# OPEN & AGILE SMART CITIES

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# OPEN & AGILE SMART CITIES

## MODI'S 'SMART' VISION TAKES SHAPE

### SMART CITIES

**WHAT THEY ARE AND HOW THEY WILL HELP**

■ Smart cities, in the most basic terms, are urban settlements that exploit technology to offer more structured and hospitable living conditions for residents.

■ Information and Communication Technology (ICT) forms the backbone of smart cities and is the main tool to address common problems like congestion and waste of energy.

■ Such cities have a centralised control system which provides real-time inputs on availability of water, electricity, public transport, healthcare and education.

■ Intelligent communication tools enable administrators to manage and respond to emergencies faster.

■ Consumption of scarce resources like water and energy is streamlined through the use of technology.

■ Better energy management systems help people automate energy-consuming systems in buildings.

■ There is emphasis on the use of renewable sources of energy

The urban development ... identified almost all the places where the ...

... government plans to build 100 smart cities across India and made an allocation of ₹7,060 crore to this end in the Budget 2014-15.

■ Cities such as Delhi, Hyderabad, Surat,

networks, traffic management frameworks, smart meters, GPRS for solid waste management, online water quality monitoring, online building plan approval schemes, etc

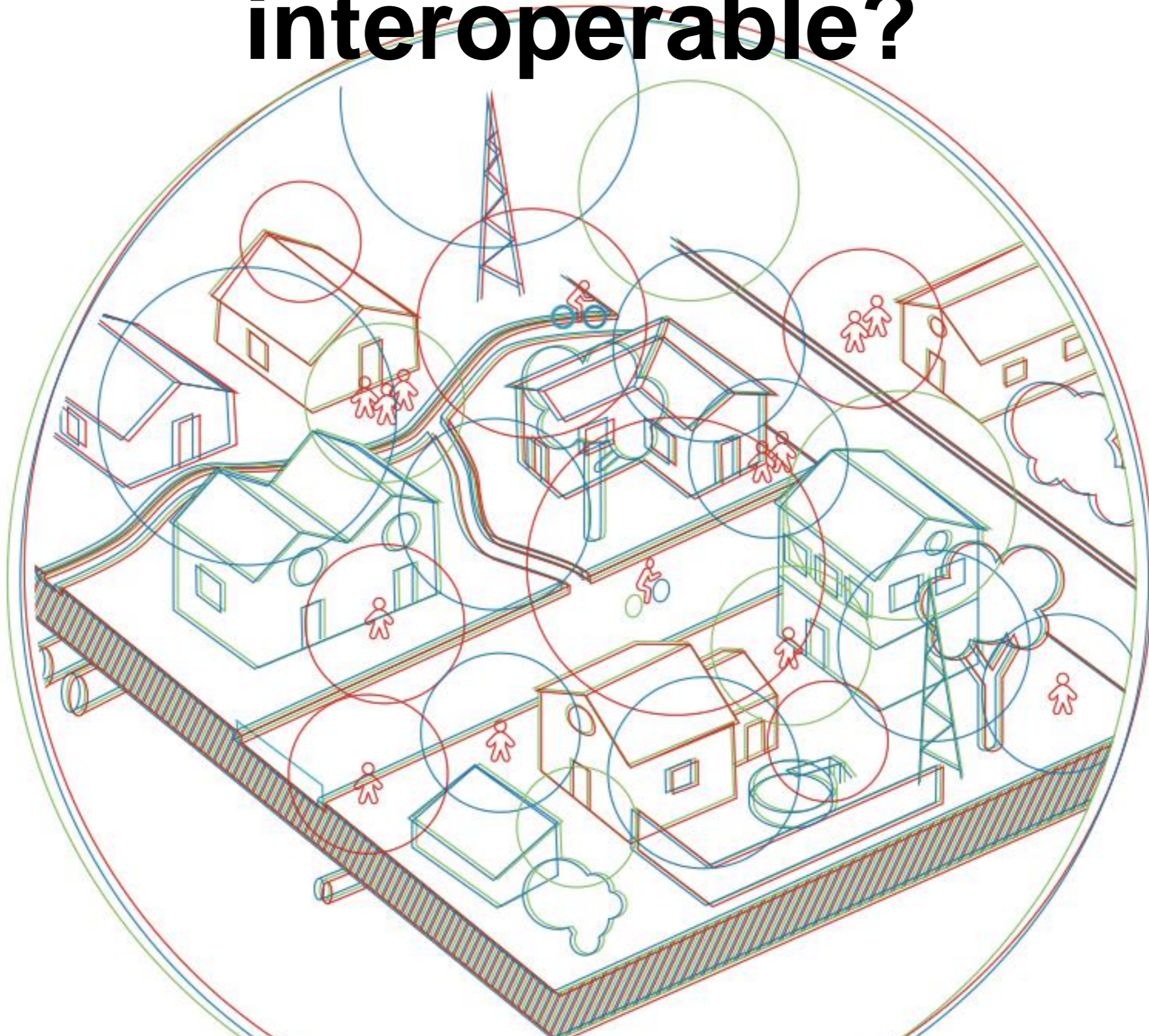**EUROPEAN INNOVATION PARTNERSHIP ON SMART CITIES AND COMMUNITIES**

**2015 EU-CHINA URBANISATION PARTNERSHIP FORUM**
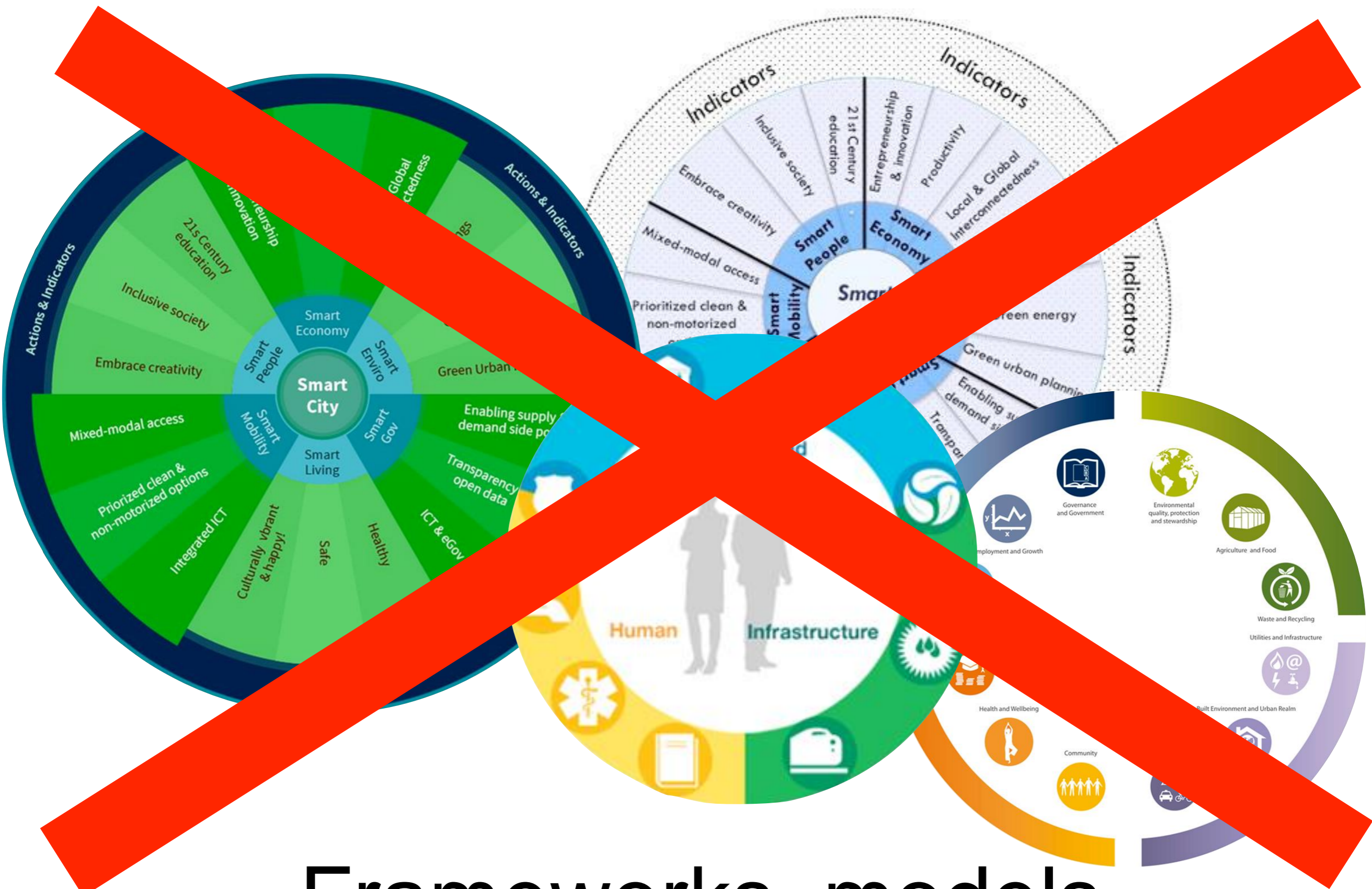
Europe's cities ... ing smarter

