

# Fluid Machine Learning lifecycle with FIWARE

Benoit Orihuela – i4Trust Training Webinar



# A TYPICAL ML LIFECYCLE

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- **A Data Scientist**
  - Get and clean up data
  - Prepare and train a ML model
- **An IT person**
  - Package and deploy the ML model
- **An end user**
  - Discover the available ML models (with respect to privacy)
  - Ask to use one or more of them (and optionally pay for it)
  - Get real time data (predictions, outliers,...) from a ML model



# WHAT DO WE AIM AT?

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**Bridge the gap between data scientists and operations (MLOps)**



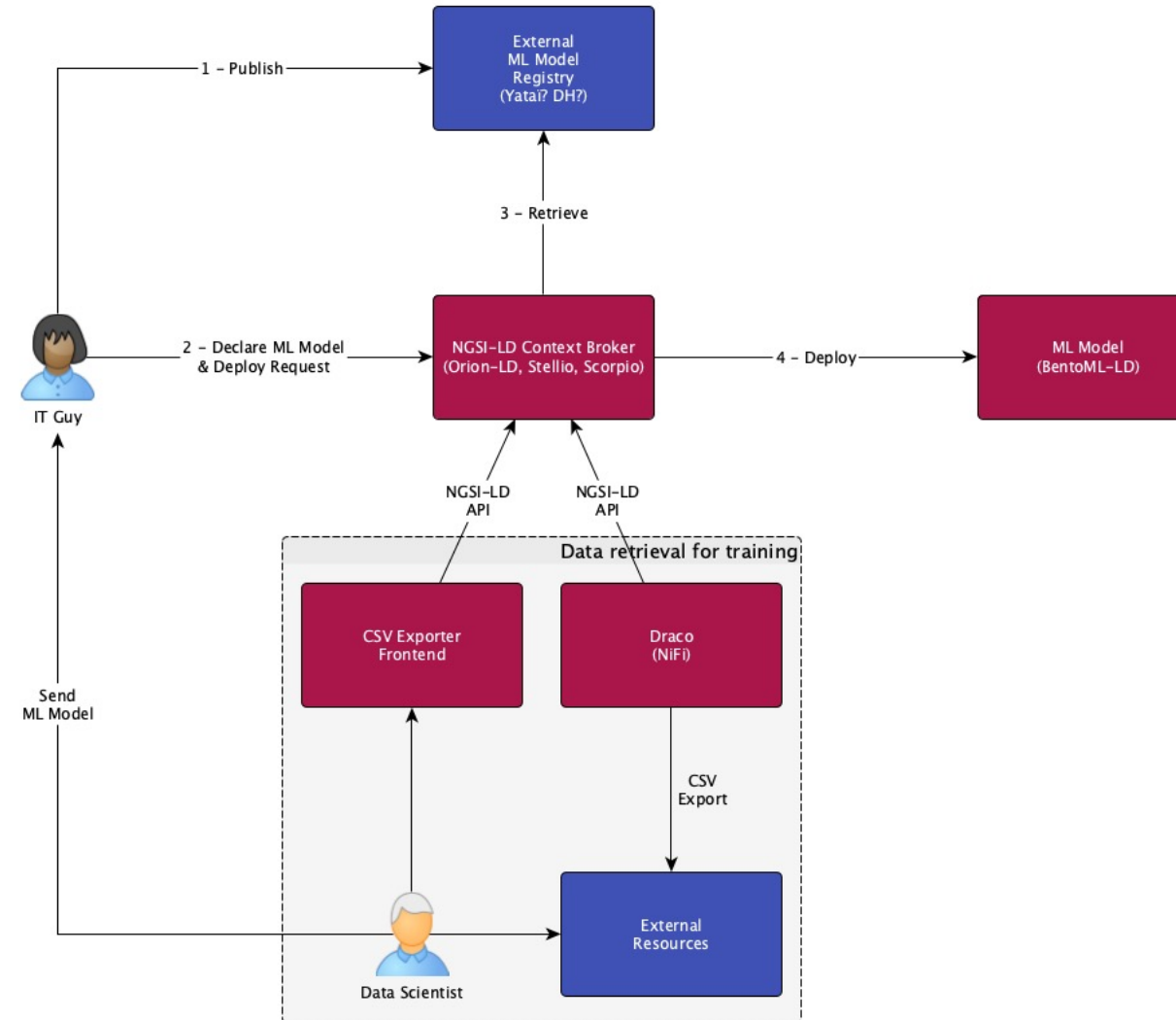
**Develop the Machine Learning as a Service (MLaaS) model**



