

Industrial IoT Solutions

Mindsphere vs FIWARE

07-06-2018

We are leader in Digital Transformation

We are a **leader in digital transformation** serving a global client base. (**Industry 4.0**)

We are the Worldwide Information Technology Partner for the **Olympic & Paralympic Games**.

Atos is a Societas europaea (SE) company and we are listed on the **Euronext Paris market**.

We operate under the main brands **Atos, Atos Consulting, Atos Worldgrid, Bull, Canopy, Unify and Worldline**.

€12 billion annual
revenue *circa*

Top 5 digital leader

#1 leader in
Europe

72 countries
around
the world

100,000 business
technologists

ARI - Research & Innovation Group



- ▶ **R&D&I hub** of Atos (Headquarters in Spain)
- ▶ Development of projects combining the deployment of **advanced technologies** and **commercial exploitation**
- ▶ **Coordination** and Management of big international partnerships
- ▶ **Source of innovative solutions** to be promoted to Atos customers

**Worldwide reference point in
Research, Development & Innovation**

Competences

RDI | Research, Development & Innovation

- ▶ More than **30 years of experience** in running RDI projects, extremely well-known player in R&D in European contexts (FI-PPP, BDVA, AIOTI, EIT, H2020).
- ▶ Experts in designing, running and negotiating **large scale RDI** collaborative projects.
- ▶ Industrialisation of processes, **PMO**.
- ▶ **Wide range of expertise** - from emerging technologies to social sciences - various disciplines and cultures.
- ▶ Successfully providing **Research & Innovation support services** to other organizations (innovation workshops).

Ranked n.1 in Europe
in participation in FP7

Table 7: Ranking of top 10 PRC organisations in FP7 participations for the period 2007-2013

PRC Rank	Overall rank	Organisation
1	118	ATOS SPAIN SA
2	127	SIEMENS AKTIENGESELLSCHAFT
3	149	THALES COMMUNICATIONS & SECURITY SAS
4	159	D'APPOLONIA SPA
5	162	TELEFONICA INVESTIGACION Y DESARROLLO SA
6	164	STMICROELECTRONICS SRL

Industrial IoT Platforms

MindSphere is the **cloud-based**, open **IoT operating** system from Siemens that connects your products, plants, systems, and machines, enabling you to harness the wealth of data generated by the Internet of Things (IoT) with advanced analytics.

The FIWARE platform provides a rather **simple yet powerful set of APIs** (Application Programming Interfaces) that ease the development of **Smart Applications** in multiple vertical sectors. The specifications of these APIs are **public and royalty-free**. Besides, an **open source reference implementation of each of the FIWARE components is publicly available** so that multiple FIWARE providers can emerge faster in the market with a low-cost proposition.



