



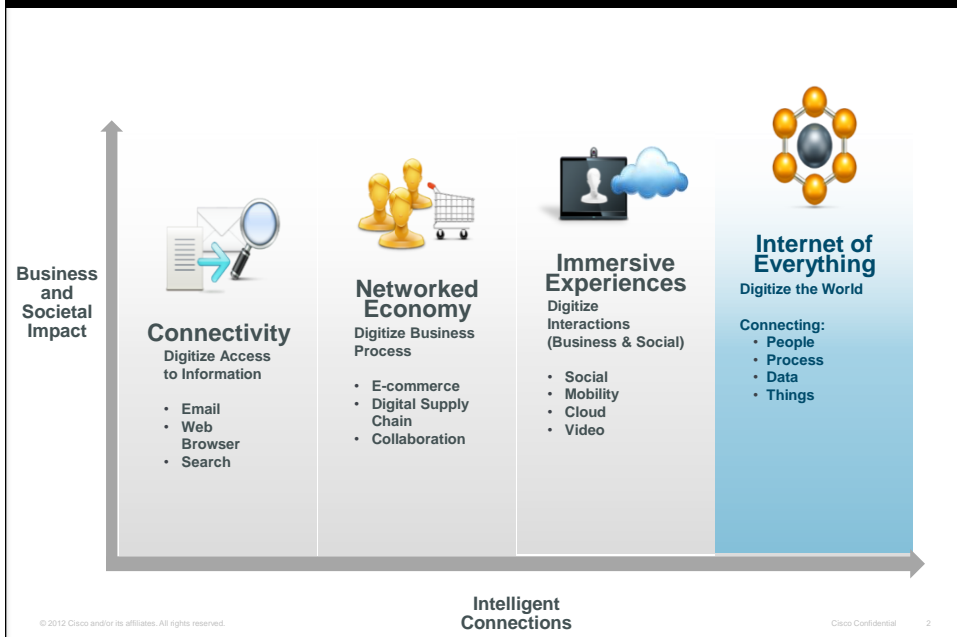
**Role of Technology  
In  
Sustainable Large Developments**

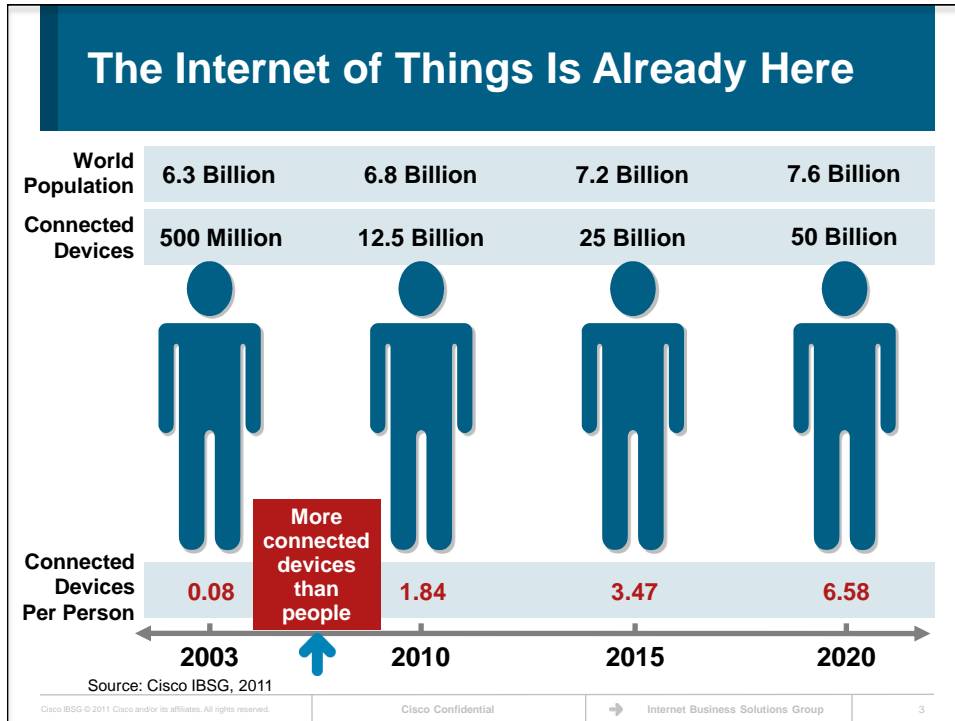
**Ravinder P Singh** PMP ITIL TOGAF ISO DMAIC  
Practice Leader : Borderless Networks

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## The Evolution of the Internet

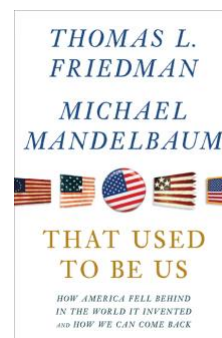




## Moving from Connected ... To ... Hyper-Connected

“When I said the world is flat, Facebook didn’t exist. Twitter 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, Skype was a typo.

