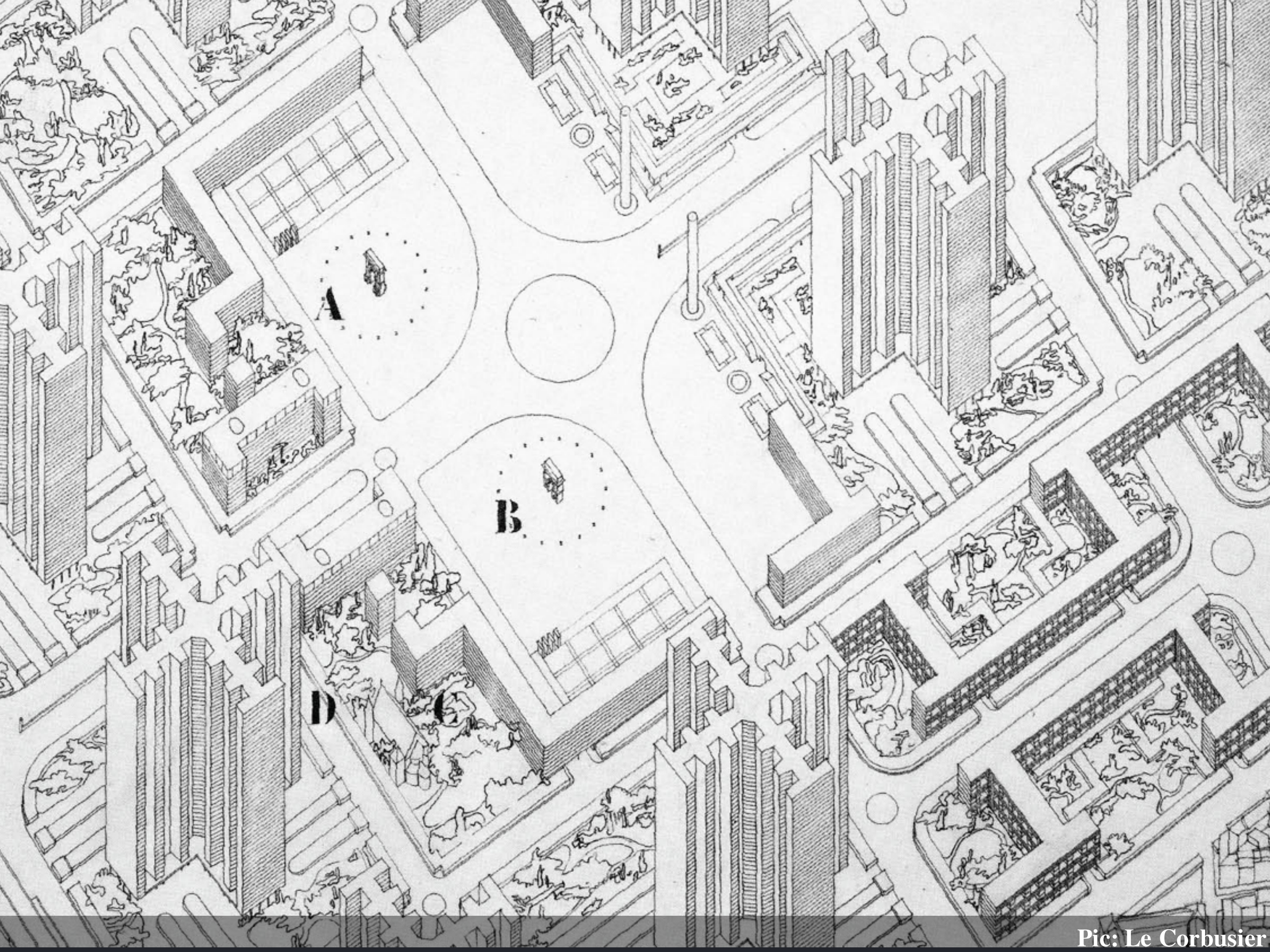
WE ARE
FUTURE
CITIES
CATAPULT

Cities - the most enduring human achievements

Pic: Jarmo Eskelinen, 2016 (cc)



