PLUTO ANALYTICS

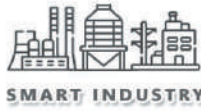MONITORING - REPORTING - ANALYSIS

DIGITAL REVOLUTION

SMART SYSTEM

SIMPLE, FAST & INTELLIGENT

INTRODUCTION

PLUTO ANALYTICS IS A SOFTWARE PRODUCT THAT CAN LEVERAGE ALL YOUR DATA TO CREATE SMART SYSTEM APPLICATIONS. IT'S THE BEST CHOICE FOR **ENERGY**, **BUILDING** AND **INDUSTRY** MANAGERS WHO WANT TO GET VALUABLE ANALYTICS FROM BUILDINGS, FACTORIES AND MACHINERY.

THE POWER OF ANALYTICS

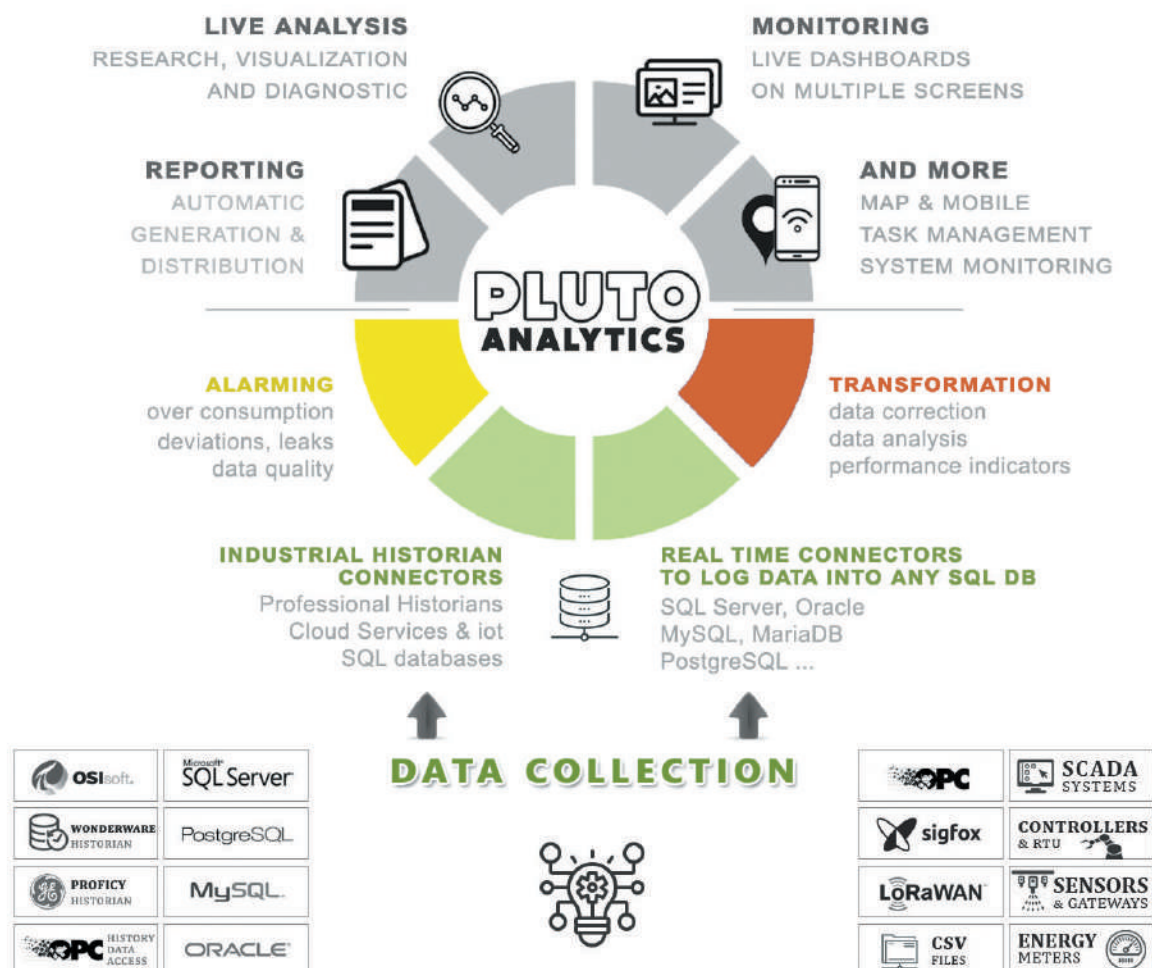SMART BUILDING   SMART INDUSTRY   SMART MACHINE

WHY PLUTO ANALYTICS ?

