

FIWARE MARKET PLACE



Open APIs for Open Minds

We passionately believe in helping the **FIWARE community** to promote their business.

The Marketplace is a global one-stop shop that gives access to a wide range of Powered by FIWARE solutions and platforms, FIWARE-ready technologies, as well as related training, coaching, consultancy, integration and services.

Powered by FIWARE and **FIWARE-ready** labels help entrepreneurs to gain visibility and credibility, essential to building partnerships and gaining market traction.

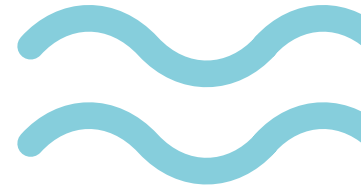
The Marketplace offers everyone in the **FIWARE Community** the platform to advertise offerings to their target audience.

WELCOME TO THE FIWARE ECOSYSTEM



What does FIWARE give you?

- **FIWARE is market-ready** open source software making the development of smart solutions faster, easier and cheaper.
- **FIWARE is driving key standards** for the development of IoT-enabled smart solutions.
- **FIWARE follows the best practices of open source communities** relying on the principles of meritocracy, openness and transparency.
- **FIWARE goes beyond traditional open source communities.** It supports acceleration programs around start-ups using the technology and the activities of organizations who bring local support.



What is a Smart Solution?

A Smart Solution gathers context information from many sources (IoT networks, systems, end users) and compiles it together, presenting a description of the context it is managing. Information evolves over time and is processed and analysed to implement the **intelligent behaviour** that powers a Smart Solution.

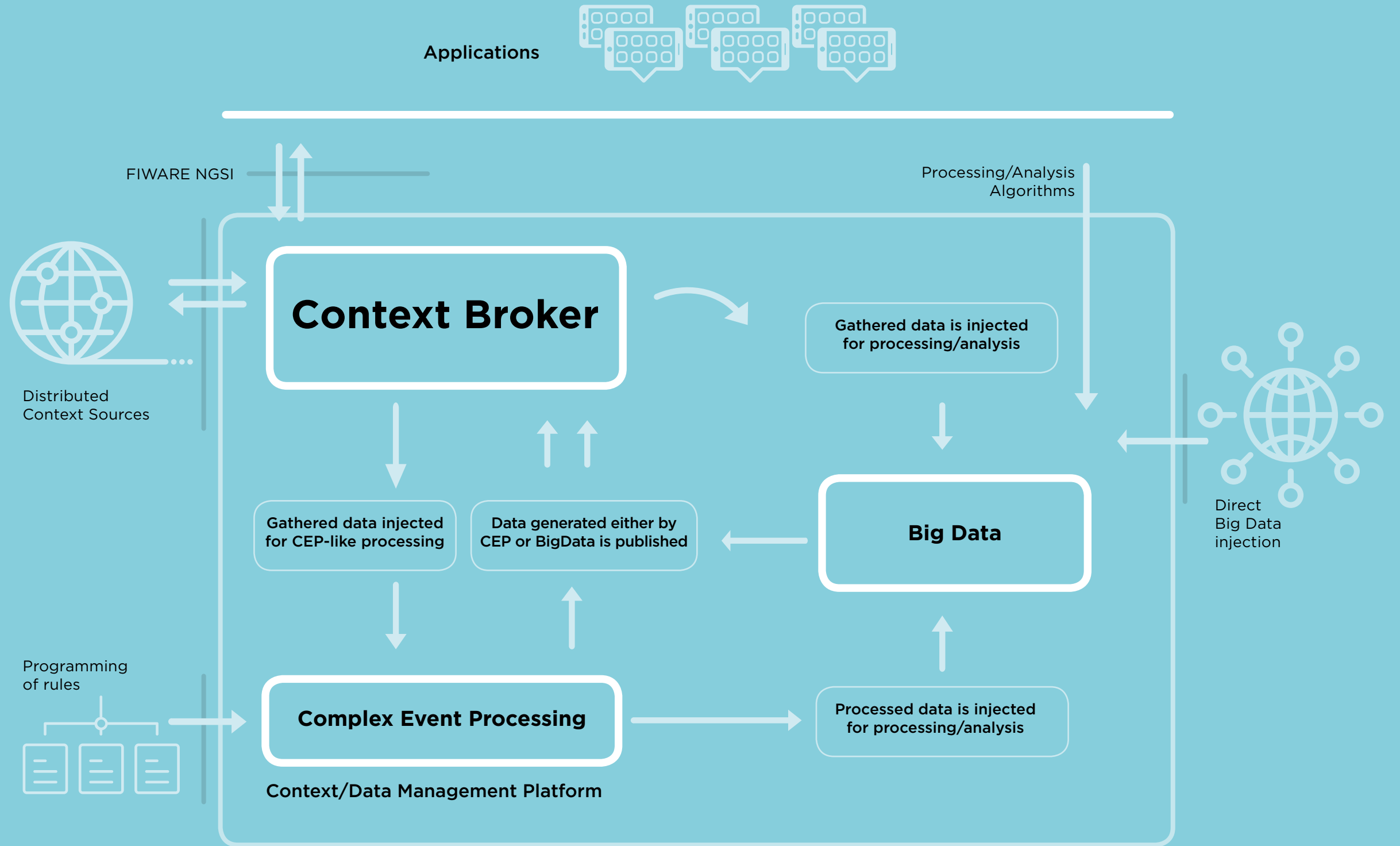
The existence of a **common standard API** for Context Information Management, combined with common Context Information Models, is crucial for the development of smart solutions. FIWARE solves this need with the FIWARE NGSI API, which is increasingly being adopted by multiple organizations as a de-facto standard for the creation of a **Digital Single Market**.