Pic: Le Corbusier

Pic: AP Photo, 1937. Billingsdale Market, London

OPEN & AGILE SMART CITIES

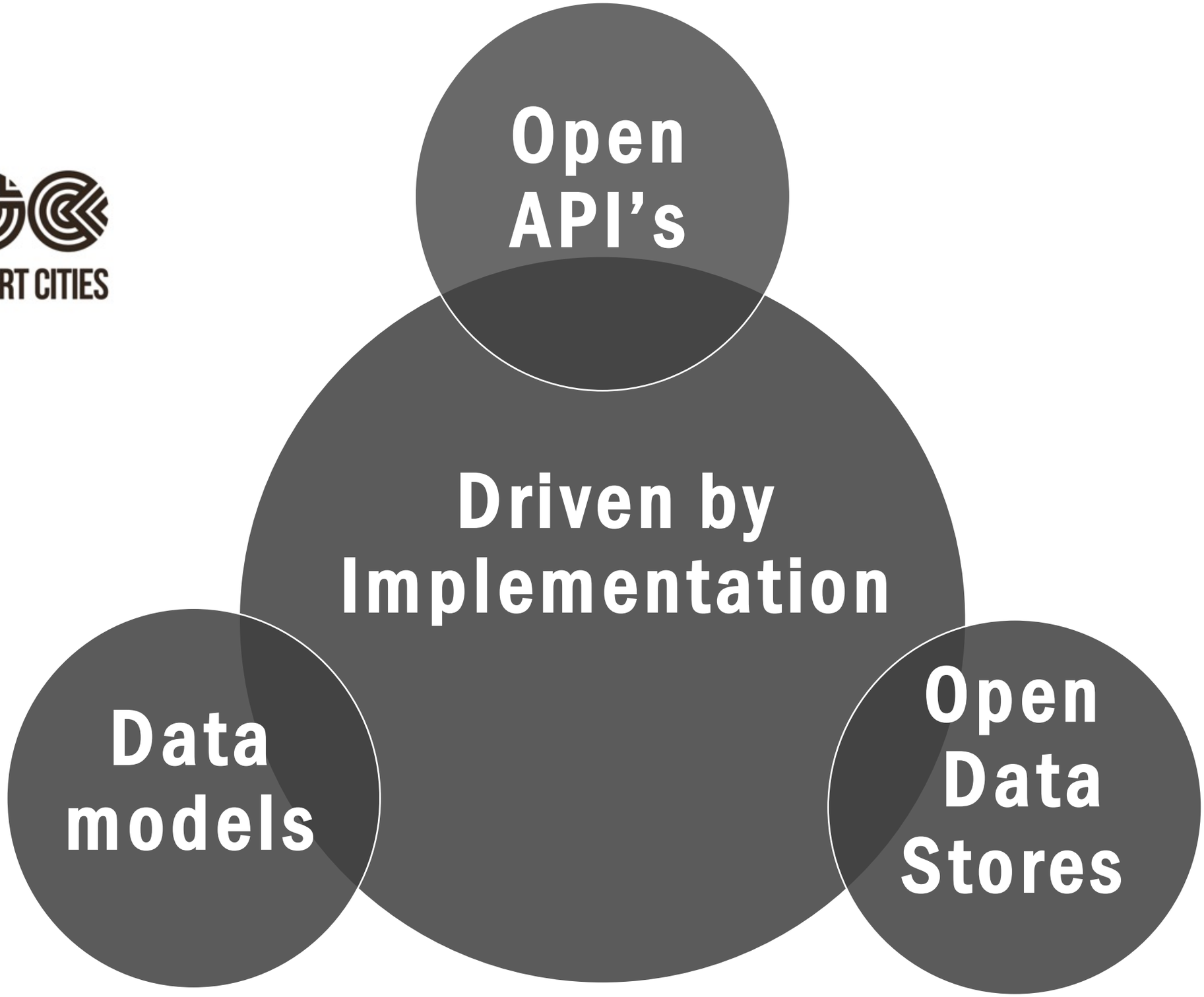
A Global Smart City Market

- Strong demand-side voice
- Open, global standards
- Support local economy
- Avoid vendor-lock-in
- Avoid city lock-in

