

# Cities

The “and” Group

# A Definition

- **“The goal of building a [smart city/community] is to improve quality of life by using urban informatics and technology to improve the efficiency of services and meet residents' needs”**

# Proposal 1: Radical Transparency

- Think what-is
- Goal
  - Create capacity for data integration + orchestration + engagement, interact, capture, and contribution
- Challenges that need to be addressed:
  - Data model/architecture needs to be flexible, evolvable
  - Data residency
  - Data ownership
  - Data security / access
  - Data sharing
  - Surveillance
  - Incentives
  - Create API

# Proposal 1: Radical Transparency

- Success Metrics
  - “engagement”- adoption levels, economic development metrics (patents), apps, literacy, etc.
- Research Team
  - software engineers, data scientists, architects, lawyers, policy people

# Proposal 2: Building a SimCity++

- Think what-if
- Need: Data
- Decision support, can data from one city be applied to another city? Urban innovative discovery and dense making and exploration platform
- Three different cities, assessment of data they already have
- Figure out the obstacles
  - Every city will have their own building blocks
  - Derive: design patterns
- Could have a virtual smart city? Simcity
  - City Energy Project -building energy efficiency in 10 cities (but those 10 cities have different regulatory issues, different companies track the amount of energy used)
  - Given policy intervention- changes the energy in those buildings

# Proposal 2: Building a SimCity+

- **Success Criteria:**

- improve decision making, adoption level, accuracy

- **Research Team**

- simulation modeling people, system scientists (at the top), data science quality, policy intervention experts, user interface, domain experts (city), citizens, civic data person

# Proposal 3: Apps

- Domain-specific ideas that can plug into our data platform
  - Mobility
  - Energy
  - Water
  - Waste Management
  - Etc.