

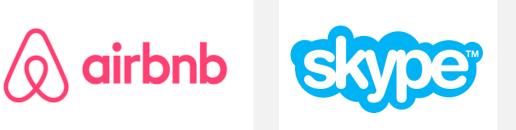
Piattaforme, Macchine ed altre "pesantezze"



c'è un mondo "leggero" intorno a noi...



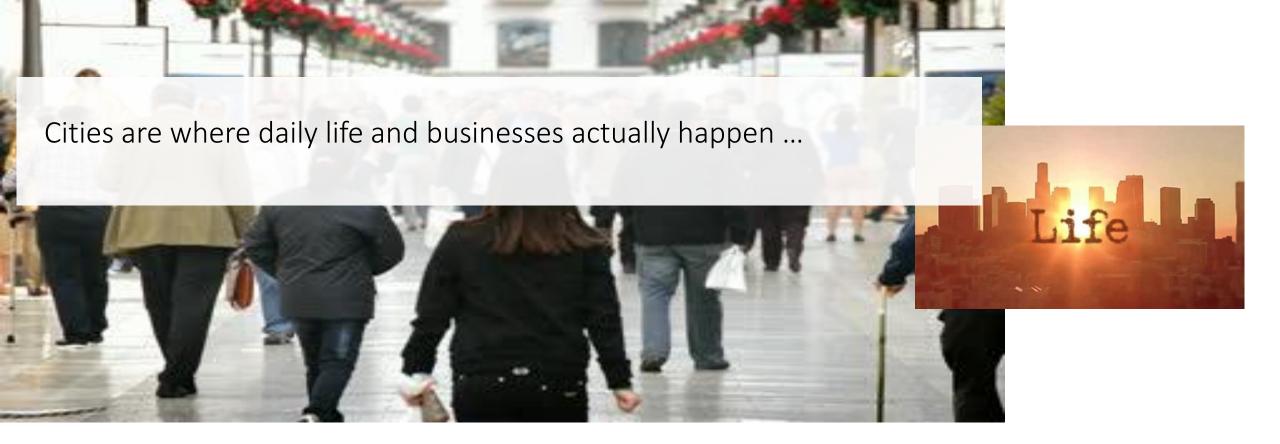






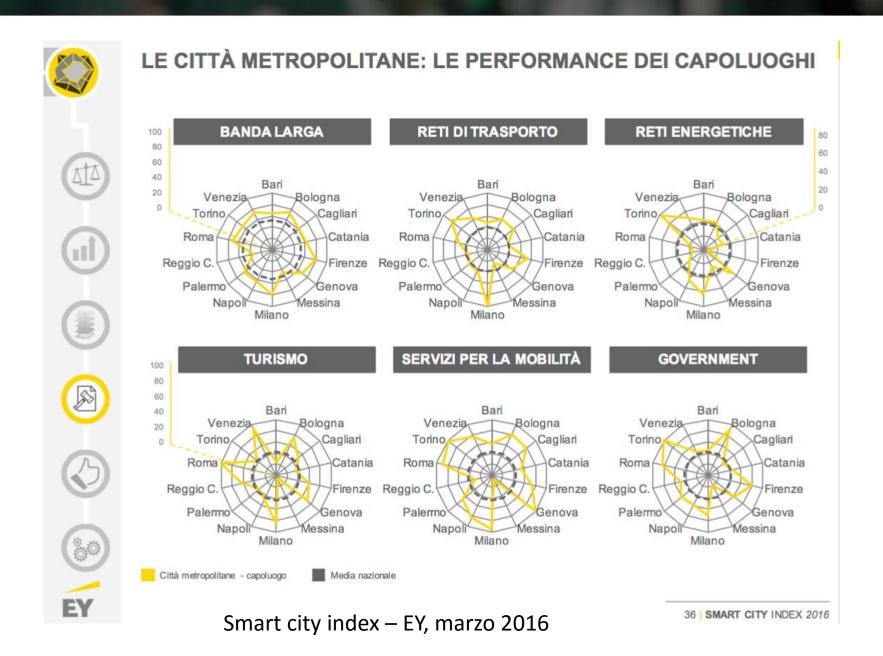






Smart Cities are not simply about more efficient municipality services but transforming Cities into the ICT "platform" enabling economy growth and well-being through innovation

Una lettura del territorio



Un'altra lettura del territorio

• L'analisi dei punteggi raggiunti negli indicatori mostra (a livello complessivo e nelle singole aree tematiche) i punti di forza e di debolezza delle città.

