



WIZATA

THE OPEN PLATFORM DRIVING THE DIGITAL
TRANSFORMATION OF THE MANUFACTURING INDUSTRY

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AGENDA

WIZATA
THE VISION

1

WIZATA
THE PLATFORM

2

USE CASES
@ARCELORMITTAL

3

LET'S TALK

4

TODAY'S CHALLENGES OF THE PROCESS MANUFACTURING INDUSTRY



CONTINUOUS
REAL-TIME PROCESS
OPTIMIZATION



SUSTAINABILITY
ENGINEER
KNOWLEDGE



HEAVY LONG TERM
INVESTMENT



LOW MARGIN
ON HUGE
VOLUMES



CONTROL PROCESS
IP



Wizata is a software platform allowing manufacturers to **generate and deploy Artificial Intelligence** to optimize complex production processes



QUALITY ISSUES



ENERGY COSTS



DOWNTIMES



LOW YIELD



AUTOMATE AND CLOSE THE LOOP WITH WIZATA PLATFORM AS INDUSTRY 4.0 ORCHESTRATOR



CREATE A LIVE DIGITAL TWIN OF YOUR TARGET PROCESS



THE NEW KNOWLEDGE CENTER FOR YOUR **WHOLE ORGANIZATION**



LIVE-ASSET MONITORING AT DIGITAL TWIN

Wizata Platform

dev.onwizata.com/en/dashboards/11e663fa-f191-4f7d-92aa-ee5ae2702991

Wizata Platform

Dashboards > Crop Shear Monitoring

Device Monitoring

AI Model predicting failure through alerts

The image shows a red industrial crop shear machine. Several circular sensor indicators are overlaid on the machine, showing various readings: 42 kPa, 42 °C, 42 HB, 42 mm, and 42 mm. The machine has a control panel with a screen and several knobs. A yellow sign on the side of the machine reads "荣山 YUNGSAN".

