

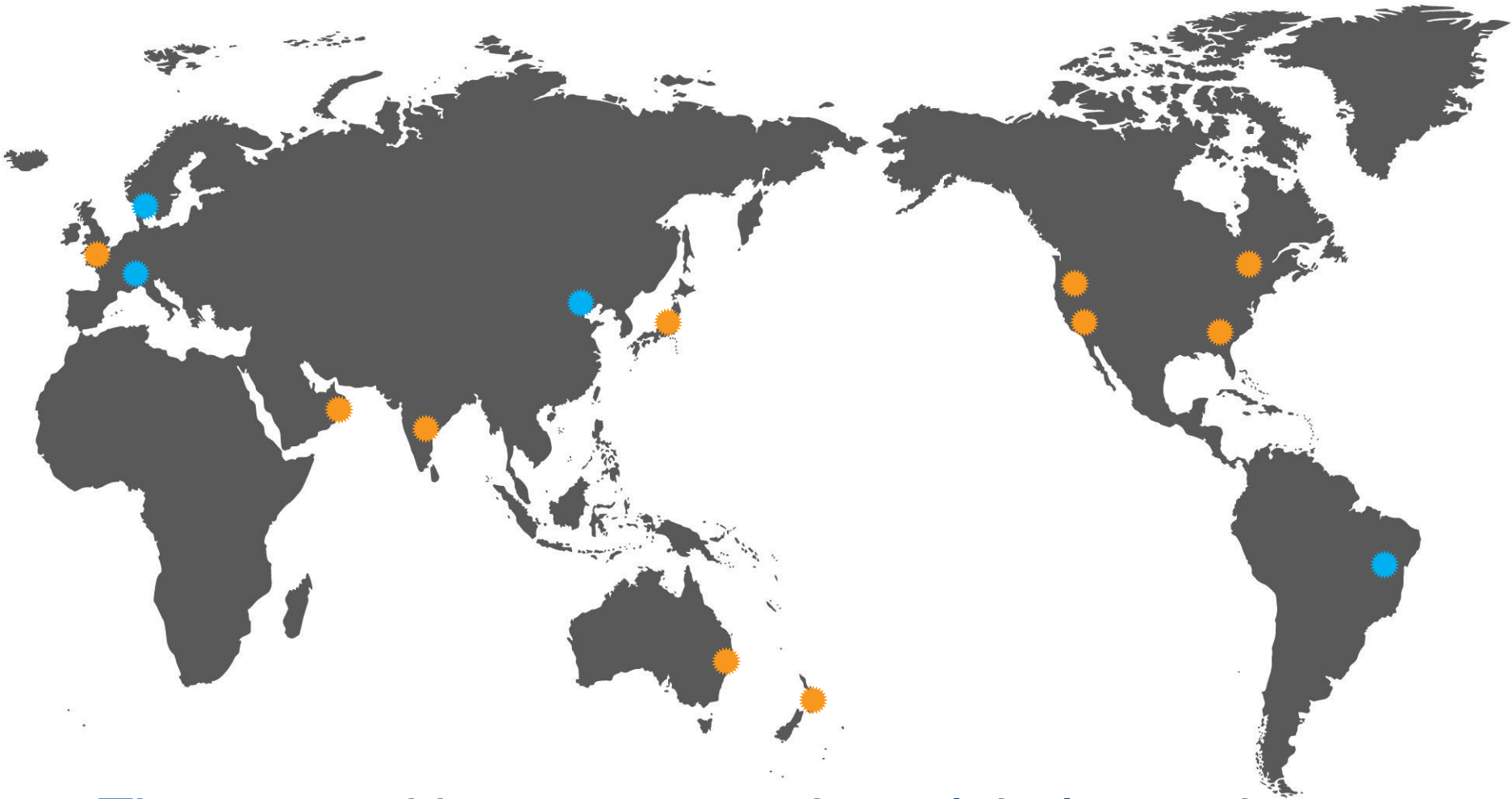
THE CODE FOR SMART COMMUNITIES

Powering Sustainable Cities of the Future

Smart**Cities**Council® Liveability
Australia New Zealand Workability
Sustainability



@adambeckurban
@smartcitiesanz



The smart cities movement is a global agenda

WHAT. IS. A. SMART CITY?

