

# 1 LIS DATA SOLUTIONS

1.1 LIS DATA SOLUTIONS

1.2 Where are we

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# Who we are



Consultant company, specialized on AI and future oriented data analysis

#### ARTIFICIAL INTELLIGENCE AND BIG DATA

### Industry & Supply Chain 4.0



#### Who are we?

We are a consultant company, which is focused on Al and extended data analysis. We support companies on their road through digitalisation and grow process to reach industry 4.0 standards.

We create holistic solutions to optimze processes inside supply chain under concideration of the most future oriented technologies in the market, to help companies to decide on the basis of data anylsis.



### What do we do?

We execute tailored projects for our customers, which are oriented on their needs and maturity level of the IT system.

We cover the whole live cycle of data: From the generation of information and their storage to application of challenging data-science-techniques, which allow our customers, to obtain, the whole value, which their data can provide and to analyis and visualize them in an intuitive environment.



### Why?

Our projects have three targets: to achieve growth, to increase the productivity and to lower the costs.

Comapnies, which use a data driven approach, can use the information and make them to the most important element.

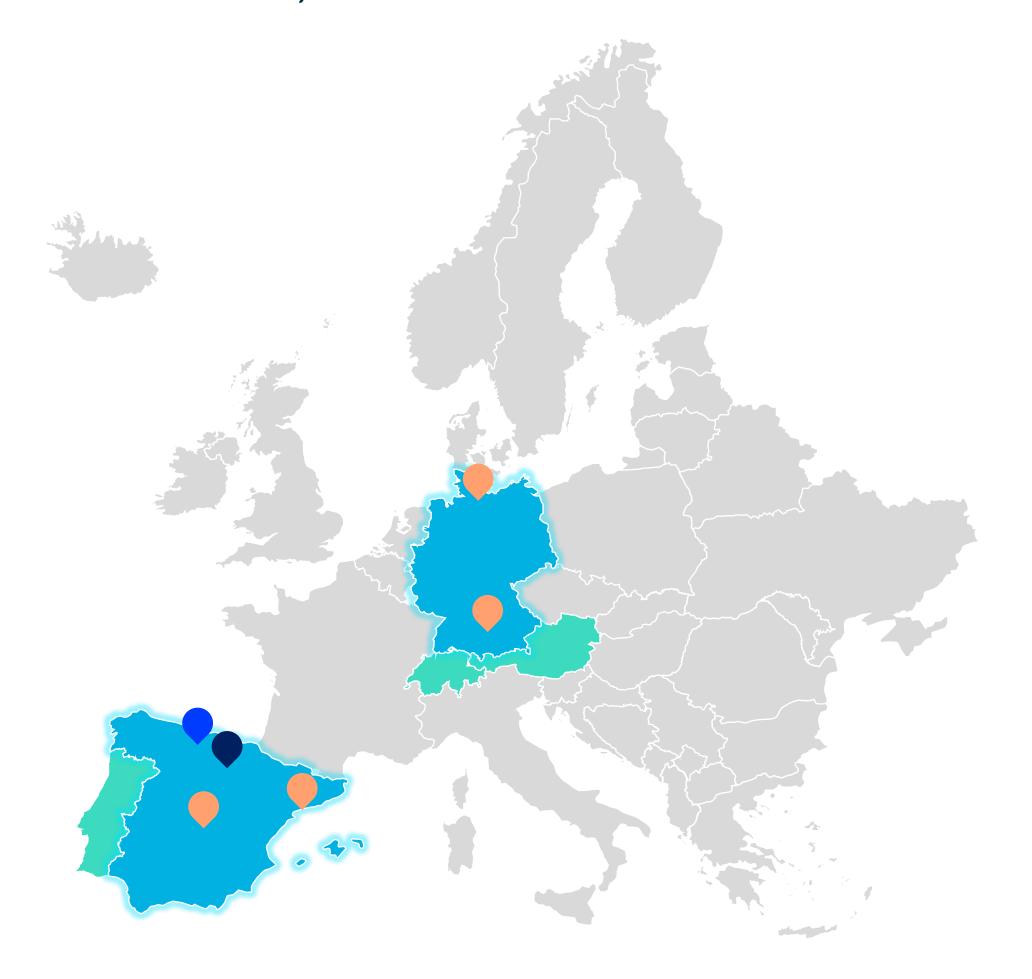
They can investigate and organize their data, to optimze their performance for their customers and consumers.