Widgets

Chart

Sensor

Notifications

Location

Cases

Projects

KPI Calendar Heatmap

Estimated Loss & Savings

ROI Project

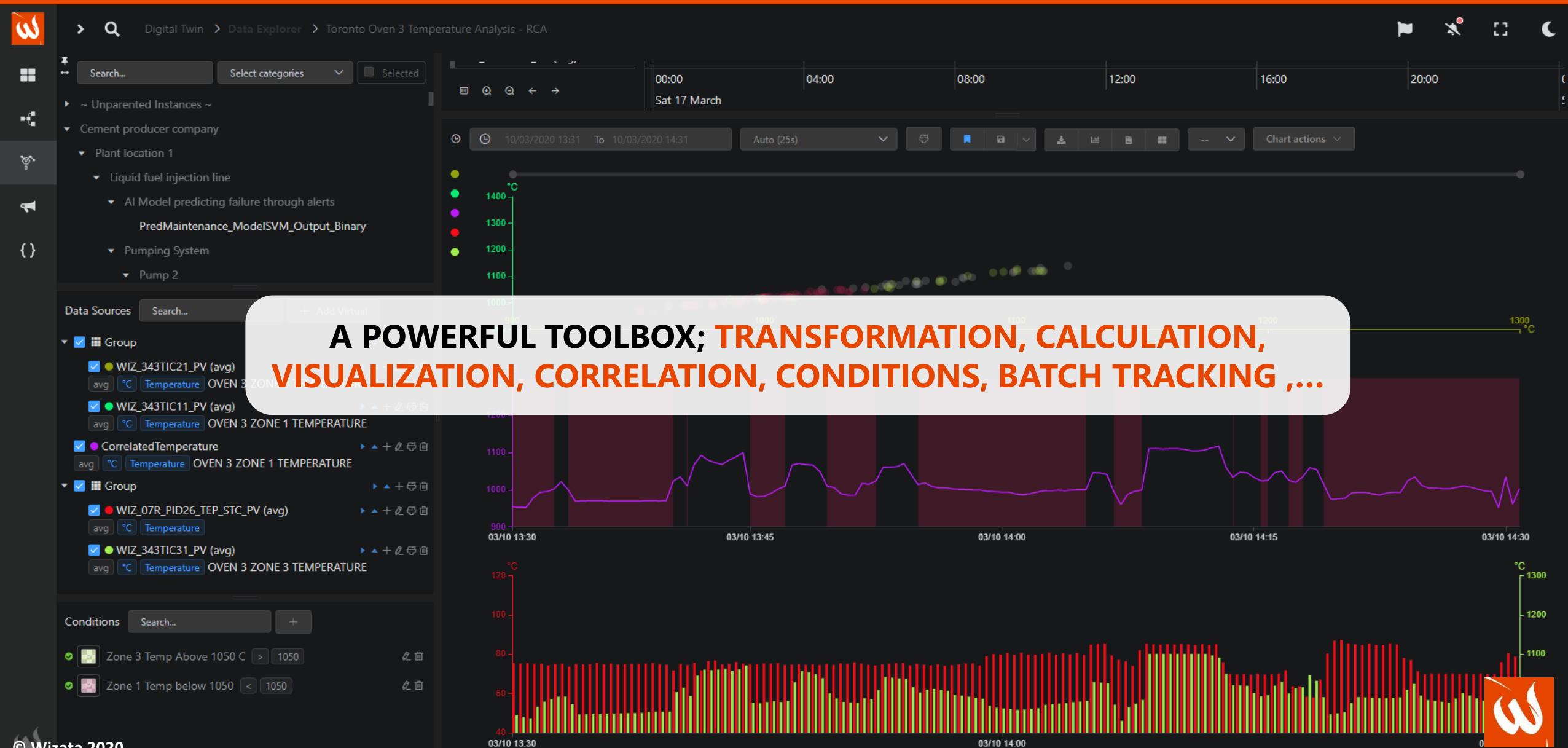
Bullet Plot

Wind Rose

Device Monitoring

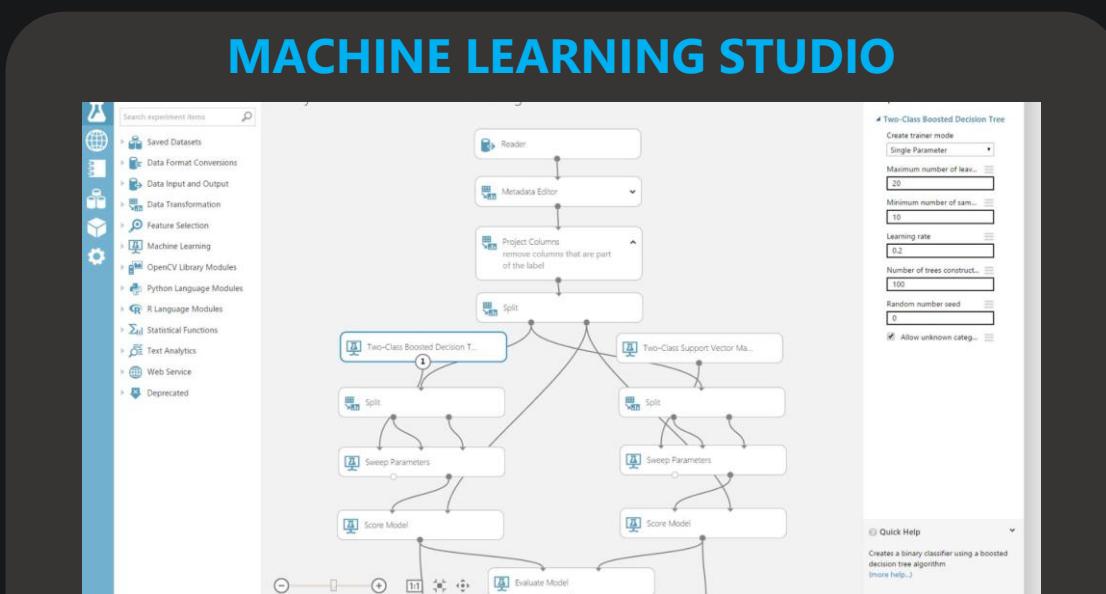
Powered by Wizata

EXPLORE YOUR DATA AND IDENTIFY KEY FEATURES LINKED TO YOUR OBJECTIVE



TRAIN AND DEPLOY YOUR OWN MACHINE LEARNING SOLUTIONS WITH YOUR FAVORITE TOOL

The screenshot shows the Wizata interface for managing machine learning models. At the top, there's a navigation bar with icons for search, back, and forward, followed by 'Research & Development > ML models'. Below the header is a sidebar with various icons. The main area is titled 'ML models' and contains a table with one row. The columns are 'Name' (sorted), 'Workspace Name', 'Updated', and 'Created'. The single entry is 'power-pred-webservice' from 'mlops-AML-WS' last updated on April 14, 2020, at 10:08 AM, and created on March 27, 2020, at 6:09 PM. At the bottom of the table are pagination controls: 'Total 1', '20/page', and 'Go to 1'.