To be smart, cities need

- City collaboration
- Interoperability mechanisms
- Systematic experimentation
- Tools for co-creation

OPEN & AGILE SMART CITIES



We create an open smart city market based on the needs of cities and communities

OPEN & AGILE SMART CITIES

—

104 cities

22 countries

Europe, Latin America, Asia-Pacific

—

6th WAVE: 7 JUNE

—

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info@oascities.org

OPEN & AGILE SMART CITIES

PARTNERS

EUROCITIES

European Network of Living Labs

EUROPEAN UNION
Committee of the Regions

European Commission

FIWARE FOUNDATION

ORGANICITY

SYNCHRONICITY

SELECT for Cities

IoT

AIOTI

ETSI

GLOBAL SMART CITY & COMMUNITY COALITION

smart city expo WORLD CONGRESS

OISPG

Creative Ring

BDV BIG DATA VALUE ASSOCIATION

CATAPULT Future Cities

METROLAB NETWORK

서울디지털재단 Seoul Digital Foundation

Contribution to standards

- ETSI Industry Specification Group for Context Information Management (ISG CIM) (addressing IoT & smart cities, based on OASC)
- EIP-SCC: 2 CSAs: CITYKeys & ESPRESSO
- AIOTI: WG3 (standards), WG8 (smart cities)
- SF-SSCC (SSCC-CG) etc.
- ITU-T (connection to UN SDG11)

Way forward

- **CIVIC**
  Driven by citizen needs, backed by industry
- **COMMON**
  Specifications & standards (~GSM, Wi-Fi, Visa)
- **CONCRETE**
  Linking instruments (projects, policy, financing)

