A French approach to URBAN INNOVATION

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With support from
A French approach to Urban Innovation

- What can smartness bring to cities?
- Urban Innovation examples
- Can Singapore be smarter?
- The FCCS Initiative
Cities will have important challenges to overcome.

- Traffic Congestion
- Environment
- Security & Safety
- Crisis Management
- Citizen Services
- Renewable Energy
- Economic Development
- Sustainability
Dense and yet liveable Cities

The CLC Liveability Matrix Diagram

- Dhaka (11,500)
- Moscow (10,500)
- Lagos (6,780)
- Mumbai (4,760)
- Shanghai (3,630)
- Lima (2,980)
- Jakarta (4,240)
- Mexico City (2,450)
- Sao Paulo (2,440)
- Kuala Lumpur (2,130)
- Tokyo (2,660)
- Rome (2,110)
- New York (704)
- Paris (960)
- Vancouver (800)
- Stockholm (220)
- Sydney (330)
Smart thinking is needed for more liveable cities

Achieve smart growth

- Adopt a strategic approach
- Plan for change
- Integrate environmental thinking
- Insist on opportunity for all

Do more with less

- Assess and manage expenses rigorously
- Explore partnerships
- Introduce investment accountability
- Embrace technology

Win support for change

- Develop a leadership vision
- Focus on education and awareness
- Enhance individual responsibility
- Create a culture of citizens consensus
Multiple sectors for Urban Innovation

GOVERNANCE & CITIZENS
SAFETY & SECURITY
INTEGRATION
BUILDING & PLANNING

TRANSPORTATION
TRAFFIC
SUPPLY & DELIVERING

Smart City
Planning & Management

Mobility
People
Resources & Environment

EDUCATION
HEALTHCARE
ASSISTED LIVING
COLLABORATIVE CITY

ENERGY
WATER
WASTE MANAGEMENT
ENVIRONMENT PLANNING

COLLABORATIVE CITY
ASSISTED LIVING
EDUCATION
HEALTHCARE
SUPPLY & DELIVERING
TRAFFIC
TRANSPORTATION
SAFETY & SECURITY
GOVERNANCE & CITIZENS
BUILDING & PLANNING
INTEGRATION

FCCS
French Chamber of Commerce in Singapore
Example 1: Mexico Ciudad Segura

Secure & Resilient Network

Inter-agencies collaborative and coordination solutions

- CCTV Monitoring
- Citizen Services
- Metro
- Traffic
- Police
- Fire
- Large Event
- Mobile Command Post
- City Information

Criminality: 35%
Response Time: 12' 2'49
50% Stolen Cars retrieved after 72h
Insurance fees: 30%
Example 2: Smart & Multimodal Transport

Smartcard ticketing systems have transformed public transport in the Netherlands, making possible multimodal journeys by bus, metro, train, tram, anywhere in the country.

A real time Expert Traffic Management System in Strasbourg is considerably reducing congestion.

- Traffic Management Control Room
- Traffic light Priority
- Traffic Cameras
- Big Data analytics

- 7 different Public Transport Areas including 3 Main Urban Areas totalling 3M inhabitants
- System is deployed nationwide, including 12 provinces and 16 municipalities.
Example 3: A “District cooling” concept for the Sports Hub

Singapore Sports Hub Project
S$ 1.33b / 10 venues / 35 ha «Integrated hub »

A “District cooling” concept to supply a/c to all buildings

«Bowl cooling», a very efficient a/c concept for special events
Can Singapore Become (even) Smarter?

• An economy based on sustainable growth and added value

• A limitative geographical footprint

• A well-structured and high-skilled Government

• A clear vision on tomorrow societal and environmental challenges
Urban challenges for 2030

Use of land
- Centralise residential areas around major MRT stations
- Create new economic hubs outside of the city-centre

Residential planning
- Renew old HDB estate to meet the needs of residents
- Develop services for caring and supporting the needs of the elderly

Resources & climate change
- Achieve water sustainability
- Reduce energy intensity and greenhouse gas emissions
- Strengthen coastal protection and protect natural biodiversity
Areas where French companies can play a role in Singapore

- Integration
- Energy
- Safety & Security
- Water
- Building & Planning
- Mobility
The Smart Cities initiative of FCCS

- 29 French Companies
- Showing off novel solutions to Urban Challenges
- A tool to initiate dialogue with Singaporean Authorities
- An ambition to partner with Singapore to address third countries