A city that uses information and communication technology (ICT) to enhance its liveability, workability and sustainability.

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).

International Standards Organisation



Smart Cities 1.0

Technology Driven – lack of the fundamental dynamic of how cities interact with people

Smart Cities 2.0

Technology Enabled, City Driven – understanding the role of smart technologies and other innovations in realising the city's future vision

Smart Cities 3.0

Citizen Co-Created – grounded in equity and social inclusion, are sharing cities, embracing citizen co-creation models

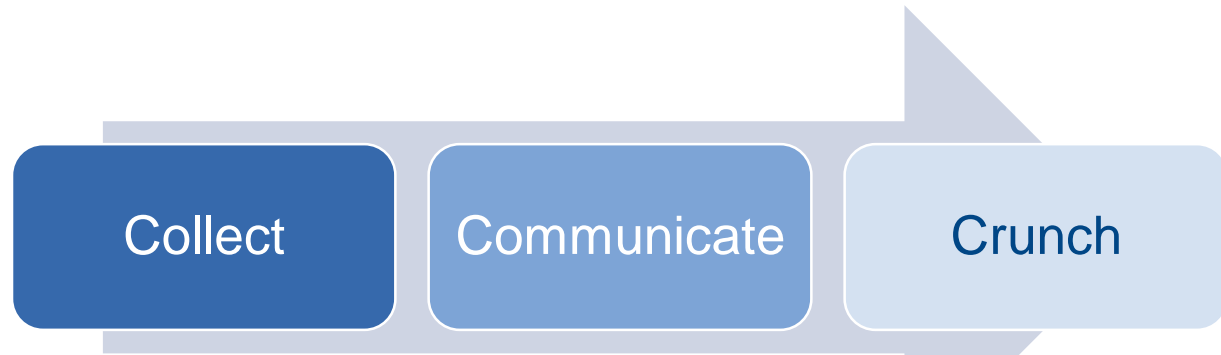
Three Generations of Smart Cities

-Boyd Cohen

Sustainability is the outcome.
Smart cities is the accelerator.



What are the Core Functions of Smart City?



Collect

- Information about conditions across all areas (power, water, traffic, weather, buildings, etc.). and store

Communicate

- Information, to other devices, to control centre and/or to operations servers
- Devices both “talk” and “listen”

