CISCO



Role of Technology
In
Sustainable Large Developments

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Managing Director December 11, 2012

cisco

The Evolution of the Internet

Business and Societal Impact



Connectivity

Digitize Access to Information

- Email
- Web Browser
- Search



Networked Economy

Digitize Business Process

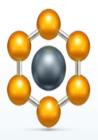
- E-commerce
- Digital Supply Chain
- Collaboration



Immersive Experiences

Digitize Interactions (Business & Social)

- Social
- Mobility
- Cloud
- Video



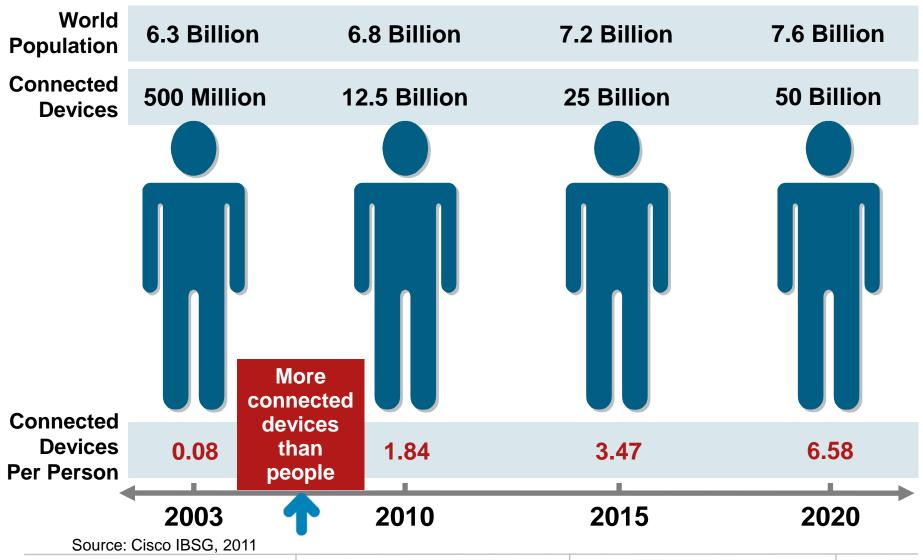
Internet of Everything

Digitize the World

Connecting:

- People
- Process
- Data
- Things

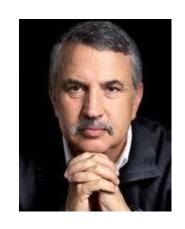
The Internet of Things Is Already Here

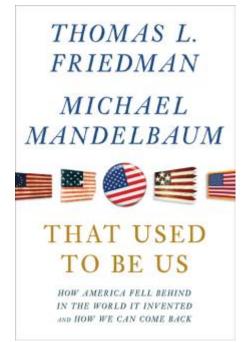


Moving from Connected ... To ... Hyper-Connected

"When I said the world is flat, Facebook didn't exist. <u>Twitter</u> was a sound. The Cloud was in the sky. 4G was a parking place. LinkedIn was a prison. Applications were something you sent to college. And, for most people, <u>Skype</u> was a typo.

That all happened in the last seven years. And what it has done is taken the world from connected to hyperconnected. And that's been a huge opportunity and a huge challenge."





Enabling Social, Environmental and Economic Sustainability



Running a Campus, Village, City, Community, Country, the World on Networked Information

