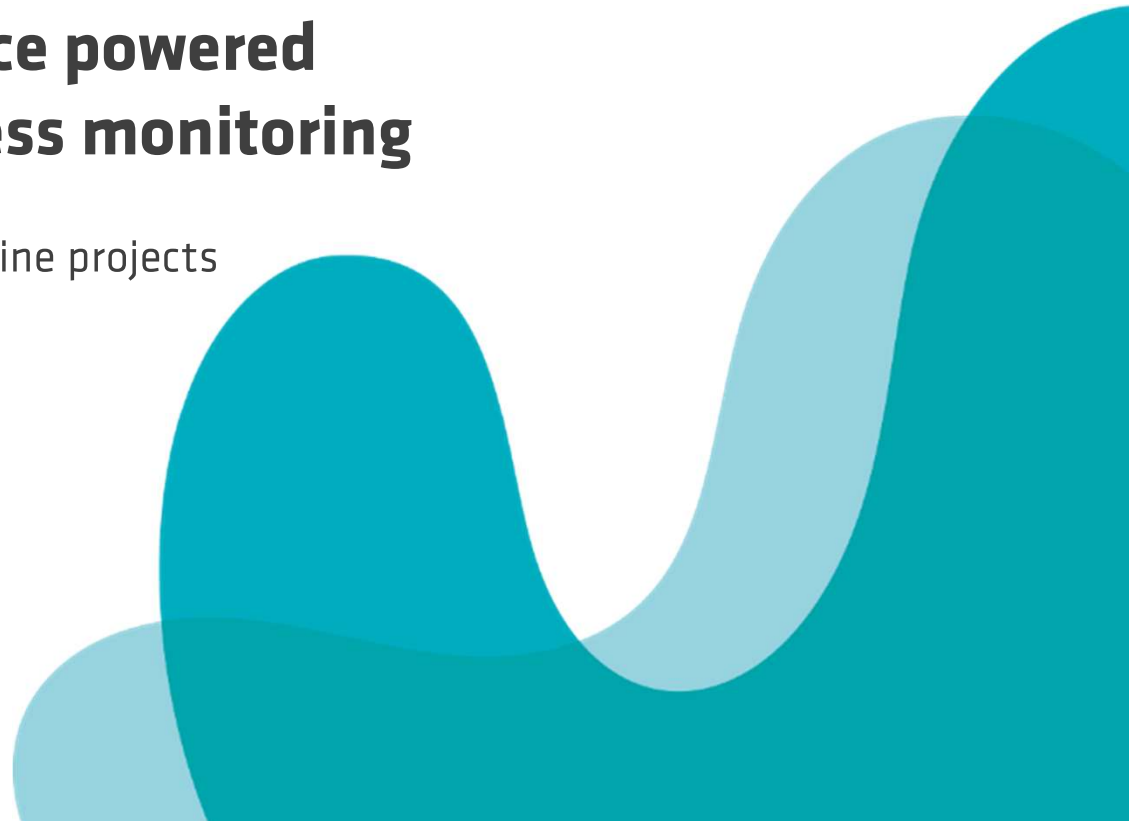April 27, 2022

# Artificial Intelligence powered construction progress monitoring

AI Clearing's solution for pipeline projects

# 01

## About
## AI Clearing

Spiecapag selected our solution to provide construction progress tracking reports during pipeline construction project in Brittany, France

## ABOUT AI CLEARING

AI Clearing is a platform seamlessly integrating various data sources of construction data to deliver fully digital insights on construction progress and its quality.