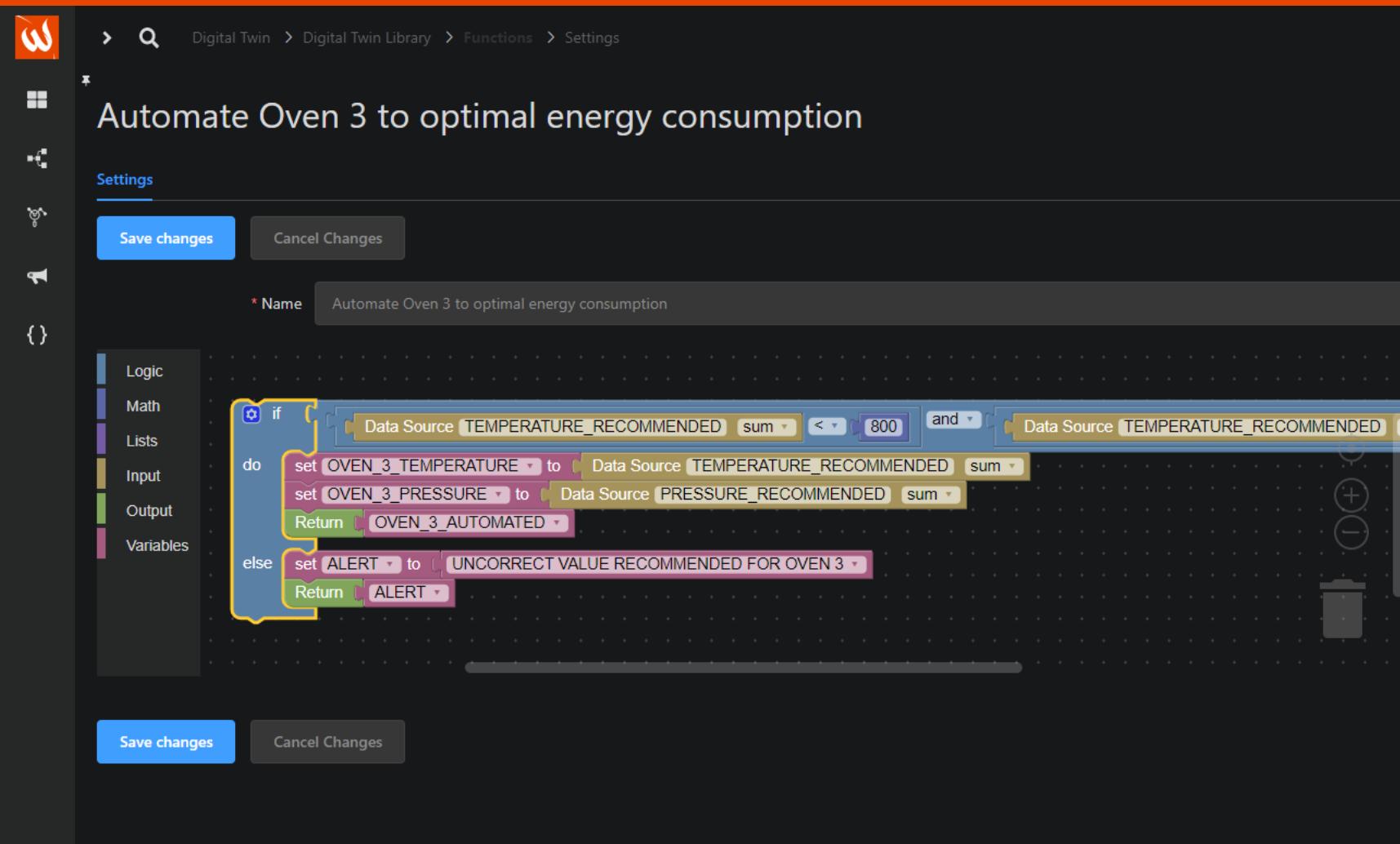
INTUITIVE AND CODE-FREE

This screenshot shows a Databricks workspace interface. The left sidebar lists notebooks, datasets, and other workspace items. The main area is titled 'Open Temperature and Pressure Recommendation (Python)' and shows a code cell containing Python code for a machine learning pipeline. The code uses the 'catalyst' library to define a pipeline with stages like reading data, splitting it, fitting a 'GBTRRegressor' model, and evaluating the results. The notebook also includes sections for training the model and making predictions. The right side of the screen shows the Databricks navigation bar with options like 'Schedule', 'Comments', 'Runs', and 'Revision history'.