- ✓ BECAUSE IT'S A NO CODE PRODUCT, **SIMPLE** AND TOTALLY CONFIGURABLE
- ✓ BECAUSE IT CAN BE INSTALLED **ON PREMISE** OR **IN THE CLOUD**
- ✓ BECAUSE IT'S AN **INDEPENDANT SOLUTION** LEVERAGING DATA FROM ANY SOURCE

PLUTO PUT IT ALL TOGETHER !

WEB APPLICATIONS

LIVE ANALYSIS
RESEARCH, VISUALIZATION AND DIAGNOSTIC

MONITORING
LIVE DASHBOARDS ON MULTIPLE SCREENS

REPORTING
AUTOMATIC GENERATION & DISTRIBUTION

AND MORE
MAP & MOBILE TASK MANAGEMENT SYSTEM MONITORING

PLUTO ANALYTICS

ALARMING
over consumption deviations, leaks data quality

TRANSFORMATION
data correction data analysis performance indicators

INDUSTRIAL HISTORIAN CONNECTORS
Professional Historians Cloud Services & iot SQL databases

REAL TIME CONNECTORS TO LOG DATA INTO ANY SQL DB
SQL Server, Oracle MySQL, MariaDB PostgreSQL ...

DATA COLLECTION

OSIsoft. | Microsoft SQL Server
WONDERWARE HISTORIAN | PostgreSQL
GE PROFICY HISTORIAN | MySQL
OPC HISTORY DATA ACCESS | ORACLE

OPC | SCADA SYSTEMS
sigfox | CONTROLLERS & RTU
LoRaWAN | SENSORS & GATEWAYS
CSV FILES | ENERGY METERS

SCADA SYSTEMS: CIMPLICITY, CITECT, IFIX, IGNITION, INDUSOFT, INTOUCH, FACTORY TALK, PANORAMA, PCVUE, TOPKAPI, WINCC, DESIGO...
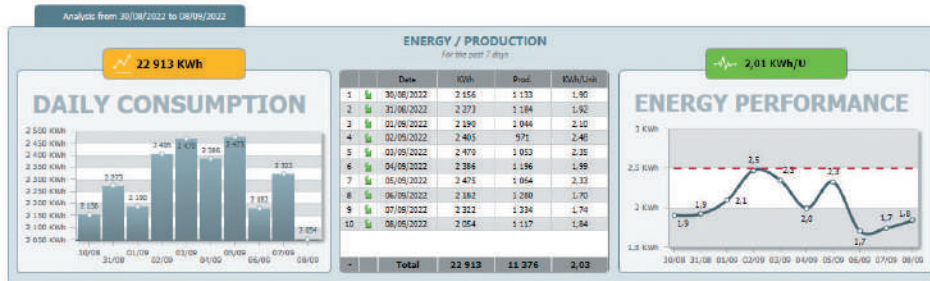
REAL TIME SOURCES: OPC DA / UA, EWON, SIEMENS OZW, AEMP IOT, LINKY , MATRIKON, KEPWARE (MODBUS,BACNET, ETHERNET IP...)
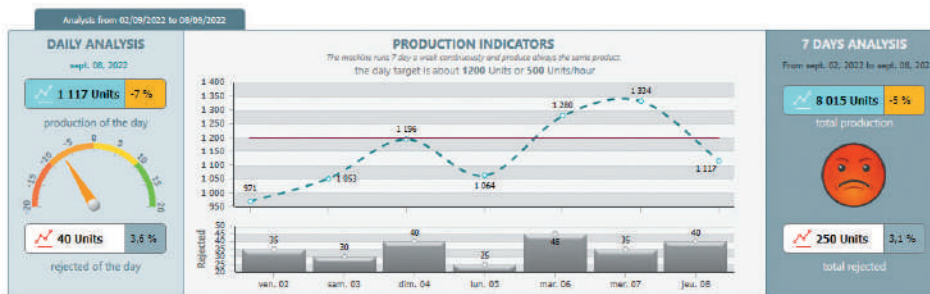
PLUTO MAIN USE CASE