Indice Totale (ranking città 'X', dettaglio tematico) **Tematica Energia** (ranking città 'X', dettaglio di alcuni indicatori) Energie Progetti smart Rinnovabili lighting Efficienza Smart Justice Energetica Spesa Smart Mobilità Smart grid illuminazione... Security/ Alternativa Risorse **Smart Culture** naturali Consumi mobilità Politiche energy elettrica building Smart Broadband Government Colonnine Rinnovabile Smart Smart Health elettriche edifici pubblici Education Ad es. la città "X" dovrà Smart investire nelle energie Mobility rinnovabili e in questo ambito particolare sulla mobilità elettrica ed energy building:





Le città metropolitane: occasione di nuovi servizi con nuovi modelli

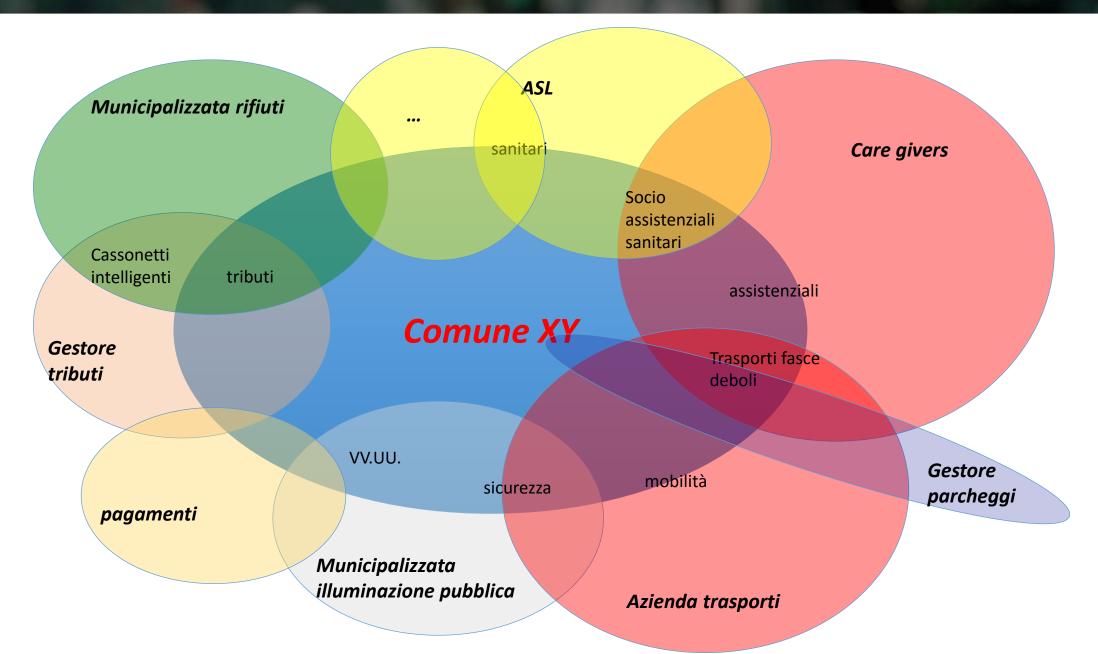


Città metropolitana	Numero di comuni nell'area metropolitana	Popolazione comune capoluogo	Popolazione città metropolitana	Incremento	Superficie comune capoluogo (Kmq)	Superficie area metropolitana	Incremento
Bari	41	315.933	1.247.303	x 3,9	117	3.863	x 32,9
Bologna	56	371.337	976.243	x 2,6	141	3.702	x 26,3
Cagliari	71	149.883	550.580	(x 3,7)	85	4.570	(53,8)
Catania	58	293.902	1.078.766	x 3,7	183	3.574	x 19,5
Firenze	42	358.079	973.145	x 2,7	102	3.514	x 34,3
Genova	67	586.180	855.834	x 1,5	240	1.834	x 7,6
Messina	108	243.262	649.824	x 2,7	214	3.266	x 15,3
Milano	134	1.242.123	3.038.420	x 2,4	182	1.576	x 8,7
Napoli	92	962.003	3.054.956	x 3,2	119	1.179	x 9,9
Palermo	82	657.561	1.243.585	x 1,9	161	5.009	x 31,2
Reggio Calabria	97	180.817	550.967	х 3	239	3.210	x 13,4
Roma	121	2.617.175	3.997.465	x 1,5	1.287	5.363	x 4,2
Torino	315	872.367	2.247.780	x 2,6	130	6.827	52,5
Venezia	44	261.362	846.962	x 3,2	416	2.473	x 5,9
Totale	1.328	9.111.984	21.311.830	x 2,3	3.616	49.960	x 13,8