## OUR AI-BASED SOLUTION FOR THE CONSTRUCITON SECTOR ALLOWS TO:
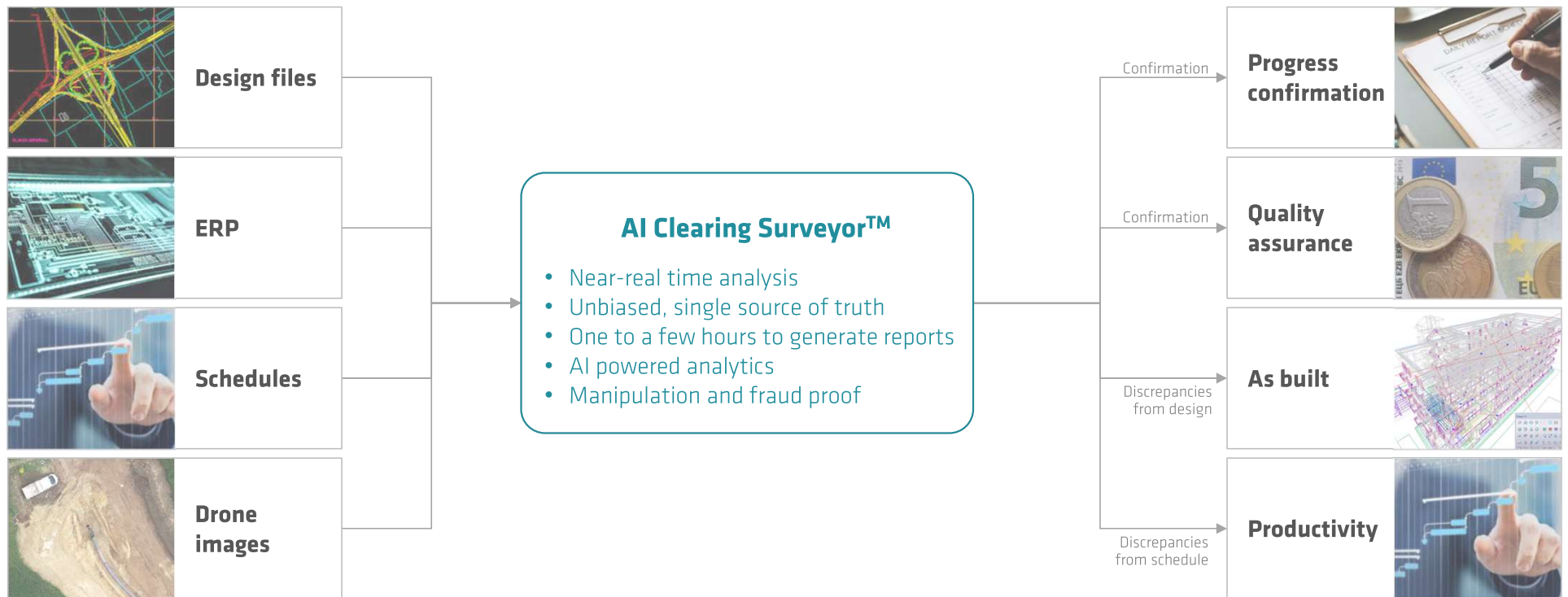
Supervise project more efficiently

Make decisions based 100% on data

Digitize current processes
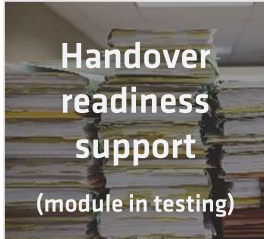
Mitigate construction risks

# We deliver world's first solution for work progress tracking based on Artificial Intelligence and geospatial data

**Design files**

**ERP**

**Schedules**

**Drone images**

**AI Clearing Surveyor™**

- Near-real time analysis
- Unbiased, single source of truth
- One to a few hours to generate reports
- AI powered analytics
- Manipulation and fraud proof

Confirmation → **Progress confirmation**

Confirmation → **Quality assurance**

Discrepancies from design → **As built**

Discrepancies from schedule → **Productivity**

# AI Clearing offers modular and fully customizable solution, allowing to meet various project team's needs

AI Clearing Surveyor™ modules:

**Core Module**

## Construction Progress Tracking

**Additional Modules**

| | | | | | |
|---|---|---|---|---|---|
| Drone-based progress tracking for non-standard KPIs | Adherence to Design Tracking | Earned Value vs. Budget Tracking | Conformity with Schedule Tracking | Health and Safety Analysis | Project Portfolio Visualization |
| Accelerated Drone Data Processing | Delays prediction | Handover readiness support (module in testing) | Mobile app for non-drone KPIs (module in development) | IoT data visualization (module not available yet) | Payment reconciliation (module not available yet) |

# Our AI Clearing Surveyor™ combines AI with business intelligence and geospatial analytics to provide single source of truth for all construction stakeholders

**01 SENSOR FUSION AND DATA INTEGRATION**
**COMBINING VARIOUS DATA SOURCES TOGETHER**
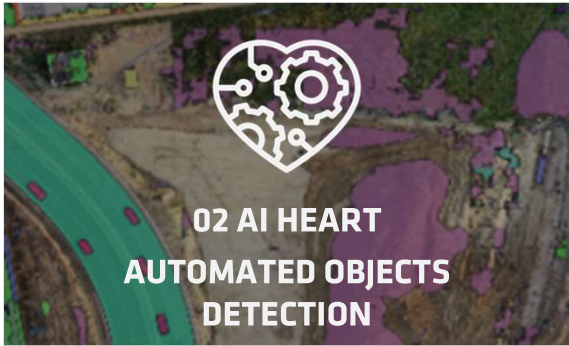


