



# Your Open DAta

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Espacios de Datos en entornos federados

VIII ASAMBLEA GENERAL DE PLANETIC - 24 de Septiembre 2021

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Co-financed by the Connecting Europe  
Facility of the European Union

# GING

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- New Internet Generation Group
  - Research group at UPM
- Videoconferencing, eLearning
- FIWARE
  - Big Data, Data spaces, Open Data, Blockchain
- SSI and Federated Identity
  - <https://keyrock-fiware.github.io>
- Research projects
  - Collaboration with companies
  - Public founding



<https://ging.github.io>

# CEF Telecom

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- Connecting Europe Facility
  - Cross-border interaction
    - public administrations
    - businesses
    - and citizens
  - Digital service infrastructures (DSIs) deployment
- Building Blocks
  - eSignature, eID, EBSI, Context Broker, Big Data...
  - Public Open Data - [data.europa.eu](http://data.europa.eu)



# YODA (Your Open DAta)

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- Customizable service for European citizens
  - Traffic, weather, accessibility, mobility...
- Enrich European Data Portal
  - UPM Smart Campus
  - AEMET
  - Malaga Smart City
  - Santander Smart City

**YODA**   
<https://yoda.dit.upm.es>

# Consortium

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UNIVERSIDAD  
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Supported by:

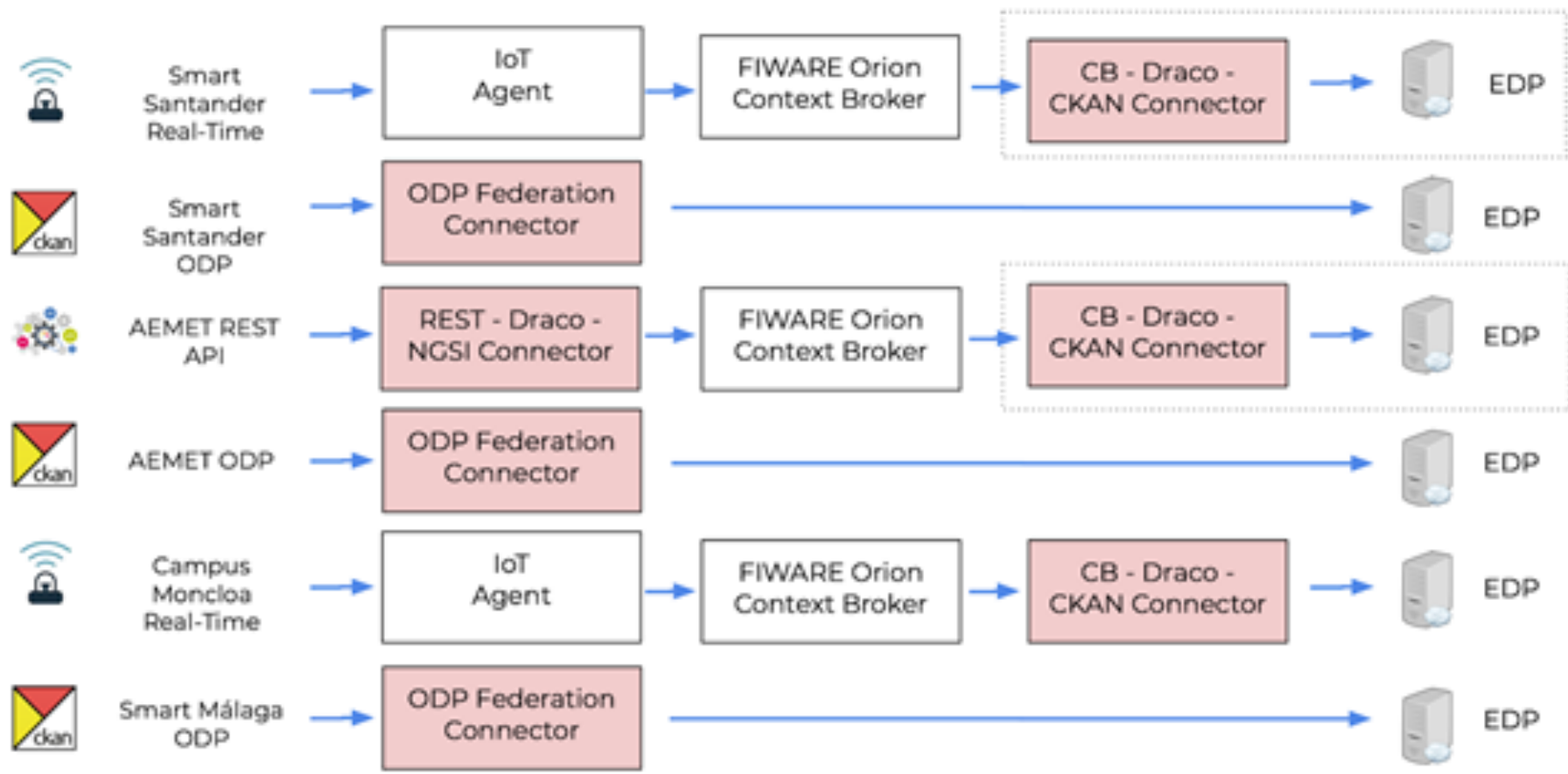


# Challenges

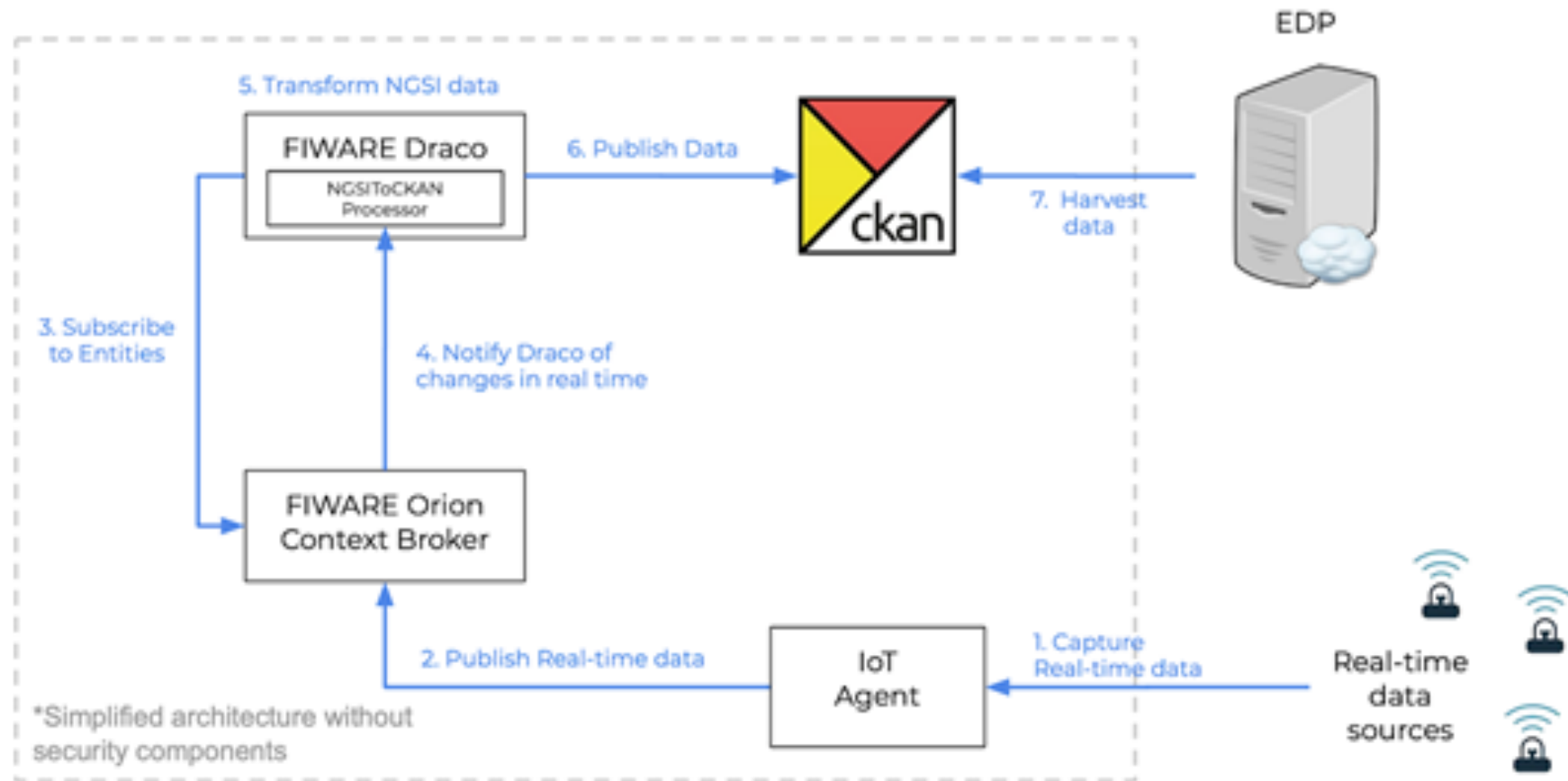
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- Heterogenous data sources
  - FIWARE connectors + NGSI + Smart Data Models
- Real time
  - Context Broker + Machine Learning
- Data privacy and sovereignty
  - IdM + Access Control + Data Usage Control