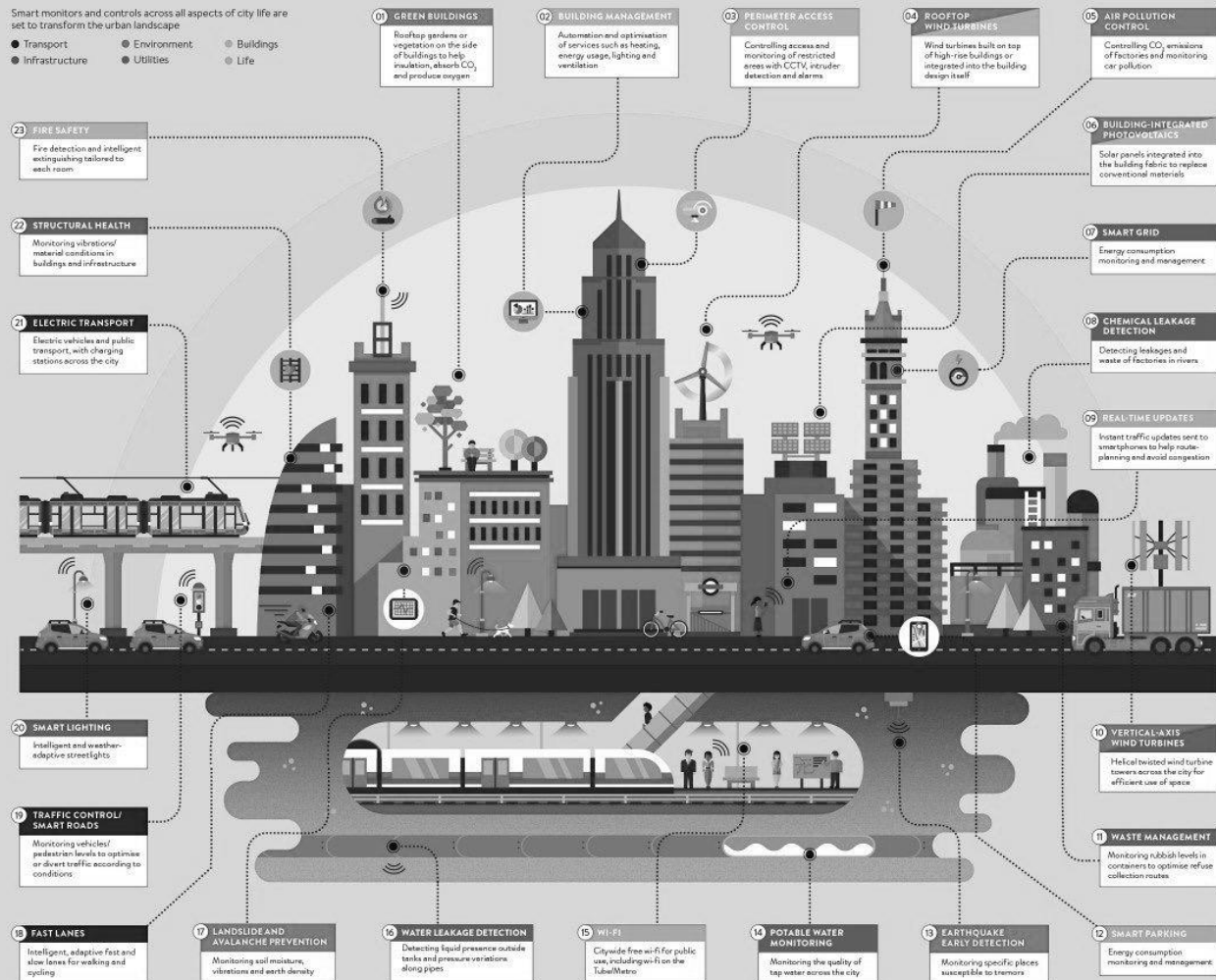
Crunch

- Data to provide actionable intelligence
- 1) situational awareness, 2) real-time optimisation and 3) predictive analytics

We can measure... everything

Smart monitors and controls across all aspects of city life are set to transform the urban landscape

