Workshop 1 we will have created a core Community of Experts (researchers and interested stakeholders) and a seed sustainability database to advance the objectives of Workshop 2 (in November) where ontologies and semantic database experts will analyze ways to expand current capabilities for sustainability data acquisition, discovery, and sharing by the wider professional and academic architecture communities. We will continue to

foster and grow our core Community of Experts and pursue additional funding sources to support the creation of the Center for Sustainability Data Research at Notre Dame (CSDR-ND). The purpose of this Center would be to support the construction of cyber-infrastructure (CI) for gathering and broadly disseminating sustainability data and research while fostering the creation of virtual communities and collaborative networks to support the construction of a more sustainable built world.

Reading Resources: Background reading for the Workshop include The Fourth Paradigm: Data-Intensive Scientific Discovery, Linked Open Data: The Essentials - A quick start guide for decision makers.

Hotel Information: Workshop Participants will be staying at the Palmer House. Please email koconne8@nd.edu if you have any additional travel-related questions or if you have any dietary restrictions.

Directions to the Santa Fe Building from the Palmer House (Courtesy of Google Maps):

1. Head east on E Monroe St toward S Wabash Ave and go 0.1 mi
2. Turn right at Race Start onto S Michigan Ave and destination will be on the right

