



#### 城市化的遷移趨勢 The Trend of Urbanization

This trend has converted cities into intellectual hubs and cultural and financial capitols. Cities also bring in congestion, pollution and public safety issues.



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Today, about 54% of the world's population lives in urban areas and consumes about 2/3 of world energy. And according to the United Nations forecast, this number will increase to about 6.3 billion (66% of the world's population) by 2050.



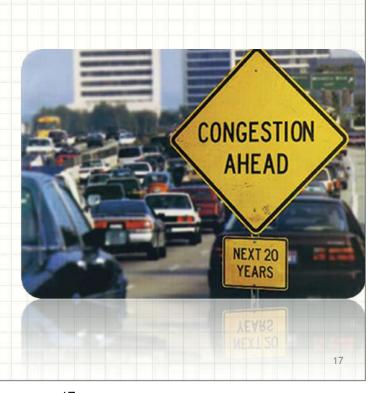
## China is Moving into urbanization with the speed of disappearing 100 villages a day

According to China Society Blue Book published on 11/3/2012, China's urbanization population has exceeded 50%, China's urban population for the first time over the agricultural population.





Continued
globalization and
urbanization have
tested the limits of
the city's health,
power, safety and
transport
infrastructure.



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### 全球化改變了生產、銷售及消費的關係

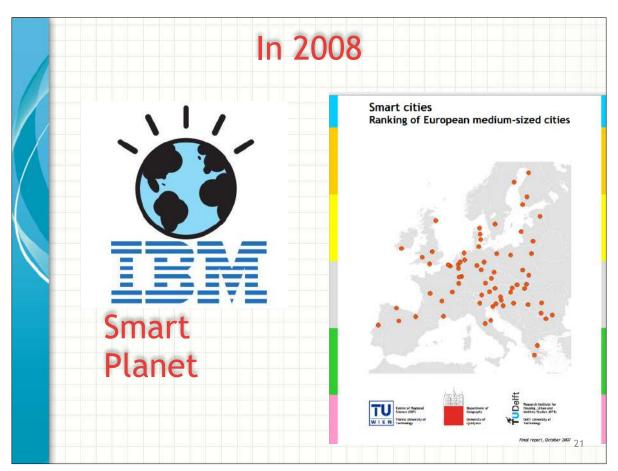
 Only a few cities with local characteristics are important in the global urban competition. Cities must improve local characteristics to become potential competitors for globalization.





对人力,社会,以及传统的运输基础设施和现代 通信网络的投资,已经成为许多城市确保他们在 世界上竞争力的重要因素。

- (2001) City of Cape Town Smart City strategy,
- (2004) U-Korea IT893 Strategy,
- (2006) Singapore iN2015,
- (2008) Eco Smart City Stockholm,
- (2008) Smart Taiwan,
- (2009) i-Japan 2015 Strategy,
- (2009) Digital Britain,
- (2009) US Apps.gov,
- (2010) Amsterdam Smart City, and
- · (2011) China Twelfth Five Year National Plan.





## Smart City 智慧城市

In a smart city, smart citizen, living in a smart environment with smart life, using smart mobility to promote smart economy, and to participate in the smart governance.

一個智慧的城市,有智慧的公民,生活在智慧的環境中,過著智慧的生活,利用智慧的交通(資訊通訊),推動智慧的經濟,參與智慧政府的治理。

Improve the sustainable development of urban competitiveness.

提高可持續發展的城市競爭力

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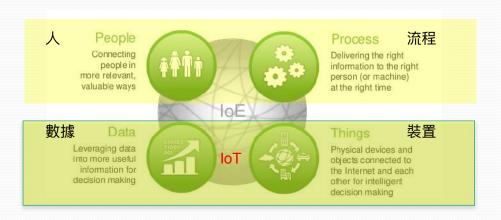
# The Internet of Things (IoT) is upon us 物聯網已經無所不在