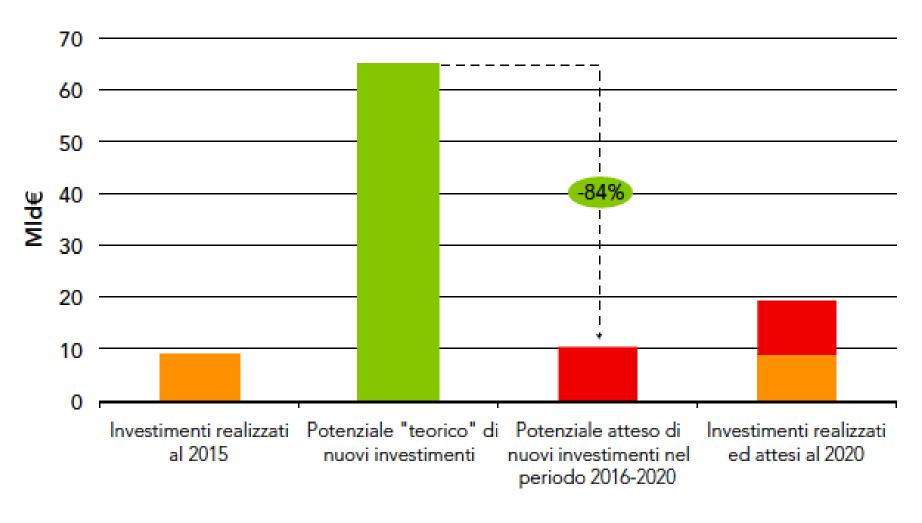
La scala metropolitana...



Le possibilità concrete

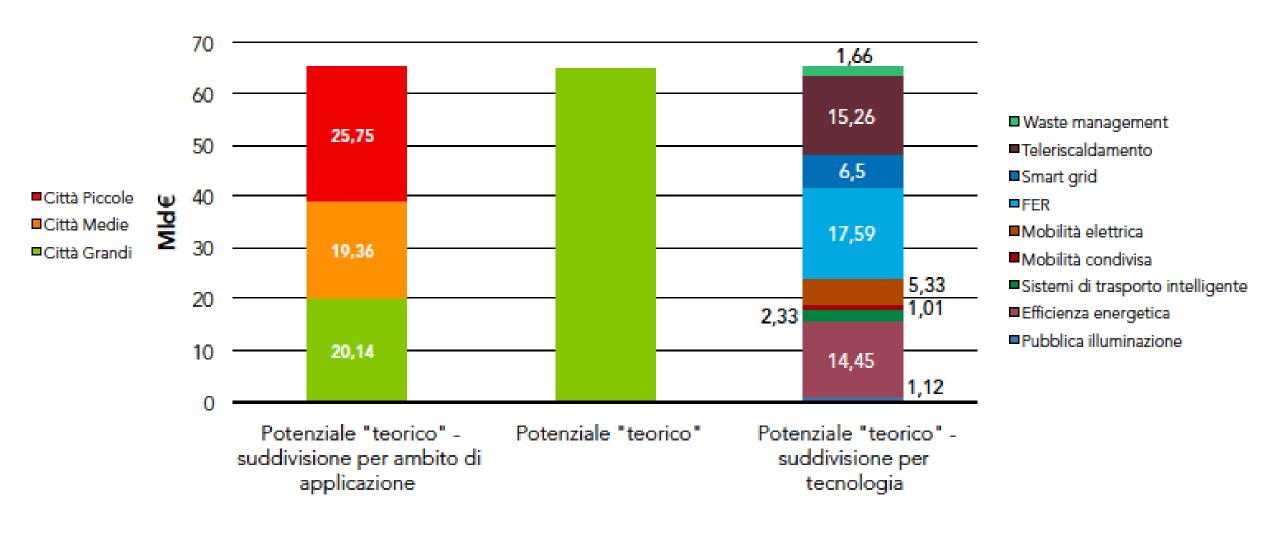


Potenziale mercato italiano



Smart city report – Politecnico di Milano, ottobre 2015

Distribuzione potenziale mercato italiano



Smart city report – Politecnico di Milano, ottobre 2015

Nuovi modelli si impongono



Rassegna stampa recente





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TERRITORI TECH

NOVA24

My24 A - A - | - | - |

PLUS24 RISPARMIO



DDL MADIA

Riforma PA. ed

Tutte le modifiche al Cdm del 20 gennaio. ogni ente di Federica Meta



Stai consultando: Camera dei deputati > Documenti > Temi dell'attività parlamentare

Temi dell'attività parlamentare

Speciale provvedimenti

Tematiche

Documentazione inizio Legislatura

Ordine del giorno generale

Proposte di modificazione al Regolamento

Speciale Provvedimenti

Ambiente, infrastrutture e politiche abitative

Contratti pubblici, infrastrutture, edilizia e politiche abitative Deleghe in materia di appalti pubblici e concessioni

informazioni aggiornate a lunedì, 1 febbraio zu re

La legge 28 gennaio 2016, n. 11 delega il Governo ad attuare la nuova disciplina europea in materia di appalti pubblici e concessioni e a procedere a un complessivo

Notizie > Attualità

Sharing economy: ecco la proposta di legge per «legalizzare» Airbnb &

Co.

