Weaving a Smart City Together with the Right Machine-to-Machine Fabric

CJ Boguszewski
Senior Commercial Director,
Smart City Solutions
Silver Spring Networks, Inc. (NYSE: SSNI)

Demography

Urbanization

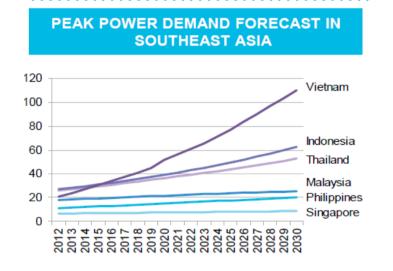
Population explosion

... Plenty of Machine-to-Machine Marketing by Big Names

The Example of Asia

- Home to half the world's population
- Rapidly urbanizing myriad challenges ... take power





Source: Bloomberg presentation, "Realising the Potential of Smart Energy", Singapore July 2013



Auckland, New Zealand



Can technology that makes lights communicate really help?

A fabric for the Internet of Important Things ... sounds like more Marketing.

What's so different to a couple of years ago?

Outdoor Lighting Market Overview

Market Overview

- **300M** public, **300M** commercial lights
- <1% lights are networked
- Munis & Businesses often outsource lighting management to Utility or Lighting Operator

Market Trends & Growth Drivers

- LED reliability is now proven, price is dropping rapidly encouraging deployment
- LEDs provide compelling emergency and public safety applications
- Concept of Networked LEDs is gaining acceptance small NZ CMS trials already done
- Networked communications cost is dropping rapidly due to scale from Smart Grid
- "Smart City" provides a political impetus for cities to leverage technology infrastructure to improve citizen services



Silver Spring Networks grew up in the Smart Grid market.

Our upbringing taught us to think about networks horizontally,

a *platform* on which vertical, specific applications could reside.

Only then did the business case get really compelling.

Strict, Complex Networking Requirements



Can't Mobile Networks Do That?

While

mobile operator technologies

have provided

increased coverage and data rates

for users of expensive smart

phones ...

... the missing piece

to the puzzle

has been

cost-effective

and

ubiquitous

Machine-to-Machine "dial tone"

to millions

of sensors and

devices



Cost Effective and Ubiquitous Wireless Network

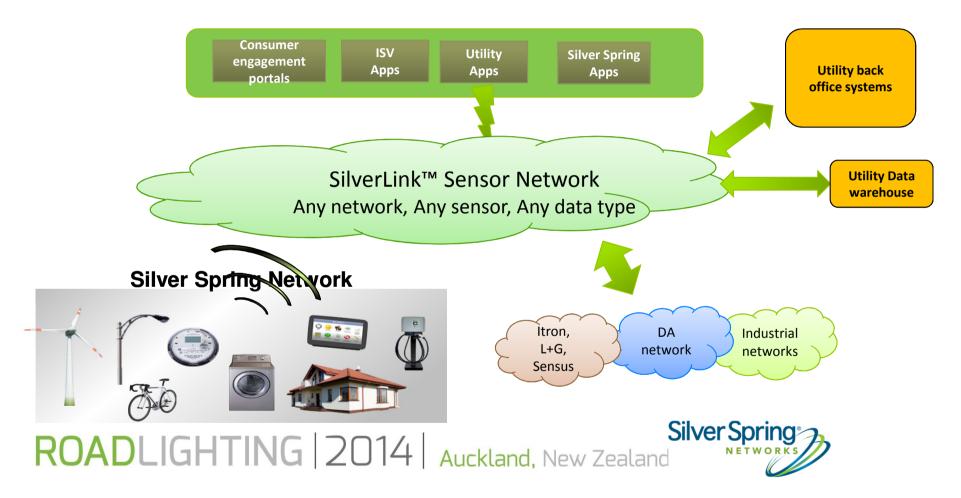


Network-as-a-Service

- Computing Fabric
 - Large
 - Capable
 - Distributed
 - Standards-driven
 - Secure
- InterMesh
- Basis of an Internet of Important Things

- Coverage that offers:
 - Storage
 - Computing horsepower
 - Immediate communicative sensor access
- Unique scale, scope, capabilities

