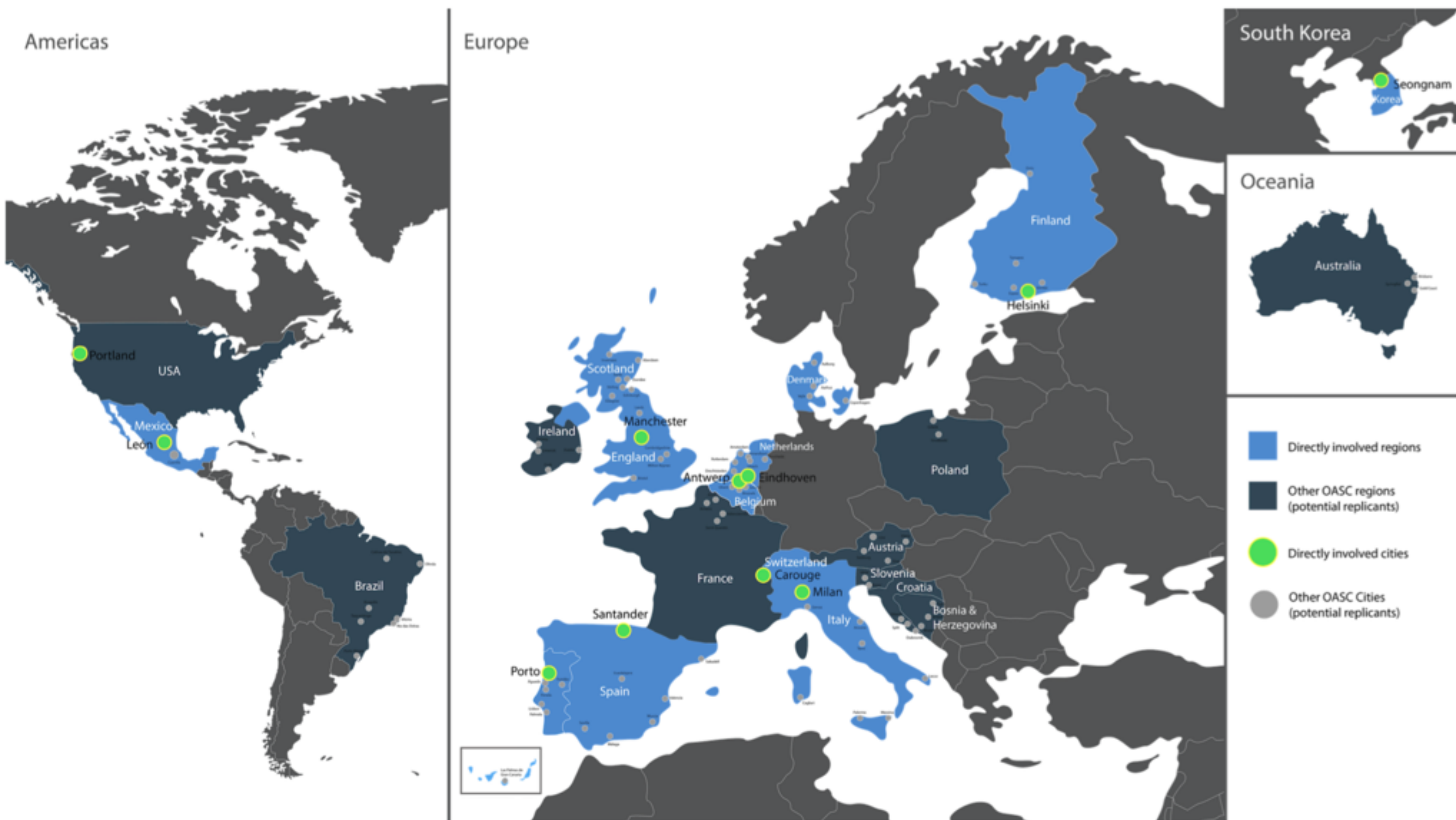


SYNCHRONICITY

Kick-off

Brussels, 9-10 January, 2017

A Global Market for IoT-enabled Urban Services



8 cities in Europe + 3 global + OASC (89)