**02 AI HEART**
**AUTOMATED OBJECTS DETECTION**
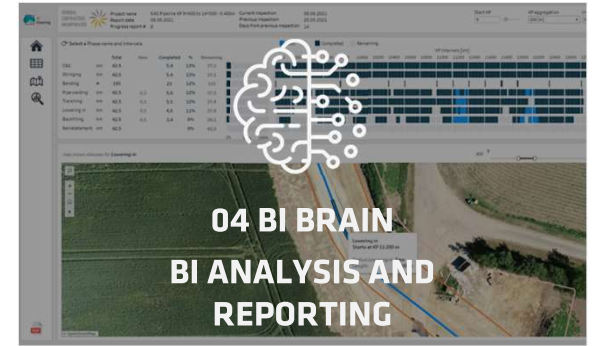
**03 GEO INTELLIGENCE**
**GEOSPATIAL DATA ANALYTICS**

**04 BI BRAIN**
**BI ANALYSIS AND REPORTING**

**05 SECURITY**
**ISO 27001 CERTIFICATION**

# 02

## Reporting process

# For gas pipeline project we focus typically on the following KPI's



| Category | KPI | Unit |
|---|---|---|
| Progress tracking and monitoring | Clearing & Grading | m2/m3 |
| | Pipe stringing | m |
| | Pipe bending | # |
| | Pipe welding/welds | #/m |
| | Trenching | m |
| | Pipe lowering in | m |
| | Backfilling | m/m3 |
| | Reinstatement | m2/m3 |
| Safety and construction site supervision | Installation zone inspection | #* |
| | Proximity to the existing pipeline | m |
| | Distance of heap of earth from the trench | m |
| | Pipes storage | - |
| | Safety equipment | # |
| Adherence to design | | # |

# We support all key aspects of the project from drone data acquisition, through KPI tracking to progress reporting

Reporting process:

1. Drone operations

2. Data processing

3. Data upload to AI Clearing Cloud

4. AI Data Analytics

5. AI Clearing progress reports
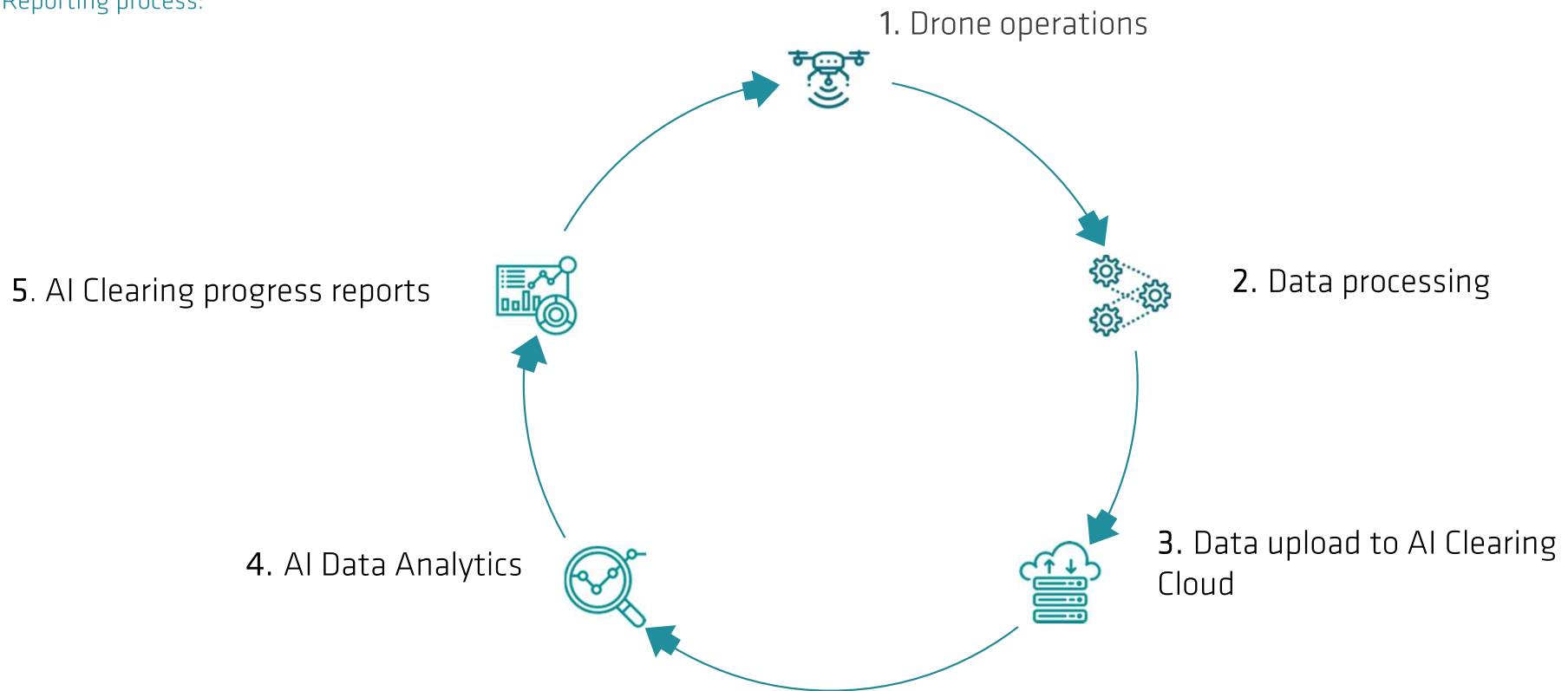
# As a result, we provide interactive dashboards with geospatial data visualization and adherence to design information