- Transport
- Environment
- Buildings
- Infrastructure
- Utilities
- Life



Creating new digital layers in the city

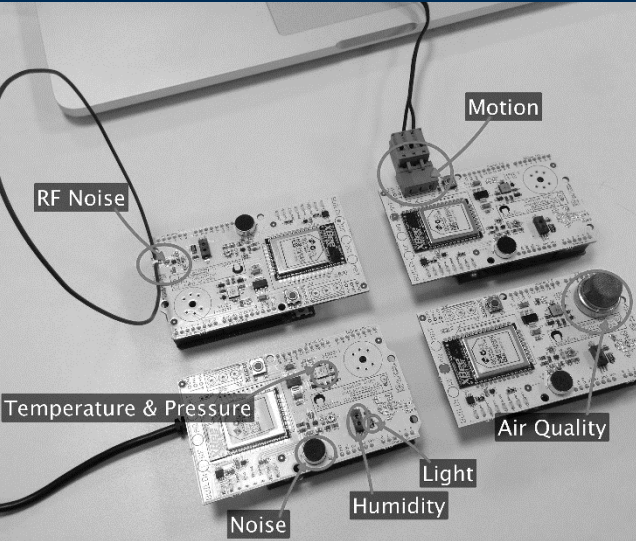


Image: Rob Faludi

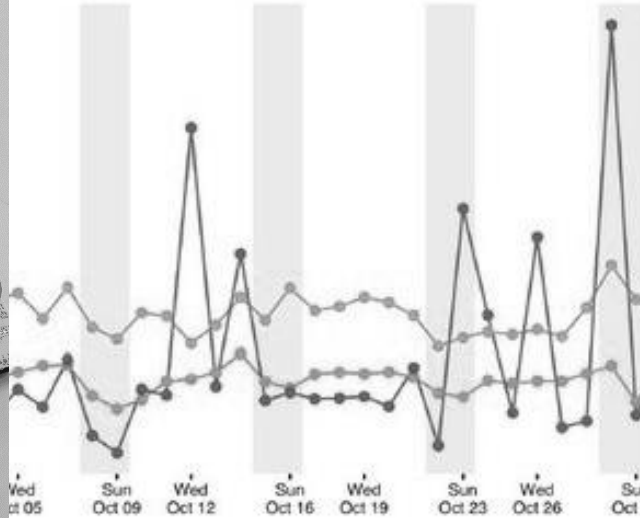


Image: Soofa

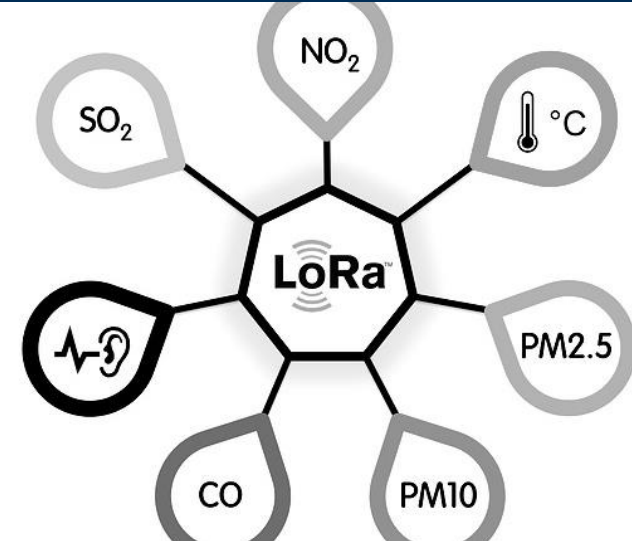


Image: Technology for Urban Liveability Project

The Smart Cities Framework



What are Smart City Universal Principles?

Technology Enabler	Universal Principles
Instrumentation and Control	1. Implement optimal instrumentation
Connectivity	2. Connect devices with citywide, multi-service communications
Interoperability	3. Adhere to open standards 4. Use open integration architectures and loosely coupled interfaces 5. Prioritise use of legacy investments
Security & Privacy	6. Publish privacy rules 7. Create a security framework 8. Implement cybersecurity

What are Smart City Universal Principles?

Technology Enabler	Universal Principles
Data Management	9. Create a citywide data management, transparency and sharing policy
Computing Resources	10. Consider a cloud computing framework 11. Use an open innovation platform 12. Have access to a central GIS 13. Have access to comprehensive network and device management
Analytics	14. Achieve full situational awareness 15. Achieve operational optimisation 16. Achieve asset optimisation 17. Pursue predictive analytics