SYNCHRONICITY

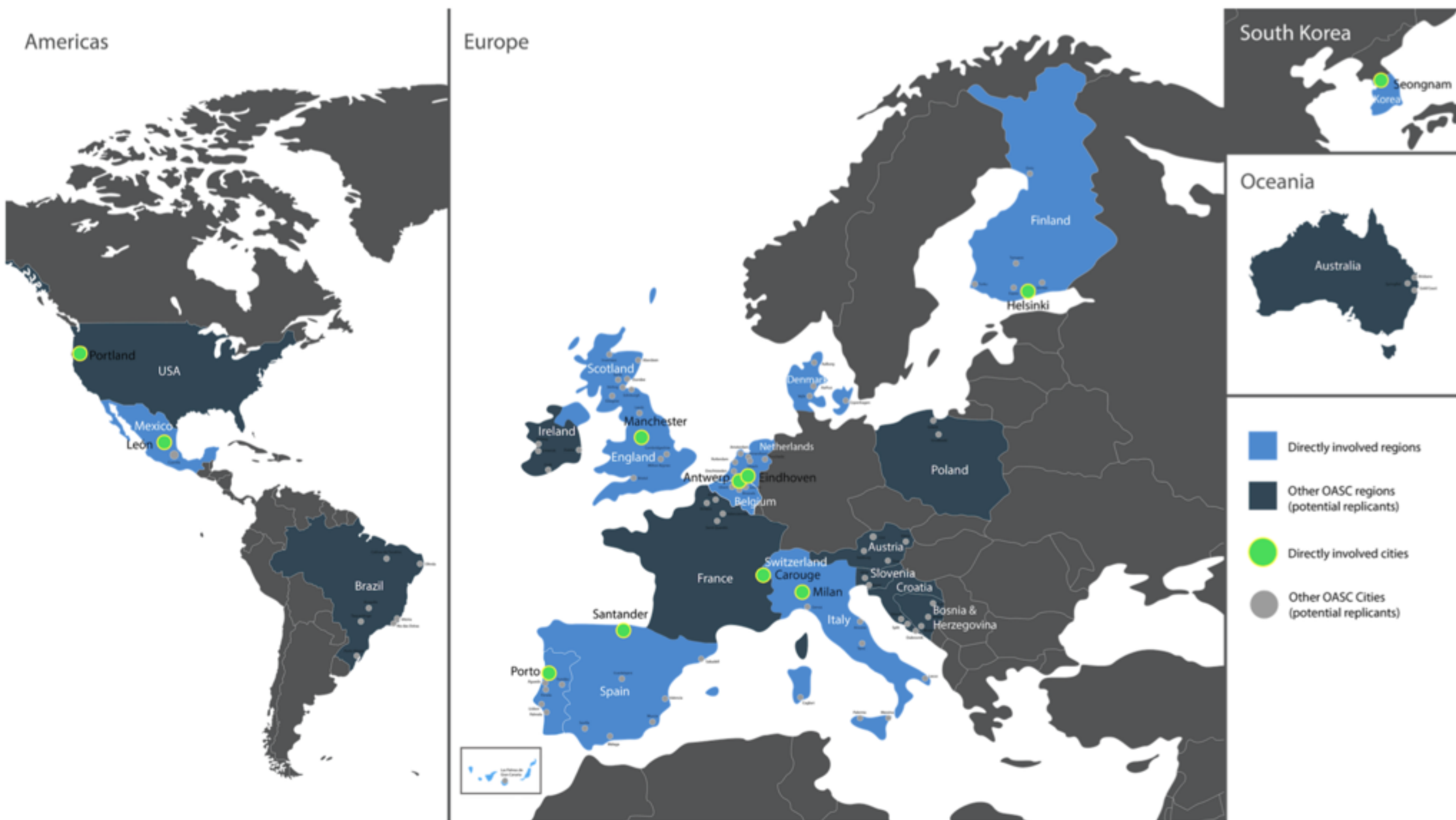
- 34 partners, 11 countries, 33 months.
- Budget: 20m€ (15m€ EC) / 3m€ for open calls.
- Core cities: Antwerp (BE), Eindhoven (NL), Helsinki (FI), Manchester (UK), Milan (IT), Porto (PT), Santander (ES), Carouge (CH).
- Linked cities: León (Mexico), Seongnam (Korea), Portland (USA).
- Leveraging: OASC, AIOTI, EIP-SCC, FIWARE, FIRE.