## 01. ONLINE INTERACTIVE DASHBOARD
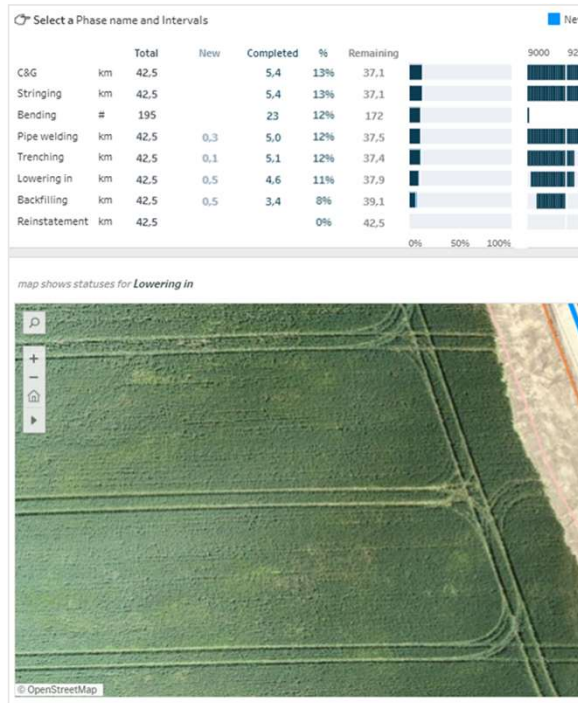


## 02. GEOSPATIAL DATA VISUALIZATION



## 03. AUTOMATED ERROR DETECTION

# 03

## Benefits

# Completed projects in various sectors clearly demonstrated needs of the construction industry to which our solution responds

**Full construction site area supervision**

**Single source of truth capabilities**

**Increased team efficiency and productivity**

**Effective red flag detection**

**Decreased surveying costs**

**Transparency**

**Facilitated communication between stakeholders**

**Reduced risk of rework and court litigations**

# 04

## Our clients

# Our solution has already proven its value for leading construction companies in the US, Canada and Europe

**Type: Pipelines**
**Location: Europe**

**Type: Pipelines**
**Location: Europe**

**Type: Energy – Transmission**
**Location: Colombia**

**Type: Highway**
**Location: Europe**

**Type: Highway**
**Location: Canada**

**Type: Highway**
**Location: France**

**Type: Highway**
**Location: Europe**

**Type: Theme Park**
**Location: US**

**Type: Solar Farm**
**Location: Canada**

**Type: Solar Farm**
**Location: Canada**

**Type: Solar**
**Location: Europe**

**Type: Solar Farm**
**Location: Spain**

**Type: Navigable Canal**
**Location: Europe**

**Type: Community Center**
**Location: Middle East**

**Type: Manufacturing Facility**
**Location: US**

**Type: Maintenance Facility**
**Location: Middle East**

# THANK YOU!

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