

TrendMiner Industrial Analytics





MISSION

Enable everyone at the production shop floor to make faster and more informed data-driven decisions, providing a platform that is:

- **Fast & Intuitive**
- **Interactive & Collaborative**
- **Ideal to generate, enhance and scale critical industrial expertise**





INDUSTRIES



Chemicals Manufacturing



Energy



Utilities & Facility



Food & Beverages



Discrete Manufacturing



Metals, Mining & Materials



Life Sciences

BASF
We create chemistry

ZEISS

Nestlé

Heraeus

INEOS

Pfizer

OQ

waternet

Dominion Energy





CUSTOMER EXPERIENCE

ARKEMA

EFFICIENCY GAINS

20%+ More efficient to solve more and more complex use cases



AVAILABILITY & RELIABILITY

50% Downtime Reduction in only 4 hours

HUNTSMAN

QUALITY IMPROVEMENT

75% decrease in off-spec production



ENERGY EFFICIENCY

6% decrease in energy consumption



YIELD INCREASE

10% Increase in overall Production Capacity



EMISSION REDUCTION

8% higher unit utilization and 15% reduction in SO2 emissions

CLARIANT

CYCLE TIME REDUCTION

10% Batch cycle time reduction = 1 extra cycle/ day

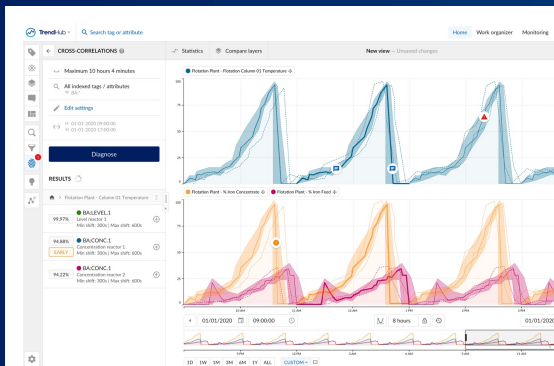


LOSS REDUCTION

Up to \$1 million+ yearly savings

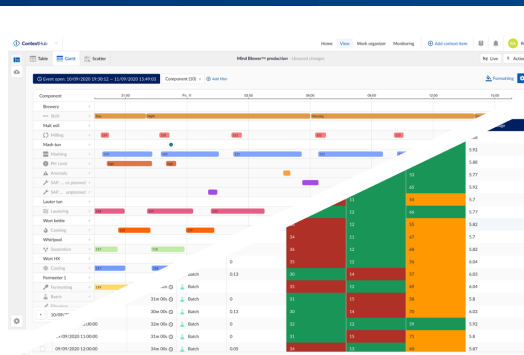


TRENDMINER ANALYTICS PLATFORM



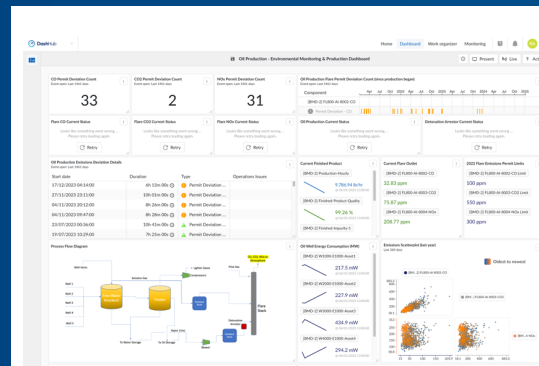
Time-series analytics

- Google Like Search for Root Cause Analysis
- Pattern Recognition, Filtering & Layer Compare, Golden Fingerprints
- Monitor Best Operating Zones, Early Warnings & Notifications
- Model-free Prediction & Predictive Maintenance



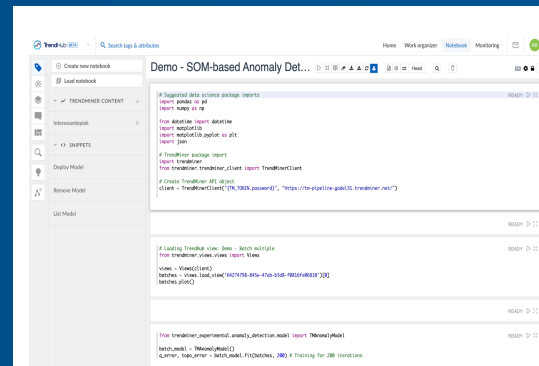
Event analytics

- Analytics for all contextual data from TrendMiner and 3rd party applications (batch, quality, production, maintenance, shift,...)
- Drill-down from process events to underlying timeseries
- Capture knowledge by hand or fully autonomous