SynchroniCity Consortium

#	Participant organisation name	Short name	Country
1	Aarhus University (Coordinator)	AU	DK
2	Aalto University	AALTO	FI
3	Alexandra Institute	AI	DK
4	Atos	Atos	ES
5	BronzeLabs	BL	UK
6	City of Antwerp	ANT	BE
7	City of Eindhoven	EIN	NL
8	Forum Virium Helsinki	FVH	FI
9	City of Manchester	MAN	UK
10	City of Milan	MIL	IT
11	City of Porto	POR	PT
12	City of Santander	SAN	ES
13	Digital Catapult	DigiCat	UK
14	Engineering Ingegneria Informatica SpA	ENG	IT
15	Future Cities Catapult	FCC	UK
16	European Network of Living Labs	ENoLL	BE
17	Heijmans Wegen BV	HW	NL

18	Imec	Imec	BE
19	Manchester Metropolitan University	MMU	UK
20	Philips Lighting	Philips	NL
21	Rombit	ROM	BE
22	Telefónica	TID	ES
23	TST Sistemas	TST	ES
24	Ubiwhere	UBI	PT
25	University of Cantabria	UC	ES
26	HOP Ubiquitous	HOPU	ES
27	City of Carouge*	CAR	CH
28	Mandat International*	MI	CH
29	UDG Alliance*	UDG	CH
30	City of León*	LEO	MX
31	INFOTEC*	INFOTEC	MX
32	Tecnológico de Monterrey*	ITESM	MX
33	AMIO*	AMIO	MX
34	Korea Electronics Technology Institute*	KETI	KR
—	Telefónica México**	TEFMX	MX