PYTHON AND R



AUTOMATE YOUR PROCESS WITH REAL-TIME DECISIONS TAKEN BY AI

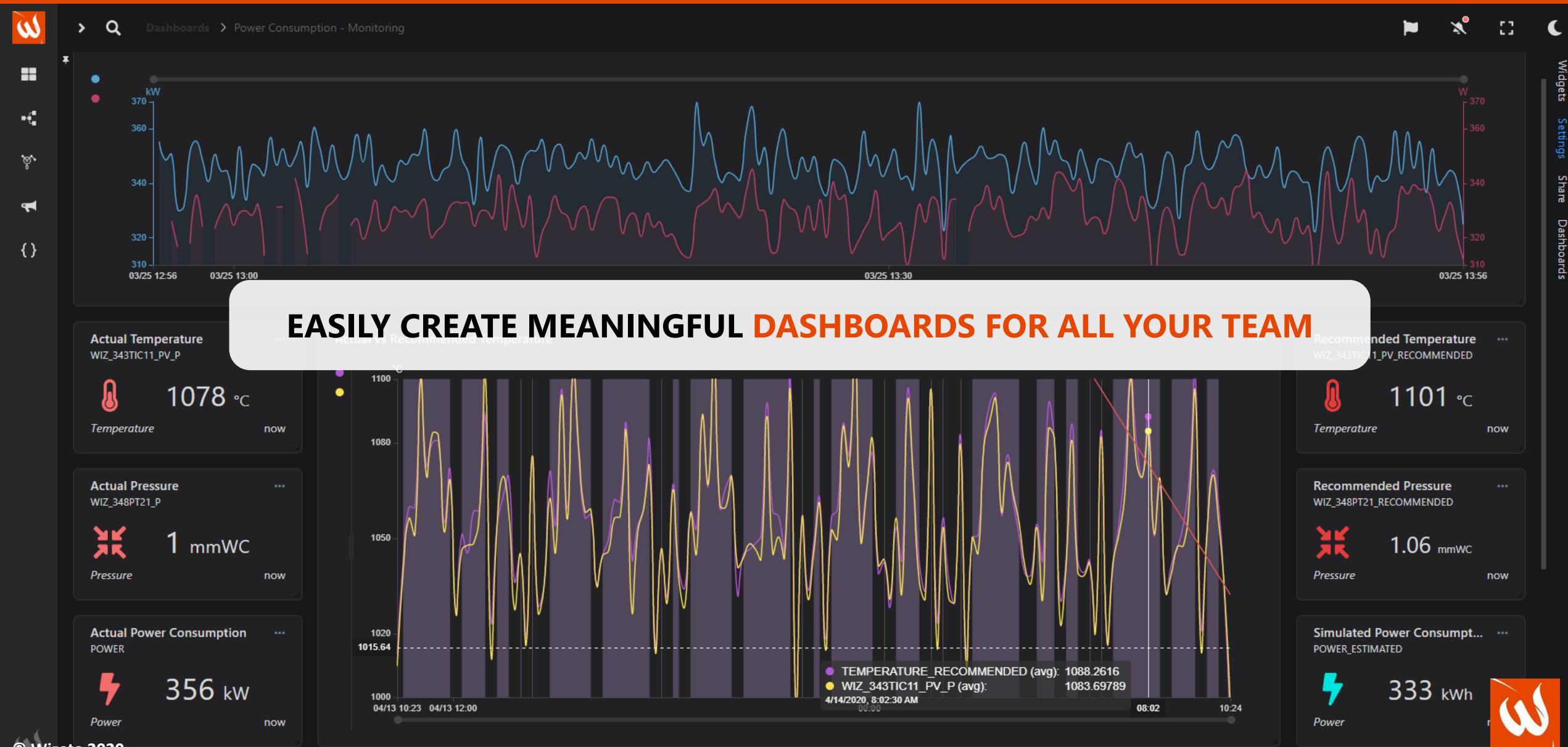


The screenshot shows the Wizata platform interface. At the top, there's a navigation bar with icons for search, digital twin, digital twin library, functions, and settings. Below the navigation is a title "Automate Oven 3 to optimal energy consumption". On the left, there's a sidebar with categories: Logic, Math, Lists, Input, Output, and Variables. The main area displays a logic block diagram. The diagram starts with an "if" block. Inside the "if" block, there are two "Data Source TEMPERATURE_RECOMMENDED sum" blocks connected by an "and" operator. The condition is " $800 < \text{sum}$ ". If true, it executes a "do" block which sets "OVEN_3_TEMPERATURE" and "OVEN_3_PRESSURE" to their respective recommended values from data sources, and returns "OVEN_3_AUTOMATED". If false, it executes an "else" block which sets "ALERT" to "UNCORRECT VALUE RECOMMENDED FOR OVEN 3" and returns "ALERT". At the bottom of the interface are "Save changes" and "Cancel Changes" buttons.