# Data publication in the EDP

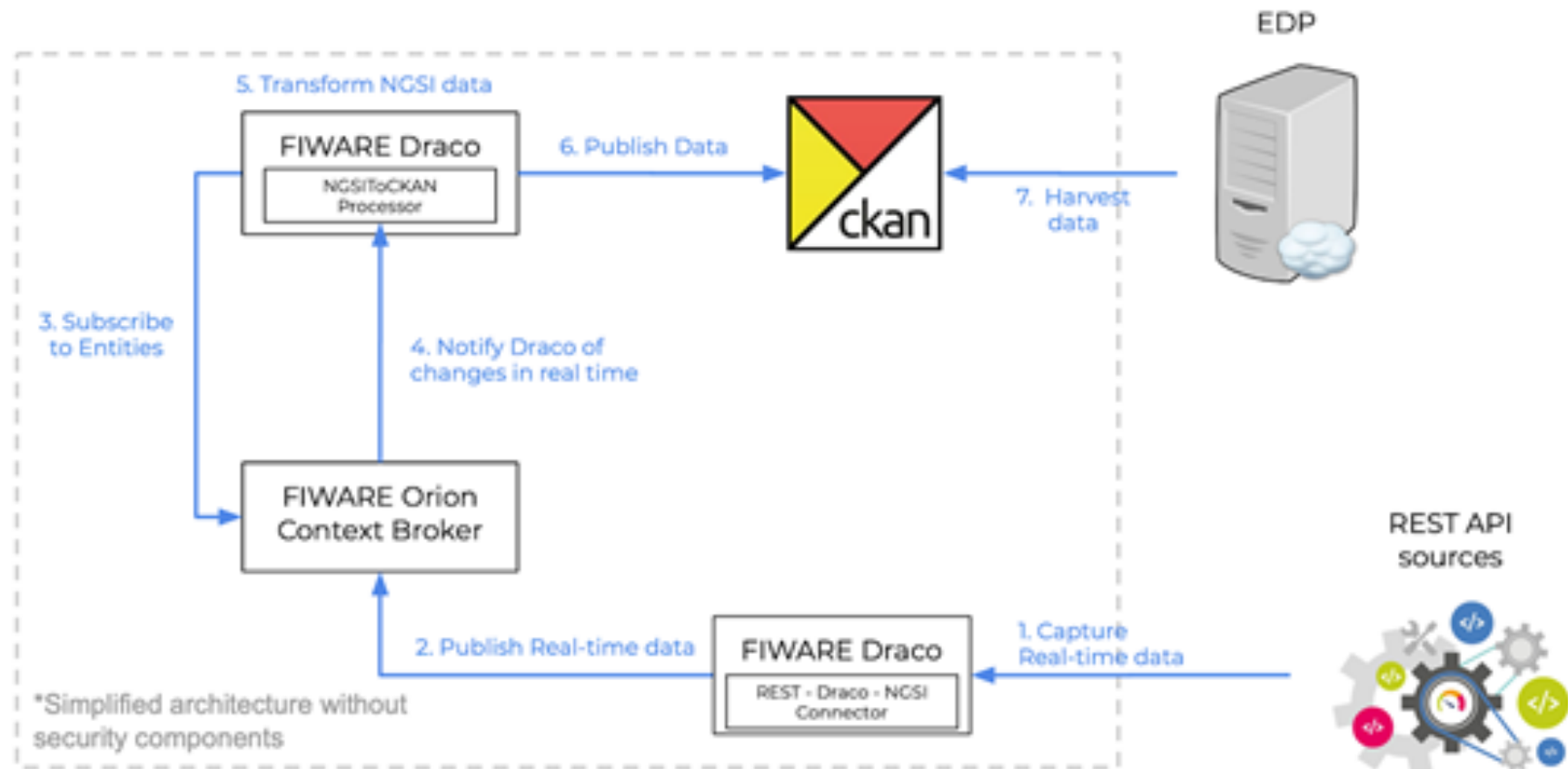


# Data ingestion from real-time data sources

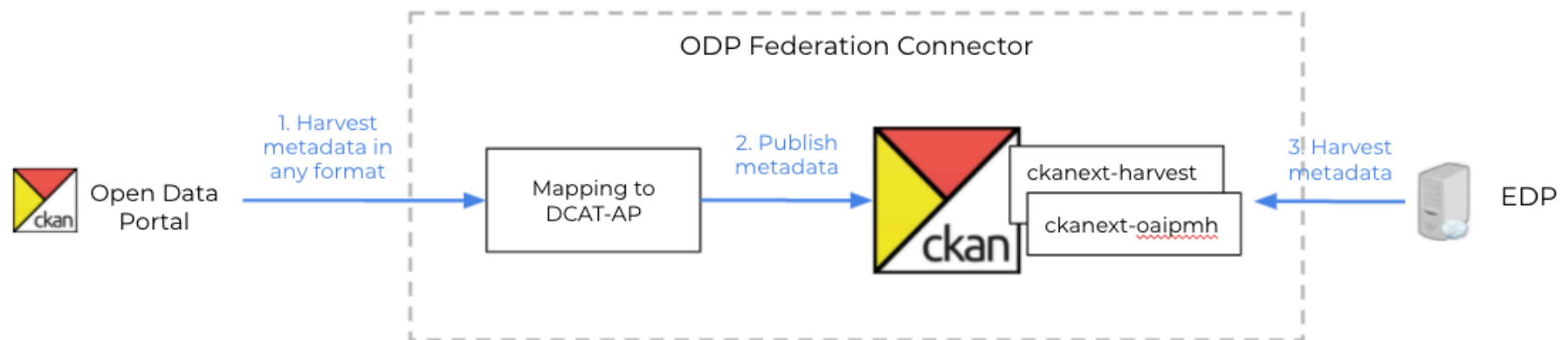




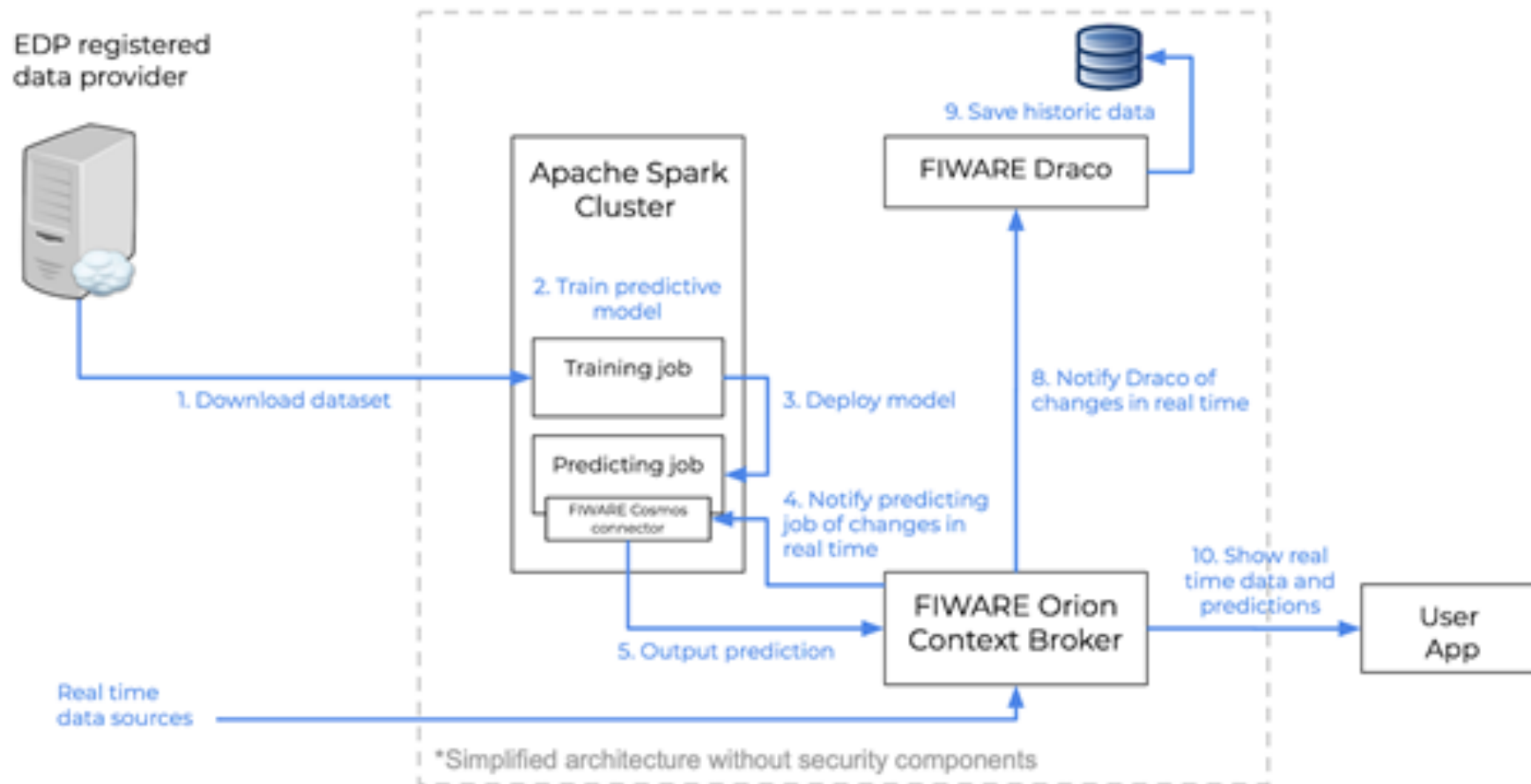
# Data ingestion from REST data sources



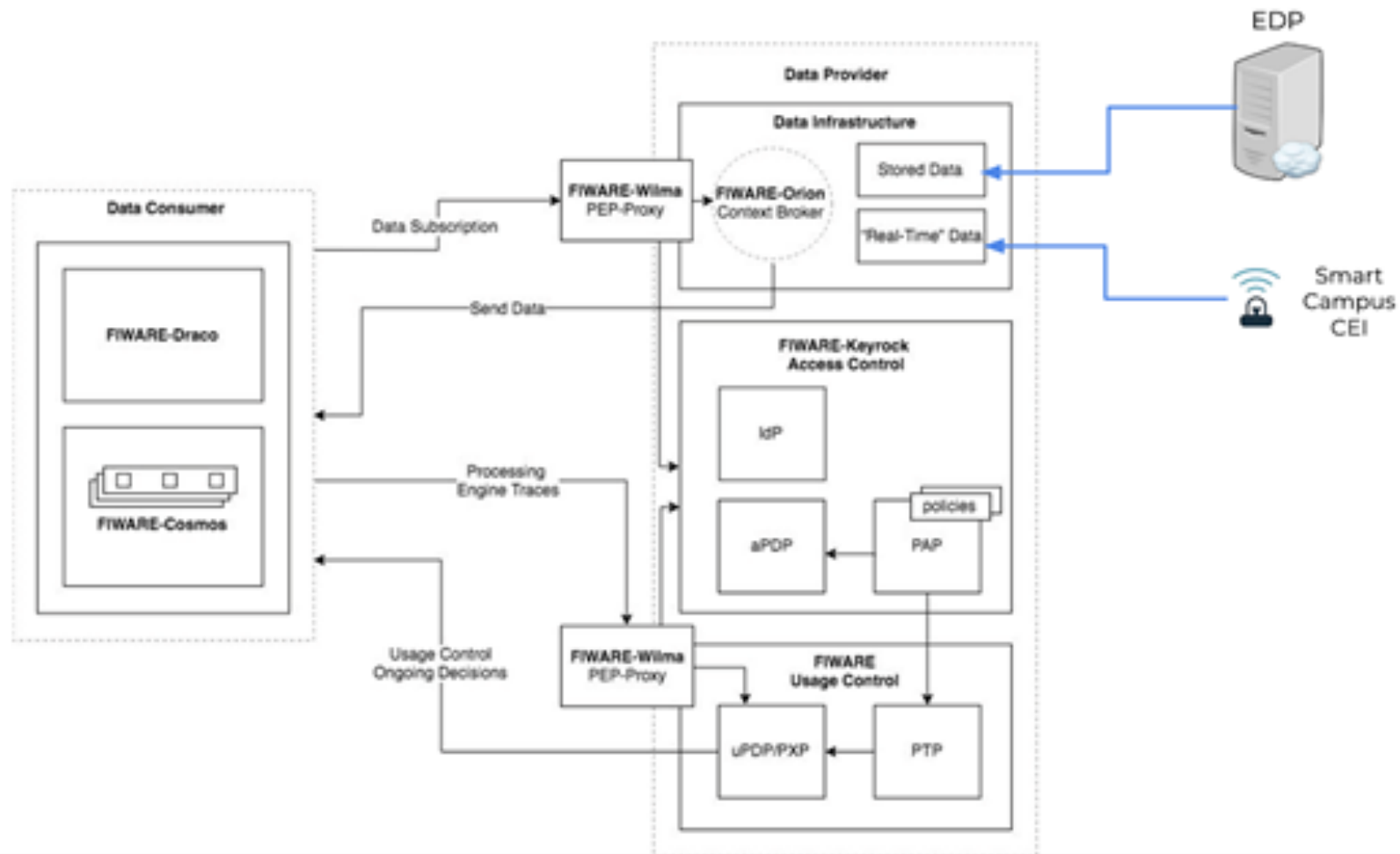
# Open Data Portals sources



# Machine learning module



# Data usage control architecture



# Main results

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- Standardized framework for data spaces
  - Connectors for data ingestion from heterogeneous sources
  - Data modelling
  - Data provisioning and storing (data lakes)
- Compatible with FIWARE and NGSI
- Ready for Machine Learning and data processing
- Compatible with Open Data
  - DCAT-AP
  - <https://data.europa.eu>
  - National open data portals



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