

PREPARING FOR SMART ENVIRONMENTS

With increasing volume and velocity, smart city technologies and autonomous vehicles are reshaping the structure of our cities and how we live and work in them. Smart city technologies include the Internet of Things, hyper-connected citizens, and data-driven public solutions. Beyond self-driving cars, autonomous vehicles encompass commercial and public applications, aerial, subsurface, intermodal, and alternative energy components. These innovations are indeed disruptive individually, but in aggregate promise incredible opportunity for our metro areas. They also have the potential to create major hurdles for those tasked with putting these new resources to work.

For city administrators in particular, a lack of clarity about the future, how they will use smart innovations, and where they will find adequate resources constitute a central burden.

**How do you transform an uncertain future
into a platform for competitive advantage?**

THE 3 FACTORS FOR DETERMINING RECOMMENDED ACTIONS

To determine what a city should be doing today to prepare for the smart environment, you will need to understand the **potential impacts**, the **city's goals**, and the **tools** the city has available.

1. Potential Impacts

A smart environment can impact a city in many different ways.

A few examples are listed for each impact category.



Culture

- Small Business Incubation
- Gentrification
- Workforce Impacts



Regulation

- Fleet Usage
- Land Use (Proactive, Responsible)
- Advertising, Aesthetics



Technology

- Required Supporting Elements
- Data Analysis
- Performance Limitations



Environment

- Technology Impact on Environment
- Environment Impact on Technology
- Light and Noise Pollution



Financial

- Public Revenue & Tax
- Congestion



Industry

- Gig Economy
- On-Demand
- Regional v. Hyper



Behavioral

- Domestic Migration
- Acceptance Rate
- Miles Traveled Daily



Infrastructure

- Airspace Impacts
- Critical Nodes
- Parking

2. City Goals

Every city is different - knowing where the potential impacts overlap a city's goals will help determine what actions to take. Below are some examples of city goals and preferences.



City 1

- Pro-Labor
- Workforce Development
- Preserve Transit



City 2

- Pro-Business
- Balance Budgets
- Partnership Focus



City 3

- Deregulation
- Repair Infrastructure
- Prone to Invest

3. Tools Available

Recommendations for actions are made in the context of both common actions within a City's authority and innovative suggestions as applicable.



Land Use

- Economic Development
- Zoning: Lot Sizes, Populating Density, Building Construction
- Incentives and Disincentives for Development
- Access to Right of Way



Public Assets

- Use of Assets (Public Land, Public Facilities)
- Redevelopment Authority, Parking Authority



Market Participant

- Procurement Strategies (Priorities and Processes)
- Procurement (as Indicator)
- Public Employees and Staffing



Market Regulator

- Legislative (City Codes)
- Taxation (Rates, Borrowing Funds), Permits, Licenses
- Employment (Rules, Remuneration Rates, Conditions, Bargaining)



Public Private Partnerships

- Endorsement or Advocacy
- Soft Power



Police

- Safety, Welfare, Enforcement, and Morale

THE PLAN



1

Determine Impacts & Set Goals

- Determine impacts to the city
- Review impacts against city goals and available tools
- Develop Key Performance Metrics (KPMs)
- Develop recommendations for internal actions



2

Communicate Goals & Act Internally

- Identify champion and lead for the initiative
- Review KPMs with key stakeholders to solicit partners
- Communicate KPMs and initiative publicly
- Begin implementation of internal recommendations



3

Guide Collaboration Along KPMs

- Assess new initiatives against KPMs
- Drive action with data
- Use collaborative platforms to bring diverse groups together on specific initiatives

Those cities that take this model on first will be the ones best positioned to move into an uncertain future, whether those unknowns take the form of autonomous vehicles and smart technologies or some other innovation we have yet to imagine.

Ready to start preparing your city for the smart environment?

Contact Us to Start a Conversation

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