The SilverLink™ Sensor Network Vision



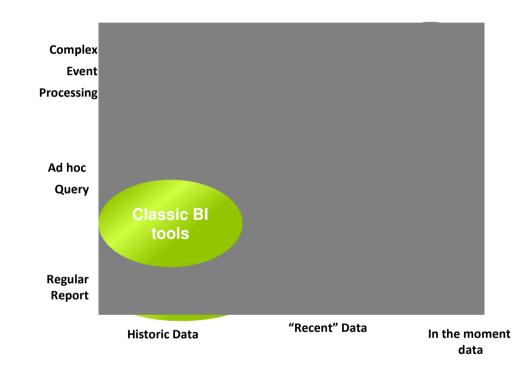
SilverLink's Unique Approach

Think distributed intelligence platform

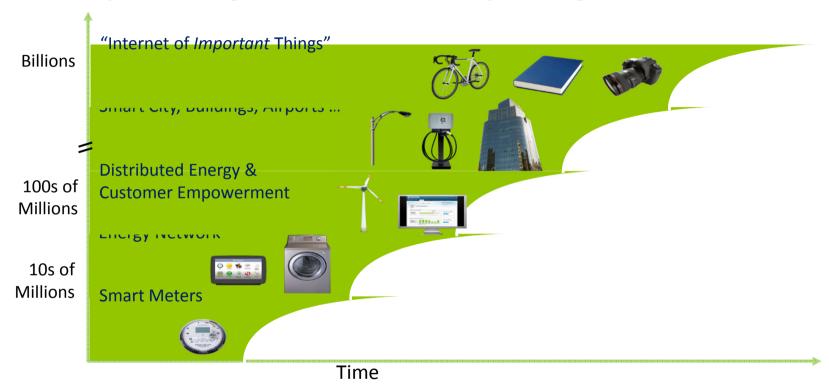
Manage "services" not "devices"

More real-time, not batch

Leverage innovators from anywhere



Expanding into The Everything Network™



Silver Spring's Vision for a Smart City Solution

Smart city applications

Continuously connected big data

Proven IPv6 network

Open standard devices























By connecting and automating key services with the right network

cities are

becoming smarter,
finding new funding,
getting more efficient,
and
strengthening
communities

Copenhagen

Citelum is the contract holder

Silver Spring Networks is working in Strategic Partnership with Citelum

Lighting Master Plan delivered to the City and rollout planned through end 2015







EU's most sustainable city

Aggressive carbon reduction targets

Collaborative city departments all leveraging the network to achieve automation aims

To put it simply,

Copenhagen is not the only one thinking like this.

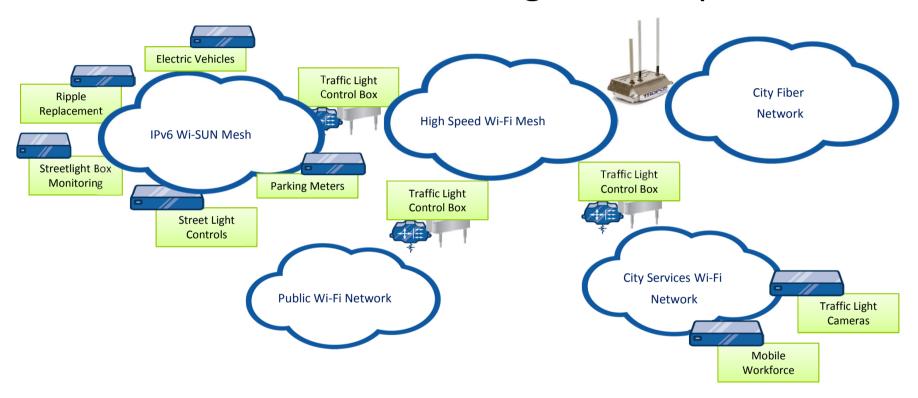
The right network architecture underpins the roadmap.

Software-defined Sensors

IPv6 to RESTful: apps simply subscribe to services



Smart Cities: Drag-and-Drop



THANK YOU!

Questions?

cjboguszewski@silverspringnet.com

+1 650 839 4000