ENERGY MANEGEMENT

THE MAIN OBJECTIVE FOR MOST COMPANIES IS TO MEASURE, MANAGE AND SAVE ENERGY AND THEY HAVE FOUND WITH PLUTO A USER-FRIENDLY WAY TO DO IT QUICKLY. ENERGY MANAGERS CAN EASILY COLLECT, AGGREGATE AND COMPARE VALUES TO DETECT OVERCONSUMPTION AND GET ALARMS IN CASE OF ANY DEVIATIONS. THE OTHER MAJOR ADVANTAGE IS THE SIGNIFICANT SAVING OF WORKING TIME.
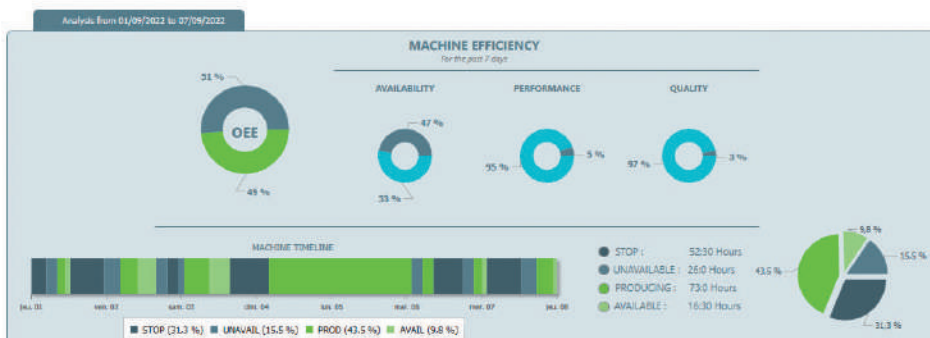

PRODUCTION & PROCESS ANALYSIS

PLUTO INTEGRATES MOST DATA CONNECTORS TO GET PRODUCTION METRICS. RELATED WITH ENERGY CONSUMPTION, COMPANIES CAN ANALYZE THE PERFORMANCE OF THEIR FACILITIES AND OPTIMIZE THEIR ENERGY EFFICIENCY. MOREOVER, PLUTO IS ALSO USED FOR METROLOGY TO VISUALIZE AND CONTROL THE EVOLUTION OF ALL TYPES OF PROCESSES.

OEE ANALYSIS

PLUTO ENABLES TO CONTINUOUSLY CALCULATE QUALITY, PERFORMANCE AND AVAILABILITY OF THE PRODUCTION IN ORDER TO MONITOR AND ANALYZE THE PLANT EFFECTIVENESS IN REAL TIME. OBJECTS SUCH AS PIES AND TIMELINES INTEGRATES ALL NEEDED FUNCTION TO CALCULATE THE OEE IN FEW CLICKS.

PLUTO IS AN INTEGRATED SOLUTION FOR THE GLOBAL DIGITALISATION OF ANY FACTORY OR BUILDING. IT OFFERS INTUITIVE USERS INTERFACES AND A STEP-BY-STEP METHODOLOGY TO BE ADOPTED BY ANYBODY AFTER A FEW HOURS OF PRACTICE AND TRAINING.

THE PRODUCT IS DIVIDED IN 2 MAIN SECTIONS, THE FIRST TO MANAGE THE DATA AND THE SECOND TO CONFIGURE THE APPLICATIONS.

DATA MANAGEMENT

1. DATA AGGREGATION

PLUTO IS A MASS DATA AGGREGATOR CAPABLE OF CONNECTING AND COLLECTING DATA FROM MOST OF AUTOMATION SENSORS, METERS, CONTROLLERS AND SCADA SYSTEMS. THE BIG BENEFIT OF THE PRODUCT IS TO LEVERAGE DATA FROM MULTIPLE VENDORS.

DATA CONNECTION

PLUTO SUGGESTS MULTIPLE NATIVE DRIVERS ENABLING TO CONNECT AND LEVERAGE DATA AND ALARMS FROM EXISTING DATABASES AND HISTORIANS.

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DATA COLLECTION

PLUTO INTEGRATES DRIVERS AND ADVANCED TECHNOLOGIES TO LOG DATA INTO SQL DATABASE FROM

- REALTIME DRIVERS
- IOT & WEB SERVICES CONNECTIONS
- MANUAL DATA AND CSV FILES

2. DATA INTELLIGENCE

PLUTO ENABLES TO TURN RAW DATA INTO VALUABLE INFORMATION. CONFIGURABLE MODULES ENABLES TO CREATE KPI & ALARMS IN FEW CLICKS.