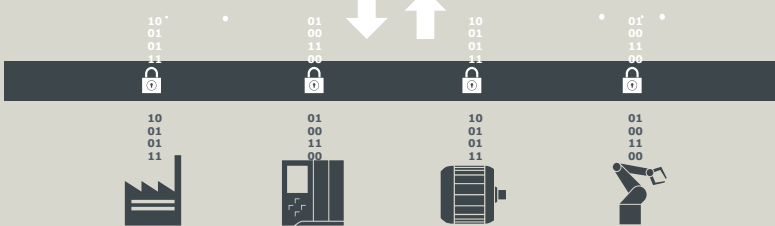
MindSphere

An open cloud platform for Industry Customers

MindApps



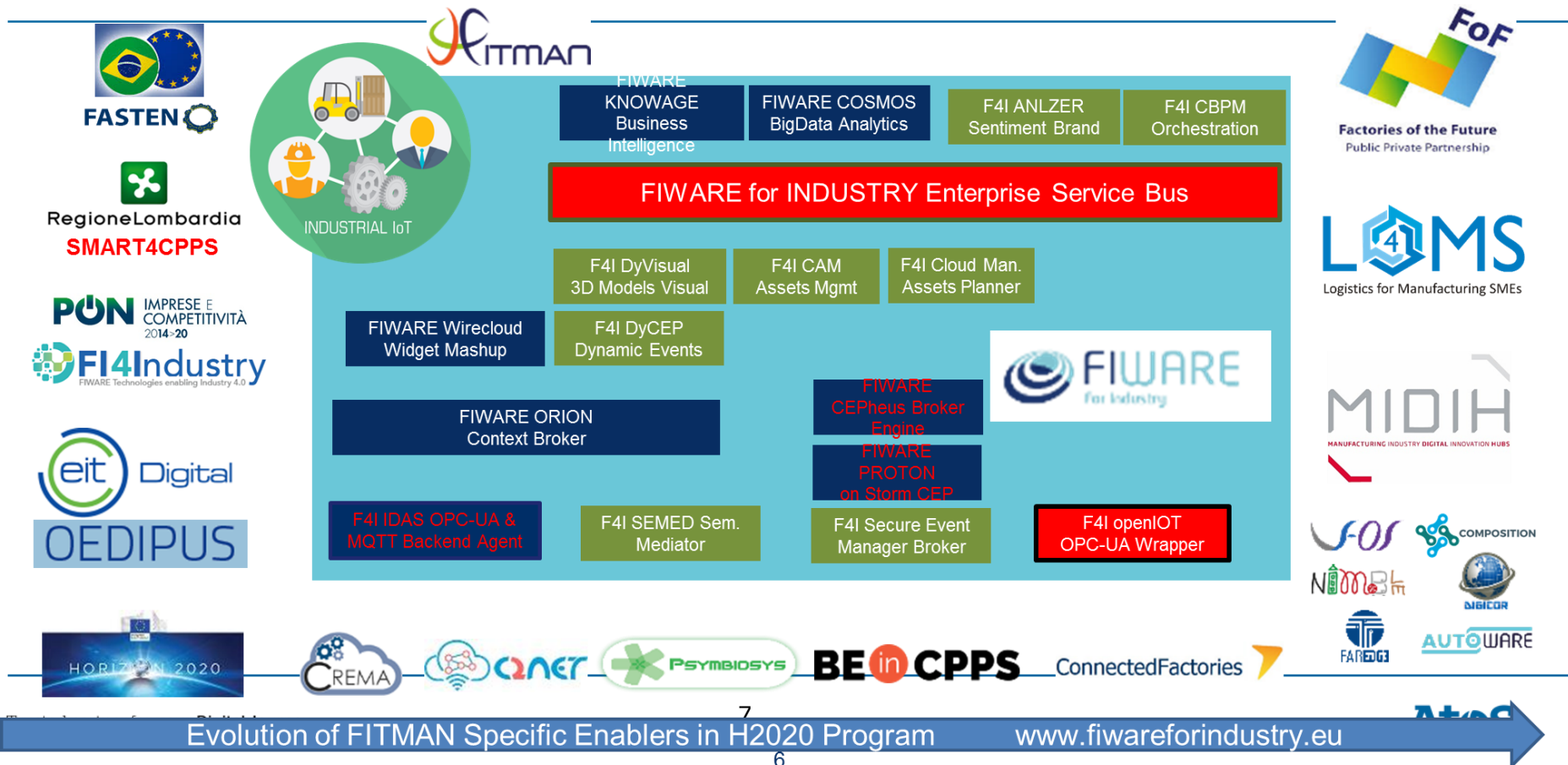
Optimization of asset performance, energy and resource consumption, maintenance, services ...



Optimization of plants and machines as well as energy and resources

- **Open standards** for connectivity of Siemens and third party products
- **Plug and play connection** of Siemens products
- **Cloud for industry** with open application interface for individual customer applications
- Transparent **pay-per-use pricing model**
- Opportunities for completely new **business models** (e.g. selling machine hours)

FIWARE for Industry



Conclusions

- ▶ There are many Industrial IoT Platforms. Not clear which one will prevail.
- ▶ In Manufacturing there are many applications of IoT data:
 - Condition monitoring.
 - Predictive Maintenance.
 - Zero defects.
 - ...
- ▶ Think big, start small !

Thanks

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The Atos logo, featuring the word "Atos" in a white, bold, sans-serif font. The letter 'o' is stylized with a circular cutout in the center.