That all happened in the last seven years. And what it has done is taken the world from connected to hyper-connected. 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”

### Moving Toward Truly “Smart”

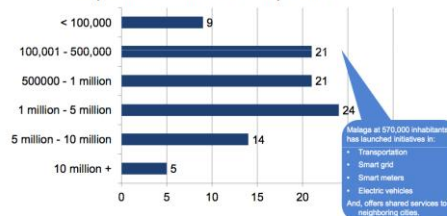
Comprehensive approaches versus piecemeal initiatives



Smart cities come in all sizes.

Mid-sized cities represent opportunity, often as the “challenger.”

### Population distribution of sample cities



# Do You Have a "Smart-ification" Strategy?

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

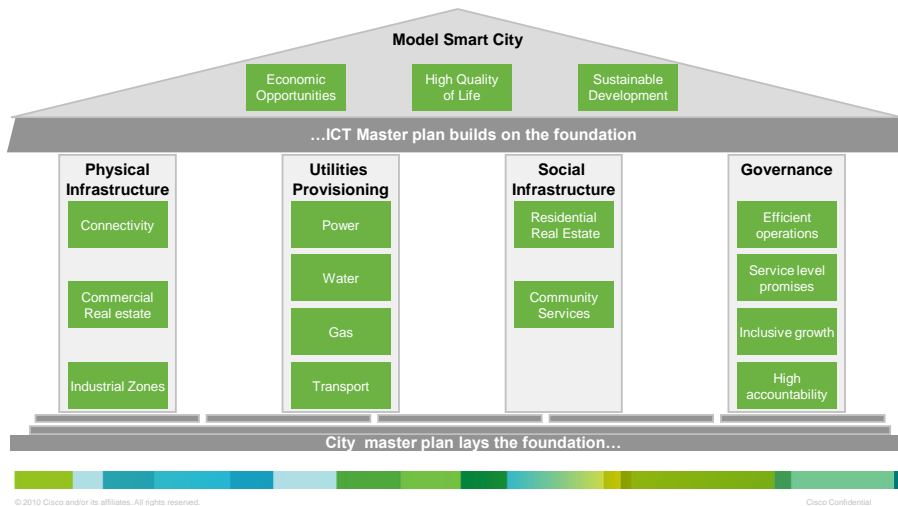


## Digital and Physical Infrastructure Need to be Seamless in order to Create Sustainable Cities

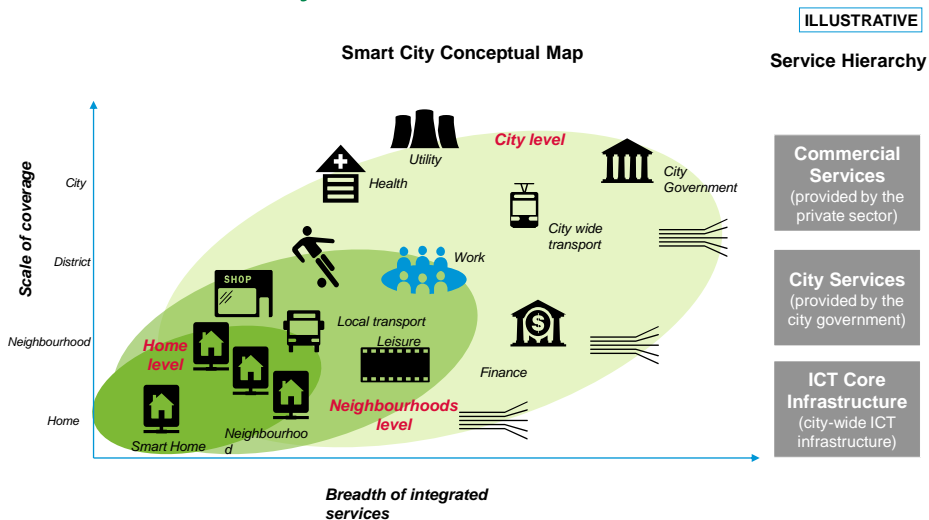
Inter-Government, Citizen and Business Services