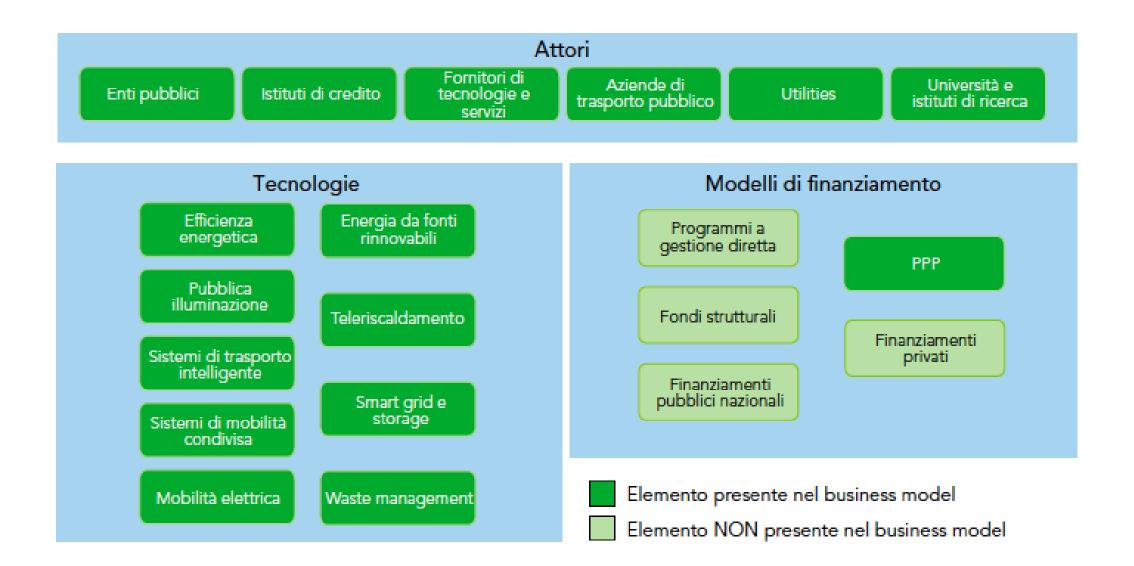
di Biagio Simonetta 2 marzo 2016



Le discussioni sulla sharing economy sono eterne, quasi da tifo calcistico. L'uberizzazione dei servizi fa paura all'economia tradizionale, e spesso si inceppa in beghe legali infinite (Uber è proprio uno di questi casi, con il servizio Pop che in Italia è bloccato dal maggio del 2015). Per questo un quadro normativo aggiornato, in grado di tenere in considerazione i cambiamenti che le piattaforme online etanno apportando giorno dono giorno, cambra una necessità

Pacchetto direttive UE appalti pubblici

Tutti gli attori coinvolti...