A Global Market for IoT-enabled Urban Services



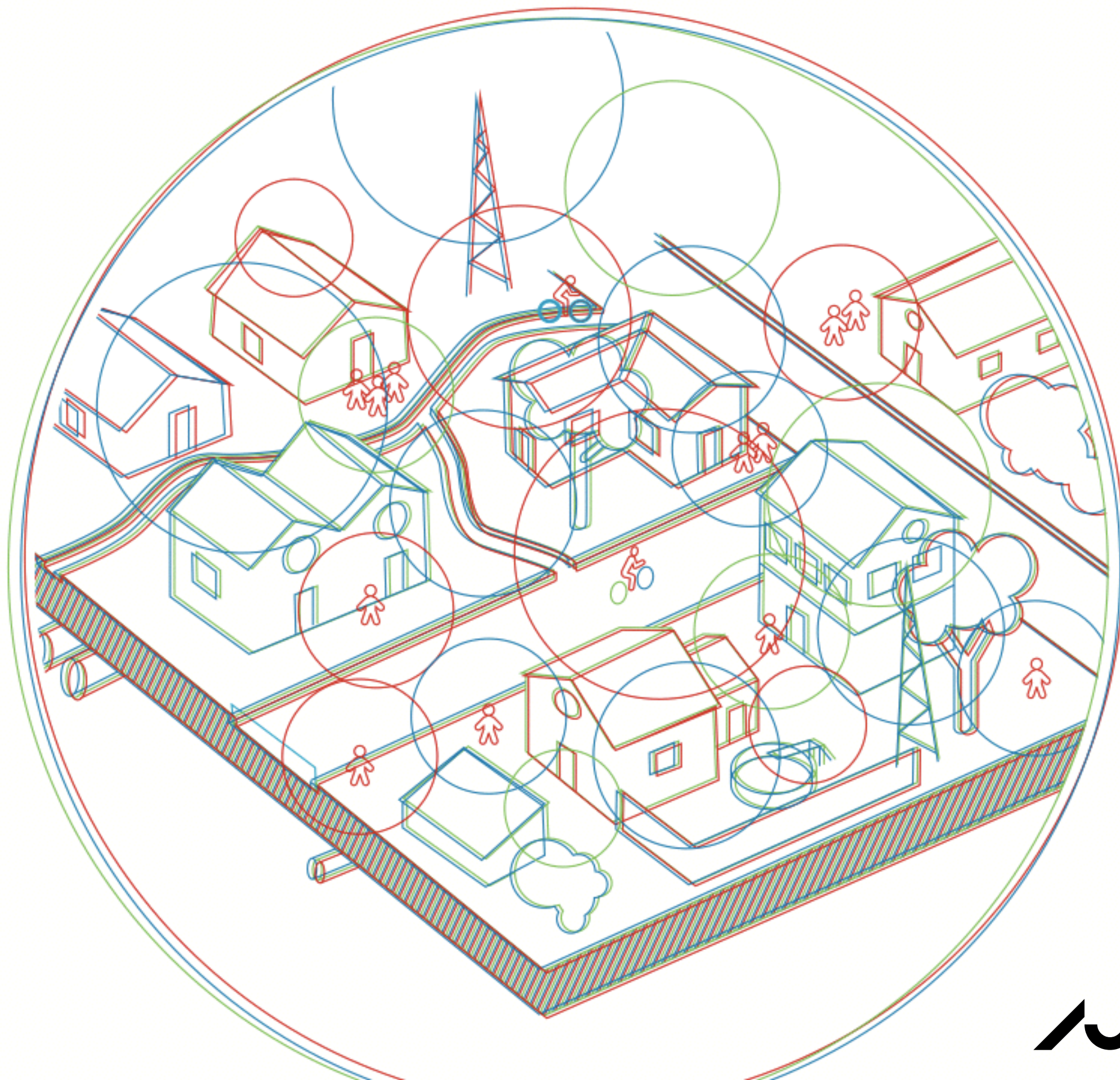
8 cities in Europe + 3 global + OASC (89)