Dashboarding

- Summarize trends, context, alarms and value indicators
- Prioritize areas of interest
- Facilitate ceremonies (e.g. Shift-handovers, production meetings)
- Share and collaborate
- Reporting



Full code environment

- Leverage python libraries for advanced analytics and machine learning
- Cleanse, prepare and enhance data by working with your time-series and event data as dataframes.
- Generate interactive graphs that can be shown directly on dashboards



OPERATIONAL RISK

PROFITABILITY

MARKET DYNAMICS

Lack of scaled outcomes without industrial analytics

CONTINUOUS
IMPROVEMENT

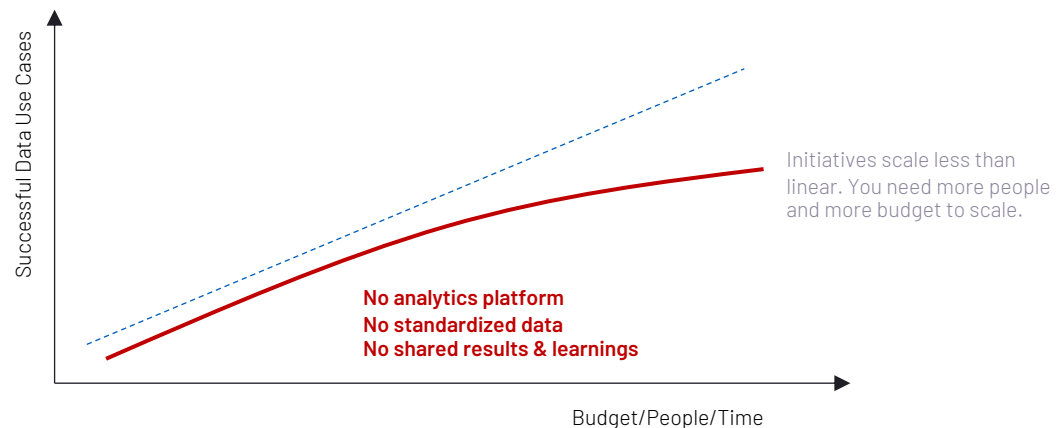