Sustainability Services Delivered by an ICT-based Platform

Social

Enhanced quality of life for citizens

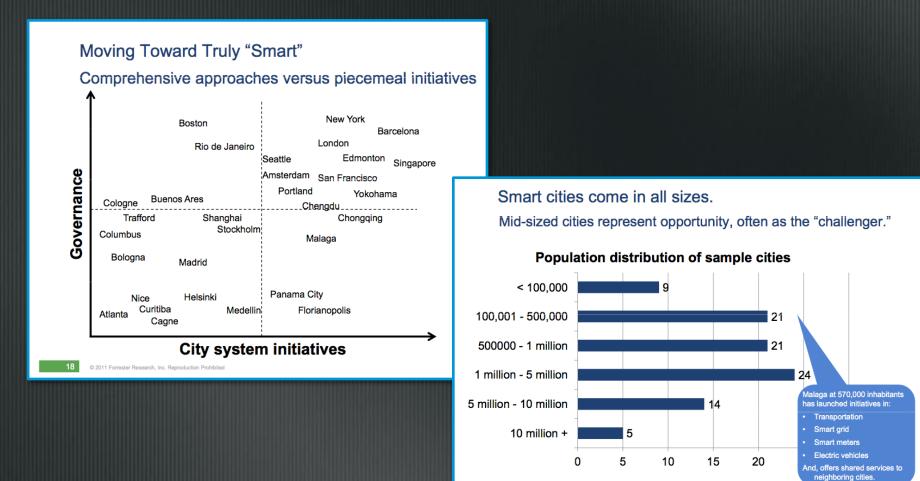
Environmental

Protecting the world for future generations

Economic

Continuous job and business growth

From "Smart Things" to "Smart Cities" Scaling From Large and Grandiose to "Shavings Make a Pile"

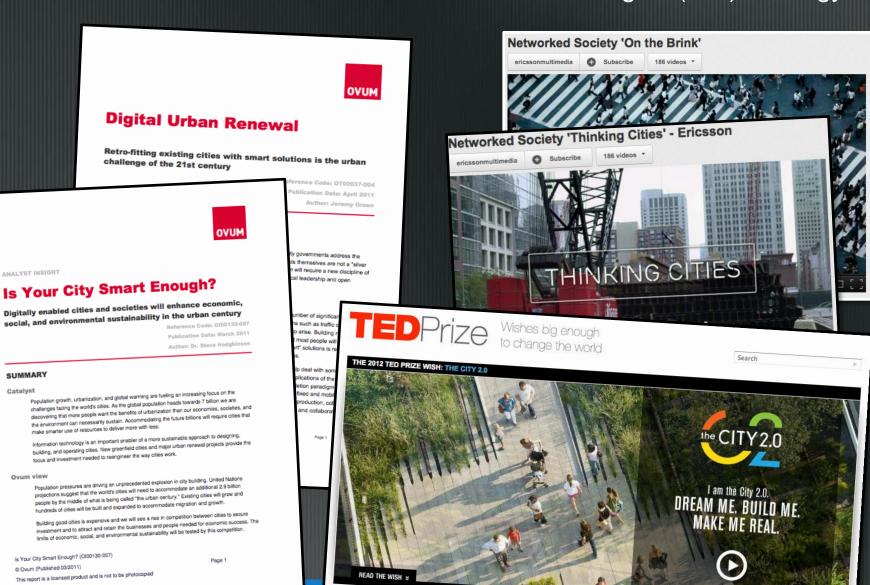


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Do You Have a "Smart-ification" Strategy?

It Starts With an Information & Communication Technologies (ICT) Strategy



ANALYST INSIGHT

SUMMARY

Ovum view

Catalyst

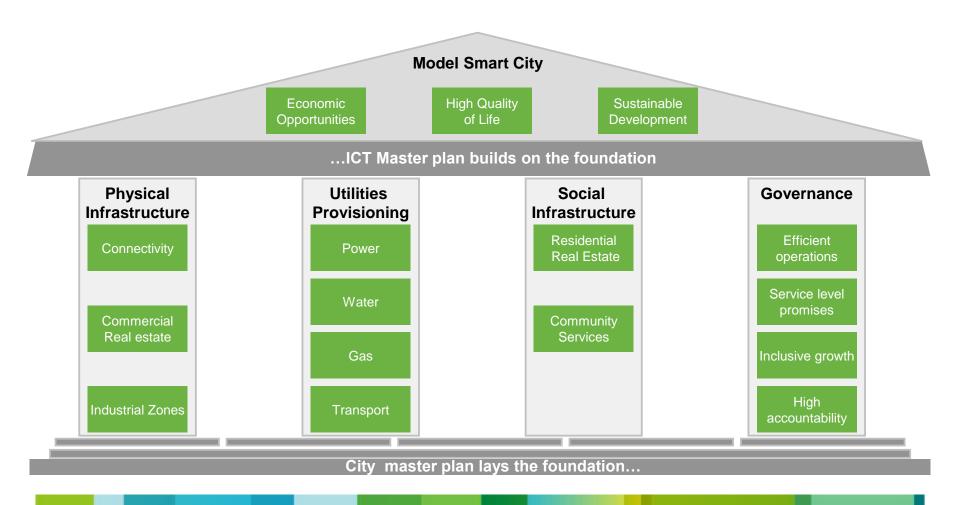
Digital and Physical Infrastructure Need to be Seamless in order to Create Sustainable Cities

