

Data Driven Industrial Operations

Fierce **competition**

Unpredictable **environment**

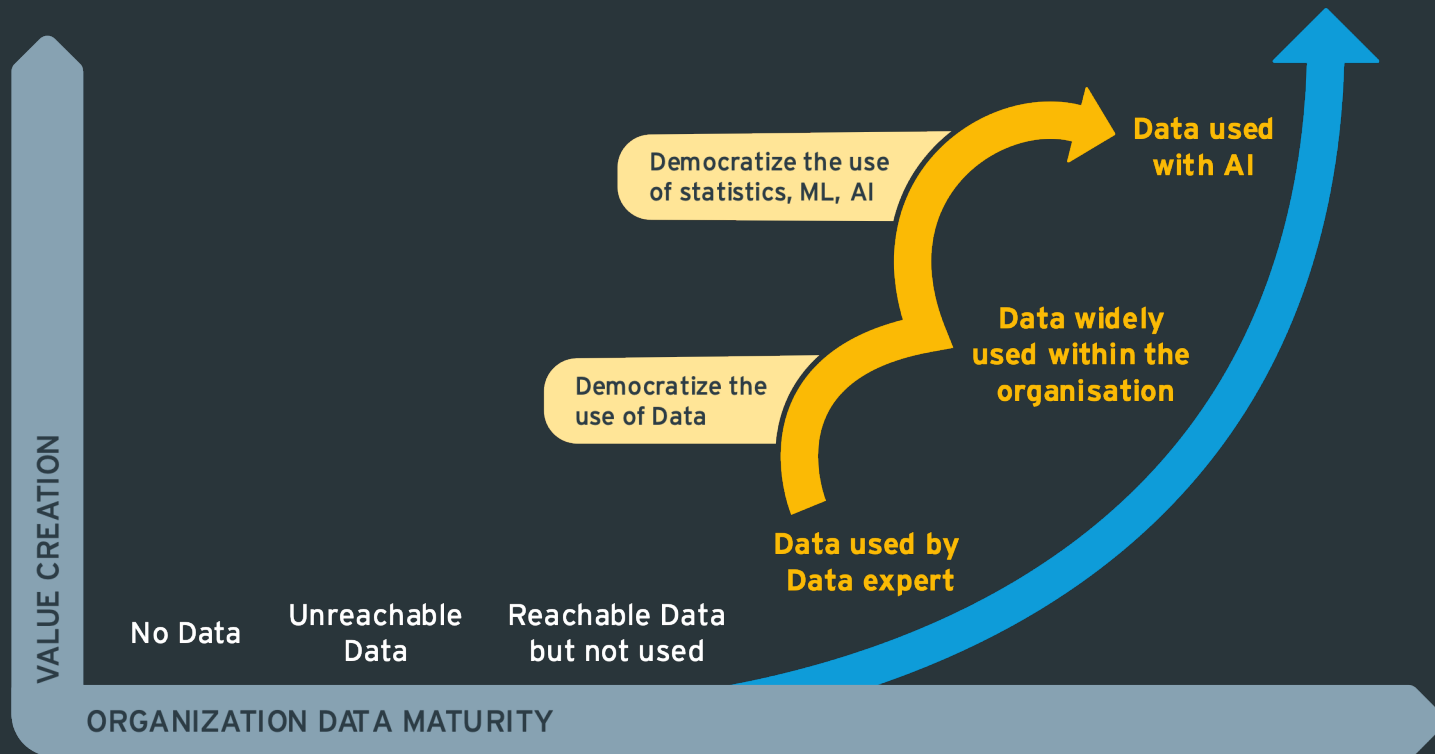
Lack of **skilled workforce**

Pressure for **transparency** and **compliance**

To adapt and remain profitable, most industrial companies have embarked on a journey to become **data-driven**.

Now what matters is their **speed.**

The journey to become **data-driven** and **accelerate value creation**



How Data Driven culture is **transforming** organizations



Driving Performance ownership and initiatives

- Enables everyone in the organization to make the right decisions quickly.
- Makes everyone take ownership of their own performance and share it with others.
- Frees up team initiatives to seek out new opportunities to create value.