For this reason we accompany our customers in a **strong** and partner relationship.

## Where are we located

data solutions

Branch offices, technical and commercial offices



Our german offices are located in **Neu-Ulm & Hamburg, from which** we support our customers in Germany, Austria and Switzerland. Our headquarter is located in Vitora (Spain) from which we offer services for Portugal and Spain.

Our projects are executed by our technical office in Santander.

Beside this, we have sales offices in **Madrid, Barcelona and**Bilbao.

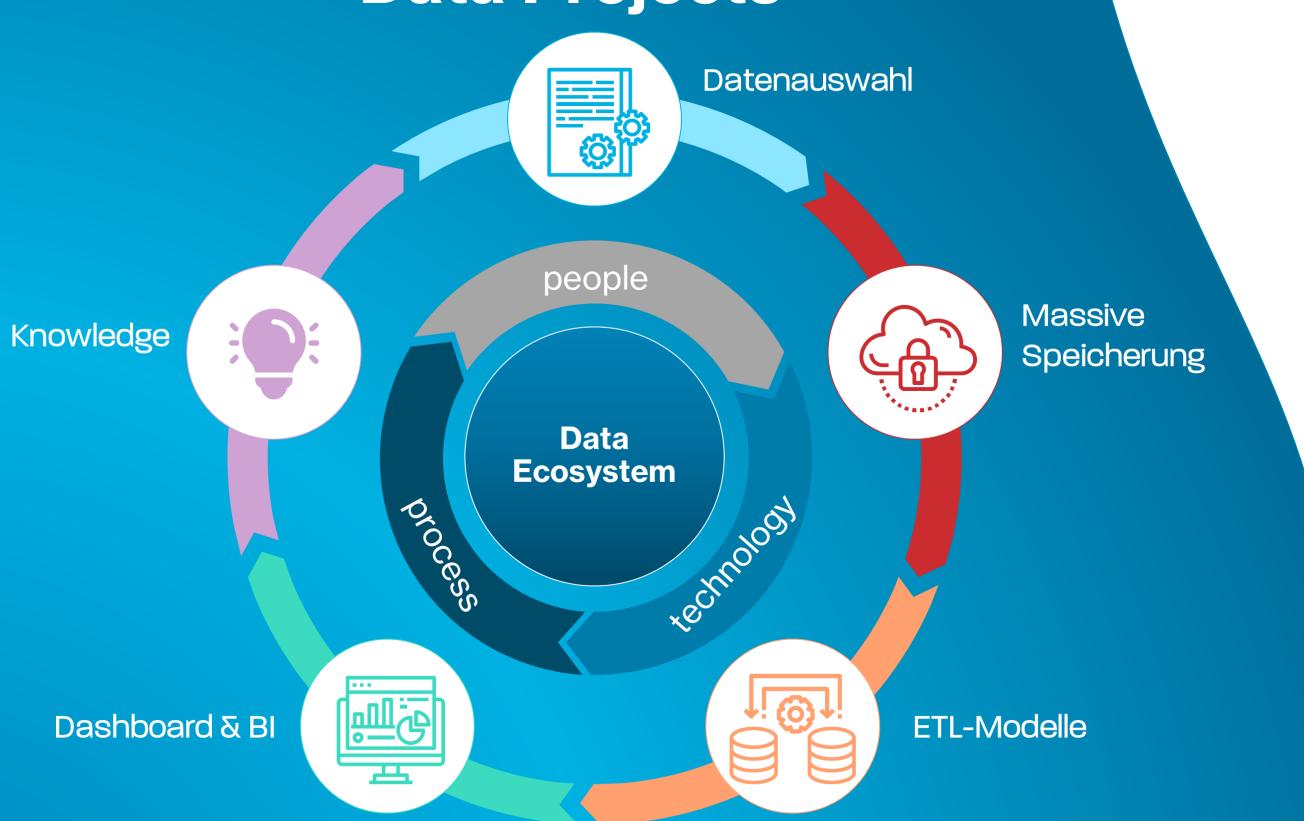


### Products & Service

Our Services, Industries & Customers



### **Data Projects**



### **Software Development**



















# Technology Data Science "outside the box"



Beyond the scope described in the requirement, we provide expertise in the following technologies that our Data Scientist brings to your project.