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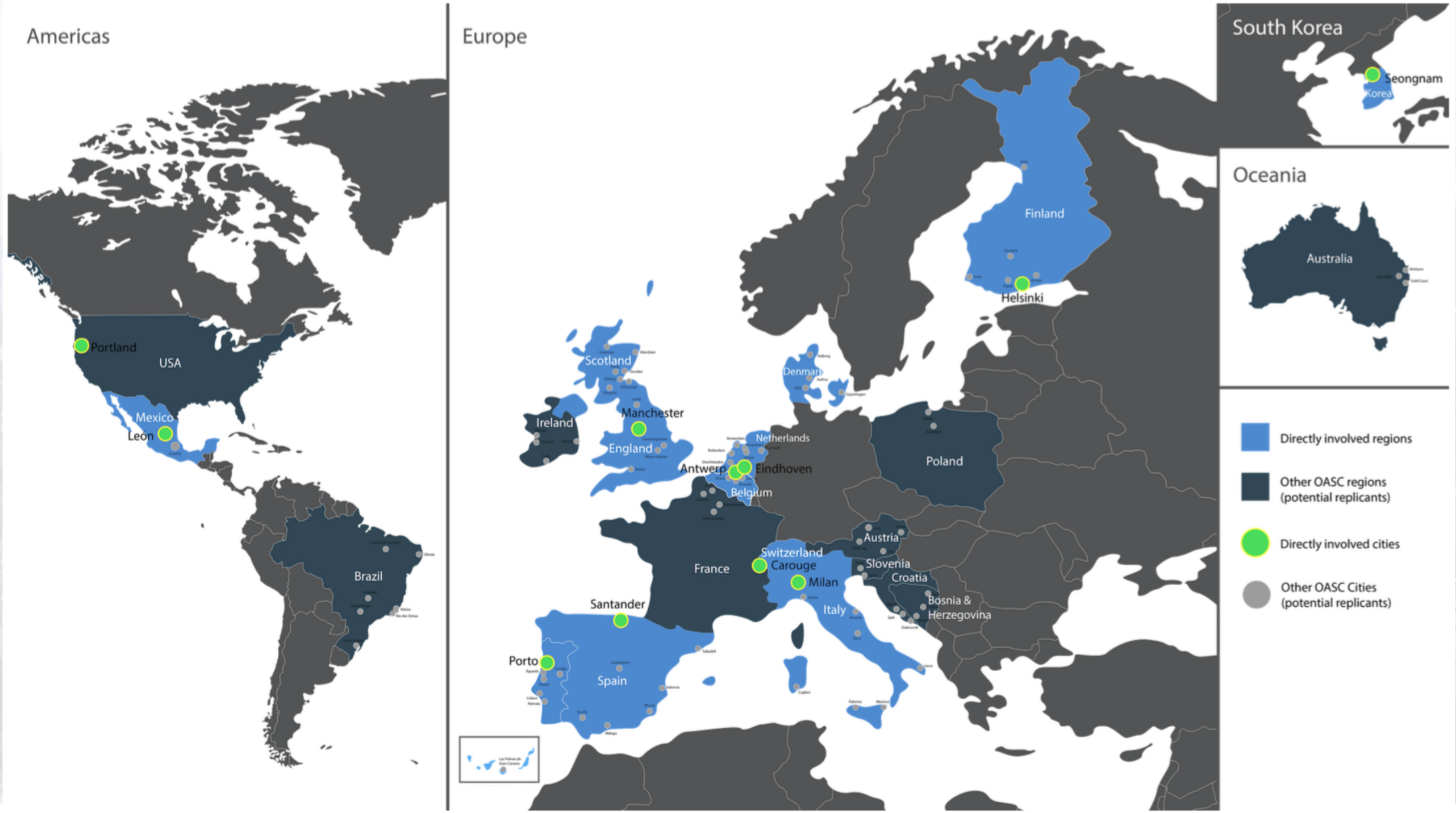
SYNCHRONICITY

IoT Large Scale Pilot for Smart Cities

Taking on the challenges of digitalization, together.

A Global Market for IoT-Enabled Urban Services



SYNCHRONICITY

- 34 partners, 11 countries, 33 months (Jan 2017-Sep 2019).
- Budget: 20m€ (15m€ EC) / 3m€ for open calls.
- 8 Core cities: Antwerp (BE), Eindhoven (NL), Helsinki (FI), Manchester (UK), Milan (IT), Porto (PT), Santander (ES), Carouge (CH).
- Linked cities in Mexico, South Korea, USA and Brazil.
- European IoT Large Scale Pilot Programme.
- Leveraging: OASC, AIOTI, EIP-SCC, FIWARE, FIRE.

SYNCHRONICITY

SYNCHRONICITY **PARTNERS**

AARHUS UNIVERSITY

ALEXANDRA INSTITUTTET

FORUM VIRIUM HELSINKI

Aalto University

MANCHESTER CITY COUNCIL

OPEN & AGILE SMART CITIES

Atos

ENGINEERING

EINDHOVEN

Milano Comune di Milano

bronze

ROMBIT

Porto.

AYUNTAMIENTO DE SANTANDER

CATAPULT Future Cities

PHILIPS

European Network of Living Labs

hop ubiquitous

imec

UC UNIVERSIDAD DE CANTABRIA

CATAPULT Digital

UDG UNIVERSAL DEVICE GATEWAY

TST

heijmans

León

VILLE DE CAROUGE Le bon côté de la ville

MANDAT INTERNATIONAL

ubiwhere SUITING THE FUTURE

KETI 전자부품연구원 Korea Electronics Technology Institute

amio Smart Places Development

Tecnológico de Monterrey

BORDEAUX

SEOUL METROPOLITAN GOVERNMENT

Seongnam City

- **Digital Single Market** for urban IOT
- **Common, co-created IoT-enabled urban services**
- **8 reference zones** in Europe & other cities globally
- Incentivise **trust in companies**
- **Trust for citizens** to participate
- environment of **evidence-based solutions**