The **Context Broker** component is able to manage context information at a large scale. Additional FIWARE components integrate with it, facilitating the gathering of context information from different sources (e.g., IoT networks) and the analysis, processing or advanced visualization of context information.

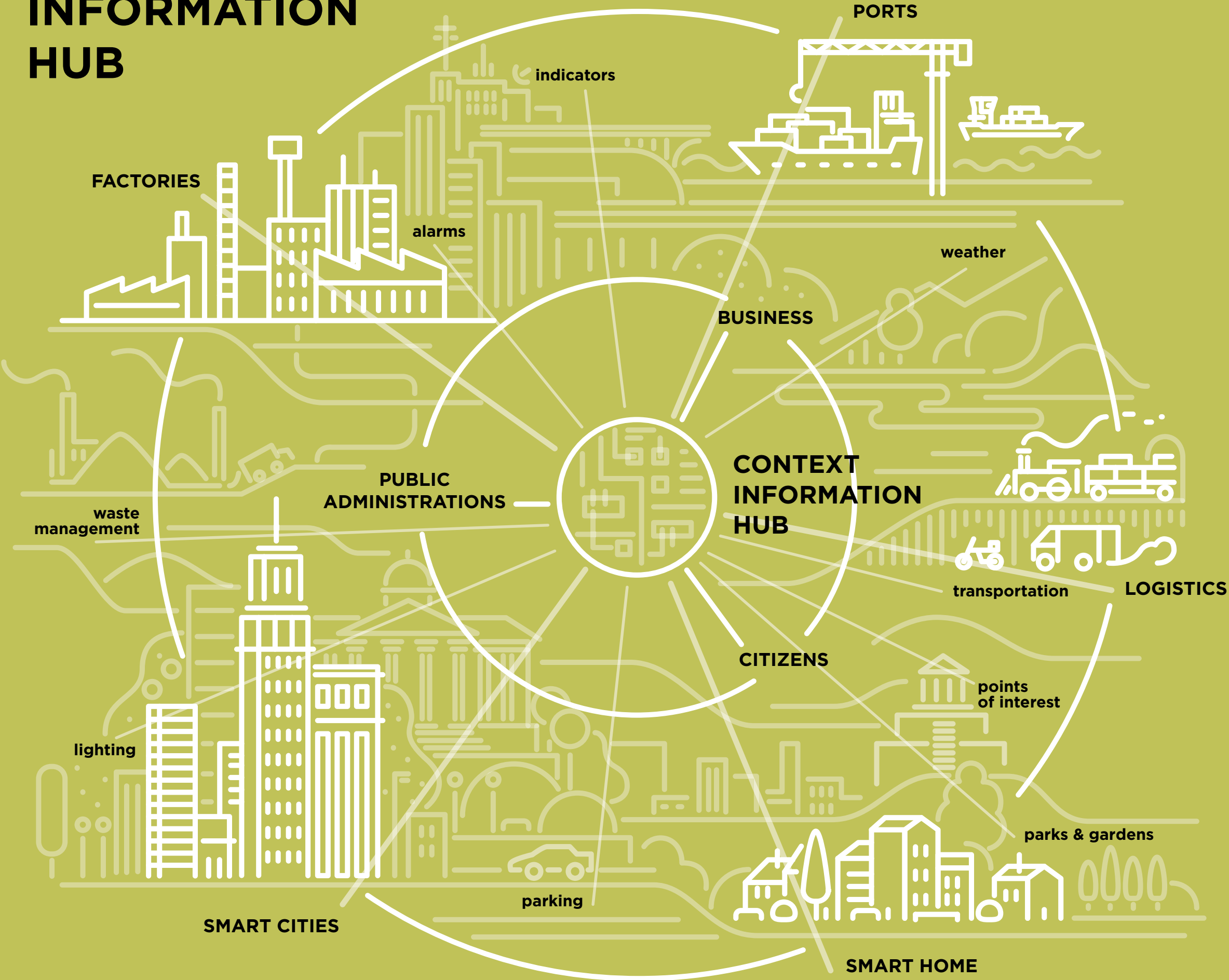
Context Broker can be used to build a widely distributed smart digital services infrastructure. Solutions for public administrations, businesses and individuals will be able to connect to this infrastructure in order to update, consume and share context information.



