

Smart Buildings, Smart Customers: Smart Office building in Madrid

FINESCE Final Event "Utility 4.0"







The Madrid trial building













- Objective: experimentation of innovative energy services for office buildings based on FIWARE technology
- Building assets integrated in the trial:
 - BMS with remote operation (Building Control Centre)
 - Energy generation and storage
 - Wireless metering & monitoring network

Trial architecture











Orion

Cosmos

Context Awareness
Platform

Identity Management

- Keyrock

Generic Enablers

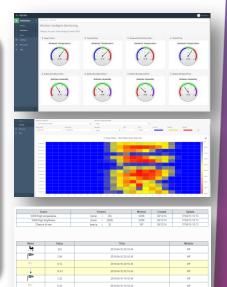


Temporal Consistency

Scene Manager

Finesce API Mediator

Specific Enablers



3rd Party Apps

Trial systems

Trial results and business impact

- Main result: smart office building energy services enhanced through FIWARE foundations
 - Demand management and optimization
 - Integrated energy generation and storage management
 - Auditing, monitoring and verification services
- Specific Enablers: reusable modules for energy services development
- Trial API: office building data for experimentation







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Results addressing evolving energy services market

- Increasing integrated energy generation and storage
- Changing regulatory framework
- End users as active stakeholders: enabling interaction
- Testing **FIWARE** as a technology enabler

José Luis Burón, 15.09.2015, Berlin



Thank you for your attention!