CREATE
AUTOMATION
CONTROL
FUNCTIONS
AND
DEPLOY ON THE
CLOUD / LOCALLY
ON THE EDGE



CREATE DASHBOARDS TO GIVE REAL TIME INSIGHT



... AND START MAKING MONEY WITH MEASURABLE ROI



PROCESS AUTOMATION THROUGH MACHINE LEARNING IS THE KEY !

YIELD INCREASE
UP TO

10%

DEFECT RATE
DECREASES BY

25%

ROOT CAUSE
ANALYSIS
SPEED UP

6x

DOWNTIME
DECREASES
BY

50%

MAINTENANCE
COSTS
REDUCED BY

25%



HOW TO START YOUR DIGITALIZATION JOURNEY



START WITH ONE
PROCESS LINE



UNDERSTAND AND
IDENTIFY KEY
BUSINESS AREAS
TO OPTIMIZE AND
MAXIMIZE ROI



DEPLOY, TEST,
OPERATE AND
MEASURE ROI



DEFINE A DIGITAL
STRATEGY TO
SCALE UP



ACCELERATE
DEPLOYMENT AND
EFFICIENCY
ACROSS PLANTS



BUSINESS USE CASES

ArcelorMittal Warsaw

- Long Product
- AI Predictive Maintenance on Cutting Torches

ArcelorMittal Canada

- Mining Division
- Yield Optimization on 6 Concentrator lines

Limestone Producer

- KILN Automation
- Temperature stabilization

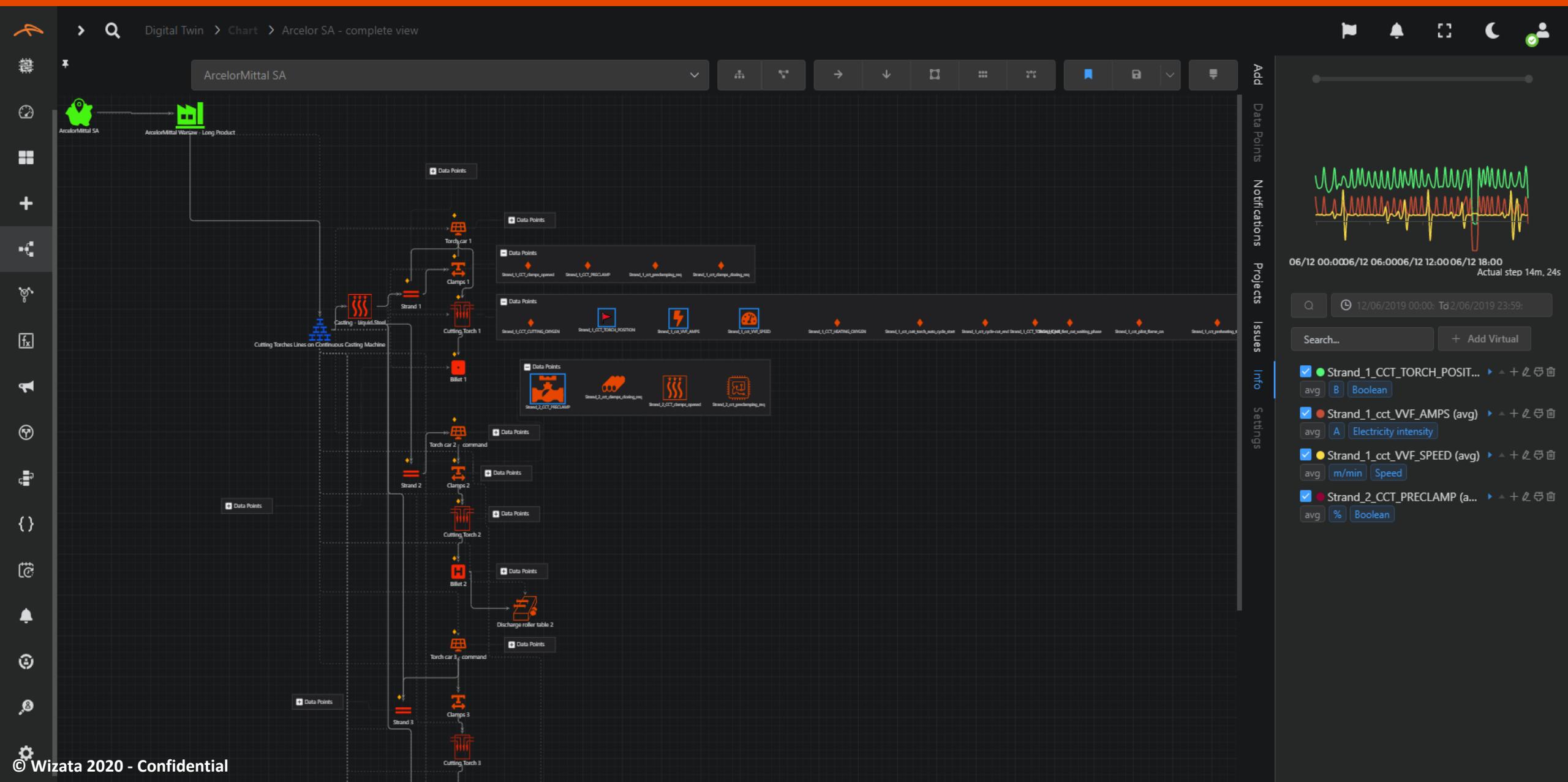
ARCELORMITTAL – STEEL LONG PRODUCT CONTEXT