ANALYTICS

PLUTO COMBINES THE BEST MATH EXPRESSIONS LANGUAGE AND A QUERY ENGINE CAPABLE TO EXTRACT ADVANCED VALUES FROM ANY DATA CONNECTED TO THE PROJECT.

THEREFORE IT'S FAST AND EASY TO AUTOMATICALLY CREATE POWERFUL STATISTICS AND ANALYTICS TO FEED A CLEAN AND ACCURATE NEW DATABASE.

ALARMS

PLUTO PROVIDES A SIMPLE ALARM MODULE FOR BOTH REAL TIME VALUES AND DATA ARCHIVED IN A DATABASE.

THIS MODULE ENABLES TO NOTIFY MULTIPLE RECIPIENTS IN CASE OF ANY DEVIATION, OVER-CONSUMPTION , LEAKS AND MORE...
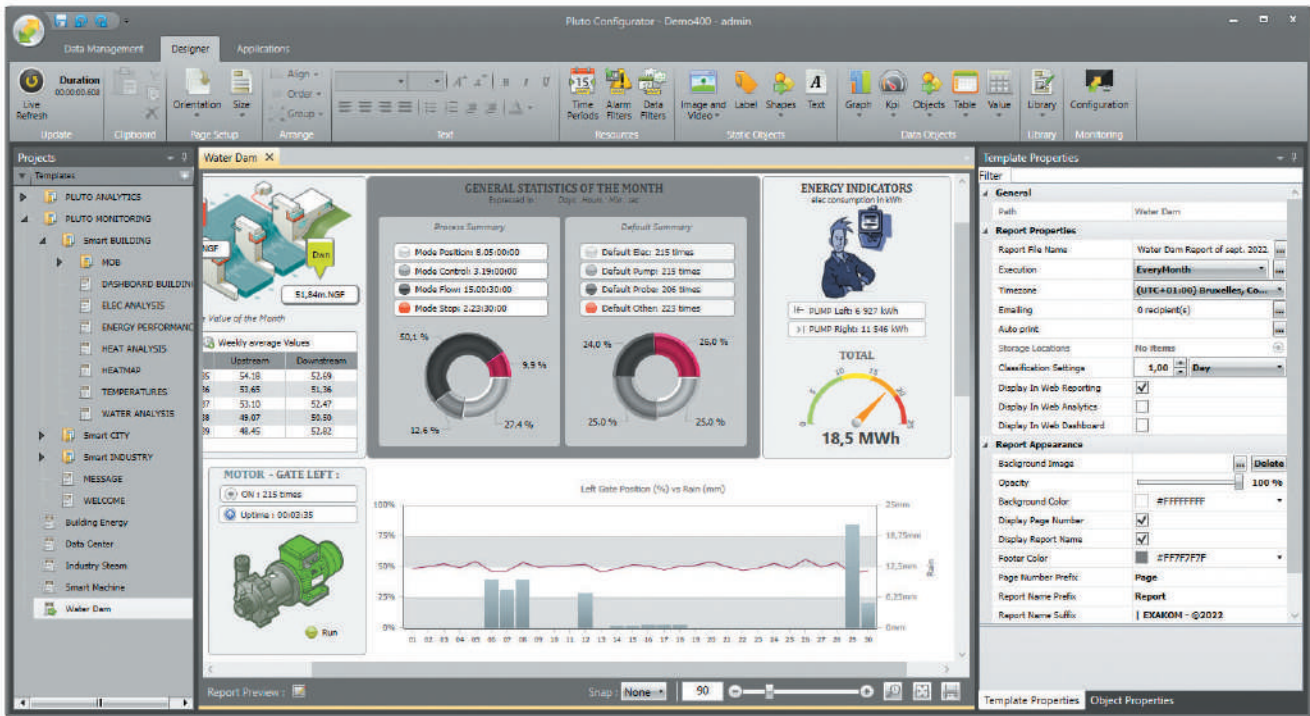
3. DATA TRANSFORMATION