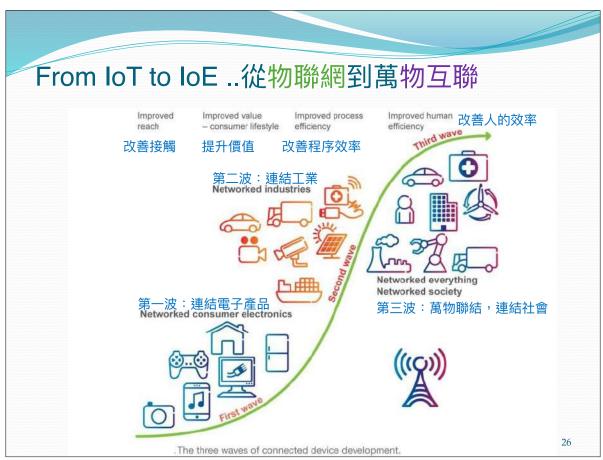
#### From IoT to IoE.. 從物聯網到萬物互聯

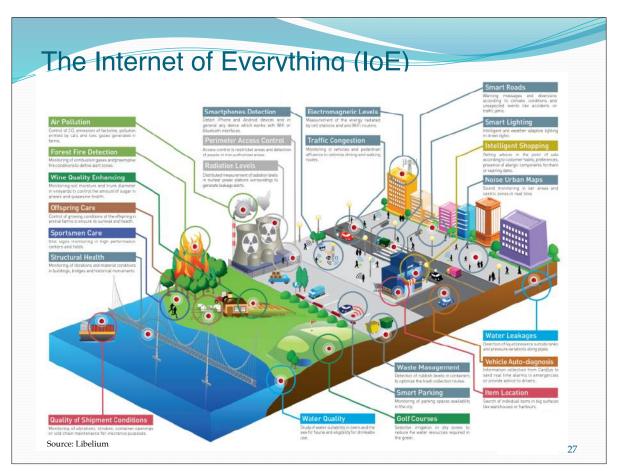
#### **Networked Connection of Everything**

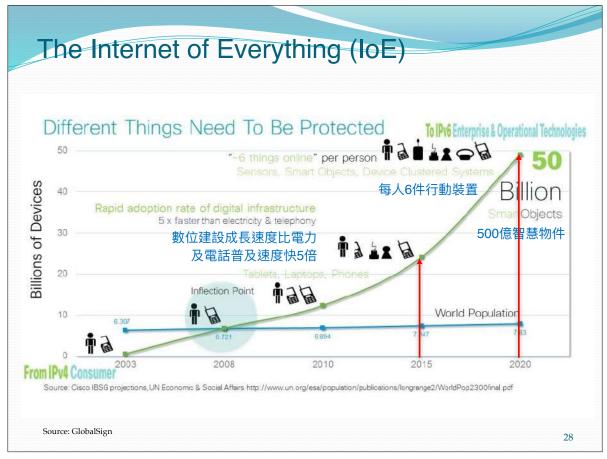
- 當一切都連接,數據/事件將呈爆發式增長。即時檢測,大數據分析,流程優化是趨勢,將改變每個人和企業的生活方式。
- When everything are connected, data/events will increase explosively.
   Instant Detection, Big Data analysis, Process Optimization are the trends and will change the life style for every individuals and enterprises.