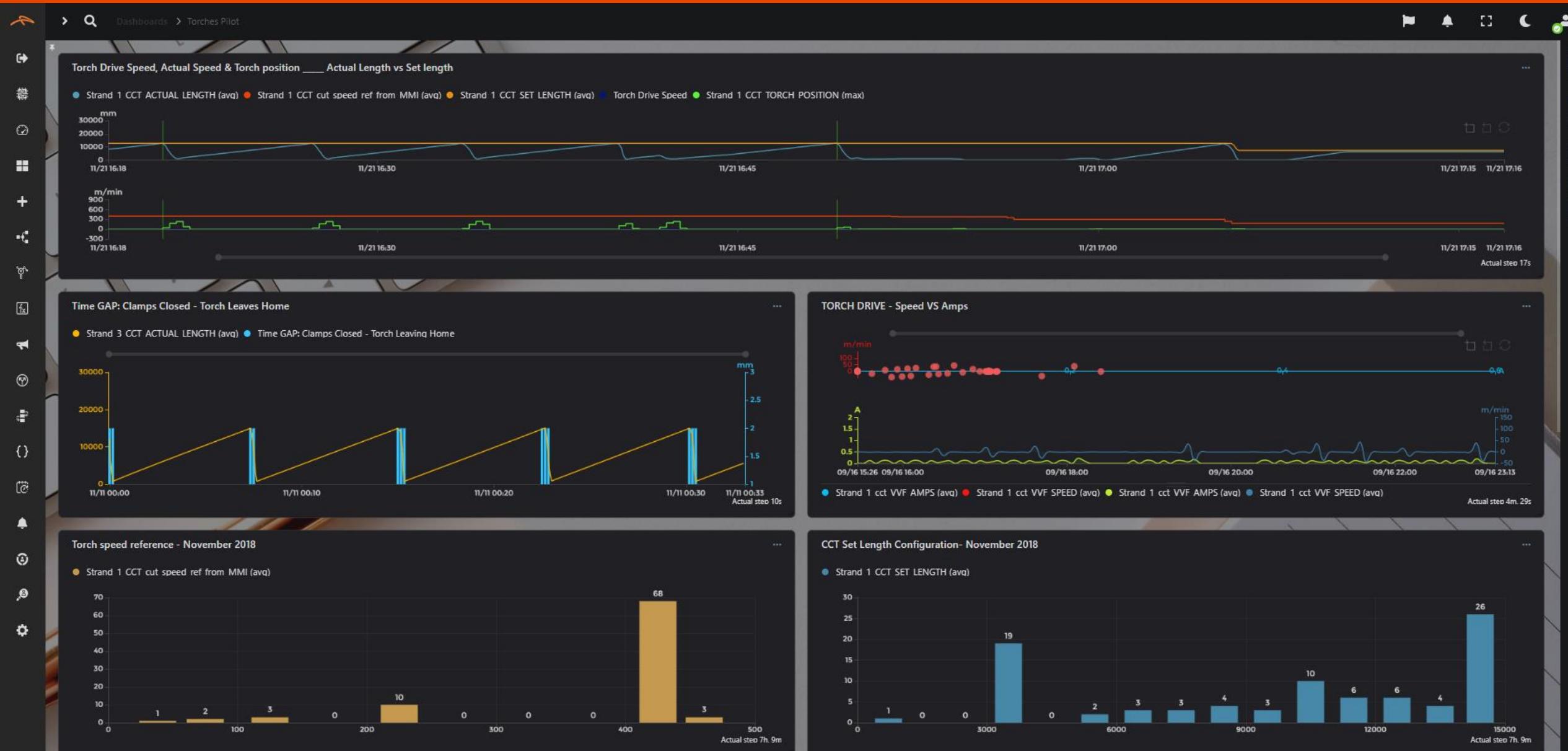
PREDICTIVE MAINTENANCE ON OXYGEN TORCHES IN WARSAW