Cloud-Technology



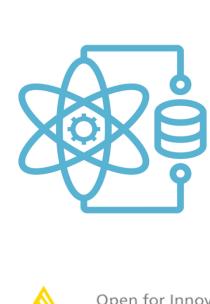
Databases



**Streaming Platforms** 



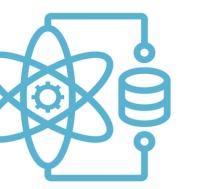
Data Science





















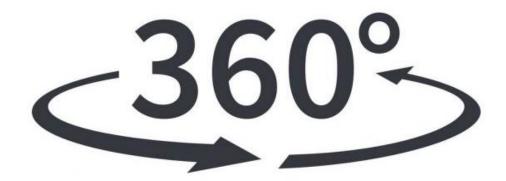


## Who we are

Young & Experienced Team on a Start Up Dynamic



### Multidisciplinary team





Mathematicians & physicists (PhD)

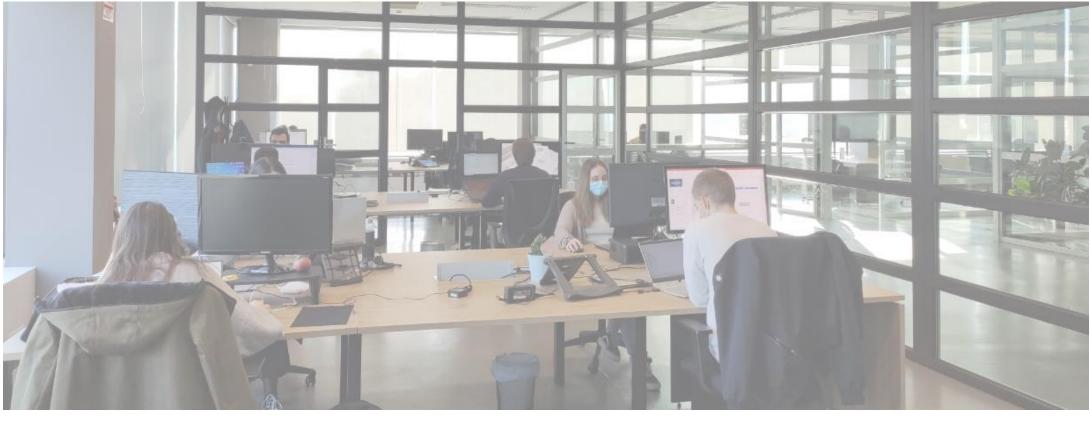


Engineers & IT
Experts (PhD)



Production & Logistics Experts

Master





Administr

Administration-Sales & Legal

30%

We develop complex algorithms that reflect the laws of physics and economics.

35%

We develop AI software applied to industry and supply chain.

20%

We develop logistics and industrial process planners taking into account business rules.

15%

We ensure that our projects comply with stringent quality and data protection standards.

