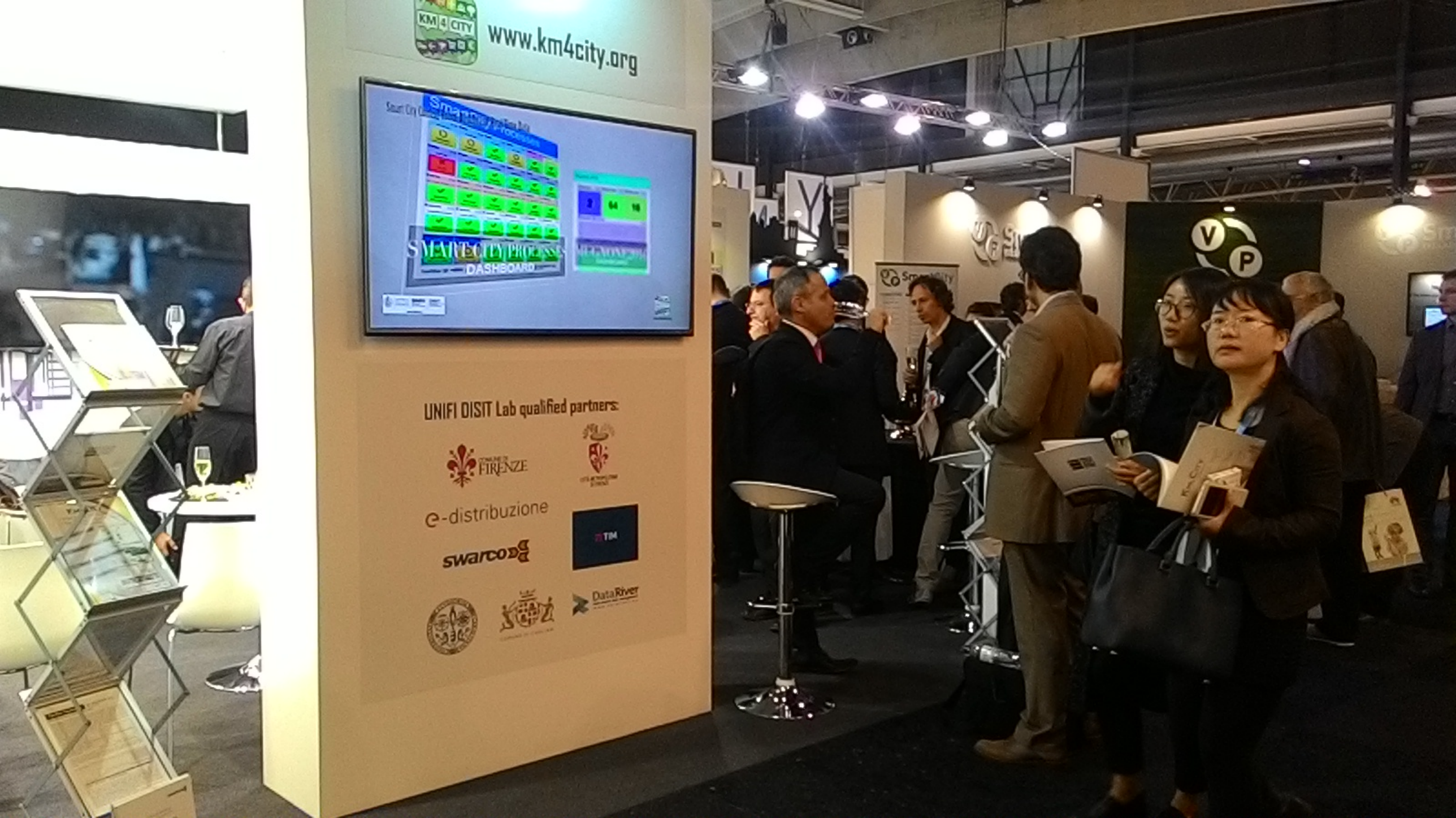

www.kmAcity.org
KM A CITY




KM 4 CITY
www.km4city.org
Mobile and Web Apps
App Development Tools


KM 4 CITY
www.km4city.org
BIG DATA ANALYTICS
BUSINESS INTELLIGENCE