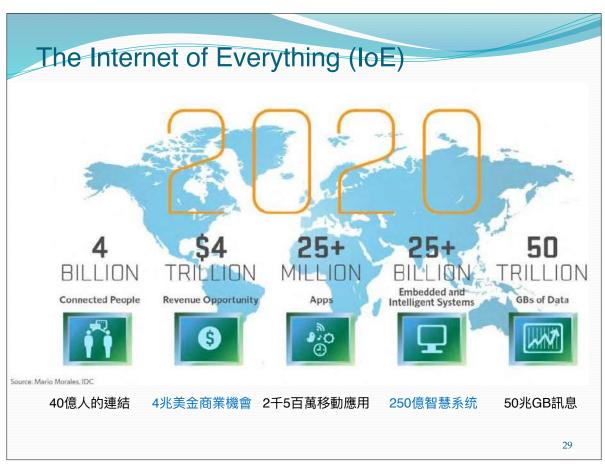


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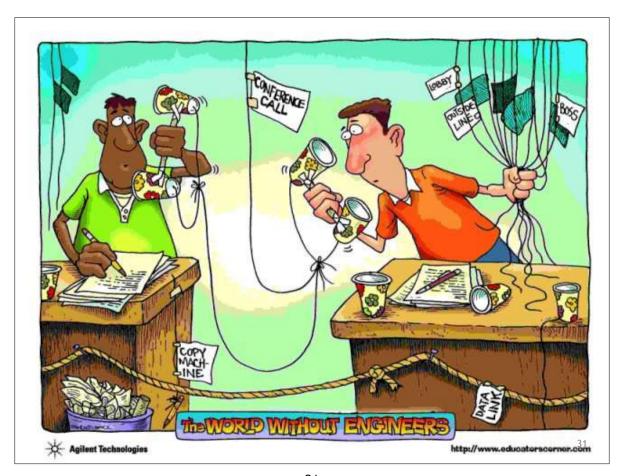


