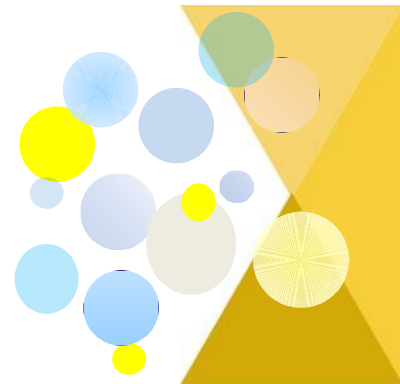


# FiWARE : An IoT Platform



# Introduction to FIWARE

- FIWARE (Future Internet WARE) :
  - designed to be the Core Platform of the Future Internet
  - Mainly Open Source
  - First developed during the Future Internet Public-Private Partnership (FI-PPP) between EU, Orange, Telefonica Engineering and AtoS).
  - Business Strategy focused on three main apps domains
    - Smart Cities
    - Agrifood
    - Industry 4.0

# Introduction to FIWARE

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- Technicals Ressources :
  - Fiware Catalogue
  - Fiware Lab
  - Fiware Academy
- Support Comitees :
  - Fiware Accelerate
  - Fiware Mundus
  - Fiware iHubs

# Introduction to FIWARE

- FIWARE Platform is composed of :
  - **Generic Enablers (GE) :**
    - offer reusable and commonly shared functions for a **multilicity of Usage Areas.**
    - « must be » open Source
    - Generally developped in European Structuring Projects.
  - **Domain-specific Common Enablers (« Specific Enablers »)**
    - Specific to a **limited set of Usage Areas.**
    - « may be » Open Source.
    - Generally developped in UseCase Project.

# Introduction to FIWARE

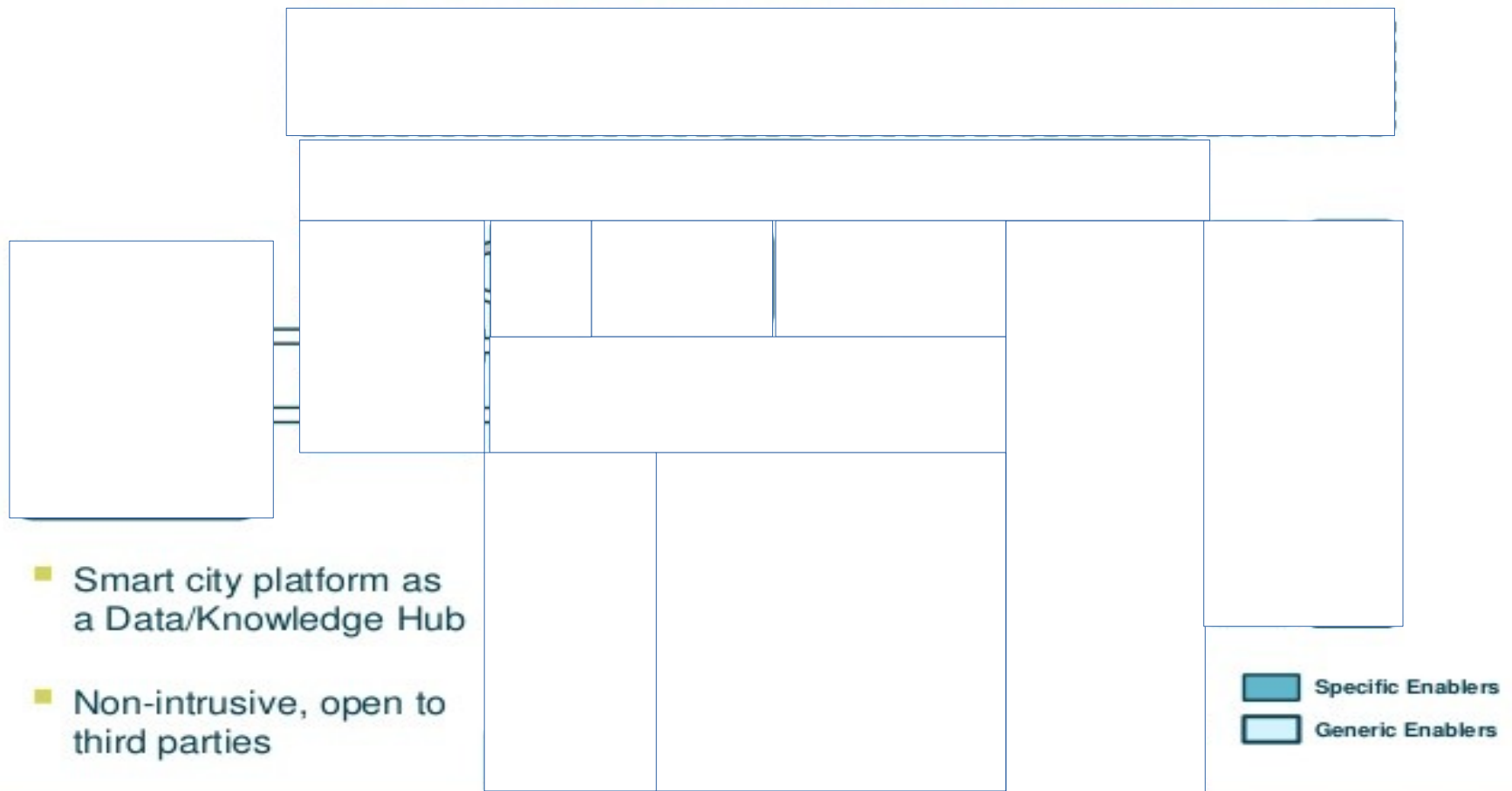
- Core Platform GE infrastructure :
  - Cloud Hosting
  - Data/Context Management
  - Applications/Services Ecosystem and Delivery Framework
  - Internet of Things (IoT) Services Enablement
  - Interface to Networks and Devices (I2ND)
  - Security
  - Advanced WebUI

# Introduction to FIWARE

- Next Generation Services Interfaces (NGSI)
  - Specification produced by the Open Mobile Alliance (OMA)
  - Presented as the « SNMP for the IoT »
  - RESTful API via HTTP
  - Define context management and communications between FIWARE enablers.
  - There is two versions used in current projects : NGSI-9 and NGSI-10
  - Three main interactions Types :
    - One-Time queries for context Information
    - Subscriptions for context information Update
    - Unsolicited updates

# Introduction to FIWARE

## Target Smart City platform



# Introduction to FIWARE