PLUTO SUGGESTS TO CREATE NEW CLEAN SQL DATABASES FROM EXISTING DATA REPOSITORIES. THE GOAL IS TO LEVERAGE MILLIONS OF DATA ARCHIVED SINCE YEARS AND TRANSFORM IT INTO POWERFUL ANALYTICS.
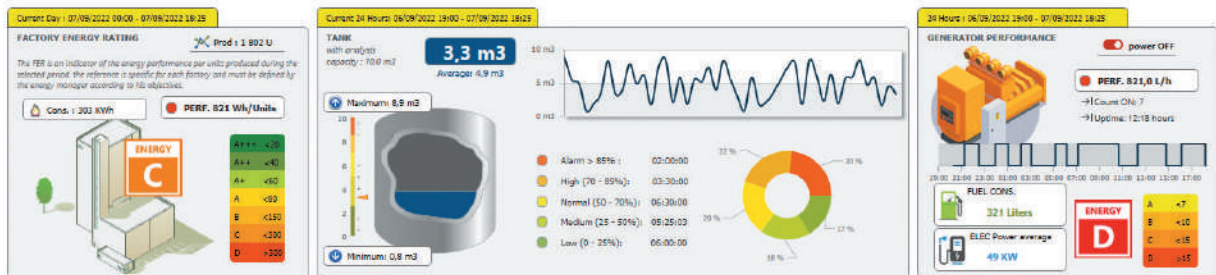
MOREOVER, IT'S ALSO POSSIBLE TO RENAME ALL TAGS AND CREATE A NEW ORGANIZATION TO FACILITATE THE CONFIGURATION. THE GOAL IS TO HAVE A SIMPLE AND INTELLIGENT TAG ARCHITECTURE FOR THE BENEFIT OF ALL USERS.

APPLICATIONS

PLUTO SUGGESTS A FRIENDLY CONFIGURATION TOOL THAT DOESN'T REQUIRE ANY SPECIFIC COMPETENCES TO CREATE **DASHBOARDS**, **REPORTS** AND **MOBILE** APPLICATIONS.
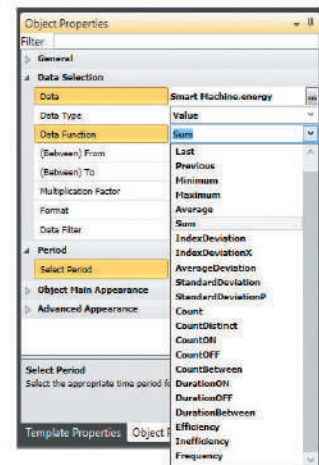

AN IMPRESSIVE LIBRARY ENABLES TO CREATE TEMPLATES AND OBJECTS IN FEW MINUTES WITH A PROFESSIONAL RESULT.

THE CONFIGURATION

THE WHOLE CONFIGURATION FOR EVERY OBJECT IS DONE THROUGH A LIST OF PROPERTIES ENABLING TO SELECT THE **TAG**, THE STATISTICAL **FUNCTION** AND THE **PERIOD**.

ALL OTHER OPTIONS ENABLE TO ADJUST THE DESIGN OF ANY OBJECT FOR A PROFESSIONAL RESULT (ICON, FONT, SIZE, COLOR, CAPTION, TITLE...)
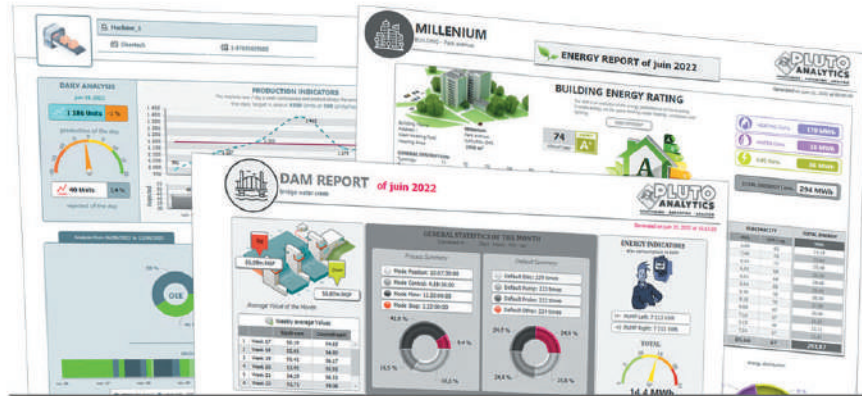

THE STATISTICAL FUNCTIONS

* FUNCTIONS FOR **ENERGY** ANALYSIS: INDEX DEVIATION, WEIGHTED AVERAGE, SUM, COUNT ...