Inter-Government, Citizen and Business Services



ICT Master Planning Process

City Master Plan is the basis for an ICT Master Plan – both plans jointly create a Smart City



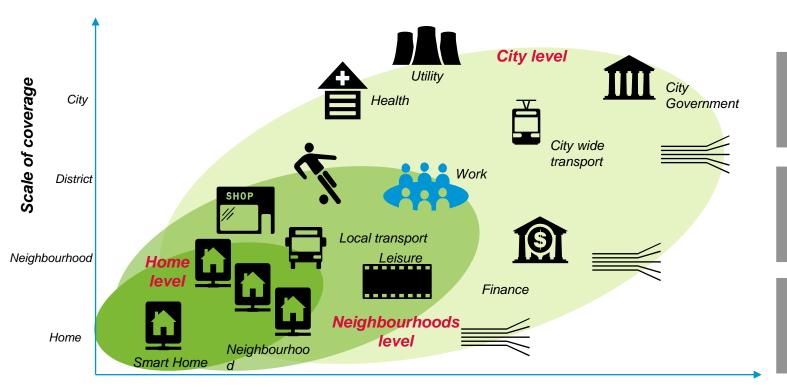
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Three categories of ICT services come together to form a smart city

ILLUSTRATIVE

Smart City Conceptual Map

Service Hierarchy



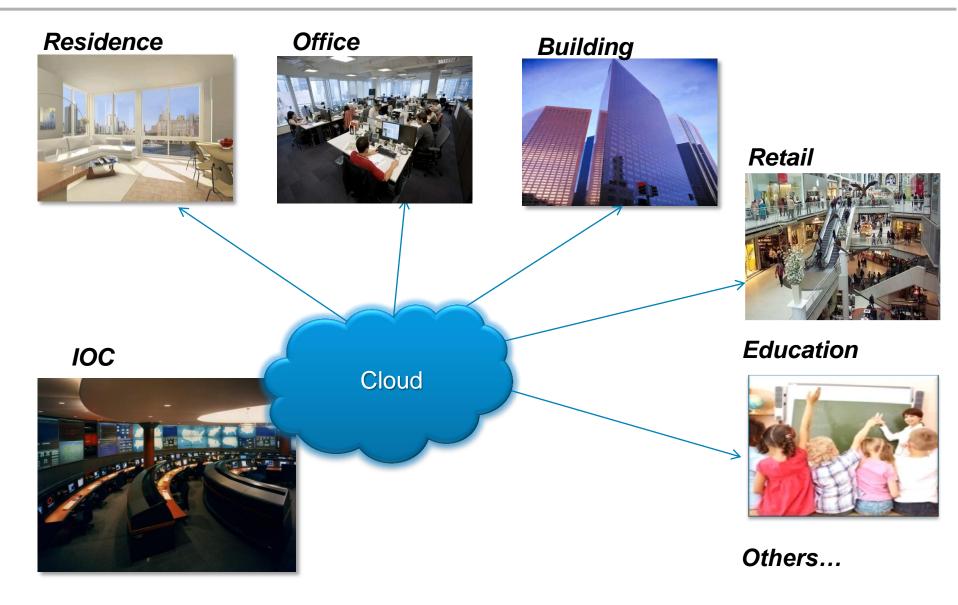
Commercial **Services** (provided by the private sector)

City Services (provided by the city government)