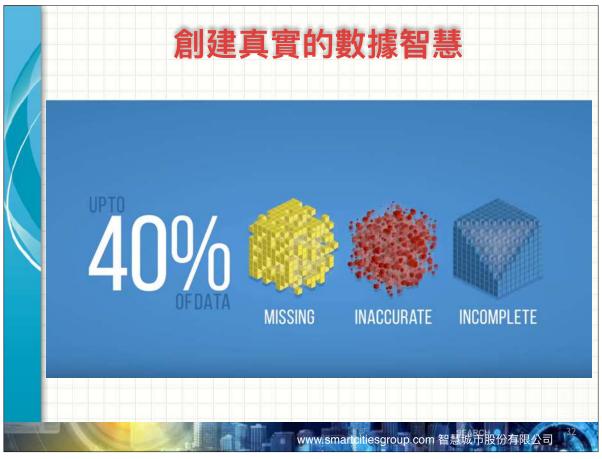














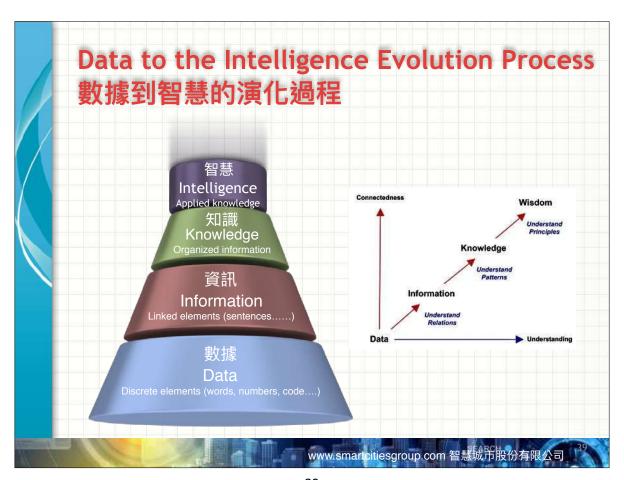


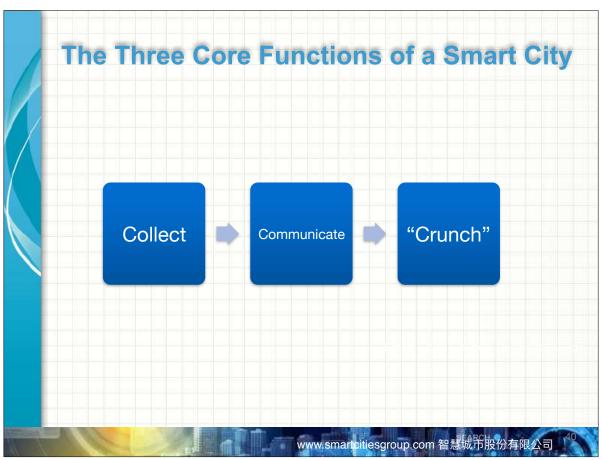


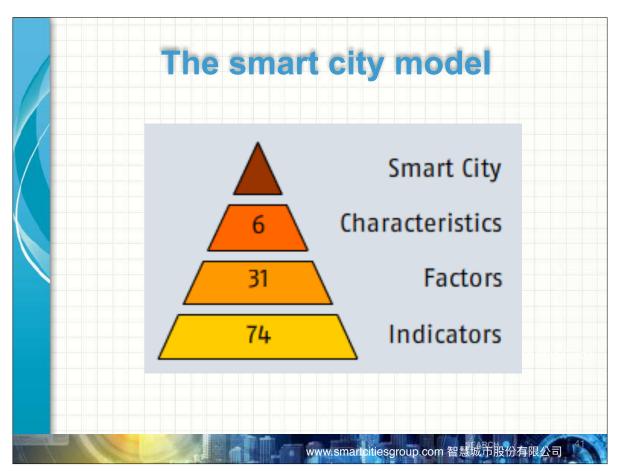


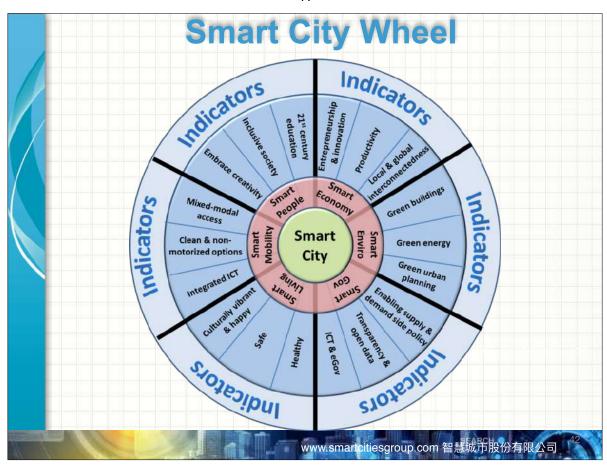












#### **European Initiative on Smart Cities**

#### Strategic objective

To demonstrate the feasibility of rapidly progressing towards our energy and climate objectives at a local level while proving to citizens that their quality of life and local economies can be improved through investments in energy efficiency and reduction of carbon emissions.

This Initiative will foster the dissemination throughout Europe of the most efficient models and strategies to progress towards a low carbon future.

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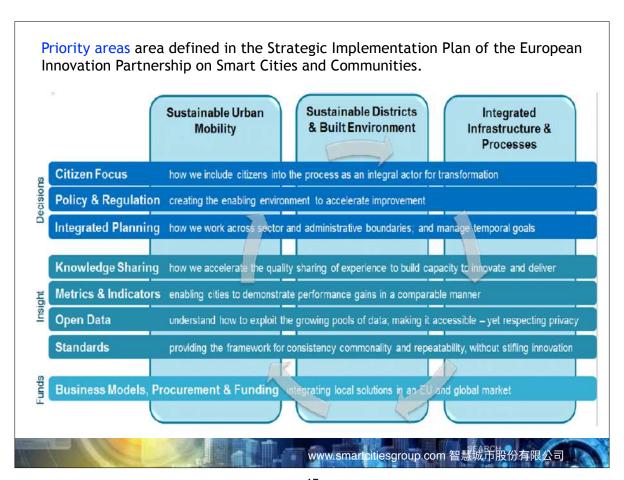
# The European Innovation Partnership on Smart Cities and Communities (EIP-SCC)

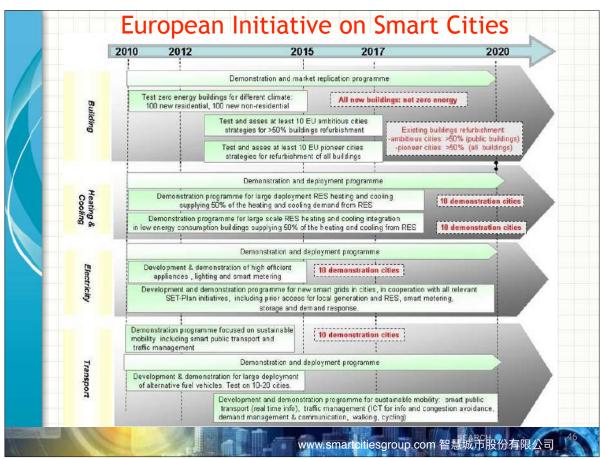
An initiative supported by the European Commission bringing together cities, industry, SMEs, banks, research and other smart city actors.