SYNCHRONICITY

Kick-off

Brussels, 9-10 January, 2017

Project overview



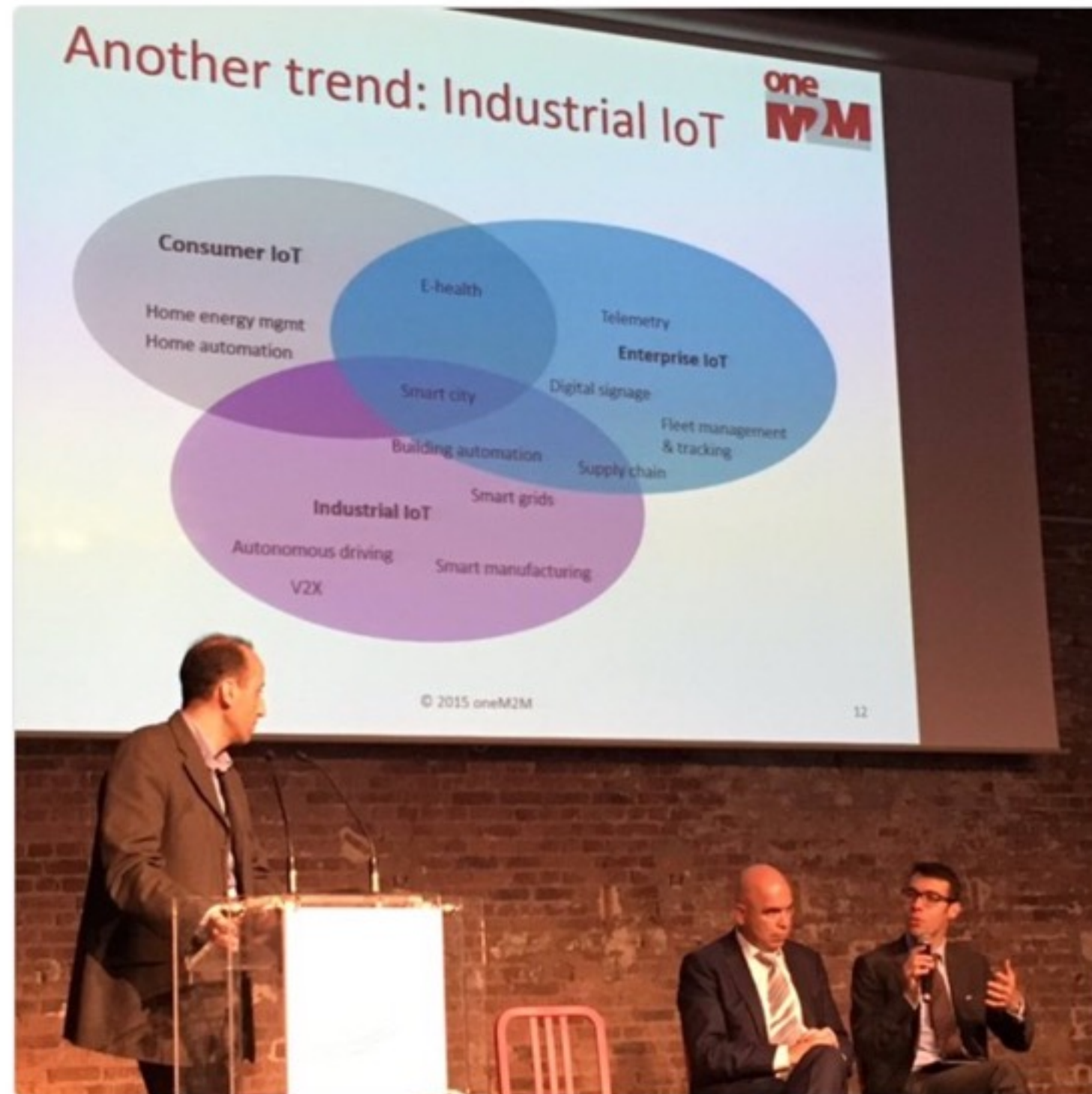


Martin Brynskov @brynskov · Apr 21



Smart Cities — where all the IoT complexities meet. So, cities need a strong voice when standards are formed