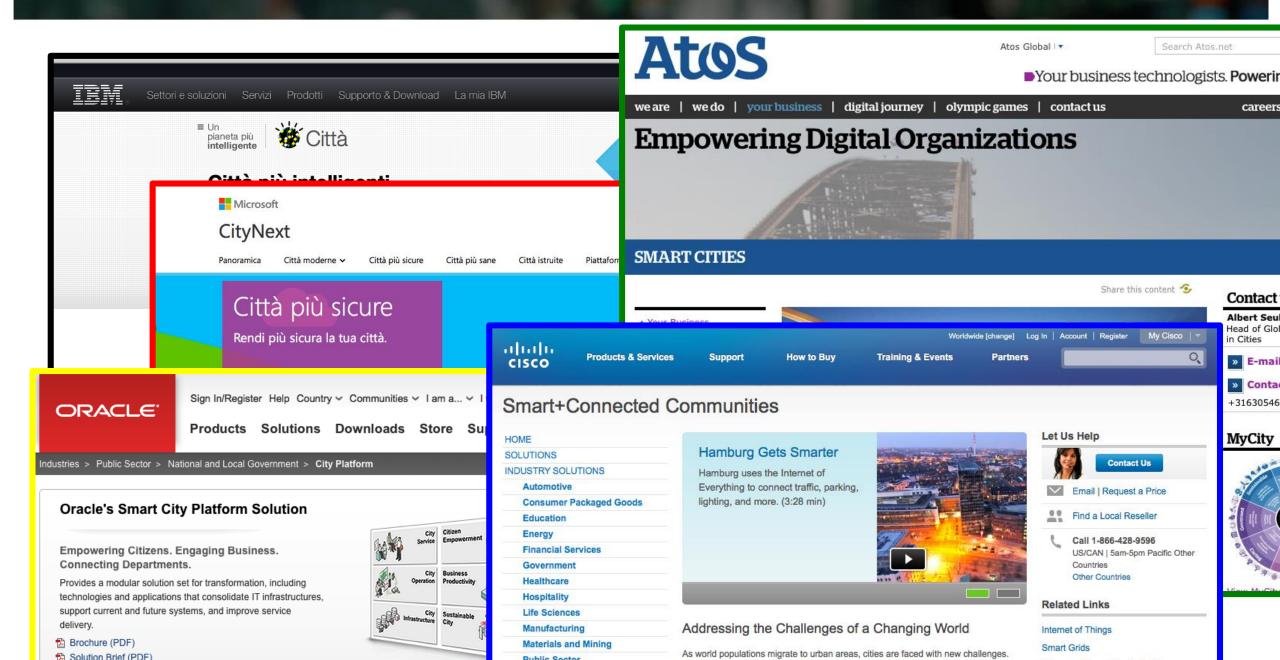
City as a Service



Cosa fanno i "fornitori di IT"?



I grandi piattaforme generiche, i piccoli verticali (APP) iper specialistici



Cosa chiede il mercato?

competenze cross domain competenze specifiche (sia tecnologiche ma SOPRATTUTTO di dominio) posizionarsi in modo "distintivo":

No vendor lock-in →

dare valore a standard open source ed in particolare a FIWARE: standard, open, interoperabile, replicabile, scalabile, ...

No city lock-in \rightarrow

dare valore a OASC: open APIs, common data sets, condivisione, riuso, ...





FIWARE

Una straordinaria opportunità





"To build an open sustainable ecosystem around public, royalty-free and implementation-driven software platform standards that will ease the development of new Smart Applications in multiple sectors."

FIWARE is the open platform standard behind those future digital services you will love. It will be free, forever.

FIWARE: una lunga storia...

2009/10

• Inception of the "Future Internet Public-Private Partnership" (FI-PPP) by the European Commission and European industry



2011/12

• Development of the **generic software components** a.k.a. "Generic Enablers" by leading European industry and research organizations

• **Proof of concept in a few sectors** (smart cities, mobility, energy, environment, logistics, media & content, security)



2013/14

- Development of the generic components continues: **FIWARE catalog** becomes available
- FIWARE nodes are set up: FIWARE Lab and FIWARE Ops become available
- Specific components become available, specific applications are developed based on the FIWARE components in various sectors (smart cities, health, transport, energy and environment, agriculture, media & content, manufacturing, logistics, education)





The EC is making a strong bet on FIWARE

Neelie Kroes launched FIWARE LAB at Campus Party Europe in London (Sept 2013)

-) "... to make innovative technologies available for all..."
- "... Smart cities are a great example..."
- "... Led by industry, this is a major investment in generic technology..."

She also made a reference to FIWARE Lab at the launch of the EIP on Smart Cities and Communities (Sept 2013)

- "... That's something that you can turn into real results, real jobs, and real innovation..."
- > "... European platforms helping European innovation in European cities..."



... una storia che continua...

2014/15

- Launch of FIWARE Accelerate: start-ups and SMEs start developing applications and solutions based on FIWARE
- First real scale test for FIWARE: training and support become available
- FIWARE expands beyond Europe: a FIWARE node is made available in Mexico



2015

- An **open source community** is created around FIWARE components
- FIWARE plays a key role in the **Open & Agile Smart Cities Initiative**
- First commercial FIWARE instances/nodes become available
- FIWARE Lab nodes in **Brazil**, a FIWARE ecosystem is built in **Chile**; first FIWARE-based demo in Canada with University of Toronto and SAVI; FIWARE is a **Partner of GCTC2016**





FIWARE: in cifre

≈ 200

Leading European organizations

(industry, SMEs, research institutes and universities) from 27 countries, including Telefonica, Orange, Atos, Engineering, IBM and many others

≈460 M€
R&D
investment

89
Cities
(19 countries)

involved

(Open & Agile Smart Cities)

19
FIWARE Lab Nodes

> 900 SMEs and Start-Ups (FIWARE Accelerate)

piattaforma FIWARE

WHAT DOES FIWARE OFFER?

SFIWARE

GENERIC ENABLERS

FIWARE assembles a set of building blocks that ease creation of smart Internet Applications. These blocks are called Generic Enablers and are ready available and ready to use. They offer reusable and common shared functions serving multiple use



A set of open source modular software components that can be used, combined and/or integrated with other third party software to provide innovative solutions Focus on your added value and re-use what is already available!

An integrated lab environment to make sure that your application or solution is replicable and scalable

And also... Training and support; and specific tools to operate physical nodes hosting FIWARE



FIWARE Lab

FIWARE Lab

The FIWARE Lab is an example of FIWARE instance available as a free experimentation environment where developers can build their applications

using available FIWARE GEI instances, or dedicated instances they can deploy on their own. It not only allows them to experiment with FIWARE technologies, but test and showcase their applications with real data and users, making it easier to catch the attention of potential customers and investors

FIWARE Academy The FIWARE eLearning Platform is a good place to

other training material about FIWARE

start. Here you will find webcasts, tutorials and

we need you to join us and be part of the new digital revolution that is coming! Welcome to FIWARE, welcome to progress.