SmartCity

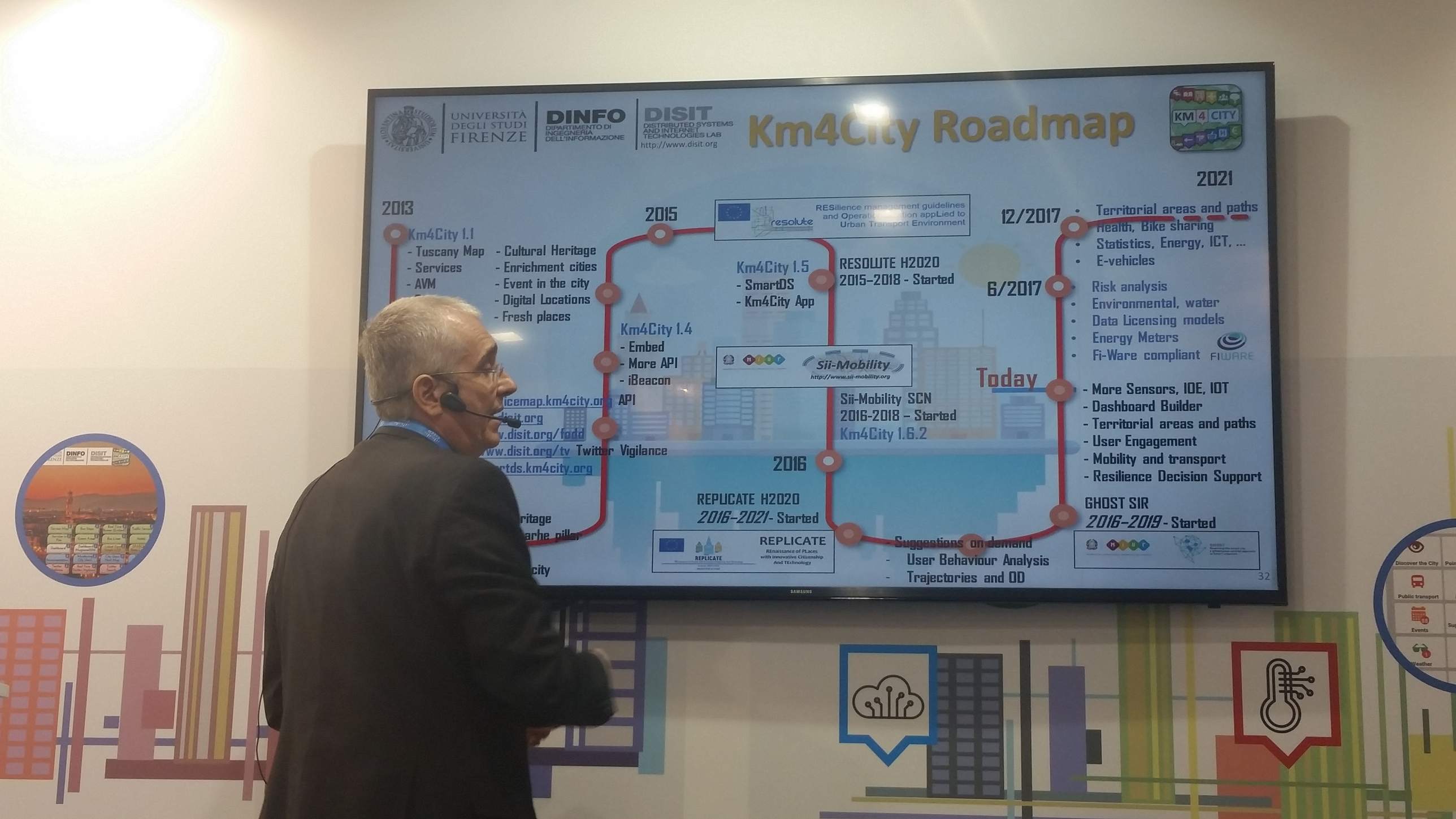

KM 4 CITY
www.km4city.org
SMART CITY PROCESS
DASHBOARD
UNIFI DISIT Lab qualified partners:
FIRENZE
e-distribuzione
TIM
swarco
DataRiver