#### It intends to:

- Improve citizens' quality of life
- Increase competitiveness of Europe's industry and innovative SMEs
- Make our cities more competitive and better places to live in
- Share knowledge to prevent mistakes being repeated
- Reach our energy and climate targets
- Support you in finding the right partners and solutions It's about achieving social, environmental and economic sustainability for our cities.

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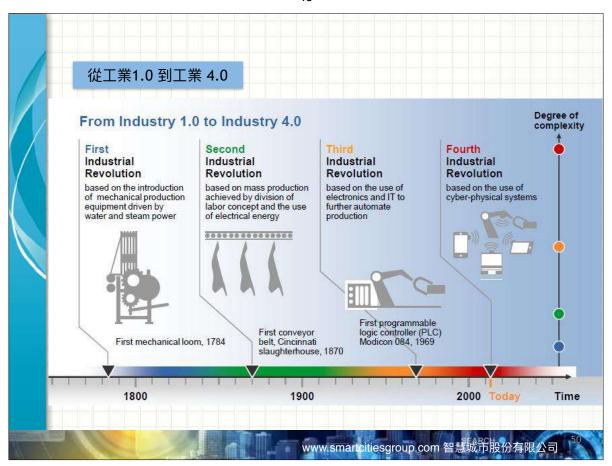












- Complex industrial processes could be controlled by a small iPAD
- 繁雜的工業生產流程可以由一台小小的PAD全程操控