FIWARE Operations

FIWARE Ops is the suite of tools that will ease creation and operation of FIWARE instances based on the federation of FIWARE nodes. It has been used to build and to support the expansion of the FIWARE Lab worldwide.





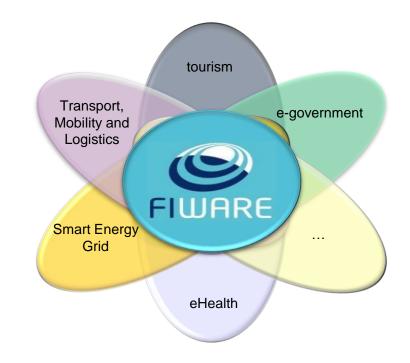






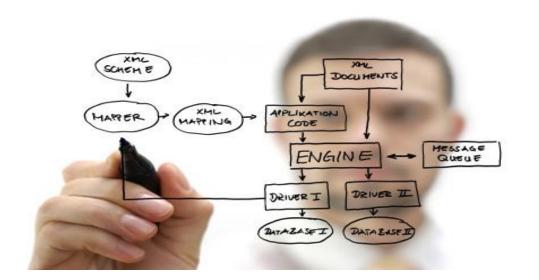
FIWARE: 5 main pillars

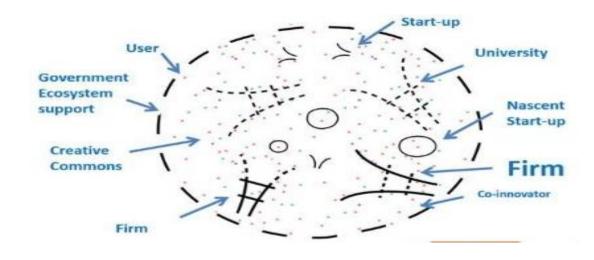
- Goal: capture opportunities derived from the new wave of digitalization of life and businesses
- Strategy: Build an ecosystem that will work as catalyst for capturing the opportunities. Lead standardization in Smart Cities and IoT (Internet of Things)
- Pillars:
 - FIWARE: a generic, open standard platform which serve the needs of developers in multiple domains
- opportunities can be incubated
- Rccelerate: a program that funds developers and entrepreneurs, and ignites roll-out of the ecosystem
- FIWARE Ops: the suite of tools easing deployment and operation of FI-WARE instance nodes
- FIWARE Mundus: reach a global footprint, opening to regions that share the same vision and ambition





FIWARE: piattaforma ed ecosistema





ICT Platform (APIs, data models)



Digital ecosystem

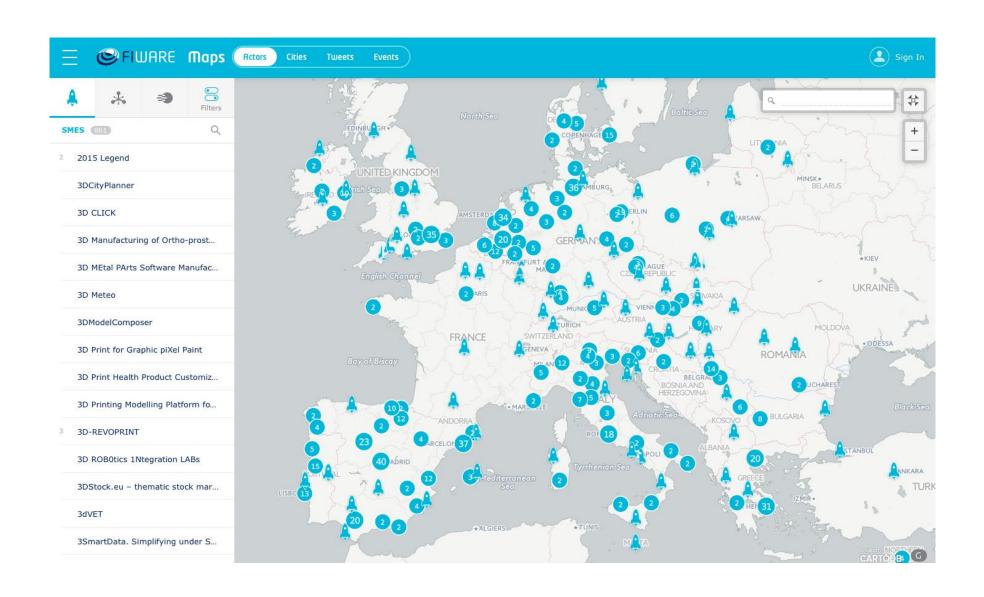
Ecosistema FIWARE: la community

FIWARE Community = all people who support FIWARE (users, developers, industry, accelerators, iHubs, OASC, startups & SMEs, cities,...)