oneM2M, Omar Elloumi, OASC and 3 others



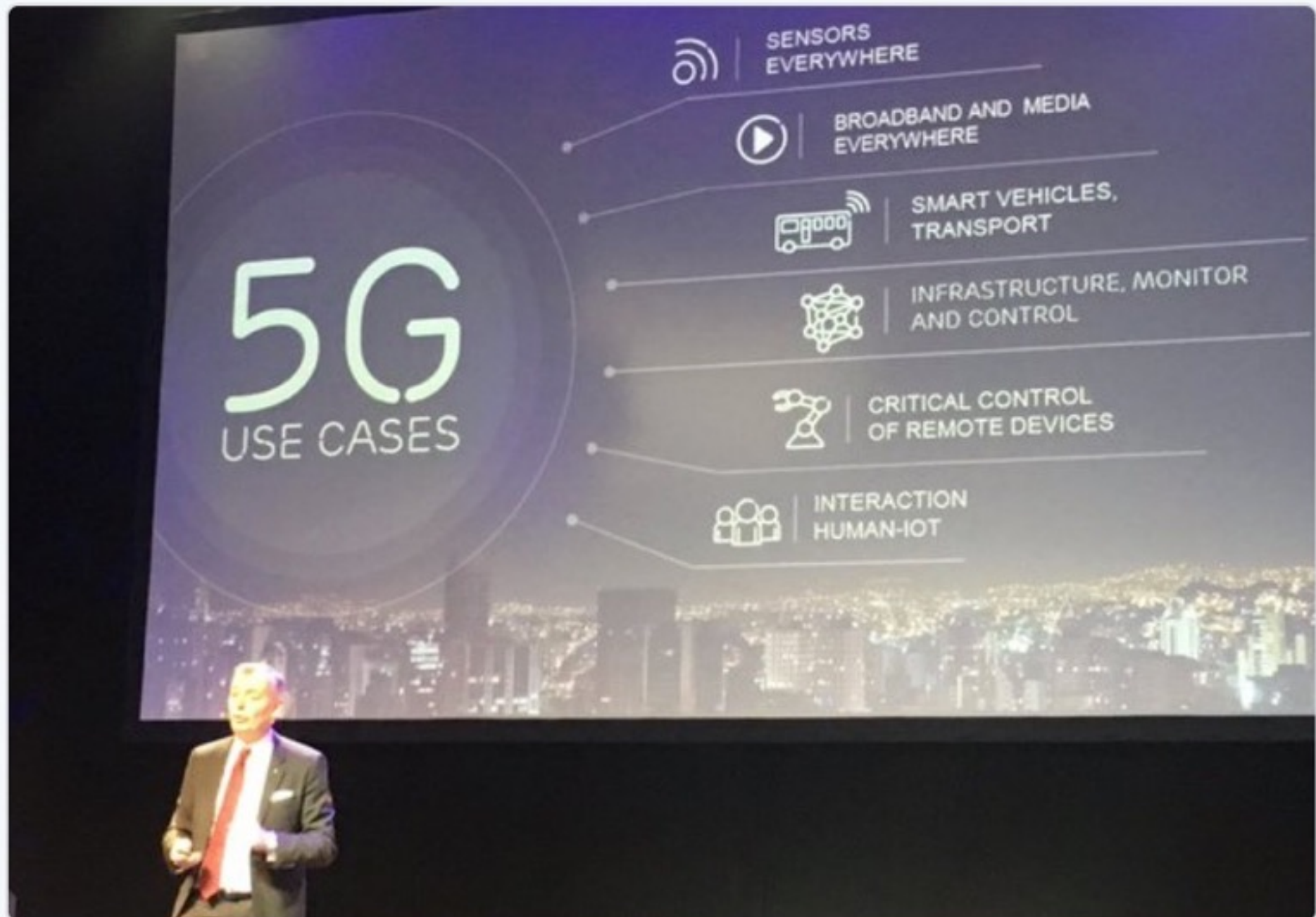


Martin Brynskov @brynskov · Apr 21



How do you envision the totality of connectedness that 5G brings? Ericsson shows—a city [#netfutures16](#)

👤 Ericsson, digitalEU, DigitalSingleMarket and Digital Agenda EU



4





Martin Brynskov @brynskov · Apr 21



"We want cities to remain cities" —an ambitious priority by EIT
[#netfutures16](#)

👤 EIT, DigitalSingleMarket, digitalEU and 3 others



1



1



SMART CITY DILEMMAS

1. Flexibility, precision, productivity—for whom?
2. We don't experience the same city
3. Resilient or vulnerable?
4. Democratic proximity—or buzz?
5. No-one left behind?
6. Overview—or surveillance?
7. New public spaces without government?
8. Is it possible to plan at all?
9. Public organization and competences
10. Public service 2.0

Source: The think tank "Future digital cities – for and with people"

HOW TO PLAN AND PREDICT...



