

## Odin Solutions

## Spin-off of the University of Murcia (Spain) with more of 10 years of experience on the design and development of monitoring and control products and specialises R\&D fields of Internet of Things, Security and Data Analytics



## Odin Solutions S.L.

Spin-off leveraging on loT technology and different enablers that connect infrastructures:

- Wireless sensors networks and loT gateways based on network technologies
- SCADA web system for monitoring and actuation over sensors with an editor for defining interactions
- FIWARE-based platforms for smart city cases: energy efficiency, parking control, garden irrigation..


## Concept

## Goals



Provide descriptive tool:
1.Organise storage
2. Organise trips
3. Detect quality loss

## Needs

1.Data management, storage and access
2. Access to HPC for

Machine Learning

## Work with EOSC DIH

1. HPC Computing: Deep Hybrid Data Cloud - ARIMA, LSTM

- Deepas API




2. ElasticSearch

|  | NoElastic Elastic Improvement (\%) |  |  |
| :--- | ---: | :---: | :---: | :---: |
| Product's ranking | 1,107 | 0,022 | 98 |
| Product's ranking | 1,03 | 0,057 | 94 |
| Groups of product's ranking | 1,493 | 2,47 | -65 |
| Groups of product's ranking | 1,55 | 4,578 | -195 |
| Trip durations | 3,444 | 1,697 | 51 |
| Seasonality of product's demand | 1,163 | 0,051 | 96 |
| Geographic representation | 0,978 | 0,062 | 94 |

Table of retrieval time for 1 month data

## Impact of the pilot

- A working prototype of a dashboard that is focused on the analysis of cold chain logistics data and that is connected to state-of-the-art technologies http://gauss.inf.um.es:8080/bigcoldtrucks/

- Discovery of very useful tools that can be used in other cases that we are working on.