FIWARE Open Source Community = persons who develop the FIWARE technologies



Ecosistema FIWARE: il mondo delle imprese (le imprese nel mondo)



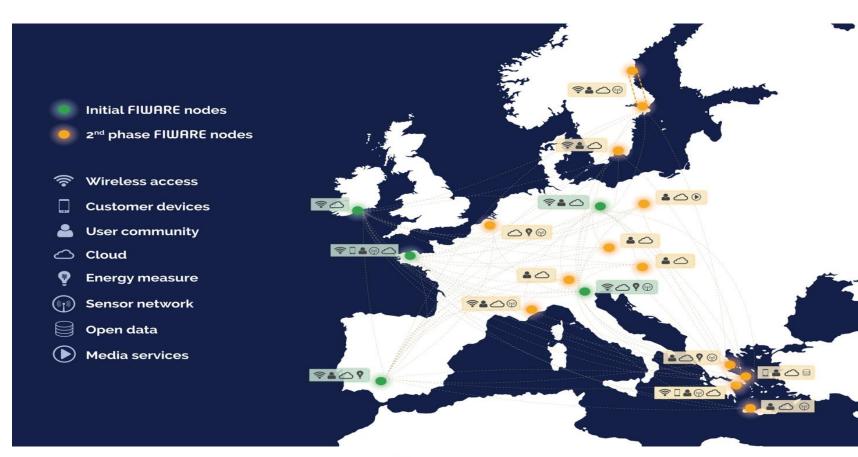
FIWARE Lab nodes

19 FIWARE Lab nodes

- Currently 18 nodes in Europe providing up to 3000+ cores, 16TB+ Ram, 750TB+ HD
- 1 node in Mexico providing 1200+ cores

...and more to follow!

- Discussions with several European regions and with Brazil and Chile already started
- Discussions with other regions and countries with high potential





FIWARE Mundus: The Path to a Global Future Internet Ecosystem Mobilizing worldwide players and decision makers towards the Future Internet

FIWARE: born in Europe, but to become global!

 FIWARE Regions & Cities and "innovation hubs" are being kicked off all around Europe and beyond



FIWARE Mundus: International Engagement (1/2) - Latin America

First contacts with **Uruguay** and **Peru**

- Progress with Peruvian authorities who are willing to hold further meetings around FIWARE
- Uruguayan representatives expressed their intention to connect to the Mexican node

First international activities kicked off in Mexico

- Public authorities engaged and involved
- · Setup of a FIWARE node in Mexico is a reality (1200+ cores by Q1 2015)
- Action plan in place: promotion of FIWARE within funding programmes targeted to startups/entrepreneurs in Mexico, identification of Mexican cities which will publish their open data and APIs on the FIWARE Lab

Other LatAm countries

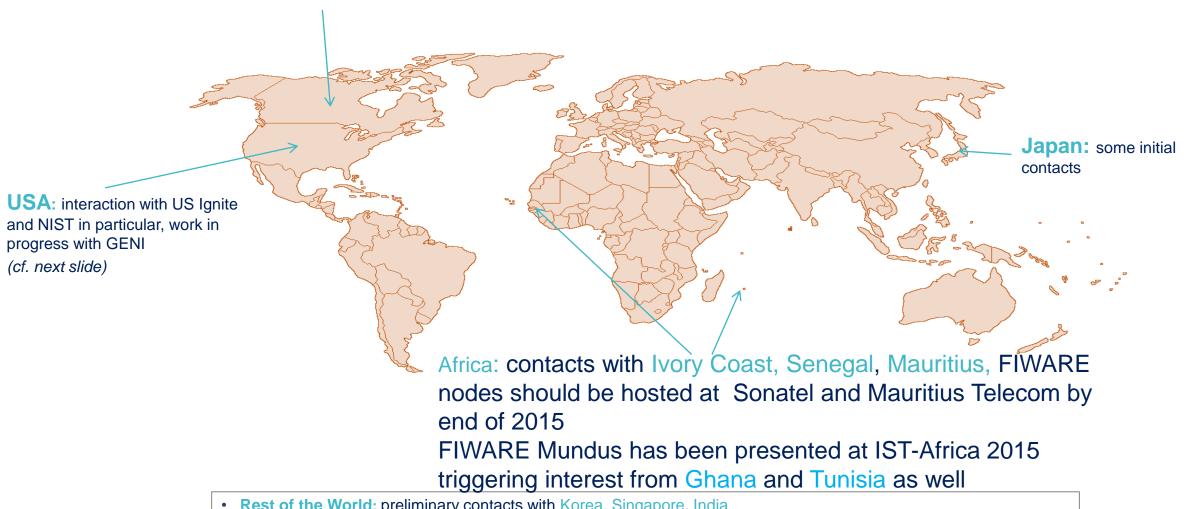
- Initial contacts have been made with Costa Rica. Panama, Nicaragua, and Colombia
- Interest from Argentina