Data not used to
potential

Experts underutilized

Little collaboration
of engineers &
operators

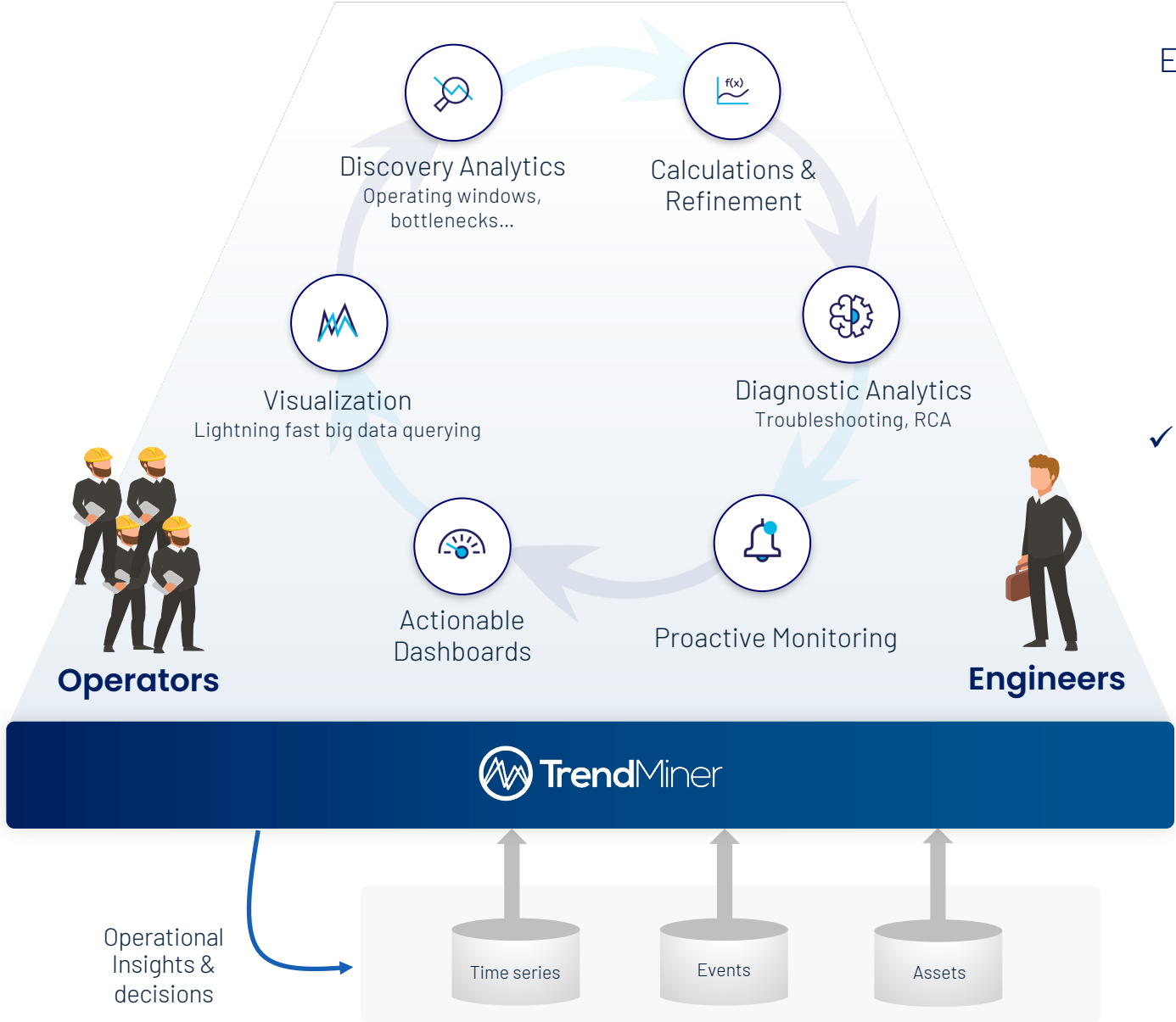
Shortage of time
for analytics
projects

No productivity
increase
(Shifting
demographics)





INDUSTRIAL ANALYTICS



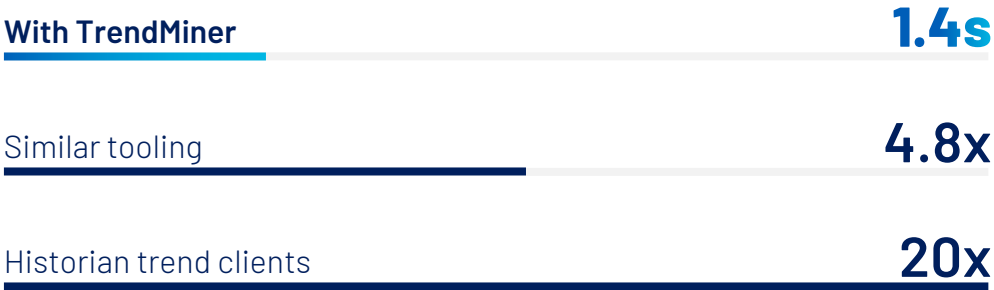
Enable everyone at the production shop floor to make faster and more informed data-driven decisions, providing a platform that is:

- ✓ **Fast & Intuitive**
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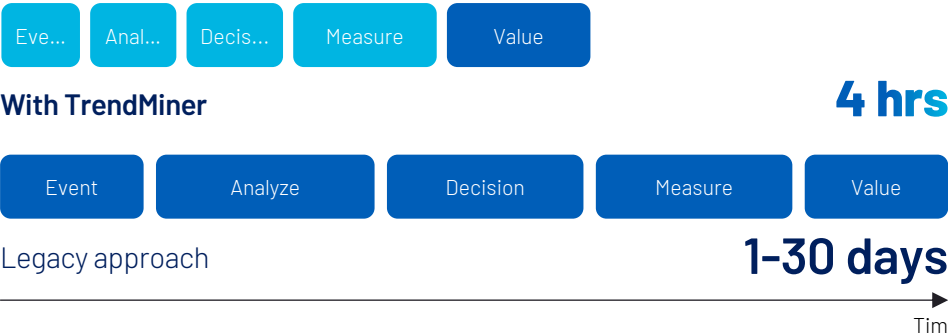
Searching through 5 years of data across multiple variables



SPEED is kind of our thing.