* FUNCTIONS FOR **PROCESS** ANALYSIS: MIN, MAX, AVERAGE, PREVIOUS, STANDARD & AVERAGE DEVIATION ...

* FUNCTIONS FOR **OEE** & **MAINTENANCE** ANALYSIS: UPTIME, DOWNTIME, EFFICIENCY, DURATION & COUNT ...

PLUTO ENABLES TO DEVELOP SEVERAL APPLICATIONS

AUTOMATIC REPORTING

PLUTO CAN AUTOMATICALLY GENERATE AND DISTRIBUTE MULTIPLE REPORTS TO MULTIPLE RECIPIENTS. ALL REPORTS ARE ALSO AVAILABLE IN THE PLUTO WEB APPLICATION AND CAN BE DOWNLOADED IN **PNG, XLS** AND **PDF** FORMATS.

DASHBOARD & MONITORING

PLUTO ENABLES TO CREATE MONITORING APPLICATIONS WITH MULTIPLE DASHBOARDS. THOSE MONITORINGS ARE EXECUTED IN REAL TIME TO VISUALIZE THE EVOLUTION OF ANY INDICATOR.

MOREOVER, COMPANIES CAN CREATE SAFETY, AWARENESS AND BEST PRACTICES SCREENS BY INSERTING IMAGES AND VIDEOS EVEN FROM THE CLOUD.

WEB ENABLE THEY CAN BE DISPLAYED IN MULTIPLE SCREENS ANYWHERE FROM ANY WEB BROWSER.
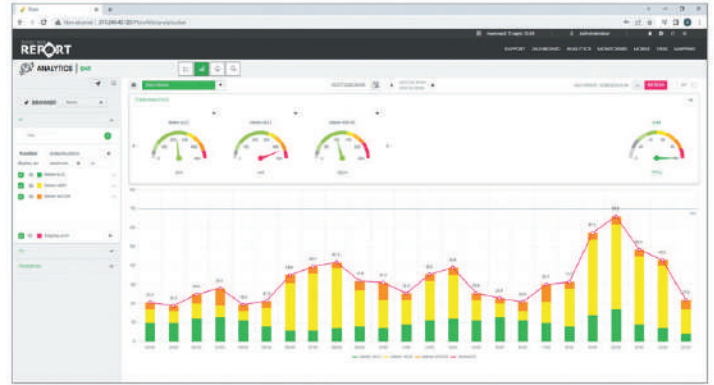
MOBILE APPS

WITH THE SAME DESIGNER APPLICATION TOOL, COMPANIES CAN CREATE UNLIMITED MOBILE CARDS WITH ANY KIND OF ANALYTICS INSIDE.

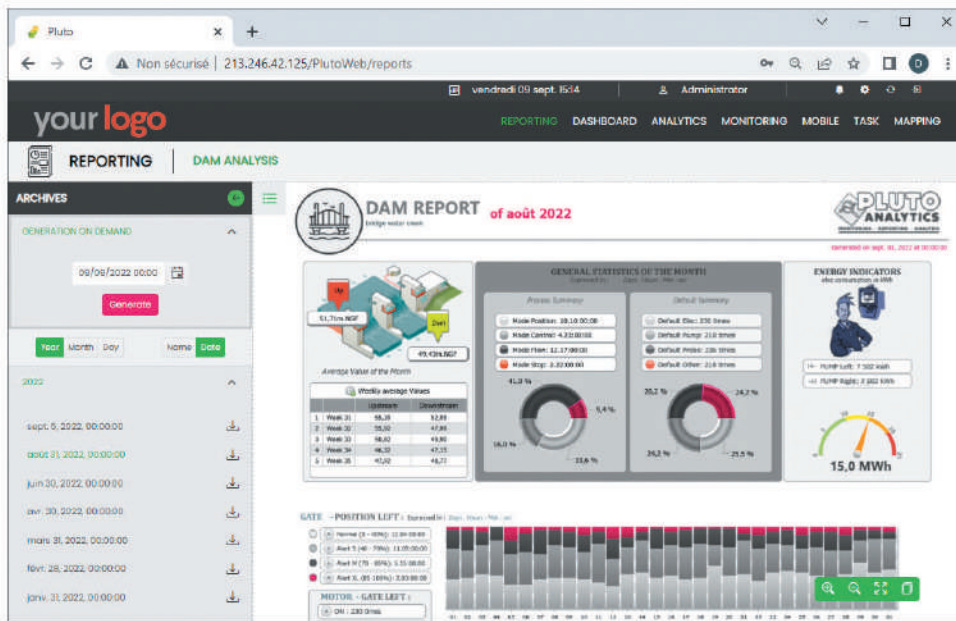THEREFORE, THEY CAN SET-UP PASSWORD PROTECTED MOBILE APPS FOR MULTIPLE USERS.