# How to make IoT interoperable?

- political **vision**
- **organizing** across silos
- **mobility**
- **law**
- (self)**surveillance**
- resource **sharing / commons**
- **IT** infrastructure
- **tools** for co-creation
- **financing**
- **growth**
- city-**collaboration**
- climate measures/**resilience**
- (pre-)**procurement**
- competence building/**education**
- development **methods**
- **utilities**

# GROWTH (JOBS)
# NICE CITIES

Frameworks, models

Giffinger, Cohen m.fl.

# THERE IS **NO** SMART CITY **MARKET** BASED ON **CITY NEEDS**

OPEN & AGILE SMART CITIES

**AUSTRALIA**
- Brisbane
- Gold Coast
- Springfield

**AUSTRIA**
- **Salzburg**
- **Linz**
- **Graz**
- **Salzburg**

**BELGIUM**
- Antwerp
- Brussels
- Ghent
- Leuven

**BOSNIA AND HERZEGOVINA**
- Mostar
- Sarajevo
- Tuzla

**BRAZIL**
- Anapólis (Goiás)
- Colinas de Tocantins (Tocantins)
- Olinda (Recife)
- Porto Alegre (Rio Grande do Sul)
- Rio das Ostras
- Taquaritinga (São Paulo)
- Vitória (Espírito Santo)