2011 2012 2013 2014

#### 美國AMP

#### 製造業回流

強化先進材料、 生產技術、先進 製程、數據資料 與設計等產業 共通基礎

#### 大陸 製造2025計畫

#### 智能製造

發展智能製造設 備、新一代移動 通信、三網融合 物聯網、雲端運 算等戰略性產業 技術

#### 德國 工業4.0

#### 智慧工廠

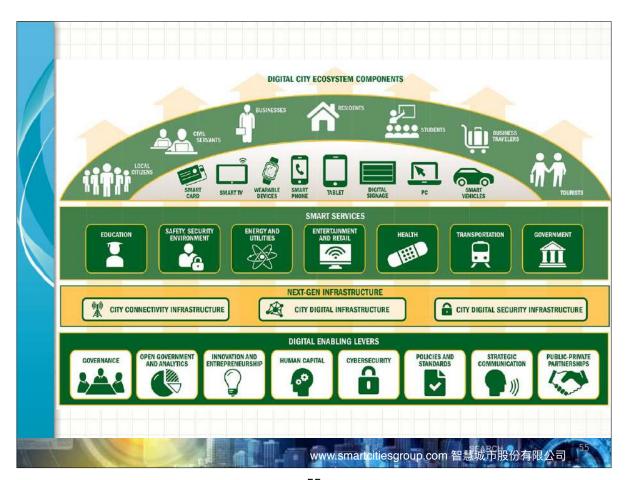
#### 日本 機器人新戰略

#### 人機共存 未來工廠

感測器、控制/ 驅動系統、雲慧 運算、人工智慧 等技術發展機器 人、且讓其相互 聯網





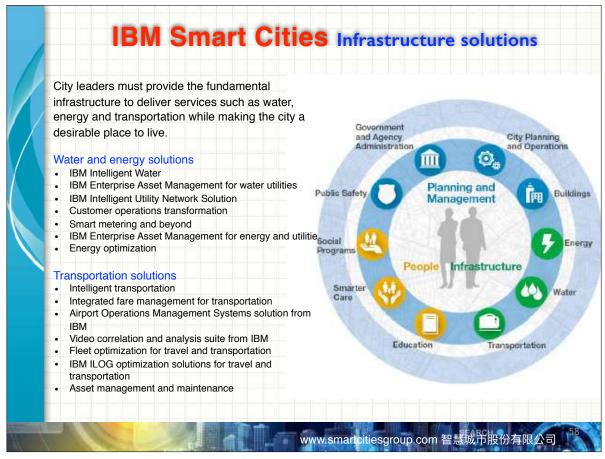


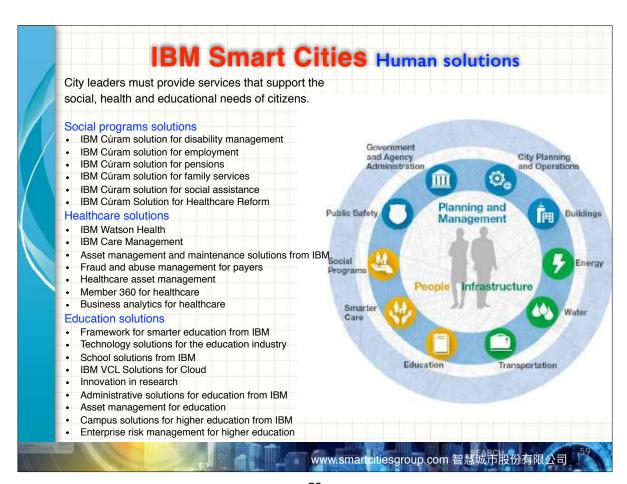


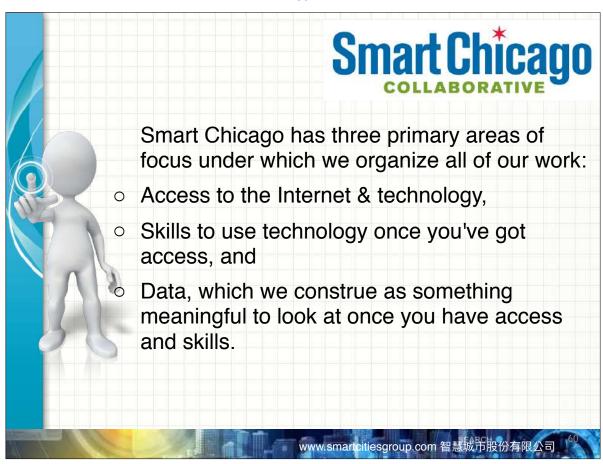
#### IBM Smart Cities Planning and management solutions City leaders must design and implement a city plan to realize full potential for citizens and businesses while efficiently running daily operations Government and Agency City Planning **Administration** and Operations Public safety solutions Intelligent Operations Center for Emergency Management Planning and Integrated intelligence analysis **Public Safety** Buildings Management Tactical lead generation Intelligent Video Analytics Content analytics Social Energy Smarter buildings and urban planning solutions Programs Energy optimization Infrastructure **Enterprise Asset Management** Facilities management Smarter Smarter stadiums solution Care Government and agency administration solutions Geographic information systems for government from IBM and ESRI Education Transportation Performance management for government Cloud computing for regional and local governments Smart Cloud Social Collaboration for Government

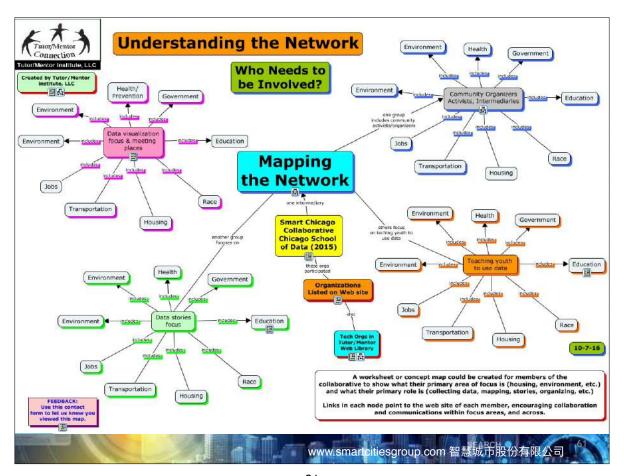
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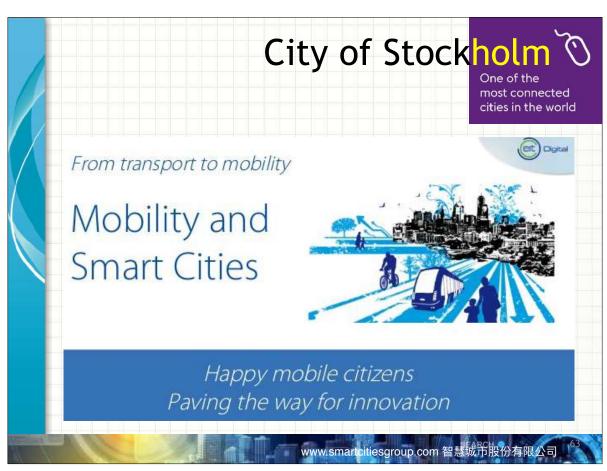