PLUTO WEB

PLUTO WEB SUGGESTS ANALYTICS IN MULTIPLE APPS TO UNLIMITED USERS.

1. **REPORTING** : VISUALIZE, COMPARE AND DOWNLOAD

2. **DASHBOARDS** : KPI VISUALIZATION ON DEMAND

3. **MONITORING** : AUTOMATIC DASHBOARD PLAYER

4. **LIVE ANALYTICS** : INTERACT WITH DATA & ALARMS

5. **MOBILE APPS** : ANALYTICS FOR SMARTPHONES

6. **MAPS** : ASSETS OVERVIEW IN GOOGLE MAPS

7. **TASKS** : ACTIONS MANAGEMENT WITH PROGRESS

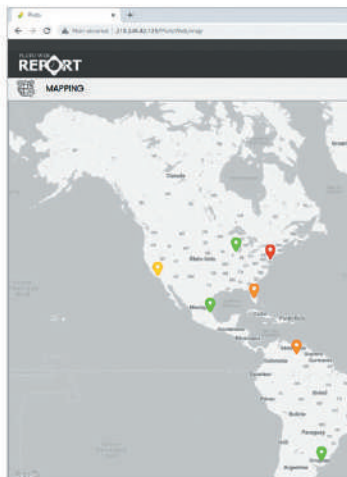8. **QUALITY** : APPLICATION & DATABASE MONITORING

LIVE ANALYTICS

WEB REPORTING

PLUTO WEB BENEFITS

- UNLIMITED USERS
- PASSWORD PROTECTED
- MULTI-LANGUAGE
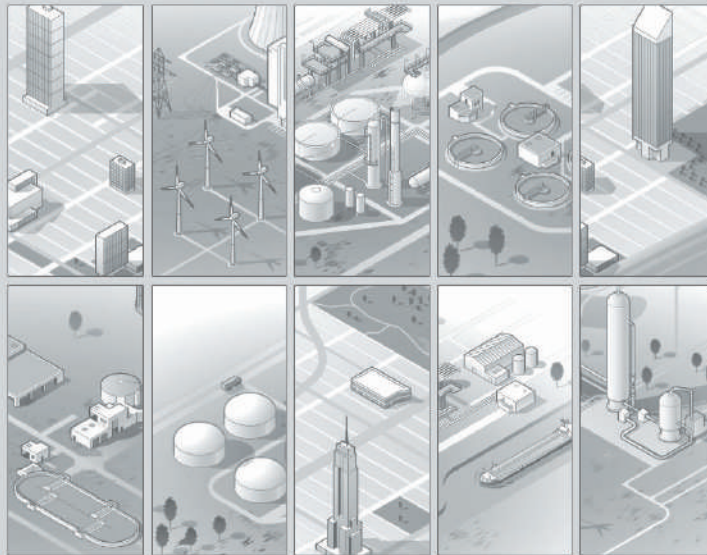- RESPONSIVE
- CUSTOMIZABLE

WEB MAP

WEB DASHBOARD

EXAKOM

EXAKOM IS A SOFTWARE PUBLISHER SPECIALIZING IN SMART SYSTEM FOR THE PERFORMANCE OF FACTORIES AND BUILDINGS. ITS FLAGSHIP PRODUCT IS PLUTO ANALYTICS, A MODERN AND ROBUST SOFTWARE TO COLLECT AND MANAGE ALL PLANT DATA WITH STATE-OF-THE-ART WEB APPLICATIONS. SIMPLE AND FULLY CONFIGURABLE, PLUTO IS THE BEST CHOICE FOR COMPANIES THAT WANT TO SUCCEED IN THEIR DIGITAL REVOLUTION AT A LOWER COST.

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www.exakom.com - contact@exakom.com