Improves organizational efficiency and collaboration

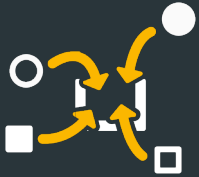
- Establishes a common vocabulary.
- Accelerates the sharing of information and best practices.
- Increases the capacity of internal and external experts to support operational staff.
- Increases the organization's resilience to changes in personnel and the environment..



Leverages data and AI to open new horizons

- Empowers teams to deepen their understanding of industrial processes and formalize their knowledge.
- Identifies numerous new improvement actions.
- Automates the monitoring, troubleshooting, and optimization of operations.

Common **obstacles** on the journey



Data collection

- Data spread in multiple systems.
- Uncaptured “paper” data.
- Challenge to access data in real time.



Contextualization

- Data without industrial context (assets, events, traceability, genealogy...)
- Combining heterogeneous data is complex.
- Everyone works with its own data.



Skills

- OT, IT experts are overloaded with requests.
- Operational staff lack data expertise.
- Data Expert often lack deep process knowledge



Wide Adoption

- Existing tools with poor User Experience (UX) and User Interface (UI).
- Tools are technology centric, seldom industry centric.
- Poor documentation and support.

Our All-in-One Solution to become data driven



Collect, centralize, contextualize, store, transform and exploit data in real-time

3

Cockpit Builder with an Integrated Suite of **Business Applications**

2

Contextualization Engine

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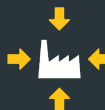
Real Time data collection



100% No-code to be managed and deployed by business experts.



Reliable **single source of truth** removing organization silos.



Industry centric data models and Apps to accelerate value creation.



Operational teams **autonomy** to build their use cases.



Data and AI made accessible to the whole organization.



Improved and accelerated collaboration within the organization.

Real Time data collection

Collect data from :

- OT : Supervision, Historians, DCS, SCADA...
- IT (on-prem or cloud) : ERP, MES, LIMS, CMMS...
- IoT platforms
- Open Data platforms

With :

- Bi-directional API
- Edge Data collection software
(OIBus or third-party software)
- Object storage
(AWS S3, Azure Blob)
- SFTP



OIBus Edge Data Collection Software

Open Source EUPL v1.2.

Multiple sources simultaneously.

Tight integration with OIAnalytics for data connections supervision.

Supports several IT, OT and IoT standards
(OPC, OPCUA, ModBus, MQTT TwinCat ADS,
API, SQL, Files...).

Secure and reliable .
(cache, encryption, compression...)



Contextualization Engine

Your Heterogenous Data

Data Pre-processing



Standard data models
designed for
Manufacturing Industry



Time Series
Data



Event Context
and Data



Vectorial
Data



Traceability
Context and
Data



Genealogy
Context



Assets
Context

Data aggregation and processing



Cockpit Builder

The central App enabling business experts to build interactive data experience to answer their use cases in minutes.

Integrated Suite of Business Applications

Business Apps to accelerate operations digitization and bring a wide range of use cases to life.



SPC and control App



OEE and production loss App



Shift logbook and instruction App



Forms App



Advanced Analytics App

Analytics workflows to facilitate and accelerate the work of engineers for troubleshooting and optimization.



Python Code App

Python code tools to develop and deploy ad'hoc models (scientific computation, ML, AI...) in the field .

The **only solution** combining all you need to become **Data Driven**



Designed for **industrial** operations

- Flexible, fast, real-time integration with multiple industrial data sources.
- Powerful no-code platform with industry-centric data models and processing.
- All industrial use cases in a single platform.



Designed for **wide** adoption

- Consistent and Intuitive user experience.
- Customers fully autonomous.
- Seamlessly integrated Business Apps.
- Detailed documentation and dedicated support.



Designed to **deploy** at scale

- Multi-site and corporate organization support.
- Fast implementation project and training.
- Modular design with templating features to simplify scaling.