Km4City Roadmap
12/2017
6/2017
Today
2016
qualified partners:
TIM
DataRiver

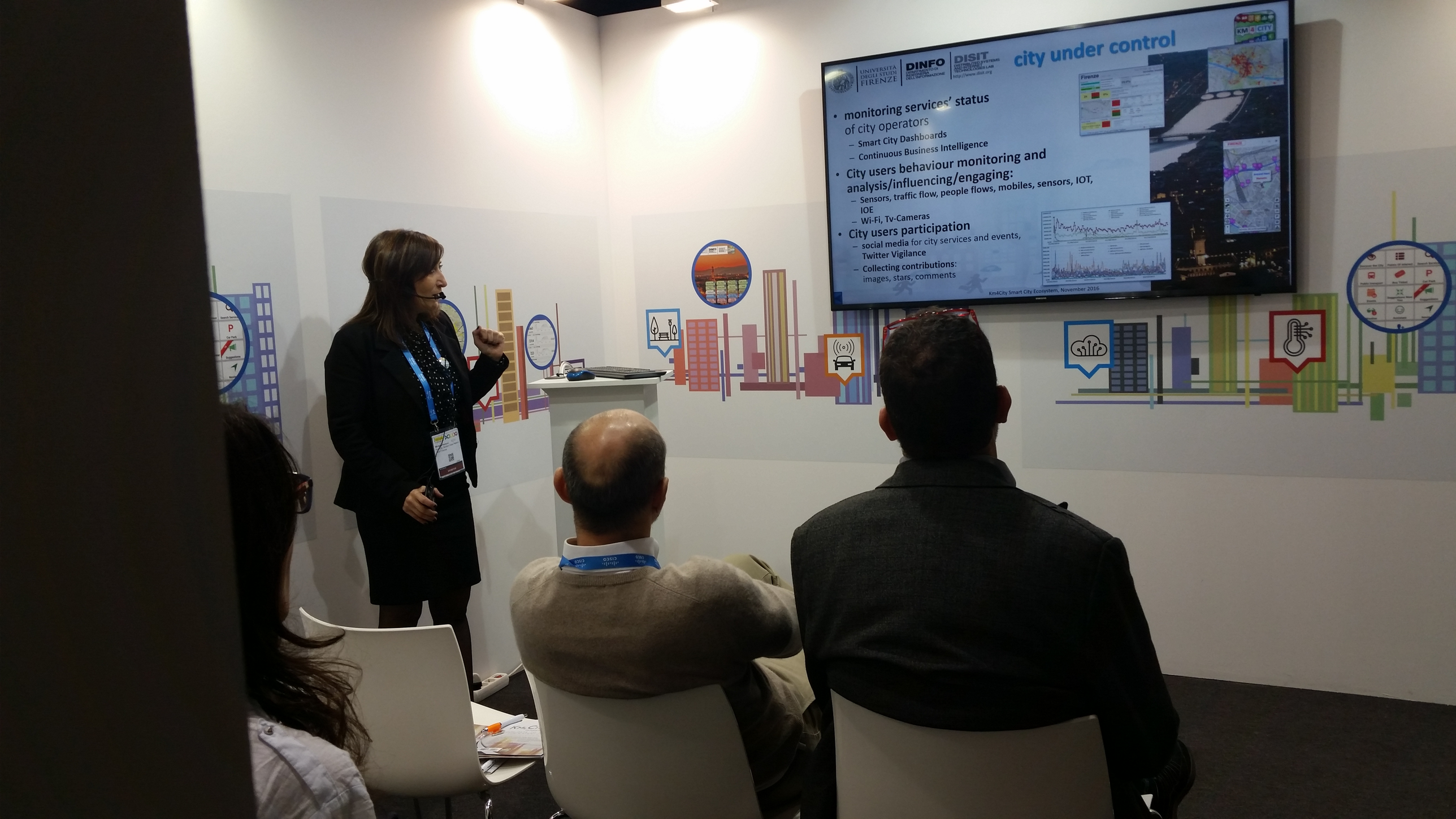

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DINFO
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DISIT
DISTRIBUTED SYSTEMS AND INTERNET TECHNOLOGIES LAB
Km4City
KM 4 CITY
Open, Flexible, Scalable City Platform
http://www.km4city.org
Paolo Nesi, paolo.nesi@unifi.it
smart city expo WORLD CONGRESS
15-17 NOVEMBER 2016
BARCELONA
Fira Barcelona
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Fira Barcelona
smart city expo WORLD CONGRESS