The Code for Smart Communities

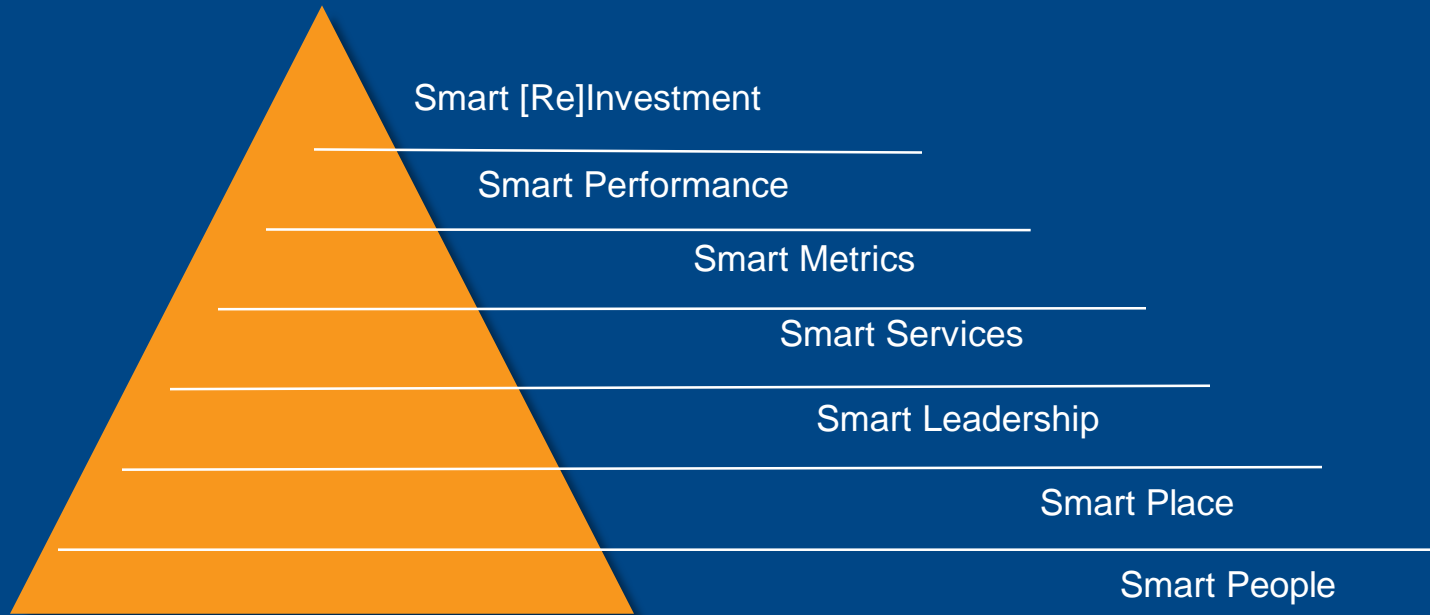


ABOUT THE CODE

Code for Smart Communities is set to become a **fundamental reference point** in city making projects in Australia and New Zealand, that will help **accelerate liveability, economic development, and environmental outcomes.**

It will include an agreed set of **principles, model language, and common metrics.**

The Scope





**YOU'RE
INVITED**

The Code for Smart Communities

Scoping Paper

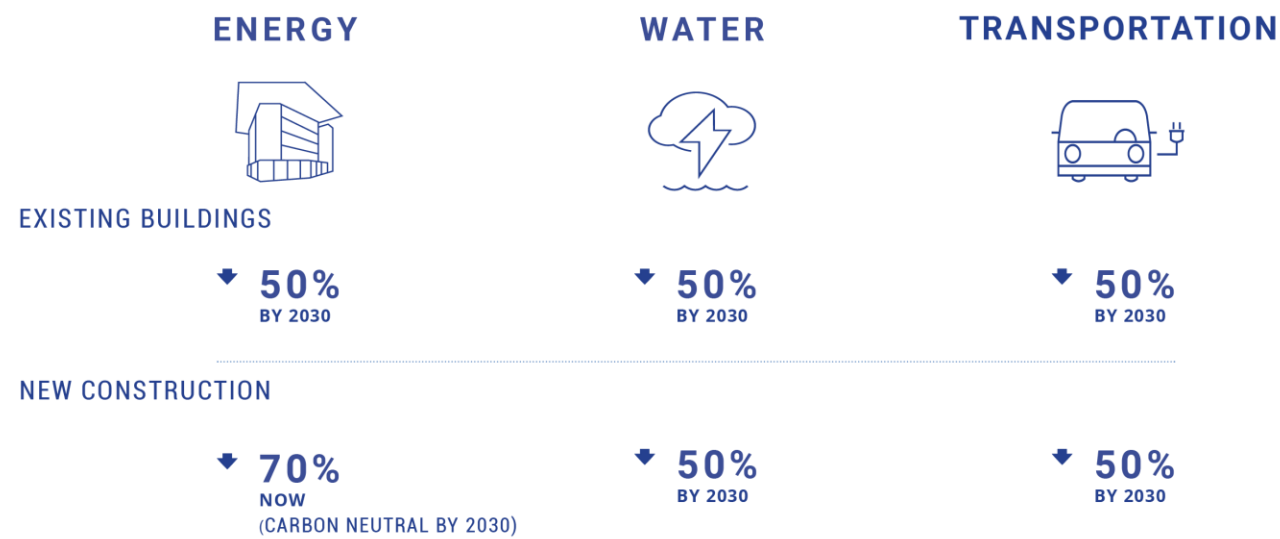
Smart**Cities**Council® Liveability
Australia New Zealand Workability
Sustainability