Designed to adopt **the latest** technologies

- Regular innovative features at no extra cost.
- State-of-the-art Advanced Analytics Apps.
- Powerful Python code deployment tools for data experts.

100+ large industrial sites create value with us

ADISSEO
A BlueStar Company

axplora

HRS

SECANIM
SARIA Group

ADM

biowanze

NEOTISS
HIGH PERFORMANCE TUBE

SNCZ
L'ANTICORROSION

AFYREN

BRIDOR

PDL
PAPETERIES DU LEMAN

STELIA

alteo
SMART ALUMINA //

BIOMÉRIEUX

PEARL
Infrastructure Capital

TERREAL

ARMOR
MAKING THERMAL TRANSFER EASIER

EDF

Refresco

TOSHIBA

AxelOne

Elkem

SANOFI

Trédi
Secré global solutions

Axens
Powering integrated solutions

eraMet

SAVENCIA
FROMAGE & DAIRY

Ugitech



**Chemical
Industry**



**Mining, Metallurgy
and Materials**



**Food and
Beverage**



**Pharma
and Biotech**



**Energy, Utilities
and Environment**



Pulp and Paper



Oil and Gas

Watch our clients' testimonials on our [website](#) or our [YouTube Channel](#)

What our customers say

Axens

Powering integrated solutions

Frédéric KUNTZBURGER
Industrial & Technical Director

"For us digitalization is now **a lever to increase productivity and performance in Axens' Plants worldwide** by

- Improving industrial monitoring
- Enabling cross-data analysis for advanced decision making
- Promoting multi-skills & sites teamwork"



Olivier MARQUANT
Site Director

"The fact of being in a 4.0 solution, in which we aggregate all the data, gives us **much greater power to be relevant in our analysis**"

ADISSEO
A Bluestar Company

Christophe PICARD
Digitization Project Director

"Combining data from our different systems in OIAalytics enable us to **optimize our process to increase by several percentage point our raw material yield**"

François MAILHOS
Industrial Director

"OIAalytics provides **answers to the day-to-day problems** faced by industrial companies"

TOSHIBA

Mohamed MEHTOUL
Toner Dpt. Manager

"With OIAalytics, **we reduced our energy consumption by 7% thanks** to better control of our production process and product quality"



Olivier LESAGE
Senior Expert Engineer

"With OIAalytics our engineers **save 50% of their time** to produce research reports after completing an industrial pilot."

Watch our clients' testimonials on our [website](#) or our [YouTube Channel](#)



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Integrated and Open Operational Intelligence Platform

YOUR INFORMATION SYSTEM ARCHITECTURE

Custom Made Apps
(Python SDK available)

Third Parties Apps

Open Data

IoT Platforms

(Network Servers from Kerlink,
Objenious, Sigfox, ITSS...)

IT Systems

Connectivity to API, SQL, Files...

OT Systems

Connectivity to OPC, OPCUA,
ModBus, MQTT... and possible
integration on Industrial
Computer (TwinCat ADS,
Raspberry)



**Edge Data
Exchange**

API (bi-directional for data exchange and objects manipulation)

CORE DATA PLATFORM

CONTEXTUALIZATION ENGINE

Data Processing

- Predefined business processing
- Custom processing with Python code



Data Storage

- Predefined business data models
- Optimised DB storages



Time Series
Data



Event Context
and Data



Vectorial
Data



Traceability
Context and Data



Genealogy
Context



Assets
Context

Data Stream Pre Processing

- Data-flow monitoring
- Data filtering
- Events, Traceability and Genealogy generation
- IoT device message decoding
- Pre-treatment with configurable file readers
- Custom pre-processing with Python code

COCKPIT BUILDER



INTEGRATED BUSINESS APPS



ADMINISTRATION

Access Right Management

- Support of SSO or login / password
- Group and Users
- Fine granularity with access right management at level of data and application objects.

Data Model Configuration

Audit Trail

