Exploring Smart Cities: Cities of the Future

Adam Beck, Executive Director
Our Vision

We envision a world where digital technology, data, and intelligent design have been harnessed to create smart, sustainable cities with high-quality living and high-quality jobs.

We promote cities that embody our three core values – liveability, workability, & sustainability.
Cities cannot compete globally without **smart infrastructure**

Cities are our economic engines

Cities are swelling

Cities are challenged by growth

The community has high expectations
The smart cities movement is a global agenda.
A smart city is one that...

…dramatically increases the pace at which it improves its sustainability and resilience,

…by fundamentally improving how it engages society, how it applies collaborative leadership methods, how it works across disciplines and city systems, and how it uses data and integrated technologies,

…in order to transform services and quality of life to those in and involved with the city (residents, businesses, visitors).
The smart ‘infrastructure’ lens
Planes, Trains and Automobiles

Image: Denis Carrascosa

Image: Gizmodo Australia

The Internet of Everything
FIVE STRATEGIES FOR UNLOCKING THE SMART CITY

1. Develop the vision & capacity to innovate
2. Aggregate demand
3. Rigorous sustainability metrics
4. Embrace new financial models
5. Urban transformation pilot projects
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The world is not waiting...
“We cannot allow regulation to catch up with innovation.”

Debra Lam
Chief of Innovation & Performance
City of Pittsburgh
Develop the VISION and the capacity
Happier for less in Dubai

DubaiNow smartphone app

$1 billion savings
...and on building capacity:

// think big... but start small
// work together... but move fast
// emphasise synergies & interdependencies
// borrow from the past
// harvest good ideas
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This is an idea whose time has come.

It is the beginning of digital government and it’s only going to accelerate.

Megan Smith
Chief Technology Officer
White House OSTP
Automated vehicle technology has the potential to **transform** transportation systems and land use patterns and land use patterns to a level not seen since the mass production of the private automobile a century ago.

Jeremy Crute  
Florida State University
The market by the numbers

$1.13 trillion by 2019
- Markets & Market
- 20.5% CAGR (compound annual growth rate)

$1.38 trillion by 2020
- Mordor Intelligence
- 20% CAGR overall, 38% CAGR Asia-Pacific

$1.56 trillion by 2020
- Frost & Sullivan

$2.1 trillion by 2020
- The Climate Group
The benefits of demand aggregation

Collaborating leads to greater innovation

Scaling leads to inclusion

Reducing duplication of effort

Reducing costs through infrastructure sharing

Increasing economies of scale

Squeezing maximum value from assets

Opportunities for collaborative purchasing
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Unlock the limitations of one-dimensional metrics
<table>
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<tr>
<th>No.</th>
<th>Category</th>
<th>Subcategory</th>
<th>Code</th>
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<td>Corporate Responsibility</td>
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<td>Sustainability Awareness</td>
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<td>Community Participation and Governance</td>
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<td>Employment</td>
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Metrics that matter...
The light post is merely the backbone structure for more than 12 other urban performance management functions.
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Those of us living in cities need to make sure they are smart cities. **Nothing else makes sense**

And nothing else is such a world-wide **economic opportunity**

**Neelie Kroes**
**Vice President**
**European Commission**
Barcelona 2014
56,000 jobs, $3.6 billion in benefits
// 1,500 New Companies
// 56,000 New Jobs
// Mobile Collaboration: $1.6B
// Telework: $199M
// Smart Parking: $67M
// Smart Water: $58M
// Smart Lighting: $47M
Australia’s Smart Cities Plan

- Smart Investment - Infrastructure Financing Unit
- Smart Policy – City Deals
- Smart Technology – Smart Cities & Suburbs
1. Based on a partnership model, coordinated government decision making
2. An integrated investment plan, deeply rooted in performance metrics
3. Focused on unlocking economic potential and investment attraction
4. Improved sustainability outcomes
“Australia has an estimated $800 billion infrastructure deficit…”

Therein lies the opportunity for the smart cities movement
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City of Vancouver

A laboratory for experimentation and innovation, in partnership with universities and the community
“A Resolution declaring the City of Seattle will support the Capitol Hill EcoDistrict as a framework and agent for advancing City sustainability goals…”
Smart Infrastructure Unlocks Equity and Prosperity for Our Cities and Towns

How state and federal government can help cities of all sizes create greater equity — and prosperity — with technology that provides jobs for American workers

Smart infrastructure ROI in action
11 case studies from around the world

1. New York City:
   Setting the standard for urban connectivity

2. Orlando:
   Building microgrids drive an energy efficient future

3. University:
   Gets an A for illuminating next gen public safety

4. Worcester:
   Utility customers pitch in to save energy and money with remarkable results

5. Las Vegas:
   Using wireless connectivity to conserve water

6. San Diego:
   Electric 'superhighway' brings clean energy to San Diego

7. Greensboro:
   Achieving energy net zero in wastewater treatment

8. Barcelona:
   Tackling the Internet of Things to new levels

9. Medellin:
   Driving mobility with inclusion and intelligence

10. Dubai:
    Embracing smart technology for a happier city

11. Chattanooga:
    Smart grid and gigabit service bring jobs
Smart Cities Readiness Guide

PDF and online.

World’s leading smart city handbook, now in its second edition.

Australia/New Zealand Version to launch in 2017.
Thank You

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