**CROATIA**
- Dubrovnik
- Sibenik
- Split

**DENMARK**
- Aalborg
- Aarhus
- Copenhagen
- Vejle

**ENGLAND**
- Bristol
- Leeds
- Manchester
- **Milton Keynes**
- **Cambridgeshire**

**FINLAND**
- Espoo
- Helsinki
- Oulu
- Tampere
- Turku
- Vantaa

**FRANCE**
- Amiens
- Arras
- Saint-Quentin
- Valenciennes

**IRELAND**
- Cork
- Dublin
- Galway
- Limerick

**ITALY**
- Ancona
- Cagliari
- Lecce
- Messina
- Milan
- Palermo
- Terni

**MEXICO**
- **Cuautla**
- **Guanajuato**
- **Leon**

**NETHERLANDS**
- Amersfoort
- Amsterdam
- Eindhoven
- Enschede
- Rotterdam
- Utrecht

**POLAND**
- **Gdansk**
- **Grudziadz**

**PORTUGAL**
- Águeda
- Fundão
- Lisbon
- Palmela
- Penala
- Porto

**SCOTLAND**
- Aberdeen
- Dundee
- Edinburgh
- Glasgow
- Inverness
- Perth
- Stirling

**SLOVENIA**
- **Koper**
- **Idrija**

**SPAIN**
- Guadalajara
- Las Palmas
- Malaga
- Murcia
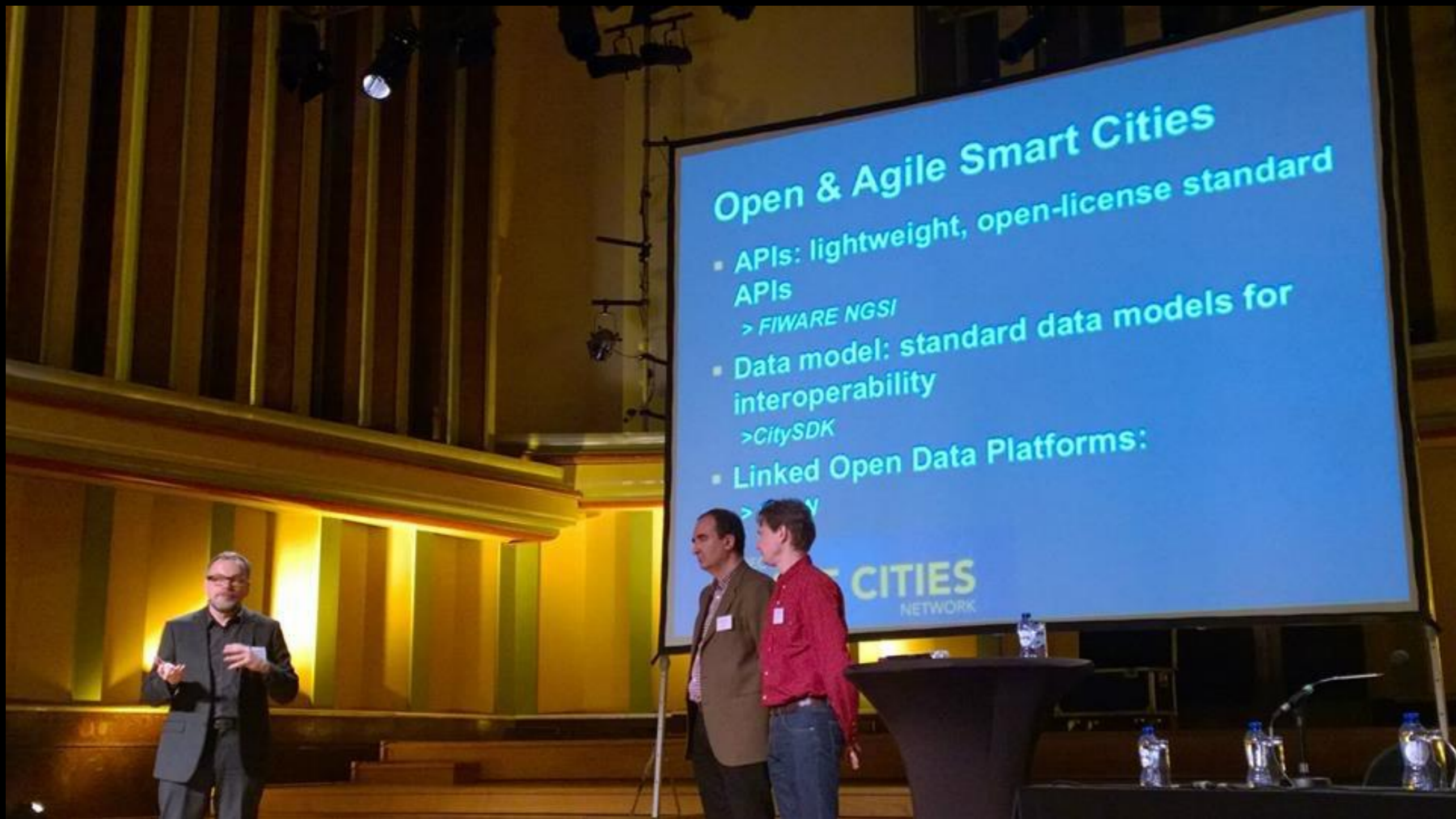- Sabadell
- Santander
- Sevilla
- Valencia