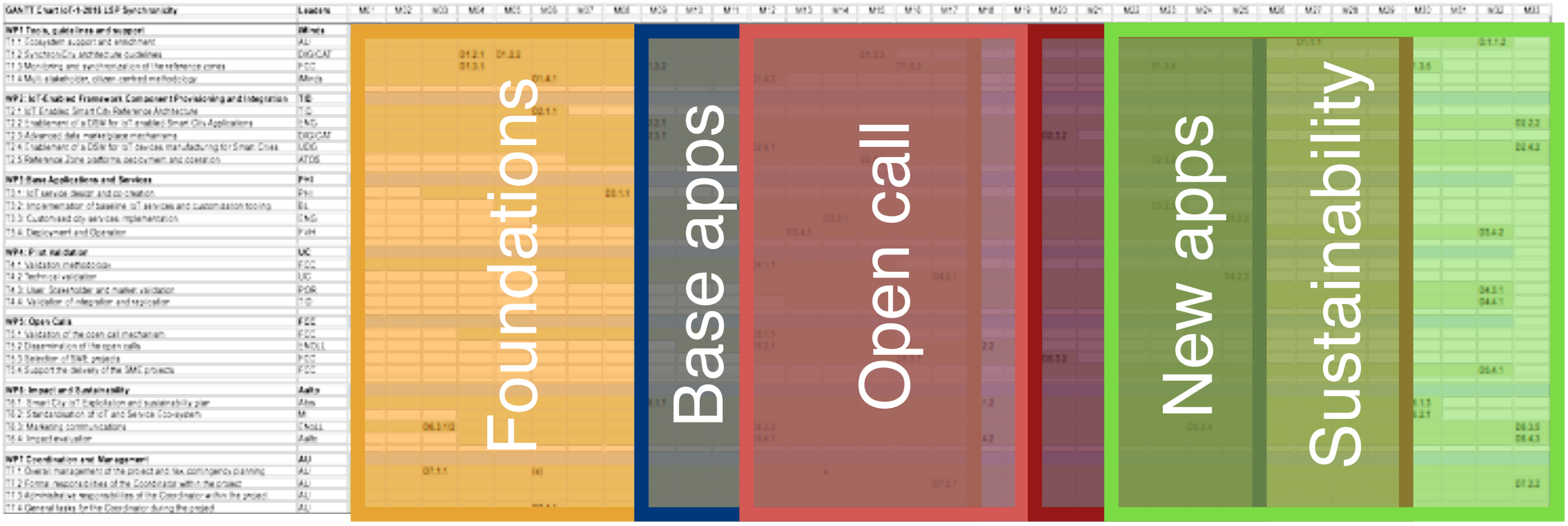
SYNCHRONICITY

SynchroniCity will deliver a **harmonized ecosystem** for IoT-enabled smart city solutions where IoT device manufacturers, system integrators and solution providers can innovate and openly compete.

SynchroniCity will establish a **reference architecture** for the envisioned IoT-enabled city market place with **identified interoperability points** and **interfaces and data models** for different verticals, including tools for co-creation & integration of legacy platforms.