Smart City
Dashboard
control Room
Resilience and
Smart Decision
Support
Multidomain
Real Time
Monitoring
Twitter
Vigilance
Behavior
Analysis
Mobile and Web Apps
City API
Big Data Analytics
Business Intelligence
Mining
Traffic OD
People Flow
App Development Tools
Dashboards
Service Provider
Environment,
Water, Energy
Social Media,
Wi-Fi, Network
Sensors, IoT,
Cameras, ...
SmartCity
VALLADOLID Y PALENCIA

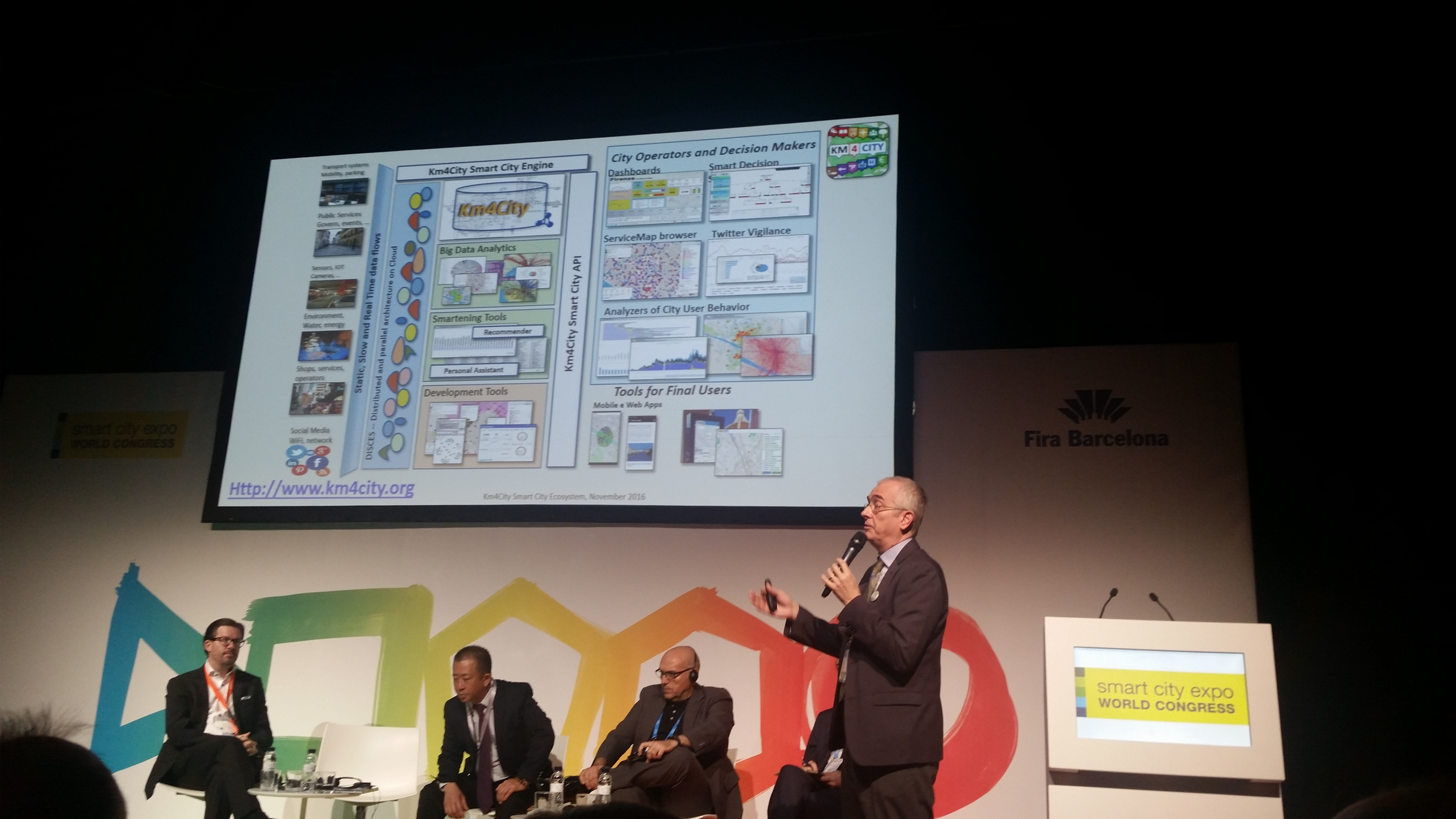

COMUNE DI FIRENZE
In case of
ordinary stresses,
extraordinary disasters,
grand events...
...we need urban transport system able
to adapt to the new situation
What can we do:
- Inform the public as soon as possible
- Redirect traffic toward safe areas
- Mobilize emergency relief and civil protection staff
- Save lives, reduce people sufferings
- And much more!
resolute


