Embracing Innovation and Not Getting Out“smart”ed
League of California Cities Annual Conference
September 14, 2017
DISRUPTION
INNOVATION VS. SAFETY

Driverless Car Mishap #13

BUT I SAID, “BUY BIRTHDAY GIFT”. NOT “DRIVE OVER CLIFF”!
“PERFECT” INNOVATION STORM
MORE THAN JUST CARS
WHAT IS A “SMART” CITY?

• A smart city is an urban development vision to integrate information and communication technology (ICT) and Internet of things (IoT) technology in a secure fashion to manage a city's assets. (Wikipedia)

• The UK Department for Business, Innovation and Skills considers smart cities a process rather than a static outcome, in which increased citizen engagement, hard infrastructure, social capital and digital technologies make cities more liveable, resilient and better able to respond to challenges.

• A smart city makes optimal use of all the interconnected information available today to better understand and control its operations and optimize the use of limited resources. (IBM)
LEGAL AND POLICY FOUNDATION

INTERNET OF THINGS IN CONNECTED CITIES

Every consumer product and piece of infrastructure now generates electronic data that can be transmitted and analyzed to provide insights into consumer behavior, habits, and patterns. This is especially true with the proliferation of the Internet of Things (IoT). The more “smart” devices and things that are connected, the more data is gathered about consumer’s preferences, habits, and patterns. This data can be leveraged to improve services, products, and even to prevent crime or address public safety issues.

For example, smart city technologies can be used to monitor traffic flow, improve public transportation systems, and manage parking. IoT devices can also be used to monitor water usage, prevent leaks, and improve water quality. Smart waste management systems can help reduce landfill costs and improve urban sanitation. IoT devices can also be used to monitor energy consumption, improve energy efficiency, and reduce costs.

Moreover, IoT devices can be used to monitor the health and safety of citizens, including elderly and disabled individuals. For instance, wearable devices can be used to detect falls, track heart rates, and alert authorities in case of emergencies. Similarly, smart homes can be used to monitor and control temperature, lighting, and security systems.

Government agencies and local governments can use IoT data to make informed decisions about urban planning, transportation, and public safety. IoT data can also be used to monitor and control environmental conditions, such as air quality and noise levels. This information can be used to improve the quality of life for citizens and reduce the impact of urbanization on the environment.

In conclusion, the Internet of Things is a game-changer for cities and communities. By leveraging IoT data, cities can improve the quality of life for citizens, enhance public safety, and make their operations more efficient. As IoT technology continues to evolve, cities will be able to unlock even greater benefits from this technology.

NLC CENTER FOR CITY SOLUTIONS AND APPLIED RESEARCH

NATIONAL LEAGUE OF CITIES

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CROSSING LEGAL BORDERS

• Fit Existing Regulations?
• Design Safety / Operational
• Wireless/Broadband
• Insurance / Tort
• Privacy / Cybersecurity
• Financial impacts
• Procurement
• Land Use / Zoning
“SMART” INFRASTRUCTURE

- What is going to be needed?
  - Sensors?
  - Antennas?
  - V2X?

- Local control of ROW

- What is technology of the future?
PARTNERSHIP OPPORTUNITIES

• Emerging Technology Pilot Projects
  • Do not forget **public contracting requirements**
  • Transparency
  • **More data, more problems**
• Be aware of where any grant funding is coming from and requirements
• Coordination with regional and local agencies
PROPOSED RECIPE – TWO WAY STREETS

True Partnership
+
Balanced Agreements
+
Information Sharing / Shared Analysis
=
SUCCESS! (Or, steps to make SUCCESS)
GOALS OF PUBLIC CONTRACTING

From CA Public Contract Code Sections 100 and 102:

• Protecting the public from misuse of public funds

• To provide all qualified bidders with a fair opportunity to enter the bidding process, thereby stimulating competition in a manner conducive to sound fiscal practices

• To eliminate favoritism, fraud, and corruption in the awarding of public contracts
PUBLIC CONTRACTING

- Transparency
- Scope of Work and Goals
- Partnership
- Evaluation Criteria
- Public Records and Data Ownership
- Deliverables
• Agency Policy?
• Contractor Requirements?
• Informed Consent?
• Investigations / Subpoenas?
• Data Sharing?
DATA RETENTION

• Retention Policies

• Trust
  • Predictability
  • Manageability
  • Disassociability

• Risk Factors
  • Costs - $$$
  • Reputation
  • Programs Goals
  • Future Funding
GETTING RIGHT PEOPLE IN THE ROOM

- Planners
- Public Works
- IT
- Procurement
- Policy
- Risk Manager
- Law Enforcement
- Attorneys
  - We like talking EARLY!
- Private and Public
- Elected Officials
IMAGINE THIS…
NOT THIS!!!
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