



Seacon and IntelliFood applying FIWARE technologies

Intelligent Process Monitoring and Control for perishable foods



Agenda

- Seacon and business partner
- IntelliFood architecture
- Screenshot designs

Professional - Seacon

- Software development, consulting
- Data management, DW + MIS, Business intelligence
- Business Solutions
- IT and Information Security

R&D

- National programs
- H2020 and SME Instrumental
- Finish program

ISO qualification

- ISO 9001, ISO 27001

Products - Seacon

- SeaLog - Seacon Log Analysis/Digital Tracking
- SFA - Seacon File Audit
- SARM - Seacon Access Rights Monitoring
- SeaFleet - Seacon Vehicle Fleet Handling
- Virgis – Map-based Business Analysis

Projects

- SeaERA – Energy rationalization
- SeaForest – Forest protection
- CANLog – CANbus Logalyser/Intelligent fleet tracking

Clustering

- ICT cluster - Innoskart

Professional - HuBakers

- Trading food raw materials/commodities and mixes
- Purchasing raw materials from foreign partners
- Manufacturing complex mixes
- Delivering the raw materials and semi-finished products
- Distributing raw materials for food industry (bakery mixes, vegetable fats, fruit fillings)

Technology partner

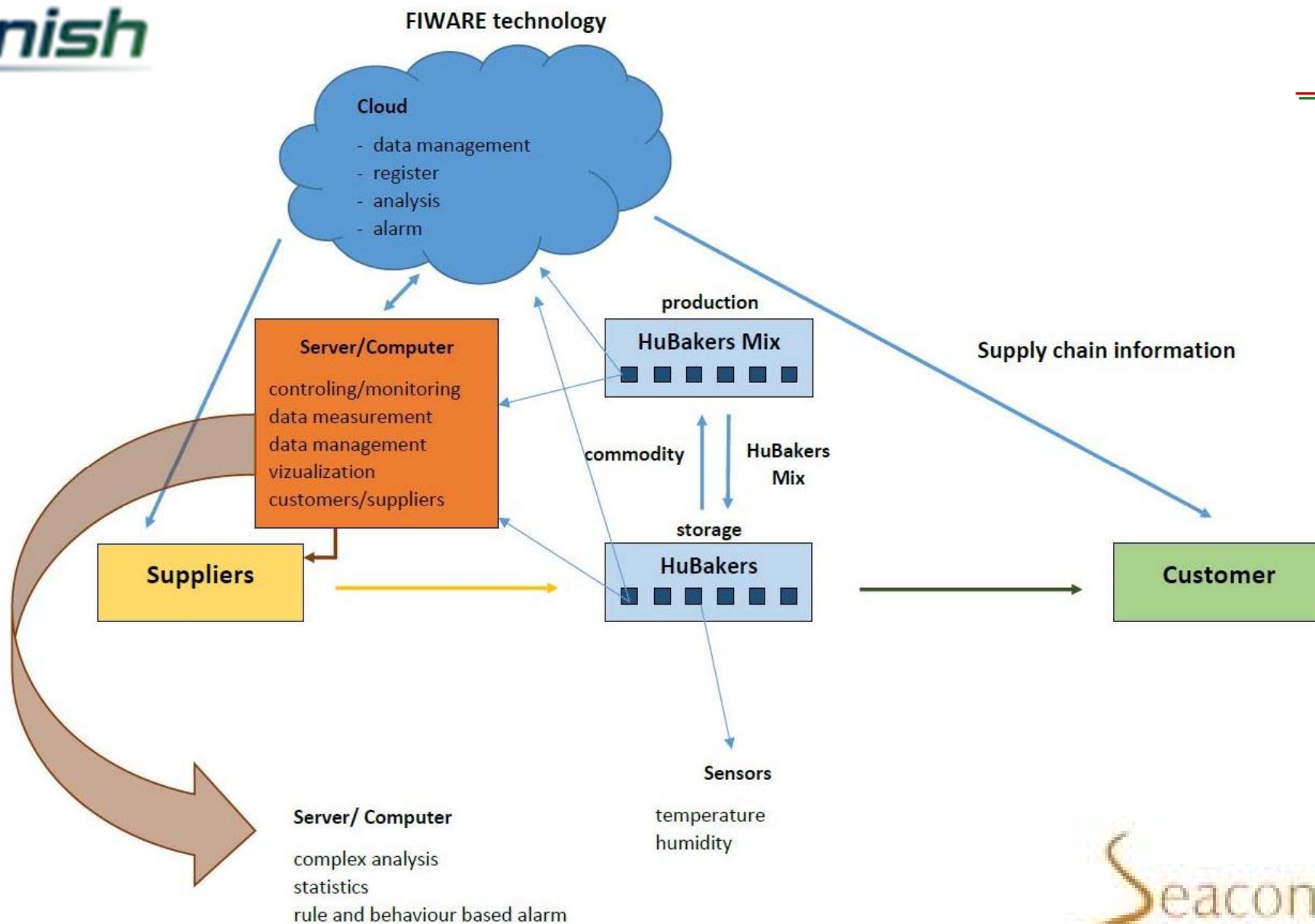
- Unicom

Objectives of the project

- applying intelligence
- providing controlled/monitored storage/processing for commodities/mixes/products through objective measures
- identification, traceability
- reduce the environmental impact of perishable supply chains

Objectives for business area

- increasing competitiveness for the business partner
- extending the solution for the supplier and customer (producing, delivery)
- applying the appropriate solution to provide services for other areas of food industry and for other industries



Data

Producing Manufacturing

Storage

Controlling

Monitoring Alarming

Humidity

Temperature

Solution

Data

- Collect
- Transform
- Filter
- Store and archive

Events

- Processing data
- Check threshold limit
- Generate warning
- Send via sms, email, UI, ...
- Store and archive

User interface

- Online data monitoring
- Reporting
- Analyse data

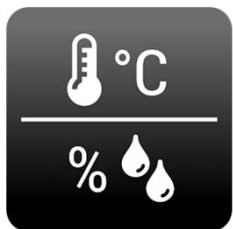
Target



- Reducing loss
- Quality assurance
- Traceability
- Identification
- Storage control
- Manufacturing control
- Mix classification
- Delivery control
- Fast reaction
- Problem prevention
- Evidence preservation

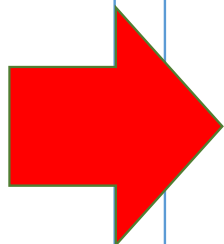
Finish

Sensor data



Environment,
activity, location,
time

unicomp



FIWARE

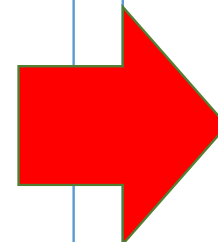
Complex Event Processing



Orion Context Broker



MongoDB (Archive data)



IntelliFood



Real time dashboard

SpagoBI reporting

User interface -
WireCloud

WCF / Rest Service

OLAP

Database

Seaconeurope



Thank You