**And also:**

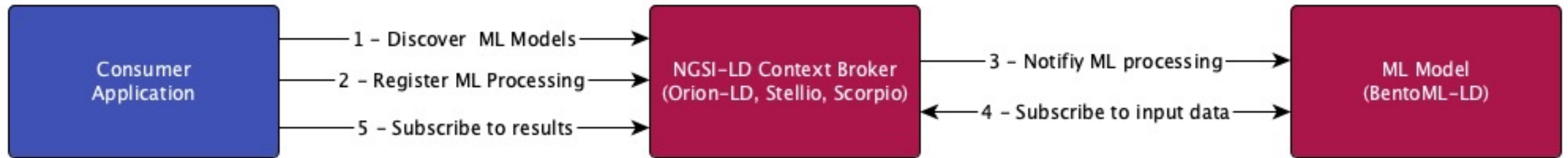
**More and more use cases requiring ML / AI activities  
FIWARE needs to offer a rich variety of tools**

# THE TRAINING AND PREPARATION PHASE

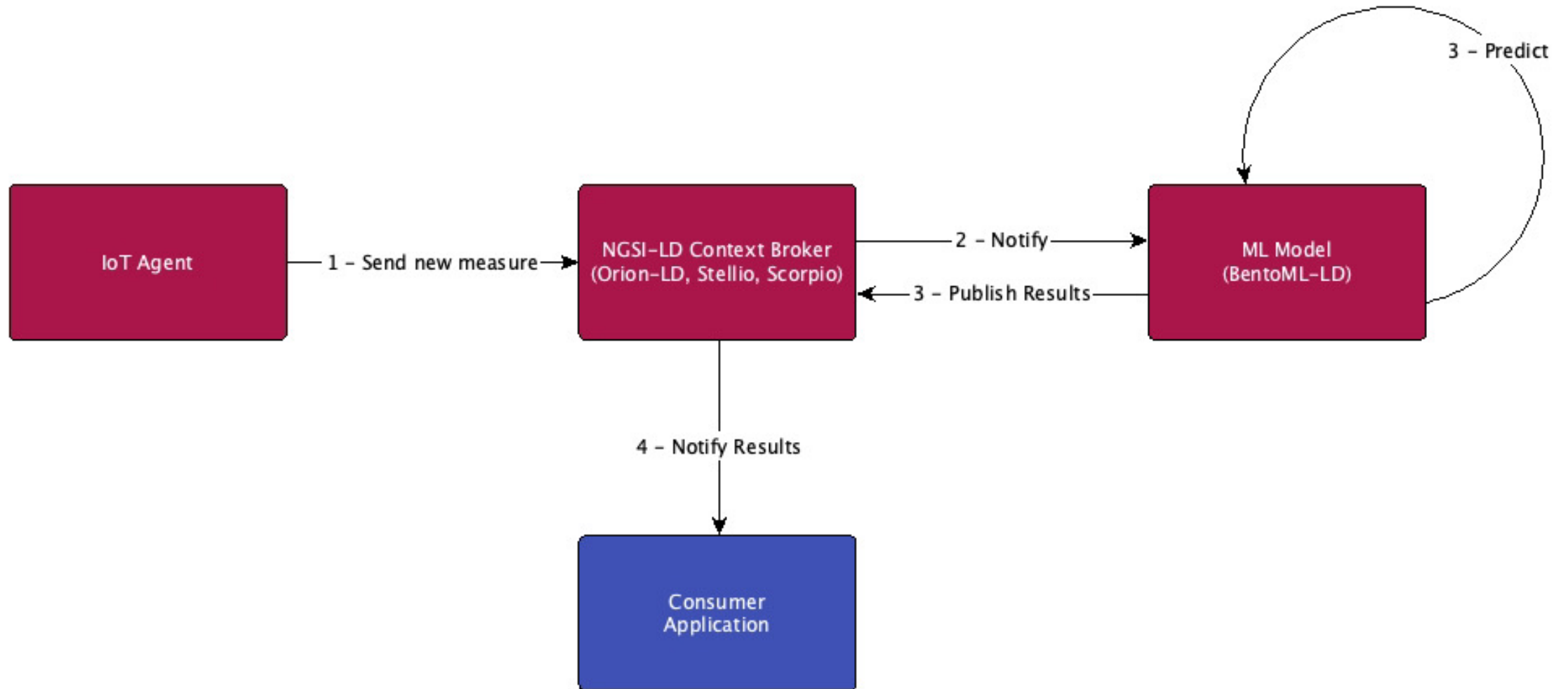


# THE DISCOVERY AND REGISTRATION PHASE

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# THE PREDICTION PHASE



# DEMONSTRATIONS

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- **Demonstration #1 - End to end demonstration of a ML model development, deployment and use**
  - Use of Jupyter notebook as interface
  - Applied to a simplistic water flow calculation
- **Demonstration #2 – Events generation from video stream analysis**
  - Realtime extraction of context information from a video stream



# Thank You!



**Benoit ORIHUELA**

Lead Architect

Tel: +33 687427107

E.mail: [benoit.orihuela@egm.io](mailto:benoit.orihuela@egm.io)



[www.egm.io](http://www.egm.io)