Seattle 2030 District

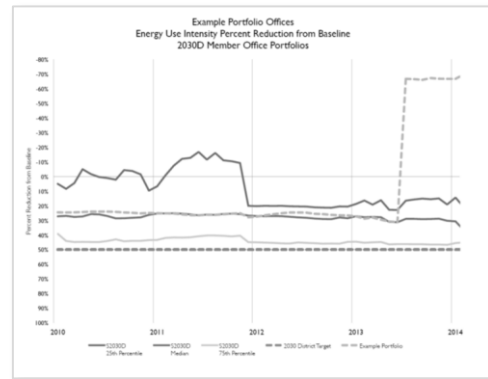
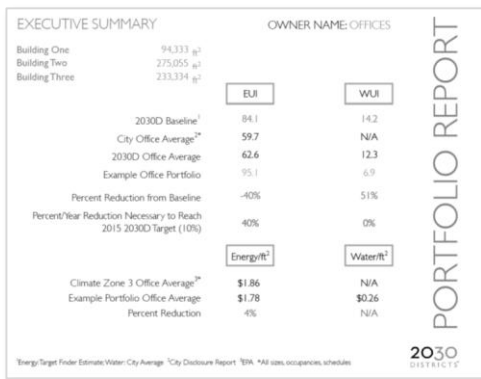
A Private-Public Partnership
of property owners and
managers driving a 50%
reduction in energy use by
2030.



