IES SF Education
2015 Spring Seminars
Lighting & Placemaking
Part 3 - Smart City

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Smart City Concepts

• Smart Transportation
• Smart Buildings
• Smart Citizens
• Smart Resources (Water, Energy, Waste)
• Every “Smart” connected to every other “Smart”
Definition: Internet of Things (IoT)

In order to obtain value from remote objects, all components of an IoT system must be in place.
Where are the elements of potential value?

**Efficiency:** Control and React
Gathered data is actioned more systematically, with greater automation, remote control, and some trends analysis and reporting.

**Innovation:** Transform and Explore
Data and Insights are used to support entirely new business models, products and services, and data economies.

**Visibility:** Connect and Monitor
Individual assets, each gathering just a small amount of data, are connected to enable manual monitoring as part of a single organizational process, with simple threshold-based exception alerting.

**Agility:** Predict and Adapt
Sensed data is augmented by external data sets for complex predictive analysis and preemptive action, closely integrated with a number of organizational processes.
Case Studies of Potential Value: Fire Safety
Urban Realities

- **TRANSPORT:** Building, Personal and Urban Network Requirements differ

- **STORAGE:** Building, Personal and Urban Storage will not be held in common
What is needed?

• Bridges and Gateways
• Security and Handshakes
• Automated Management
• Redundancy
• “Smart” Governance