SYNCHRONICITY

SynchroniCity represents the first attempt to deliver a Single Digital City Market for Europe by piloting its foundations at scale in reference zones across 8 European cities, involving also other cities globally. It addresses how to incentivise and build trust for companies and citizens to actively participate, in finding common co-created IoT solutions for cities that meet citizen needs and to create an environment of evidence-based solutions that can easily be replicated in other regions.

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

1. BASE IOT APPLICATIONS

- Context-adaptive traffic management
- Multi-modal transportation
- Community Policy Suite

2. ECOSYSTEM ENRICHMENT (€3m)

- New services
- SME focus

KPIs

Beyond

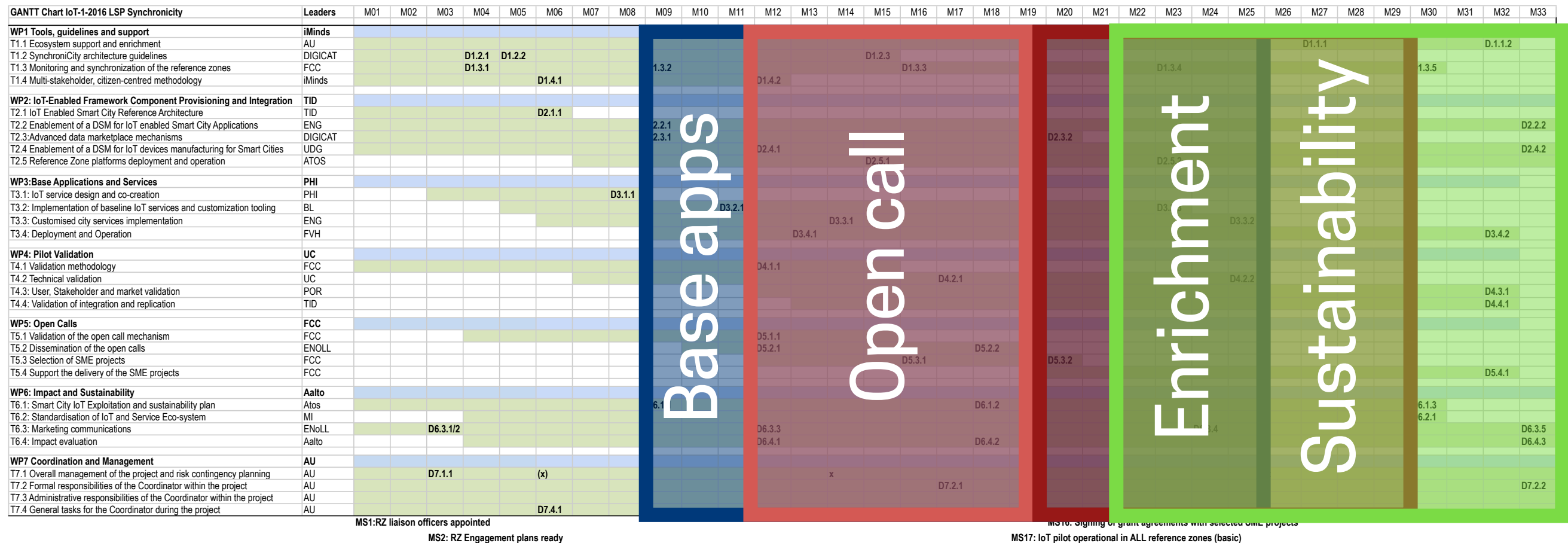
- zone
- vertical
- Europe

Building on

- CITYKeys
- ESPRESSO
- ETSI CIM
- ICT RPS
- SDOs

Social innovation	Citizen Centred	Number of users of the services (in all the pilots)	#	350000
	Awareness impact	Number of people that have been reached and/or are activated by the project	% of people	75%
	Perceived value from the citizens	Perceived value for the end users and citizens involved	Surveys based in Likert scale (% of surveys with average to good results)	>= 70%
	Quality of life	Perceived increment of the quality of life of the citizens involved	Surveys based in Likert scale (% of surveys with average to good results)	>= 70%
Access to services	Service implementation	Number of services implemented during the project lifecycle.	#	20
Governance	Involvement of the city administration	The extent to which the local authority is involved in the development of the project, other than financial, and how many departments are contributing (number of departments involved in each city)	#	4
	Perceived value from the decision makers	Perceived value for the local government and decision makers involved	Surveys based in Likert scale (% of surveys with average to good results)	>= 75%
Innovation	IoT connected devices	Number of IoT connected devices implemented during the project lifecycle in all the pilots	#	10000
		Total number of IoT connected devices by the end of the project, including previously installed	#	100000
	Open data sets	Number open data sets in use, in all the pilots	#	70
	Quality of open data	The extent to which the quality of the open data produced by the project was increased	Surveys based in Likert scale (% of surveys with average to good results)	>= 65%