The Goals



Data > Intelligence > Action

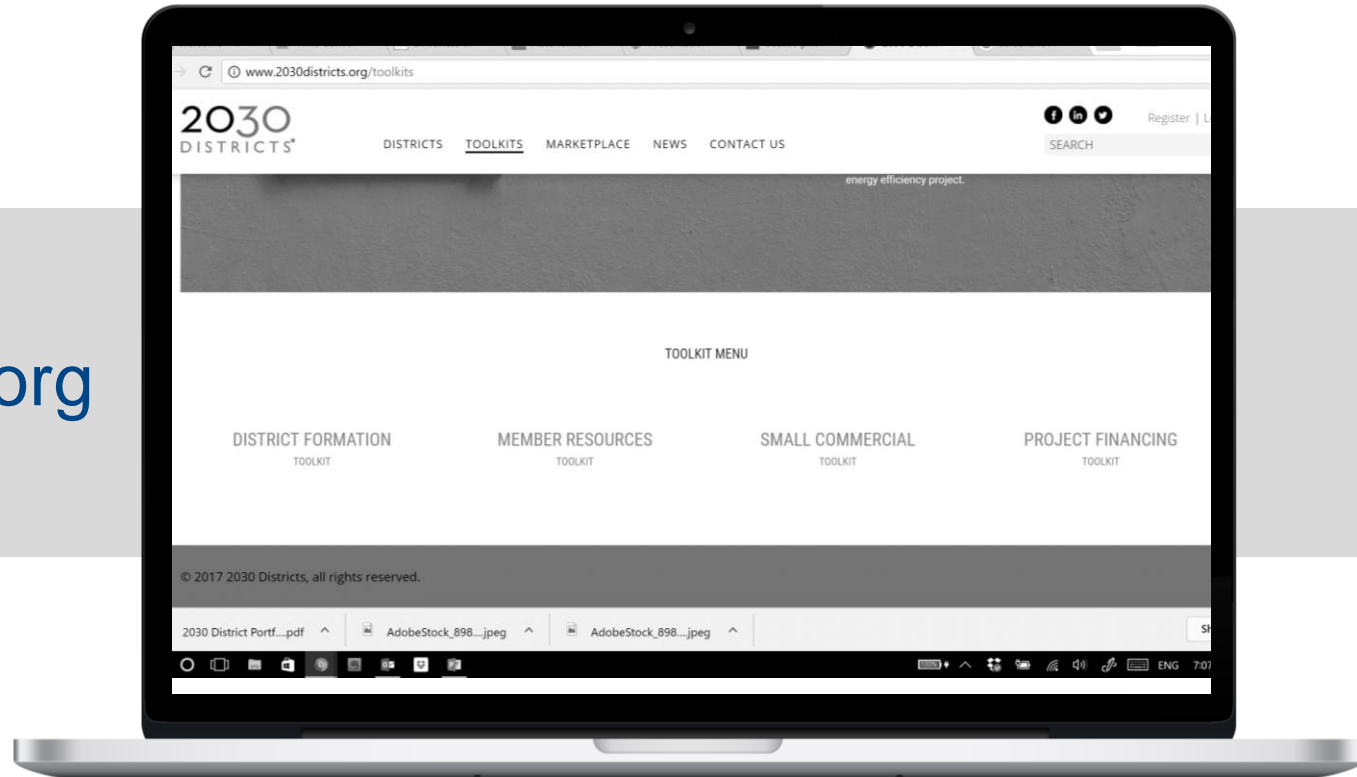


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Smart Cities Readiness Guide



PDF and online.

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

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SMART CITIES READINESS GUIDE

The planning manual for building tomorrow's cities today



SmartCitiesCouncil
LIVABILITY · WORKABILITY · SUSTAINABILITY

Welcome to the Readiness Guide. This document was assembled with input from many of the world's leading smart city practitioners – the members and advisors of the Smart Cities Council. It will help you create a vision for the future of your own city. Equally important, it will help you build an action plan to get to that better future.

The first goal of the Readiness Guide is to give you a “vision” of a smart city, to help you understand how technology will transform the cities of tomorrow.

The second goal is to help you construct your own roadmap to that future. It suggests the goals to which you should aspire, the features and functions you should specify, the best practices that will gain you the maximum benefits for the minimum cost, at reduced risk.

The Readiness Guide is intended for mayors, city managers, city planners and their staffs. It helps cities help themselves by providing objective, vendor-neutral information to make confident, educated choices about the technologies that can transform a city.

Cities around the world are already making tremendous progress in achieving

Login to Print PDFs

[Login](#) and you can print custom PDFs of each of the Readiness Guide Chapters

READINESS GUIDE TOC

Introduction to Smart Cities

How to Use the Readiness Guide

Smart People

Universal

Built Environment

Energy

Telecommunications

Transportation

Water and Wastewater

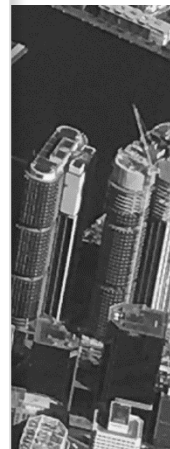
Waste Management

Health and Human Services

Public Safety

Smart Payments and Finance

Ideas to Action



Thank You

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Smart**Cities**Council

Australia New Zealand