SYNCHRONICITY

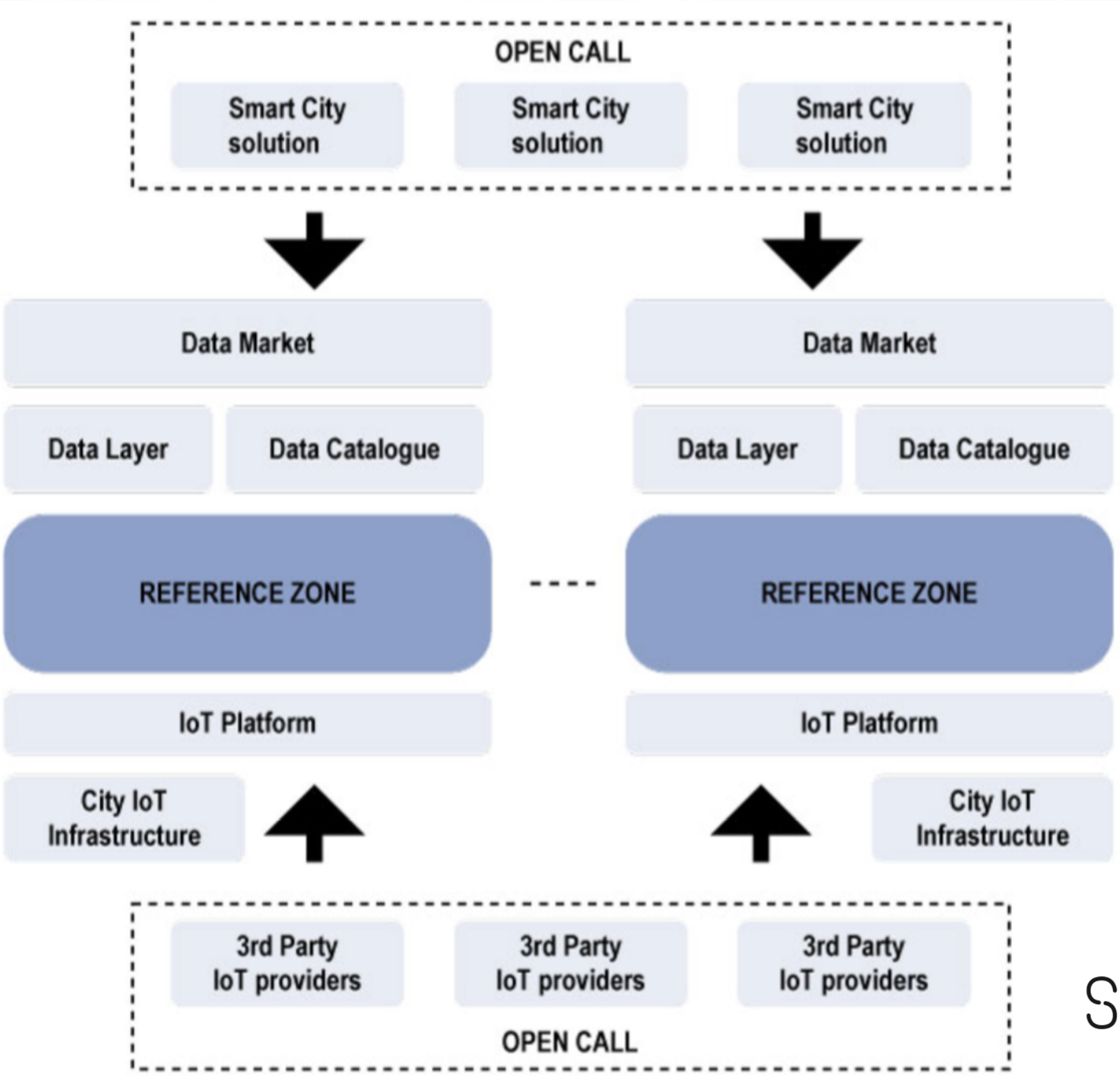
WORKPLAN



Staged, ambitious (33 months) including an open call for SMEs

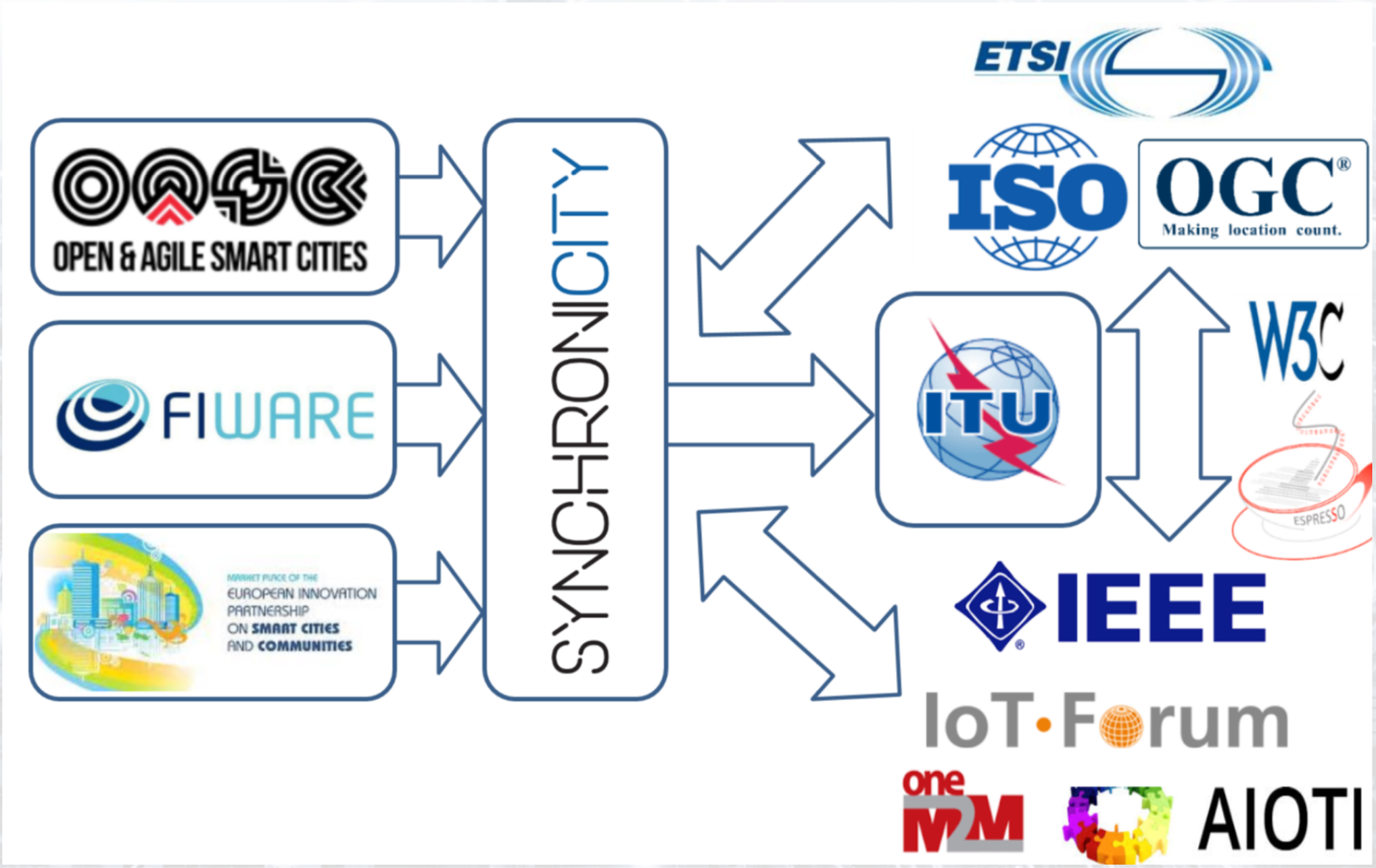
SYNCHRONICITY

INTEROPERABILITY POINTS



SYNCHRONICITY

SYNCHRONICITY & STANDARDS



SYNCHRONICITY

European
Large-Scale Pilots
Programme

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 732240

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Thank you

Pic: Tuomas Sarparanta, www.rantapallo.fi. Restaurant Day, Helsinki, 20