How a smart system works

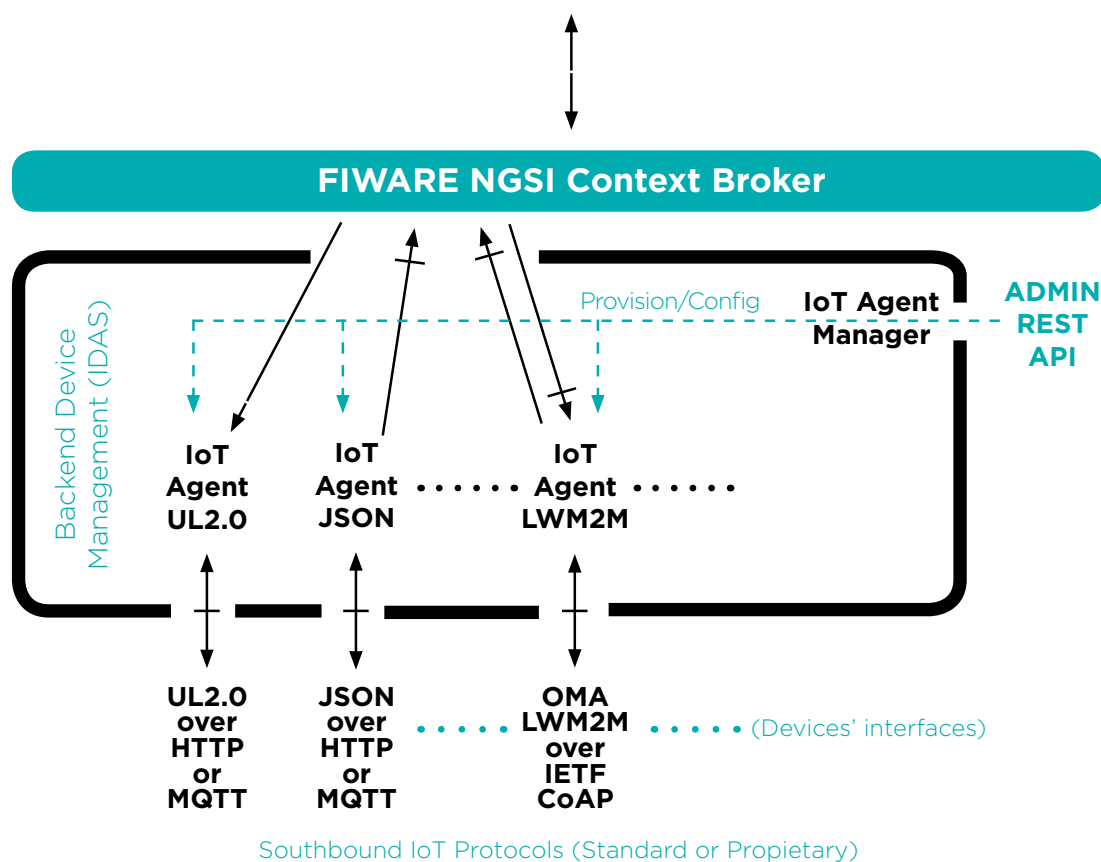


CONTEXT INFORMATION HUB



Connecting to the IoT has never been easier

OMA-NGSI REST API (Developers' interface)



FIWARE doesn't aim to create yet another IoT protocol but cope with the wide variety of IoT protocols that exist today and in the future.

FIWARE brings the IDAS IoT-Agent Framework component, which works as a bridge with underlying sensor networks. The context information management layer is supported through one or multiple federated FIWARE Context Broker components.