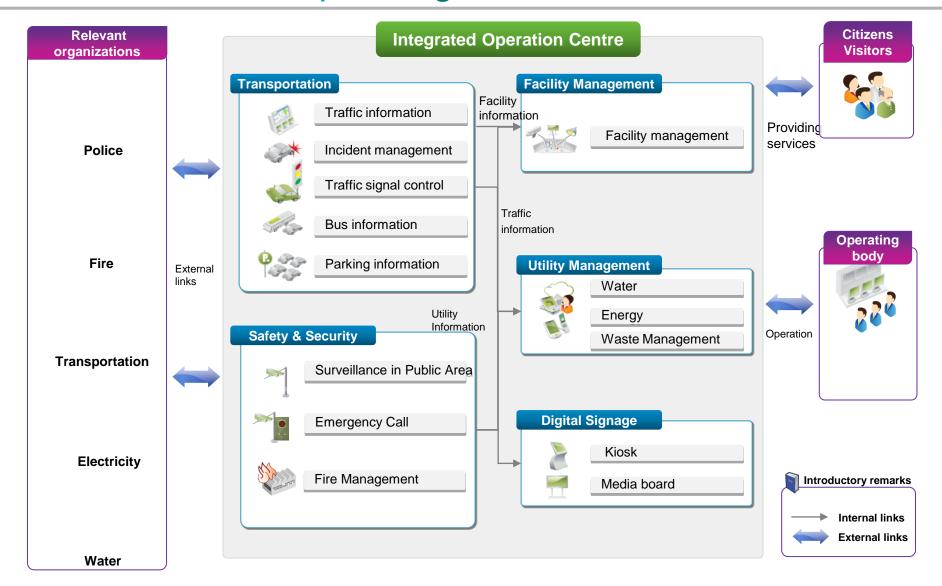
ICT Core Infrastructure (city-wide ICT infrastructure)

Breadth of integrated services

The ICT Master Plan Deliverables Public/Private Cloud Strategy



City-wide Services: Integrated Operations Center with Centralized Operating Platform



Smart+Connected Communities

Implementations Around the World

Proof Points



Amsterdam: Smart Working Centres



Seoul: Personal Travel Assistant



San Francisco: Urban EcoMap; Connected Bus

Case Studies



Kuwait: Al Hamra





Philippines: Twin Oaks Place



NYC: Yankee Stadium



Vietnam: Times Square



India: UST Global, Kerala



Cisco on Cisco

New Development



South Korea: Songdo



China: Chengdu



India: DMIC



Portugal: PlanIT Valley



Russia: Skolkovo



S Arabia: King Abdullah Financial District



India: Mantri Developers



Malaysia: Iskander

Revitalization & Growth



Toronto



San Francisco



Barcelona



Colorado: Connected Communities Initiative



Holyoke, Massachusetts



China: Chongqing



Vancouver



London



Jacksonville, Florida



Chicago: Lakeside

Dholera SIR - DMIC

A New Gujarat Within Gujarat



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Skolkovo Innovation Hub

Russia



Have an idea?









Technologies

Biomedical Technologies Energy Efficient

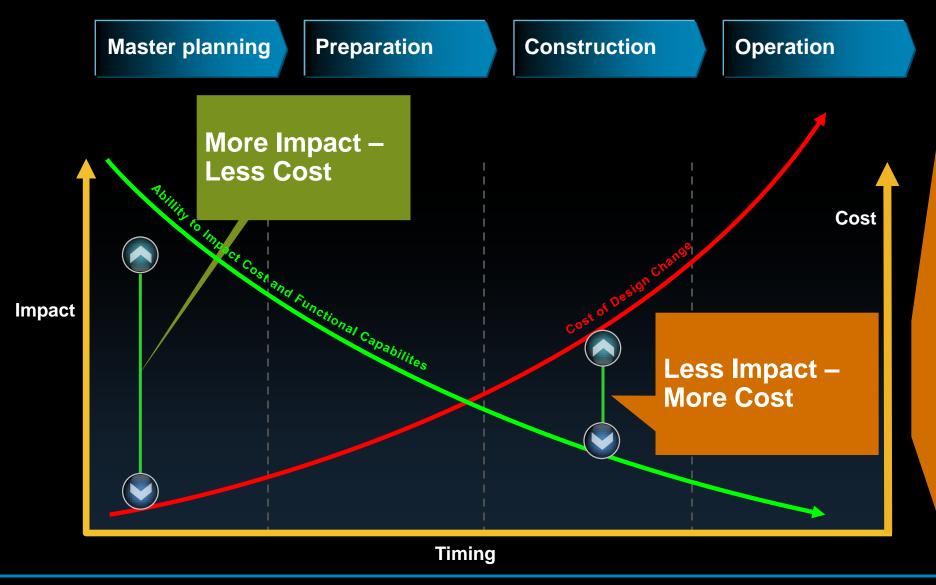
Collaborating with the Skolkovo Foundation.

Living Lab: Residents develop new technologies to sell to globally.

Clusters: Biotech, Energy, IT, Space and Nuclear technology.

Establishing Skolkovo as a Global Innovation Hub.

Timing of ICT Master Planning is Critical



One Final Thought...



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Thank you.