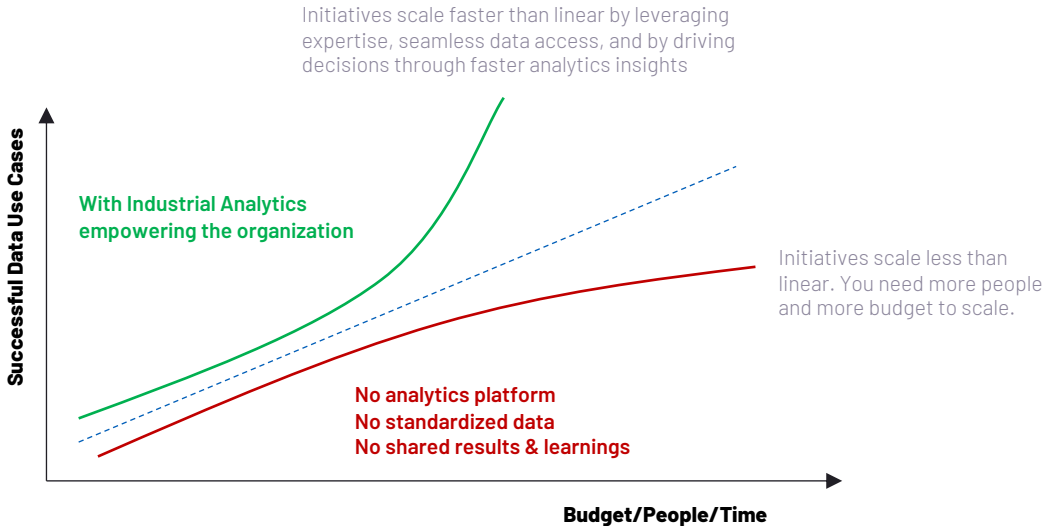
With **exceptional** time-to-value

Accelerate time from event to value implemented



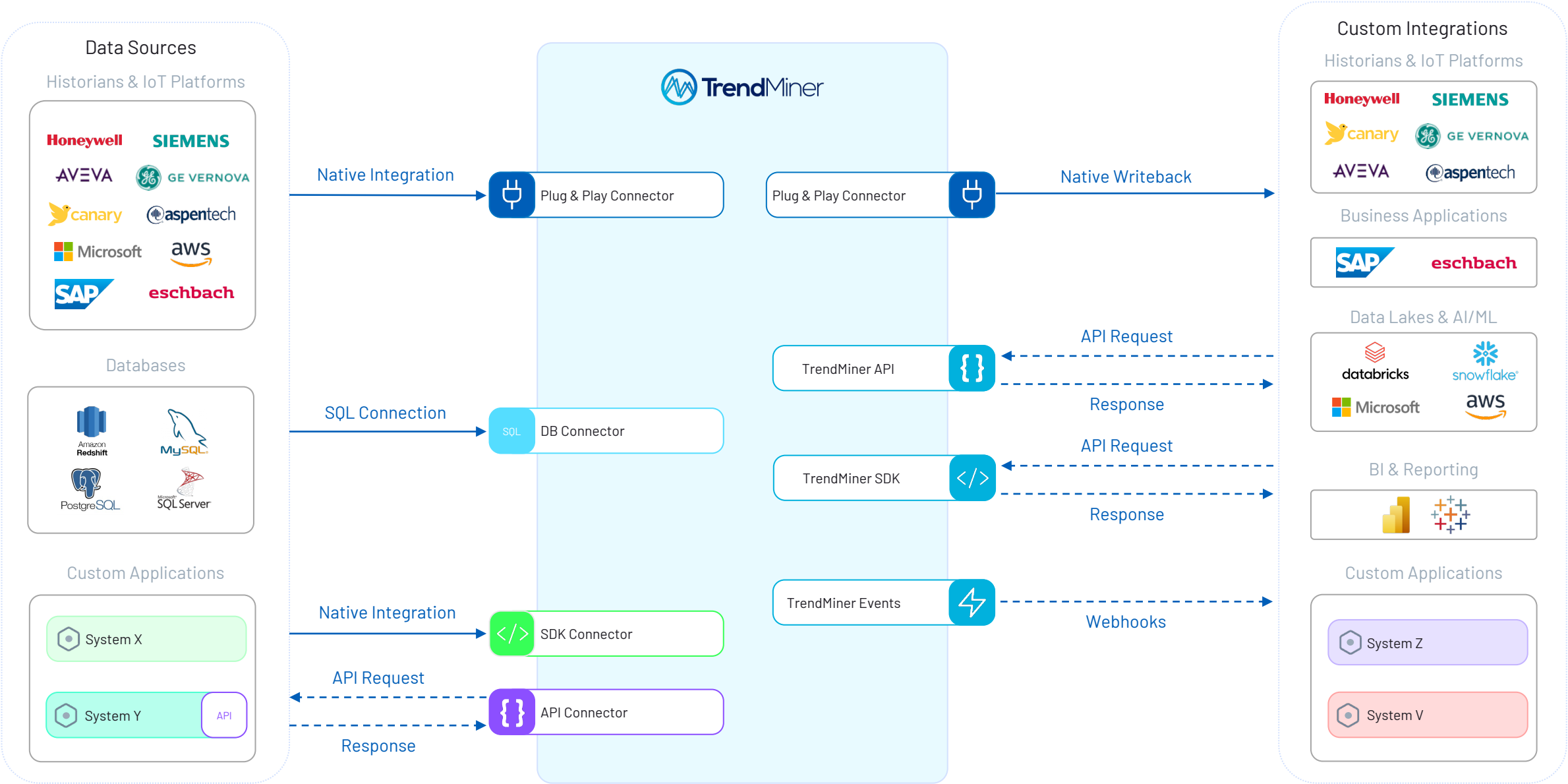


Scaling outcomes with industrial analytics





INTEGRATION ECOSYSTEM



OUTCOMES WE SERVE

ASSET PERFORMANCE MANAGEMENT

Emission
Monitoring

Asset Health
Monitoring

Preventative & Predictive
Maintenance

Remaining Useful Life
Optimization

Fouling
Detection

OPERATIONS PERFORMANCE MANAGEMENT

Line Balancing / Storage
Management

Batch Cycle
Time Reduction

CIP
Optimization

Golden Batch, Quality
and Transmission
Monitoring

Energy optimization

Process optimization