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






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











## 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 Tower
-  **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

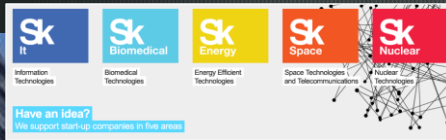
## Dholera SIR - DMIC A New Gujarat Within Gujarat



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## Skolkovo Innovation Hub Russia



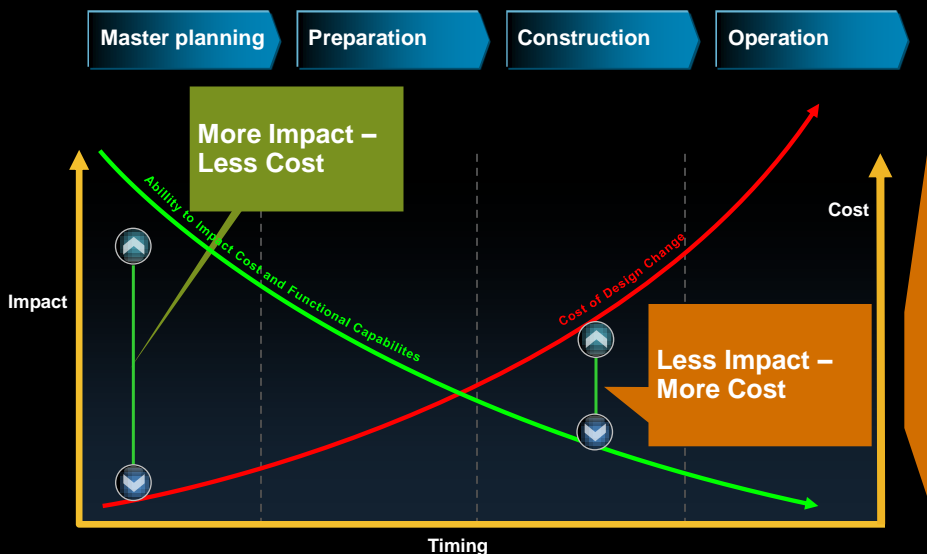
Collaborating with the Skolkovo Foundation.

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**.

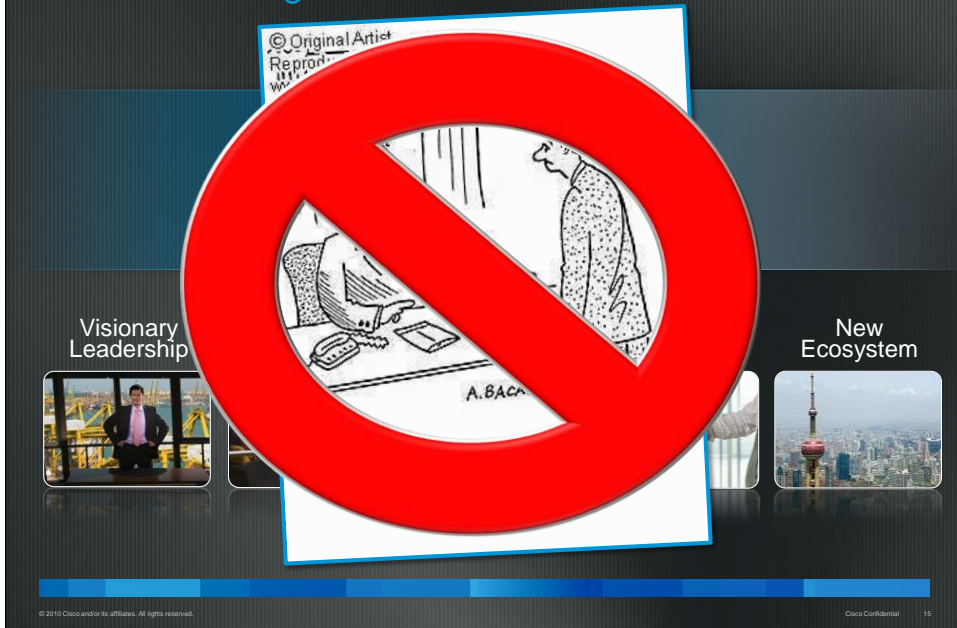
## Timing of ICT Master Planning is Critical



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## One Final Thought...



Thank you.



*TOMORROW starts here.*