**OPEN & AGILE SMART CITIES**

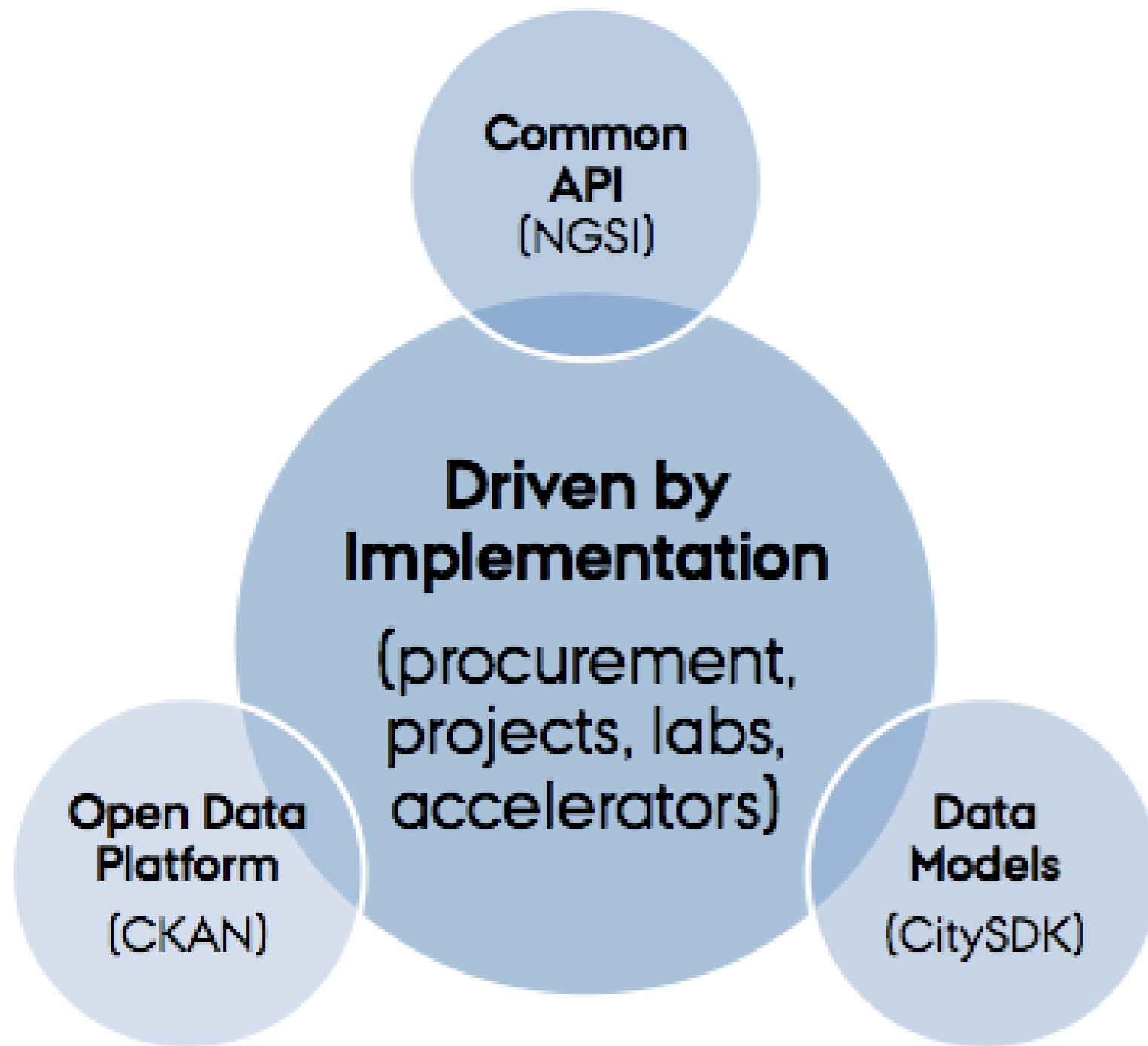4th wave · February 17, 2016

**89**
cities

**19**
countries

JANUARY 2015

Opening of OASC Secretariat in Brussels

# OPEN & AGILE SMART CITIES



Version 1.0 based on

- NGSI: FIWARE Implementation of the Open Mobile Alliance Next Generation Service Interfaces Specification
- CitySDK: City Service Development Kit
- CKAN: Comprehensive Knowledge Archive Network

# & HYPERCONNECTIVITY USER CASES BY STARTUPS

# IoT& Personal Entitlement: What is my relation to sensors? Alerts?

Security portal /app so that we decide which personal profile stay in the cloud with whom I want to share



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To give the power back to the user.
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Feedback

# CONNECTED SMART CITIES CONFERENCE 2017

## "Making IoT work for cities and citizens"

### January 12, 2017, Brussels

### Committee of the Regions

### www.oascities.org

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