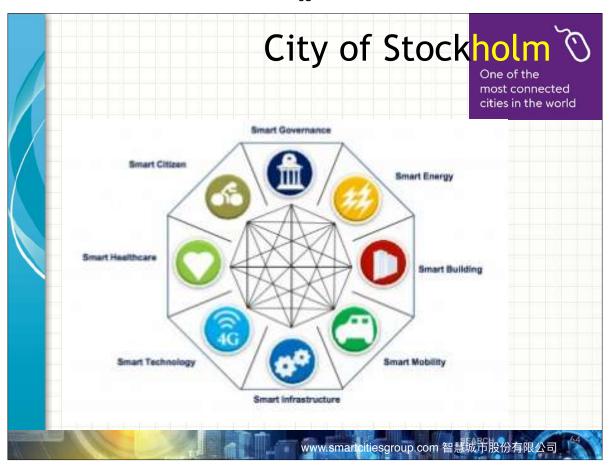


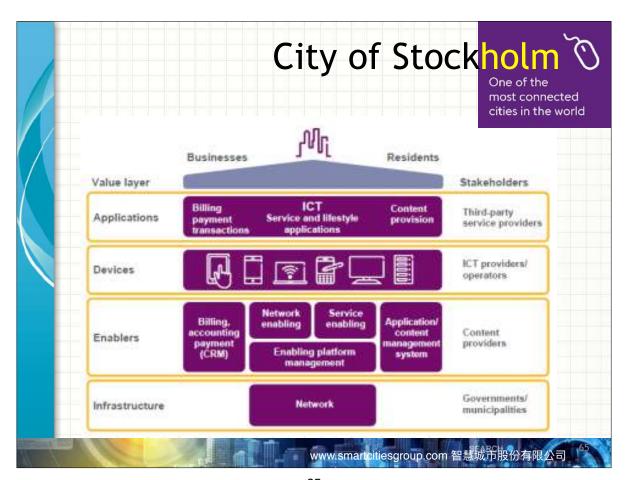




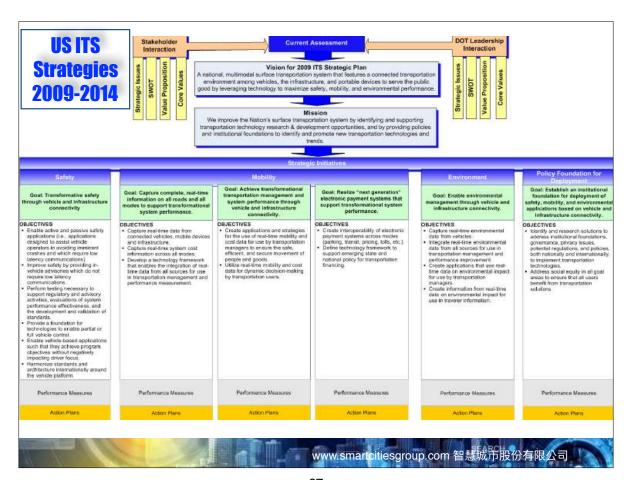






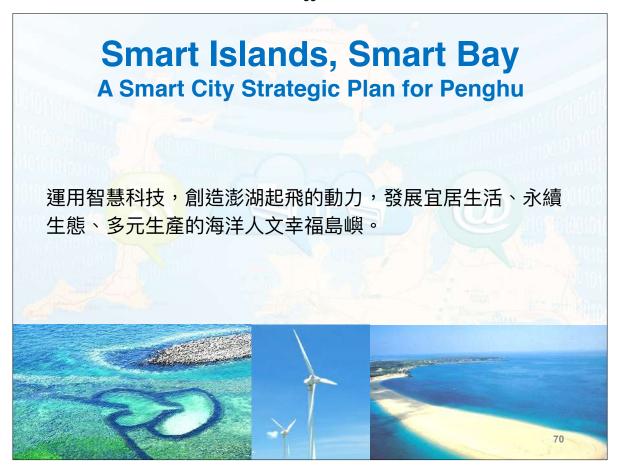














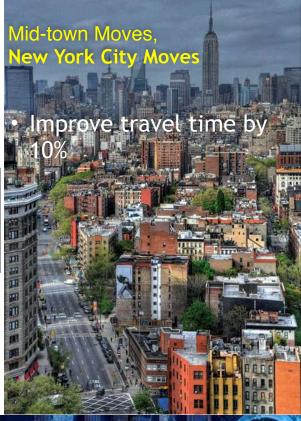






# **New York City Mid-in-Town** Adaptive Traffic Signal Control - income Use e-tag ZPass and onsite microwave

- devices to detect traffic flow and congestion
- 270 blocks, 210 microwave sensors, 56 traffic video camera, and 59 ZPass reader

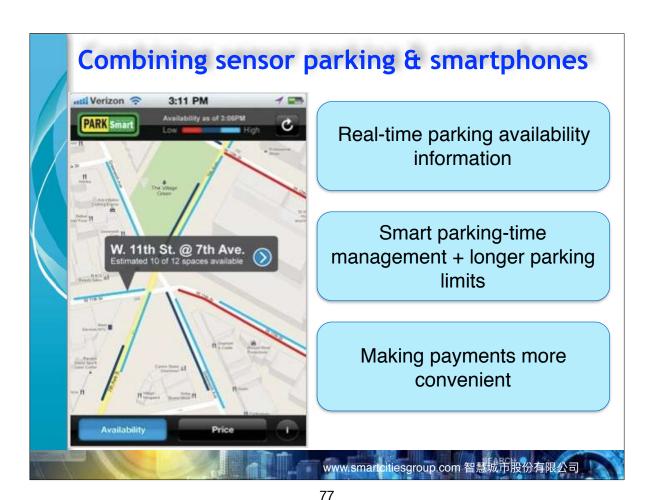


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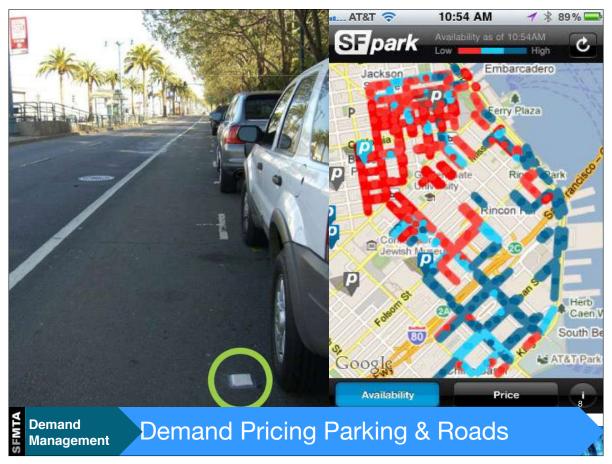
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# Smart Parking Technology Source: NYC DOT

- Wireless parking sensors providing real-time information about free parking spots
- **Enforcement-cost reductions**
- Possibility of (demand-responsive) dynamic pricing - It's being done in San Francisco
- Parking pricing as a tool to reduce congestion





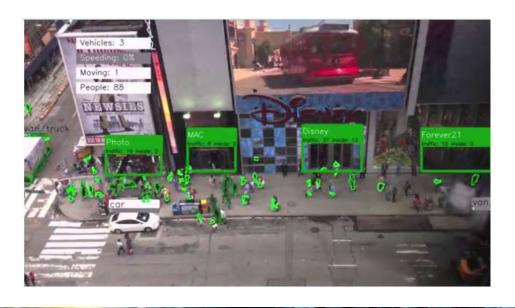








Placemeter extracts measurable data from a live video stream, counting the number of people walking into a given venue and calculate how heavy traffic is on a stretch of street.



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