



Starting in 2011, the European Union has ambitiously invested in Fiware, the Future of Internet PPP (Public Private Partnership) to create a sustainable Open Source Platform and stimulate the emergence of a community for the next digital age. This was facilitated by the close collaboration of 4 key ICT players (Orange, Telefonica, Engineering, and Atos).

Together with the support of the European Commission, they have developed a set of Generic enablers (GE) to address 7 cross-cutting topics like Data Context, IoT, Network Interfaces or Security. As a result, solutions for multiple industrial verticals can be more easily implemented by developers to build Smart Applications over Fiware.

In October 2016, the Fiware foundation, an independent entity, has been created to stimulate the adoption of open standards and to support the uptake of Fiware technologies in Europe helping the Digitising European Industry vision to become a very tangible reality.

**Concretely,** Data for Cities (D4C) is an illustration of Fiware benefits developed by Orange and uses Generic Enablers to showcase the access and management of Open Data for a city. The D4C platform is flexible enough to allow further implementation of city dashboards for the monitoring and the automation of the main services. Thanks to the beauty of open and generic solutions, it is, by design, ready to solve this generic issue for all the cities, with the same development.

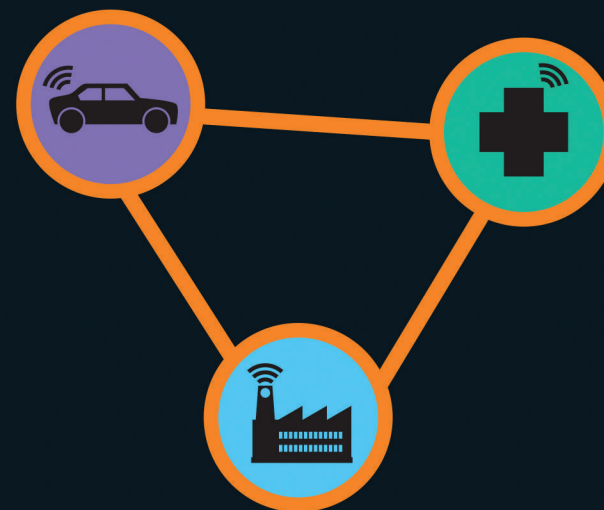
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# Rendez-vous

## Digitising Europe to take the lead



February, Wednesday 8th 2017 at 6 pm



Let's imagine a very dense area like Paris city centre in 2022, where everyone and everything (even cars and parking meters) report, consult, and communicate.

Customer experience is at the heart of the Orange strategy. Thanks to a powerful and realistic 3D modelling tool, we can put ourselves in the shoes of our customers, then visualise and optimise the customer experience using the connectivity provided by Orange's 5G network. To realise this experience, Orange combines, in its 5G technology tool, the use of high frequencies, smart antennas and their ability to deliver targeted capacity needs, with less energy. This enables Orange to provide a tailored and incomparable user experience for each customer everywhere.

Therefore, in the near future, even in one of the most crowded places in Paris (like "Châtelet-Les Halles"), Orange customers will enjoy an incomparable comfort of experience when using digital services thanks to our 5G technology.

**Concretely,** the 5G technology is in the process of being standardised under the 3GPP and its delivery is expected mid-2018. The first commercial products should be available around 2020.



## Cisco Asset Manager

**Smart industry:  
Connect the unconnected**

With Orange Business Services (OBS), Cisco displays a proof-of-concept solution which enables industrial plant managers to remotely manage their sites and equipment.

This flexible solution can help production line supervisors to reduce downtime and energy consumption. It can enable plant managers to improve operational efficiency. Supply chain managers can use Cisco Asset Manager (CAM) to monitor the movement and the integrity of goods. It can also help to ensure the safety and security of personnel and sites.

The Asset Management solution will use various secured connectivity technologies as part of Orange's Datavenue offer for IoT & Data, such as 3G/4G, LPWA and Wi-Fi, and integrated in plants by Orange network teams to connect the sensors, devices and cameras that are used to monitor the sites/equipment.

### Concretely,

beyond factories, Orange, together with Cisco, could deploy the CAM solution to monitor buildings, public places and mobile network sites.



## Manitowoc

**Datavenue applied to industrial  
IoT and data analytics**

Building on its expertise in the field of data and connected devices, Orange has developed Datavenue to help multinational and large national corporations seize the endless opportunities offered by the IoT revolution, whilst offering a high level of confidence and security.

Datavenue is an innovative IoT and data analytics modular offer built on four pillars enabling an end-to-end solution for companies and municipalities:

- select relevant objects and sources of data
- connect objects reliably with the most suitable and secure network
- manage data to improve efficiency and create enhanced services
- control key elements of companies' transformation projects

Thanks to Datavenue, Manitowoc, a construction company, can monitor cranes worldwide to prevent problems (limit service interruption or plan preventative maintenance), reduce maintenance costs and improve service quality.

### Concretely,

Datavenue was launched in France in 2015 and since 2016 on the international market. It can also be used on multiple verticals, such as transport, smart cities, healthcare and smart homes.



## Teep-Track

**Real-time performance  
tracking of industrial  
performance**

Orange Business Services (OBS) displays a proof-of-concept solution in conjunction with TEEPTRAK to monitor industrial performance in real-time by using a set of innovative and cost-effective tools.

The TEEPTRAK solutions are versatile stand-alone performance tracking systems that can be installed seamlessly and quickly in a wide range of situations and that are compatible with virtually all industrial equipment.

It allows customers to gather, visualise and export information from any of their production facilities.

TEEPTRAK relies on advanced algorithms, combined with the integration of services and the latest communication technologies from Orange to deliver meaningful, real-time information and to generate continuous improvement.

### Concretely,

the TEEPTRAK solutions could be deployed, together with Orange, in any industrial context.



## Orange Cyberdefense

**Taking on today's  
cybersecurity challenges.**

With the acceleration of companies' mobility, the adoption of multiple devices and increasingly demanding end-users, IT security has become very complex.

Orange Cyberdefense can help customers overcome these challenges with its portfolio of security solutions ranging from evaluating the level of risk, to developing tailor-made solutions to protect the assets of a company from internal and/or external potential threats. Orange is well-placed to detect potential security threats due to its expertise and dedicated resources.

Orange demonstrates the role of a hacker and launches a cyberattack on a fictive production line where an attacker disrupts the functioning of a factory while concealing this misbehaviour from the operator's monitors.

We will showcase the auditing and securing of key Industrial Control Systems network and components.

### Concretely,

Orange Cyberdefense makes available 400 consultants, eight security operations centres and 15 research and development facilities, to provide the knowledge and expertise to help customers meet their network security challenges, while enjoying the business benefits of increased mobility.