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http://www.disit.org
Km4City Roadmap
KM 4 CITY
2013
Km4City 1.1
- Tuscany Map
- Services
- AVM
- Cultural Heritage
- Enrichment cities
- Event in the city
- Digital Locations
- Fresh places
2015
RESilience management guidelines and Operation appLied to Urban Transport Environment
resolute
Km4City 1.5
- SmartDS
- Km4City App
RESOLUTE H2020
2015-2018 - Started
Km4City 1.4
- Embed
- More API
- iBeacon
API
Sii-Mobility
http://www.sii-mobility.org
Sii-Mobility SCN
2016-2018 – Started
Km4City 1.6.2
2016
REPLICATE H2020
2016-2021 - Started
REPLICATE
REnaissance of PLaces with innovative Citizenship And TEchnology
Suggestions on demand
- User Behaviour Analysis
- Trajectories and OD
12/2017
6/2017
Today
2021
- Territorial areas and paths
- Health, Bike sharing
- Statistics, Energy, ICT, ...
- E-vehicles
- Risk analysis
- Environmental, water
- Data Licensing models
- Energy Meters
- Fi-Ware compliant
FIWARE
- More Sensors, IOE, IOT
- Dashboard Builder
- Territorial areas and paths
- User Engagement
- Mobility and transport
- Resilience Decision Support
GHOST SIR
2016-2019 - Started
32
SAMSUNG


smart city expo
WORLD CONGRESS
Smart City Expo World Congress 2016
Barcelona, 15-17 Novmber 2016
Governing tHe smart city:
a gOvernance-centred approach to SmarT urbanism
(GHOST)
(23/09/2015 - 23/09/2018)
Chiara Garau, Paola Zamperlin
DICAAR, University of Cagliari
Under the padronage of the Municipality of Cagliari
CAGLIARI
CITTÀ EUROPEA
dello SPORT 2017
CANDIDATA