# 2 Products & Solutions

2.1 Solution Overview

2.2 Aidóo Purchases

2.3 SC Control Tower

2.4 Harbour Management System

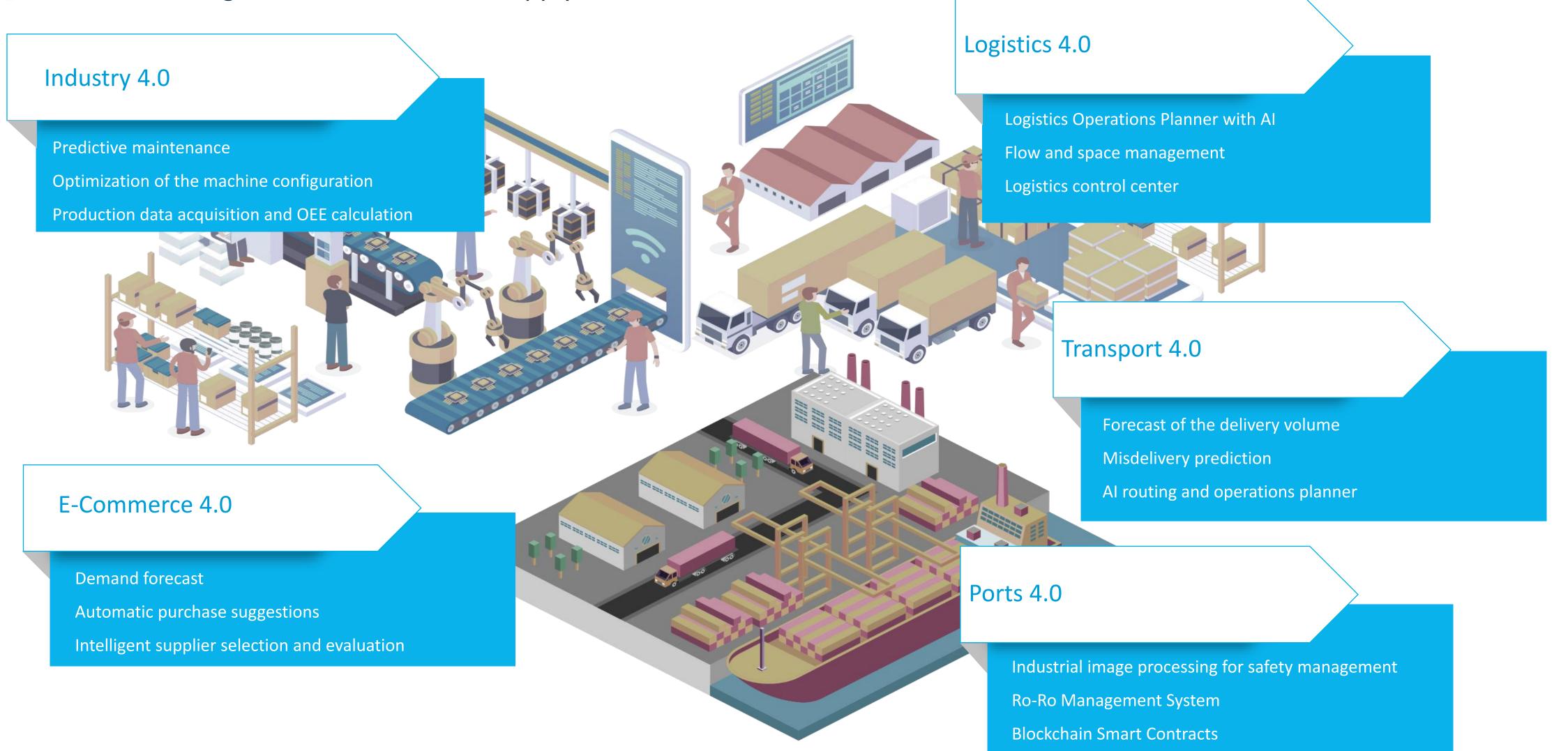
2.5 Predictive Maintenancd

2.6 Summary Content & Benefit

### Solution Overview



We cover the digitization of the entire supply chain

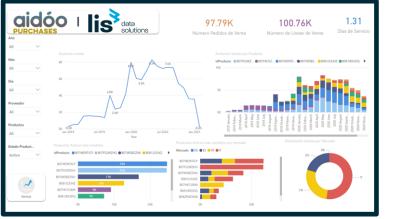


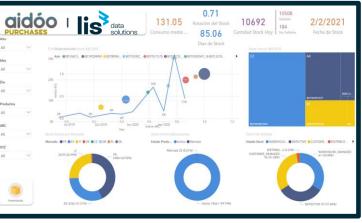
# AIDÓO Purchases

Our product













AIDÓO Purchases is an artificial intelligence solution that uses predictive algorithms to automate demand forecasting and purchase suggestions.

AIDÓO Purchases links and structures data from different sources (ERPs, WMS, CRM, MRP...) to transform it into information to make suggestions to make the best decisions in each area of inventory management, in order to optimize stocks.

### SC Control Tower

Everything at a glance



Our Supply Chain Control Tower links departments across the company.

It enables efficient **process- and cost-oriented**SC monitoring and **active** control.