Initial activities with Chile and Brazil

- Progress with authorities and an R&D center devoted to Future Internet and FIWARE in Chile
- Contacts with authorities in Brazil

FIWARE Mundus: International Engagement (2/2): Other Countries

Canada: work in progress with the Canadian SAVi platform as potential foundations for Smart City Platforms



- Rest of the World: preliminary contacts with Korea, Singapore, India
- In addition → Interaction with other projects: JEUPISTE, FESTIVAL (Japan); CONECTA2020 (Latin America), CHOICE (China)

Ecosistema FIWARE: le città



Open & Agile Smart Cities initiative principles

- **API**: Adoption of a lightweight, open-licence standard API to gather, publish, query and subscribe-to in-time context information describing the state of the city.
- **Data model**: Adoption of a simple initial standard data model required for effective interoperability when exchanging context information.
- Open Data Platform: Adoption of a flexible, easily-distributable open data publication platform which any organisation can set up at a low cost if it is not already being used.

Open & Agile Smart Cities initiative principles

- Approach: Adoption of a "driven by implementation" approach towards experimental consolidation of initial standard data models as well as specification of new standard data models. The goal is that communities and developers can
 - (1) co-create their services based on basic but commonly-defined data models,
 - (2) influence the definition of new models by implementing and experimenting, and
 - (3) help "curate" existing data models.

FIWARE: Why is an open standard platform required for smart cities?

Avoid vendor lock-in

- Standard Southbound APIs for sensor providers
- Standard Northbound APIs offered to applications
- Portability across platform providers
- Interoperability of apps on top of different providers

Engage a larger community of developers

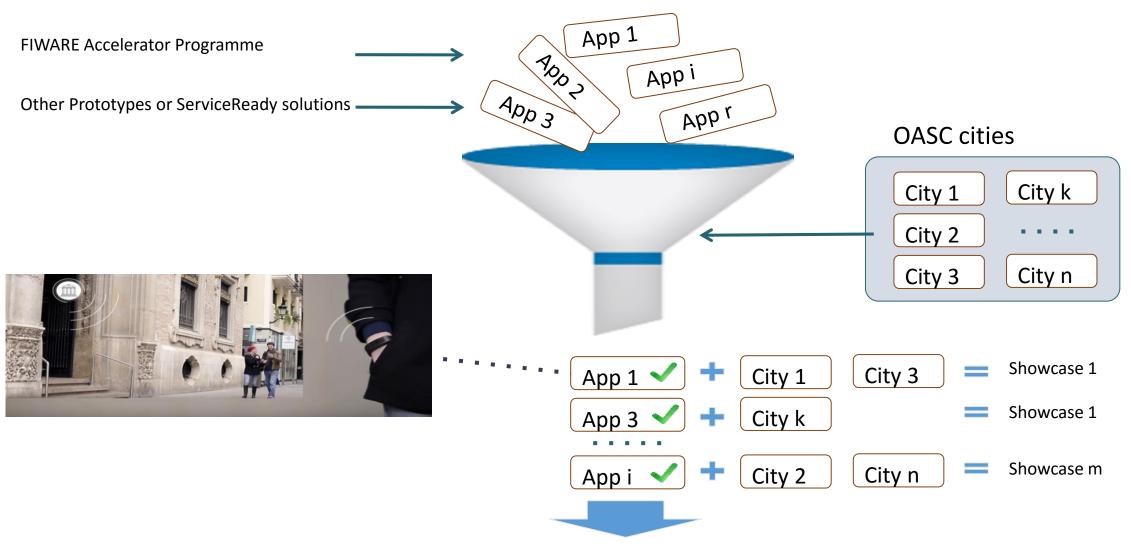
- True innovation
- More competition, leading to cost savings

Standard is not enough

- Modularity (should not mean "take it all or nothing")
- Allow different business models
- Non-intrusive, should co-exists with city service systems from third parties with their own platform



It's time to execute!



Transference to Market

Open & Agile Smart Cities (more than 100 cities all around the world - feb 2016)



Ultimo capitolo: la FIWARE Foundation



































Fondazione FIWARE

The **FIWARE** Foundation (FF) is a legal independent body providing shared resources to help to achieve the FIWARE Mission by Empowering, Promoting, Augmenting, Protecting, and Validating the FIWARE technologies and the whole Community around them.

Smart Cities, Smart agricolture e Industry4.0

contact



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http://fiware.org

http://lab.fiware.org

Follow @Fiware on Twitter!

Check latest videos at www.youtube.com/user/FIWARE

Grazie per la Vostra attenzione