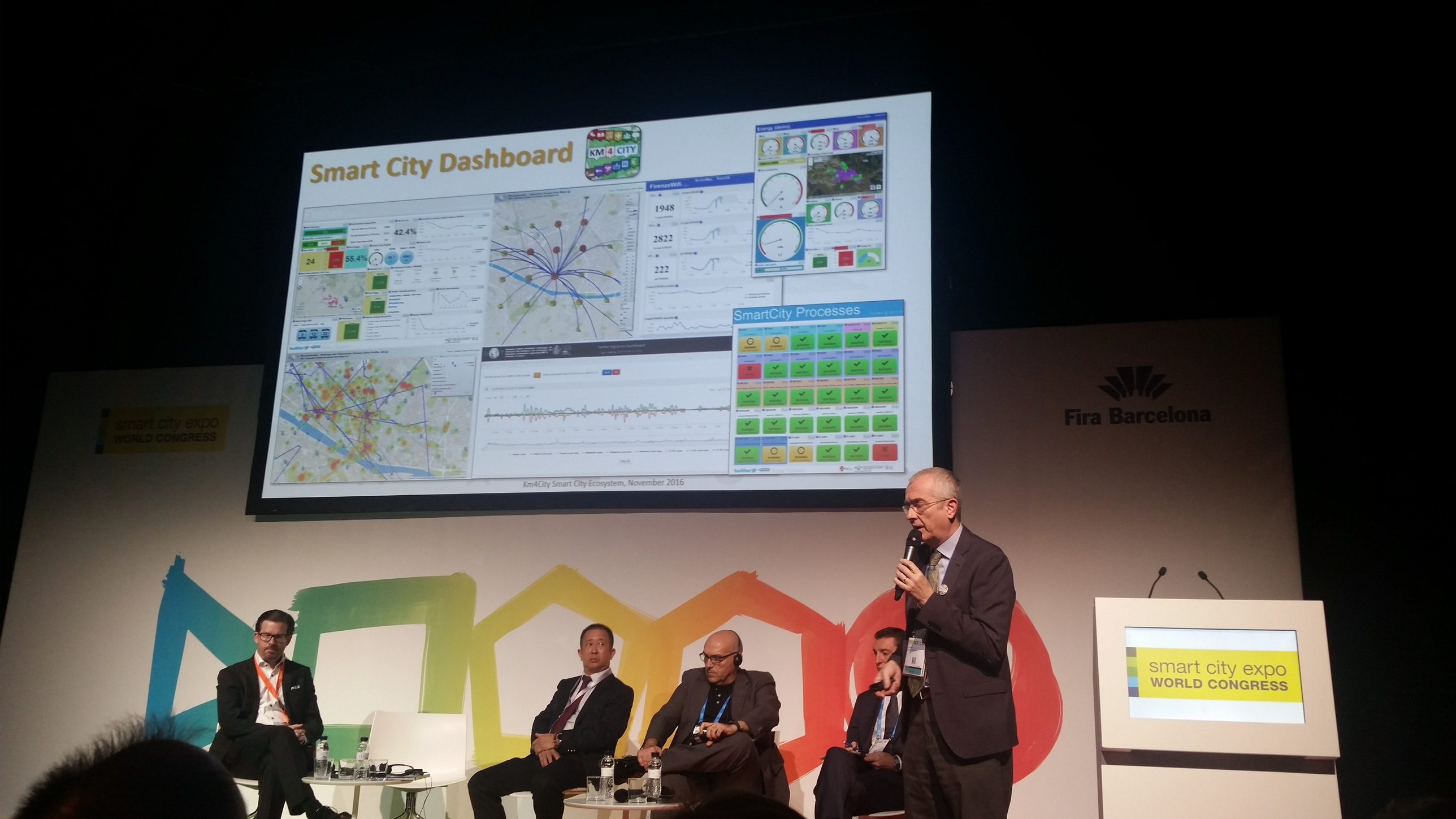

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DINFO
DISIT
city under control
monitoring services' status
of city operators
Smart City Dashboards
Continuous Business Intelligence
City users behaviour monitoring and analysis/influencing/engaging:
Sensors, traffic flow, people flows, mobiles, sensors, IOT, IOE
Wi-Fi, Tv-Cameras
City users participation
social media for city services and events, Twitter Vigilance
Collecting contributions: images, stars, comments
Km4City Smart City Ecosystem, November 2016


KM 4 CITY
Resilience and Smart Decision Support
Mobile and Web Apps


Km4City Smart City Engine
Km4City
Big Data Analytics
Smartening Tools
Recommender
Personal Assistant
Development Tools
Km4City Smart City API
Static, Slow and Real Time data flows
DISCES – Distributed and parallel architecture on Cloud
Transport systems Mobility, parking
Public Services Govern, events, ..
Sensors, IOT Cameras, ..
Environment, Water, energy
Shops, services, operators
Social Media WIFI, network
City Operators and Decision Makers
Dashboards
Smart Decision
ServiceMap browser
Twitter Vigilance
Analyzers of City User Behavior
Tools for Final Users
Mobile e Web Apps
KM 4 CITY
Http://www.km4city.org
Km4City Smart City Ecosystem, November 2016
smart city expo WORLD CONGRESS
Fira Barcelona


3 - improve city
resilience,
reducing risks and
decision support


Tuscany Region
Road Graph (Tuscany region)
132,923 Roads
389,711 Road Elements
318,160 Road Nodes
1,508,207 Street Numbers
Services (20 cat, 512 cat.)
16 Pub. Transport Operators
21.280 Bus stops & 1081 bus lines
210 Parking areas
796 Traffic Sensors
Info on: points, paths, areas, etc.
Dynamic/real-time
bus lines: 144 updates X day X line
parking status: 76 updates X day X sensor
traffic Sensors: 288 updates X day X sensor
weather: 2 updates X day for 285 areas
events: about 60 new events X day
Wi-Fi: > 350.000 measures X day
mobiles: > 50.000 measures X day
more than 35.000 distinct users X day
From 600.000 to 4.5 M Tweets X day
.....many IOT
http://servicemap.km4city.org
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Smart City Dashboard
KM 4 CITY
42.4%
24
55.4%
1948
2822
222
SmartCity Processes
Km4City Smart City Ecosystem, November 2016
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smart city expo
WORLD CONGRESS


smart city expo
WORLD CONGRESS
FOR CITIZENS

KM 4 CITY

# Projects exploiting Km4City models and tools

REPLICATE

www.replicate-project.eu

European Commission | Horizon 2020 European Union funding for Research & Innovation

resolute

www.resolute-eu.org

European Commission | Horizon 2020 European Union funding for Research & Innovation