#### **Cross department**

Linking of cross-departmental KPIs



#### Multiple data sources

Connection of all relevant data sources (internal/external)



#### Multivariate analysis techniques

Multidimensional view of data



#### **What-If Analyses**

Forecasts based on real-time analyses



#### Intuitive & configurable display

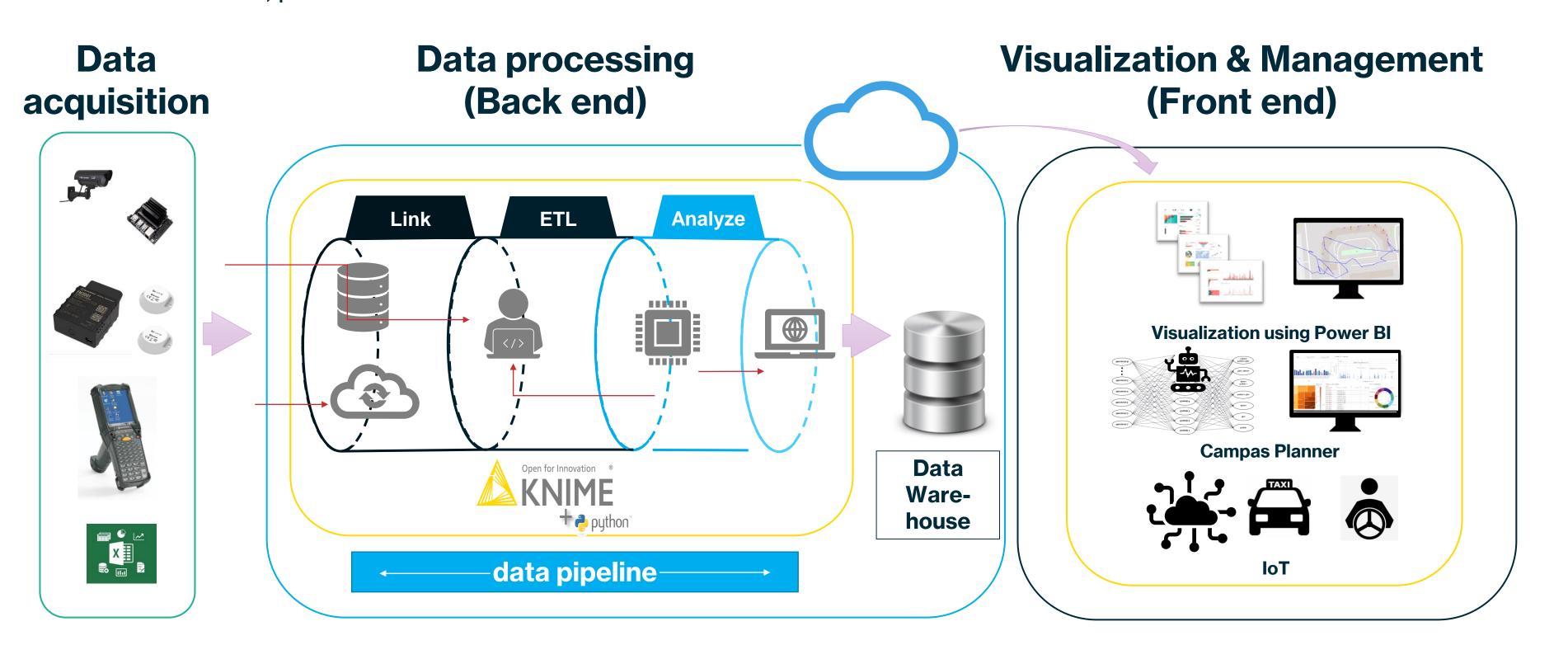
BI-based dashboards for easy and intuitive use according to your needs

# RoRO CAR Management System



LIS smart port Solutions

- Innovative solution for the management of RORO storage areas based on the integration of various data sources. This data is already
  available today and can be used immediately.
- By combining **existing data**, consisting of vehicle position data (VIN lists), video images and sensors in the field, data is collected, analyzed and processed using machine intelligence. This can improve field and operational management, **reduce costs** and increase efficiency. In addition, potential **accidents** can be **avoided**.