	Apps developed	Number of developed apps in all the pilots	#	30
Local ecosystem involvement	Improved interoperability	The extent to which the project has increased interoperability between infrastructures, in all the pilots	Surveys based in Likert scale (% of surveys with average to good results)	10
	Participatory governance	Share of population participating in the service definition	% of people	>= 0,3%
	SME involved	Number of SME involved in all the process in all the pilots	#	100
	Partners engagement	Number of local ecosystem partners involved in the project during its lifecycle, in all the pilots (SMEs, creative hubs, citizen organisations, etc.)	#	200
Safety	Data Privacy	The level of data protection by the city - users perception on security levels. Alternatively - PIA approach – privacy by design.	Surveys based in Likert scale (% of surveys with average to good results)	>= 90%
Replication and Scalability	Replication potential	Number of replicated services during the project lifecycle	#	4
	New follower city members/interested	Number of new follower cities or interested decision makers	#	8

Workplan



33 months Staged DevOps

Linking and contributing to:

- Open & Agile Smart Cities (OASC)
- EIP-SCC: High Level Group, Sherpa groups, action clusters
- AIOTI: WG3 (standards) and WG8 (smart cities)
- Standards development: ESPRESSO, ETSI (ISG), ITU, IEEE, OMA, ISO, SSCC-CG
- FIWARE
- FIRE: Fed4FIRE, OrganiCity, IoT Lab, F-Interop

IoT Large Scale Pilots

- Smart Cities = SynchroniCity
- Automotive
- Active Aging
- Wearables
- Agro
- CSAs (tech + co-creation)

WORLD

NATION

CITY



SYNCHRONICITY
OPERATIONS

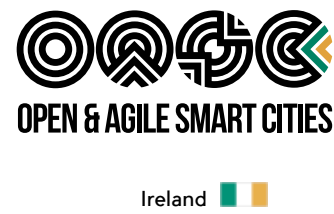
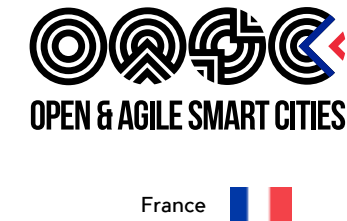
PROCUREMENT

EXPERIMENTATION



Connected by





104 cities

22 countries

**Europe, Latin America,
Asia-Pacific**

—

www.oascities.org

info@oascities.org

CONNECTED SMART CITIES CONFERENCE 2017

“Making IoT work for cities and citizens”

January 12, 2017, Brussels

Committee of the Regions

CONNECTED SMART CITIES CONFERENCE 2017

Opening plenary			
Cross-cutting themes and domain-specific sessions			Tech track
Innovation ecosystems	Market creation & policy issues	Mobility	Platforms & data models
Lunch			
Cities by and for people	Assisted living & aging	Environment & water management	Standards for real-time urban services
Closing plenary			