REPORTING, COMPLIANCE & SAFETY

Project Viability
Assessment

Aligning Inventories, Costs and
Identifying Waste

Compliance and
Audit Reporting

Plant Availability
Reporting

Material Loss
Detection

Product Quality
Monitoring



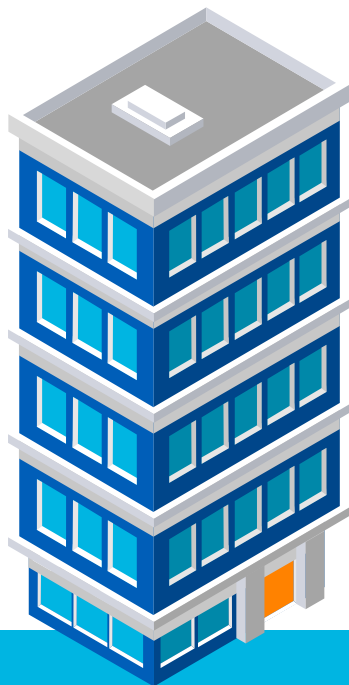
ACCELERATE BUSINESS VALUE TOGETHER

100

Employees in
5 countries

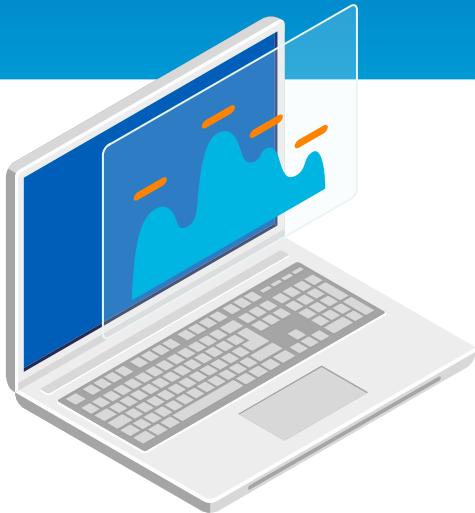
5

Offices around
the world



100+

Satisfied blue chip
companies



2008

The founding year
Almost 2 decades of
experience

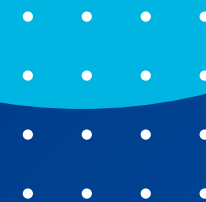
1000+

Successful solutions
and use cases rolled
out

A leader

Award winning data
analytics software





Thank you