### Features and benefits

- Database integration
- ERP/WMS system connection
- Overview occupancy area in real time
- KPI: performance, costs, risks
- Automatic notification system
- Device management
- Automated notifications
- Reporting
- Optimization of processes
- cost containment
- Increasing efficiency

# AIDÓO Maintenance

Our product



### GICO MAINTENANCE

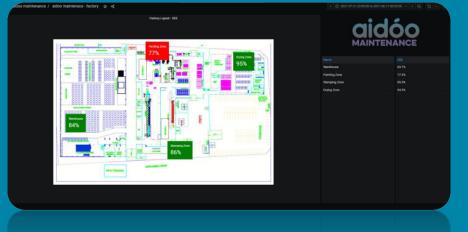
AIDÓO Maintenance is an artificial intelligence solution that uses neural networks to automate detection of necessary maintenance while predicting Risk of Failure (RoF) and Remaining Useful Life (RuL) of machines.

AIDÓO Maintenance links and structures data from different machines and interfaces to transform it into information to make suggestions to make the best decisions in each area of maintenance forecasting to optimize usage of machines and efficient steering of employess and spare parts.









## Al HR Ressource Planning

Al based ressource management





#### **Intelligent ressource planning**

Operation planning according to demand & qualification



#### **Integrated work processes**

Processes incl. times embedded in the tool



#### **Utilization of all employees**

Representation of current and future workload on the basis of work processes



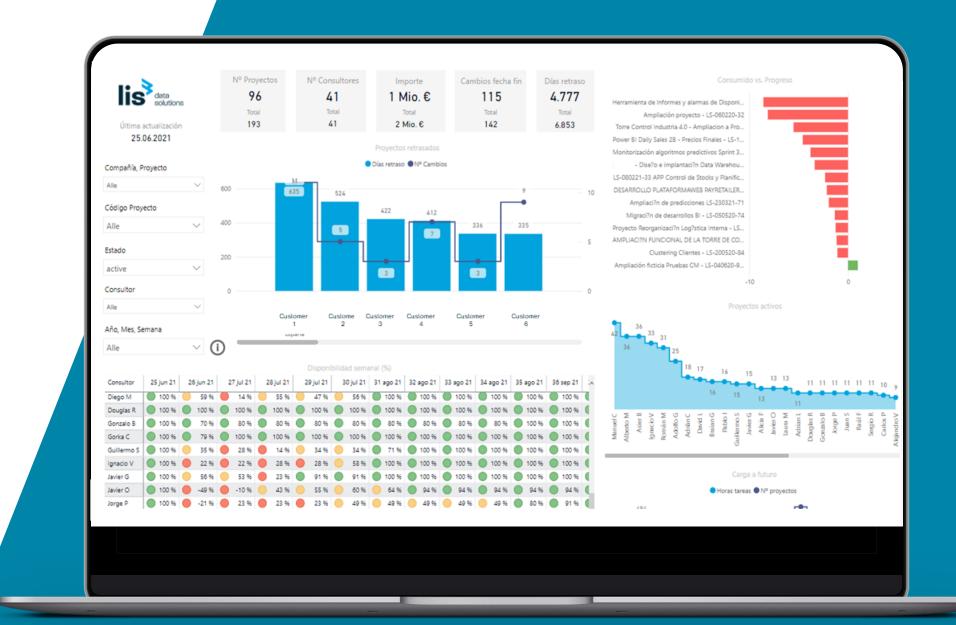
#### **Proposals for optimising capacity utilisation**

Shifting of Staff on the basis of Orders and types

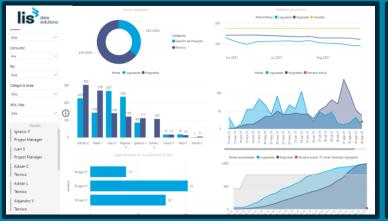


#### **Real-time forecasts**

Scheduling on the basis of real-time data









# 2. Summary Content & Benefits (1/3)



The following pages present solutions that contribute to optimizing logistics processes and reducing costs. The overview serves to provide a qualitative overview of the solutions.

#### in-house operations

 Demand-driven solutions based on predictive algorithms

#### **Supply Chain Planners**

 Tactical planners with multidimensional analysis tools

#### **Advanced AI Solutions**

 Computer vision, second generation Al algorithms applied to complex problem solving.