ARCELORMITTAL – STEEL LONG PRODUCT DIGITAL TWIN



ARCELORMITTAL – STEEL LONG PRODUCT



ARCELORMITTAL – RESULTS

- Live data flow integration from IBA to Wizata Platform
- 16 AI models deployed in operation with real-time alerts sent via email to operators
- KPIs defined with business team → successfully achieved
- Currently testing in operations (4 months)
- Demonstrated proof of value → true positive leading to potentiometer replacement, car guide lubrication leading to real return on investment

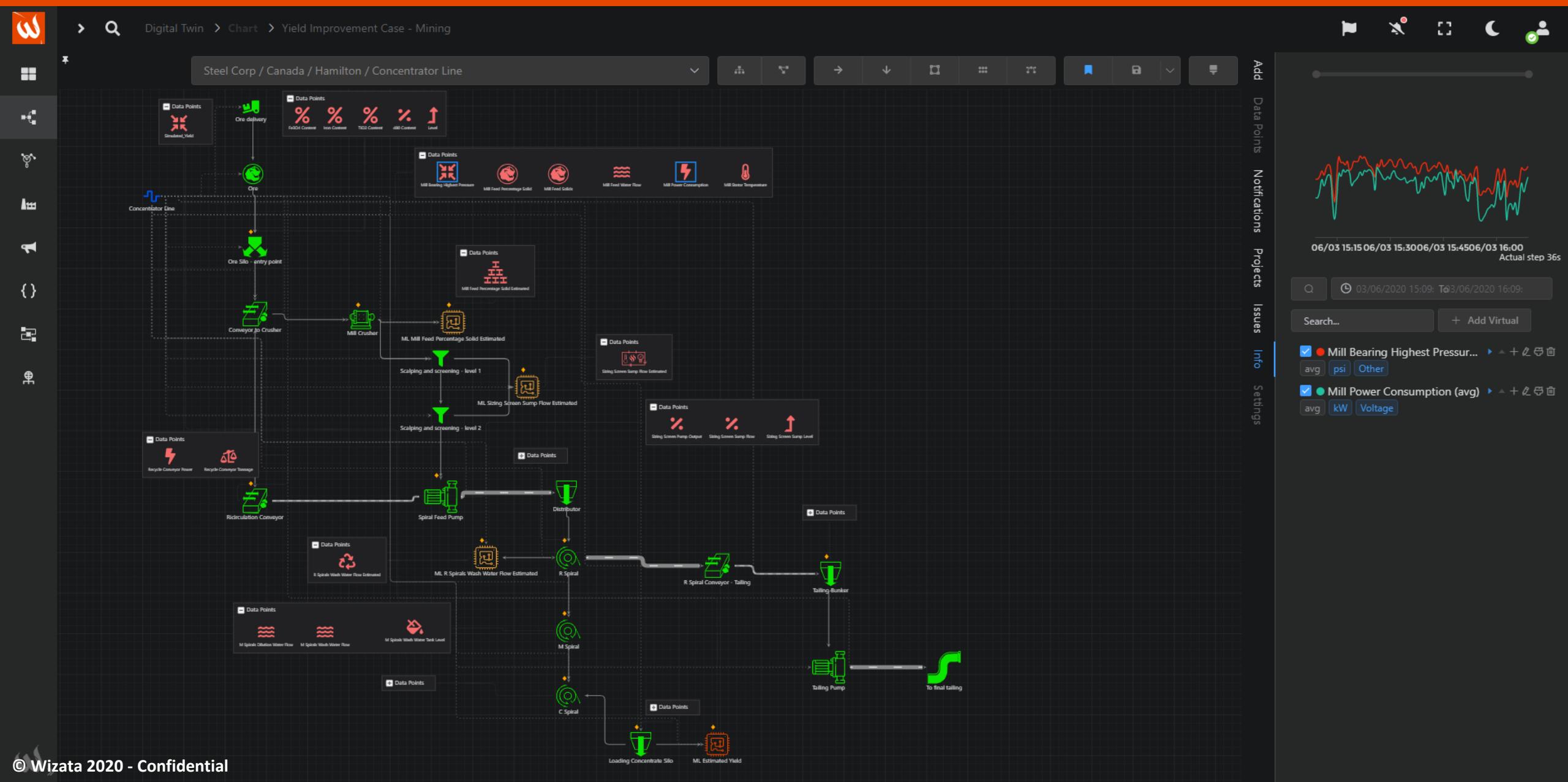
ARCELORMITTAL – AI IN MINING FOR YIELD OPTIMIZATION



