

Open Connections: “Investment in motion”

FIWARE: Making cities smart by boosting innovation and entrepreneurship

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<http://fiware.org>

<http://lab.fiware.org>

@FIWARE 





Cities are where daily life and businesses actually happen ...



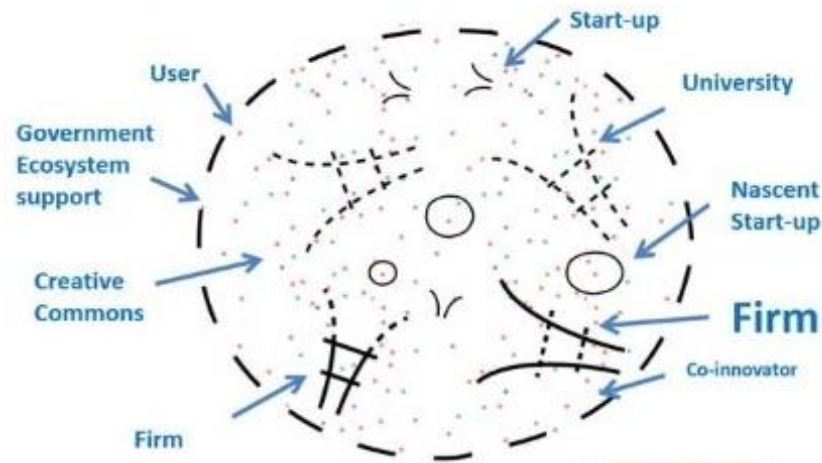
Smart Cities are not simply about more efficient municipality services but **transforming Cities into the ICT platform enabling economy growth and well-being through innovation**

Why an open standard Smart City platform?

- Avoiding vendor lock-in is nice ...
 - Standard Southbound APIs for sensor providers
 - Standard Northbound APIs offered to applications
 - Portability across platform providers
 - Interoperability of apps on top of different providers
- ... but more relevant is to engage a larger community of developers incentivized by existence of a large enough market
 - True innovation
 - More competition, leading to cost savings
- Not any standard is 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



Ecosystem and platform: two tied concepts



**Open Standard
Platform**



**Sustainable Open
Innovation Ecosystem**



FIWARE Lab: the “meeting point” where innovation takes place

App Customers and Data providers/Cities

- Connect to entrepreneurs
- Put their data at work
- Bring new innovative services to end users
- Be more efficient
- Social Reputation

Entrepreneurs, Developers

- Develop once for a large market
- Easily meet potential customers
- Marketing, promotion
- Ability to test with real data and end users
- Simple yet powerful APIs that accelerate product development



FIWARE Technology Providers

- “Coopetitive” approach
- Connect to entrepreneurs: jointly exploit the opportunities



Being “Smart” requires first being “Aware”

- Implementing a Smart City requires gathering and managing context information describing the current and historic “state” of the city
- Context information refers to the values of attributes characterizing entities relevant to city services, governance and third-party apps



Examples



- First Spanish city to **centralize all of its municipal information** through a smart city technological solution based on FIWARE
- **350 sensors** managing the municipal services of the city (traffic, street lighting, gardens, local police, pollution, cleaning, waste collection, weather...)
- Platform awarded through a **public tender process**

Ubiwhere activities...

1. Making happen the *Porto FIWARE Node*
2. Improving the Quality of Life (QoL) in a Smart City (through 75 connected sensors)
 - Air Quality... 15 different sensors/parameters
 - Noise
 - Temperature
3. Making touristic POI “openly available”
4. Integrating the *Porto FIWARE Node* with the UrbanSense project/ platform
 1. Taxis, Buses, Waste trucks
5. Integrating the *Porto FIWARE Node* with the VideoSensing project/ platform
6. Integrating the *Porto FIWARE Node* with the One.Stop.Transport project/ platform
7. Developing the MoodSensor iOS app
8. Water Metering Mobile App



Potential Market by 2020



■ Optimistic Scenario:

- Good match with potential demand
- Death Rates: 33% of initiatives

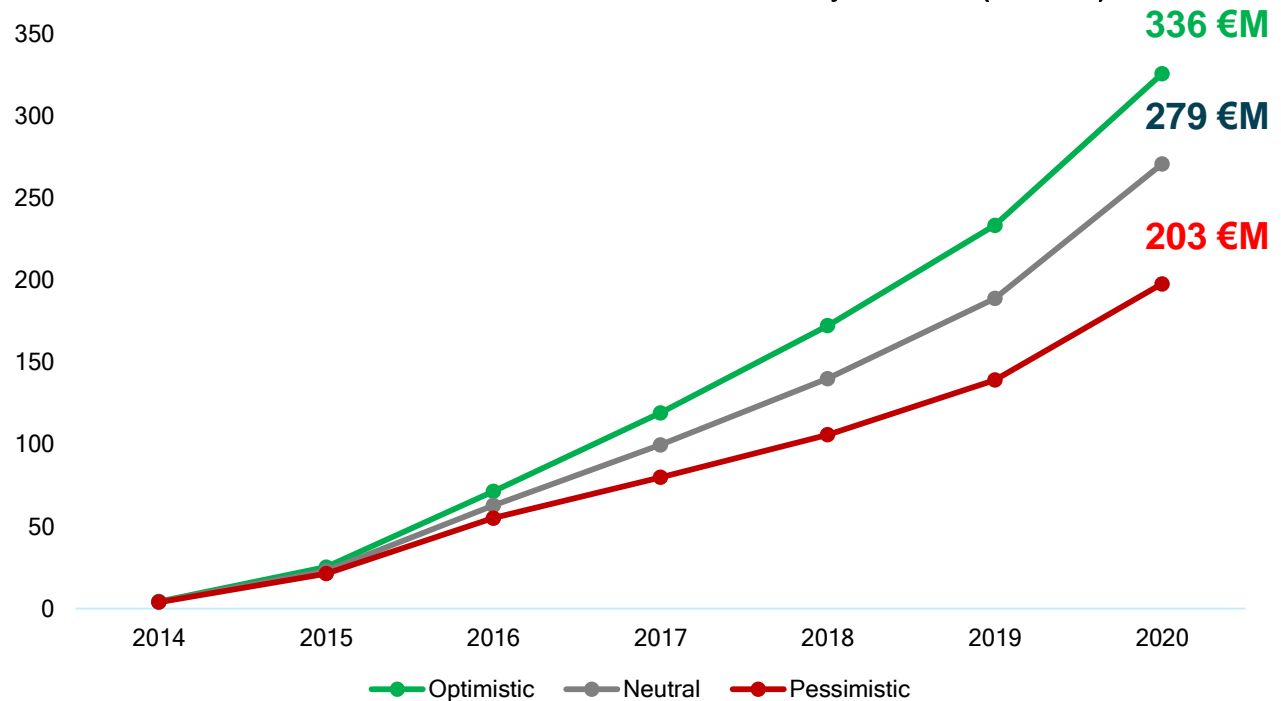
■ Neutral Scenario:

- Most likely match with potential demand
- Death Rates: 46% of initiatives

■ Pessimistic Scenario:

- Weak match with potential demand
- Death Rates: 60% of initiatives

Funded Initiatives Potential Revenues 2014-2020 by scenario (€ Million)



Source: FI-IMPACT Market Model 2.0, October 2015

OASC: an Opportunity to **Scale & Connect**