#### Resources

#### -planner

- Linked with ERP + WMS + TMS
- Al-based proposal
- Bottleneck prediction



#### **Tactical Logistics**



- 1-3-5 years Planning horizon
- Internal + Open Data Lake
- BI-based visual slider game

#### **Process**

#### **Auditor**



- Process proactive alarms
- Benchmarking & comparisons

#### Lean

#### E-Kaizen



- Action & Reaction Linking Tool
- Interactive & Intuitive Saas
- Visual quality management in the workshop (gamification)

#### **Master Data** Management (MDM)



- Translation & Harmonization
- Al-automated MDM creation
- Unique Source of Truth Concept

#### Automated inventor control



- Demand forecasting & pipeline analytics for inventory management
- Dynamic & Adaptive Inventory Proposals

#### **Tours**



#### **Optimization SC**

- Tool for optimizing tours with predicted demand
- Real time + simulation environment

#### **Accident Prediction & Theft**

- Computer vision algorithms for fraud or accident prevention
- Pattern recognition, causes & proposed solutions

#### **Predictive**



#### Maintenance FFZ...

- Forklift usage reports with suggestions for improvement
- Predictive & prescriptive maintenance algorithms

# 2. Overview of solutions (2/3)

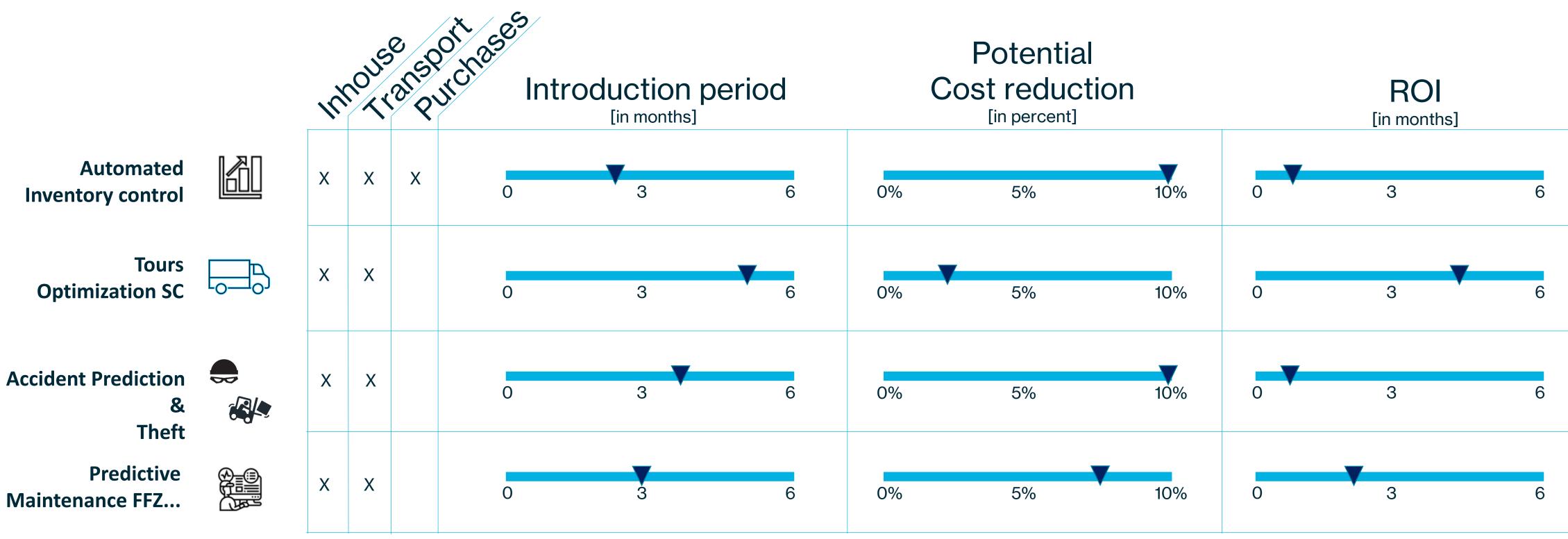




Values based on our experience from previous projects

# 2. Overview of solutions (3/3)





Values based on our experience from previous projects

# Ready for your transformation?



### **Your Contact Person:**

Matthias Rothfuchs

+49 179 50 74 870

matthias.rothfuchs@lisdatasolutions.com