Currently, the IDAS FIWARE IoT-Agent Framework is providing IoT-Agents for:

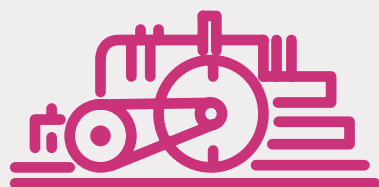
- Ultralight 2.0 over HTTP or MQTT
- JSON over HTTP or MQTT
- OMA-LWM2M over CoAP
- Sigfox Cloud
- OPC-UA

This framework enables an easy deployment and management of IoT-Agents which handle specific IoT protocols to receive data from sensor networks. They translate it into context information injected into the context information management layer. In addition, it provides template source code for the creation of new IoT-Agents.

THE FIWARE MARKETPLACE



Powered by FIWARE



Solutions

Smart Solutions rely on FIWARE standards to manage context information at a large scale. They use the FIWARE technologies to gather context information coming from different and highly distributed sources, such as end users, sensor networks and all kind of information systems including social networks, and to process it in order to perform smart actions.

Providers of Smart solutions powered by FIWARE will benefit from a sizeable digital single market of potential customers supporting FIWARE-compliant platforms, on top of which their solutions can be easily ported. Exploiting the full potential of FIWARE, they can also benefit from open innovative schemes and the future data economy.

Platforms

FIWARE platform service providers offer FIWARE as a Service on private and public clouds in which they are operating. Also, Platform Service Providers can deploy FIWARE platform instances on premises for their customers. Anyone can create a FIWARE instance on their own and in their premises. But it is also possible to choose a company that offers FIWARE platform services.

FIWARE Platform Service Providers will benefit from the increasing demand coming from solution providers and end customers, who wish to rely on a third party that deals with the operation and technical support of the FIWARE platform.



FIWARE-ready technologies

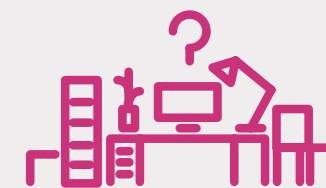
FIWARE-ready technology providers will benefit of their products being exposed to the large and ever growing base of Powered by FIWARE solution developers.

FIWARE-ready IoT devices

FIWARE-ready IoT devices come with easy-to-install drivers and instructions, accessible to end applications using the FIWARE NGSI standard.

FIWARE-ready software enablers

FIWARE-ready software enablers are base platform technologies, which can easily be integrated with FIWARE. This extends the basic capabilities of the platform with advanced added-value features (e.g., location within buildings, representation of context information in maps, biometrics for access control...) Their combination with FIWARE allows them to build more sophisticated applications.



FIWARE services

Our Marketplace helps you to find different organizations who are offering a set of technical services based on FIWARE technologies.

Training and coaching

Online training material is available on the FIWARE Academy but many partners are offering tailored training and coaching services to those organizations who are looking for dedicated sessions.

Consultancy and integration services

Finding the right experts offering consultancy, integration or technical support services is crucial in many projects. The FIWARE marketplace is helping to serve this need.





An implementation-driven open standard




FIWARE is **providing the de-facto standard for context information management and the library of tools (generic enablers)** around that standard that is needed to make development of Smart Solutions faster, easier and cheaper.

An “open by design” architecture enables the plug & play integration of technologies from third parties, enriching the set of features provided by the platform and making it even more attractive. This will **drive innovation and bring a competitive advantage to the market.**

What we provide

- **A public and royalty-free context information management API specification: the FIWARE NGSI API.** The evolution of the specs follows an implementation-driven approach based on feedback from a wide range of developers creating smart solutions powered by FIWARE.
- **An open source platform that facilitates the development of smart solutions:** building on the Context Broker as the core component, implementing the FIWARE NGSI API and managing context information at large scale. The FIWARE platform comprises a rich library of components helping to gather, process, analyse and visualize context information.

Organizations leveraging on our work

- **GSMA** has produced a Reference Architecture for IoT-enabled BigData Ecosystem solutions where the FIWARE NGSI API is recommended.
 - **TM Forum** has also agreed to adopt FIWARE NGSI as the basis for providing right-time access to context information which can transform cities into enablers of an economy of data together with TM Forum Business APIs
 - The FIWARE Context Broker technology is in the process of becoming a **CEF (Connecting Europe Facility)** building block. The CEF program supports the deployment of Digital Service Infrastructures enabling a Digital Single Market of services in the EU.
 - **ETSI** has launched an ISG (Industry Specifications Group) on cross-cutting Context Information Management (CIM) standards which identify OMA NGSI and FIWARE NGSI as starting points for the API specs (abstract and restful binding). Not restricted to Smart Cities, the new ISG aims to deliver CIM standards that can work across domains.
 - **OASC** (Open and Agile Smart Cities) comprises more than 100 cities in 22 countries which have decided to adopt FIWARE NGSI as the basic API for right-time access to contextual data in cities.
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