Sii-Mobility

www.sii-mobility.org

MIUR

GHOST

sites.unica.it/ghost/home

MIUR

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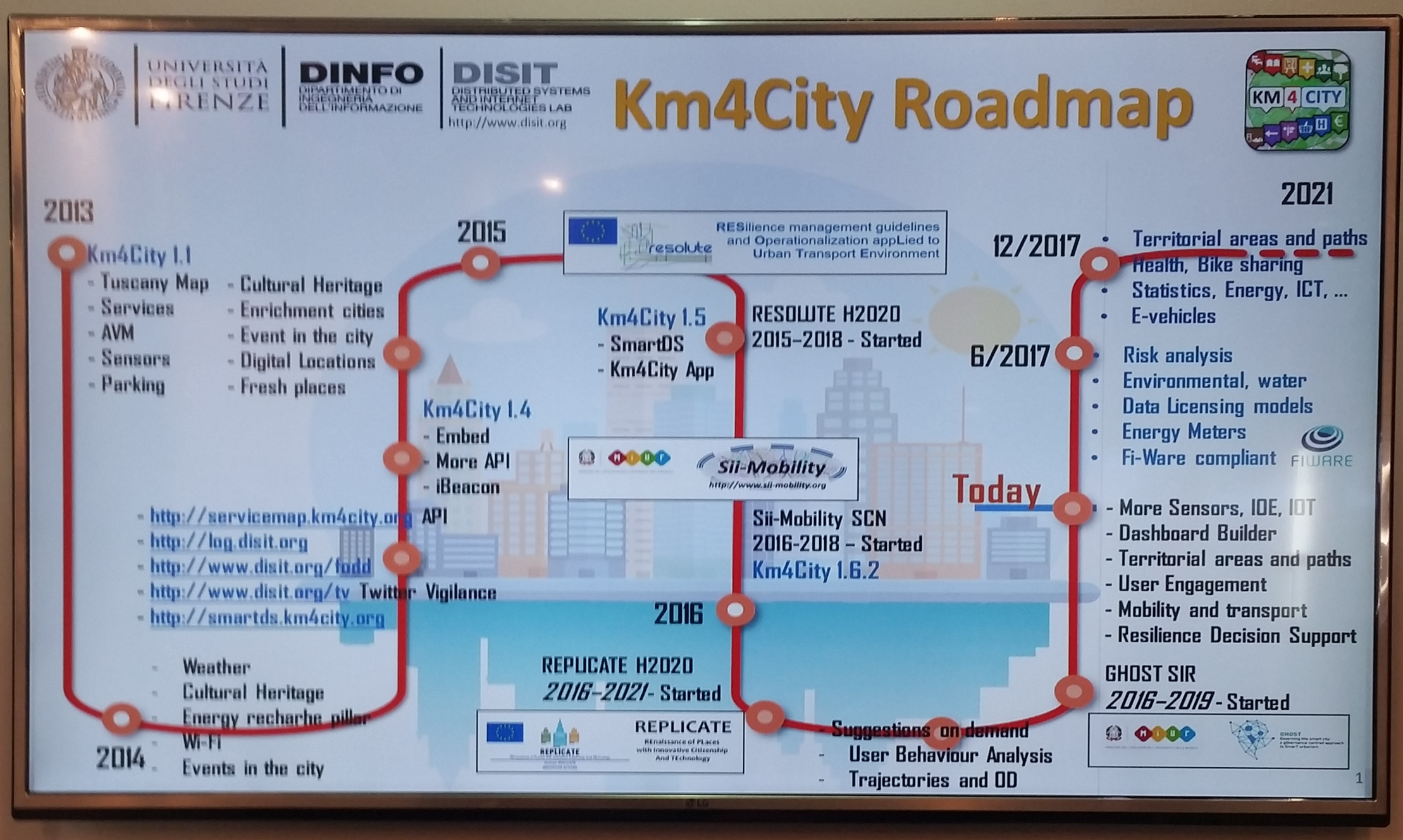
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CITTÀ METROPOLITANA DI FIRENZE

e-distribuzione

swarco

TIM

COMUNE DI CAGLIARI

DataRiver
open source data management
www.datariver.eu


CITIES FOR CITIZENS


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Km4City
For a Sentient City
http://www.disit.org/km4city
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