AI YIELD OPTIMIZATION OF 6 CONCENTRATORS LINES IN CANADA – MONT-WRIGHT



ARCELORMITTAL – AI IN MINING FOR YIELD OPTIMIZATION DIGITAL TWIN



ARCELORMITTAL – AI IN MINING FOR YIELD OPTIMIZATION RESULTS



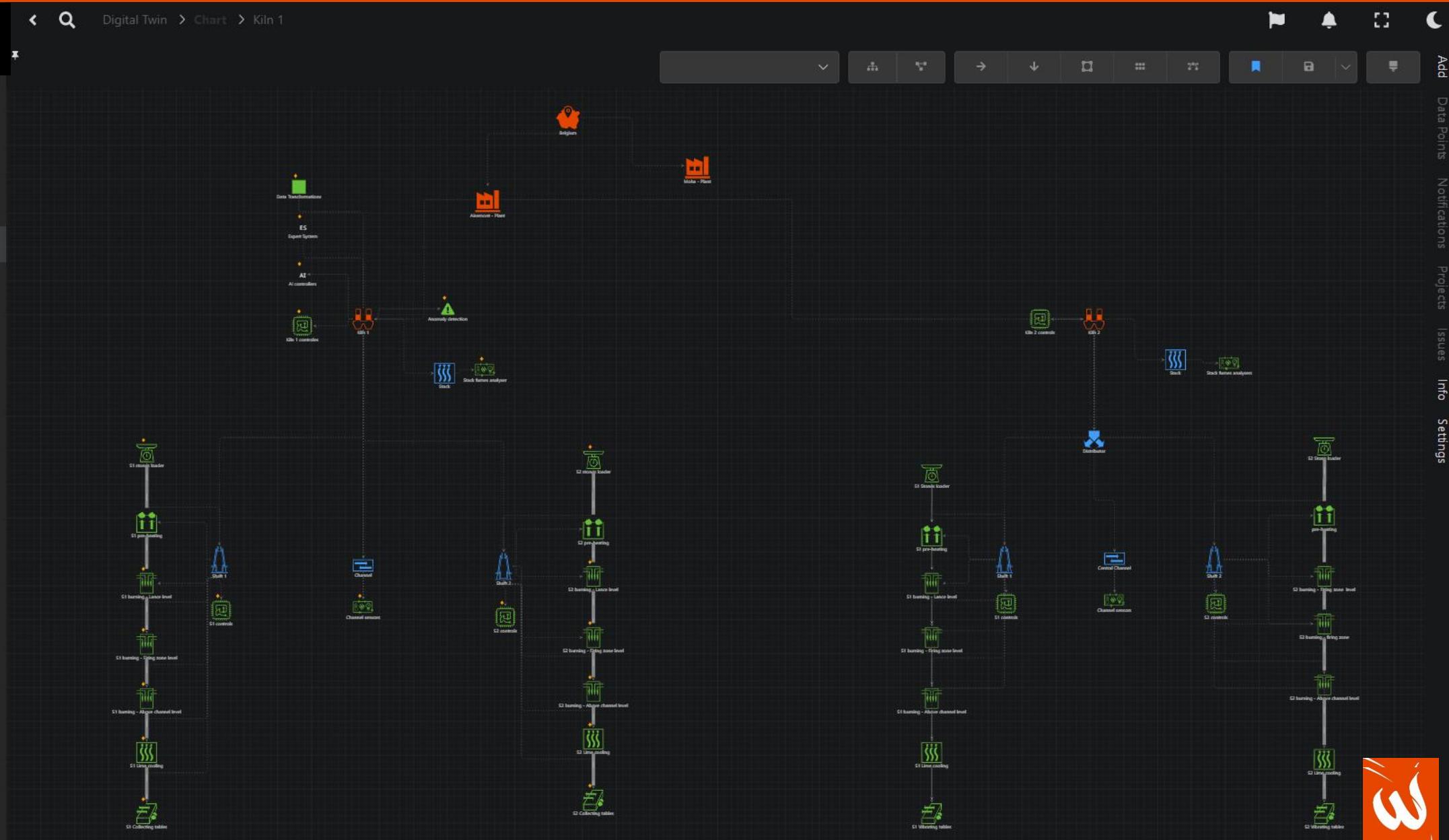
SUCCESS STORY – LIMESTONE



**KILN AUTOMATED WITH AI DEVELOPED ON WIZATA PLATFORM,
CURRENTLY SCALING THE SOLUTION ACROSS EUROPE**



SUCCESS STORY – LIMESTONE – DIGITAL TWIN



SUCCESS STORY – LIMESTONE - RESULTS





WIZATA

Let's talk !

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