The Urban Cyberspace Company: Practical Problems and Emergent Business Opportunities in Green Broadband

Broadband Networks and Smart Grids at the Crossroad between ICT and Energy
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About Urban Cyberspace
- Designer/developer of Internet network technologies for the Full Spectrum Development Company, one of the leading green builders in the country
- Developing green/smart buildings is a real-world engineering challenge (i.e., operationalizing software-driven control systems)
- Organic evolution from broadband to green buildings – it can’t be green unless it’s smart!

1400 on 5th and The Kalahari
- 1400 on 5th: $40m development pioneering the idea of a building as a holistic system
- Carbon-neutral
- Kalahari: $100m development

What is the “Sixth Utility”? 
- In addition to HVAC, water and electricity, the Sixth Utility is the fiber optic network located in a building’s vertical conduits
- The Sixth Utility is the control system for the entire building
- Internet-based systems drive building efficiency towards a carbon neutral goal
- How did we get here?

Old Capitol Green
- Test bed for systemic approach to green building and metro-scale technologies
Leveraging best practices for retrofitting existing buildings – the real market opportunity

Data management, interpretation and stakeholder interaction for urban-scale behavioral change

Building-based infrastructure leveraged for urban wireless

Broadband is now part of holistic building control system

Initially, addressed digital divide

Emergent Business Opportunities

- Retrofitting this paradigm to existing buildings

Evolution of Urban Cyberspace Company

Backup slides