

The fourth industrial revolution – Industry 4.0 – is primarily driven by data and AI. Thanks to IoT and automation, companies have access to unprecedented volumes of data about their assets and process. Legacy data architectures and analytical tools, however, are falling short in putting this data to full use. The right platform, on the other hand, can dramatically accelerate the time-to-value in Industrial AI and IoT implementations.

BENEFITS OF INDUSTRIAL ANALYTICS

Full Visibility into Operations

– by combining process, asset and business data

Lower Operational Costs

– by up to 40% through data-driven optimization

Increased Product Quality

– using predictive quality control models

Discover Future Revenue

– growth and new business models

4POINTX PLATFORM ADVANCED CAPABILITIES

Self-service Machine Learning

for anomaly detection and forecasting

Big Data stream analytics engine

with hot and warm storage

Self-service reporting

for custom dashboards and live shop floor KPIs

Data Science Workbench

for custom algorithms and ML solutions

Secure sharing of data

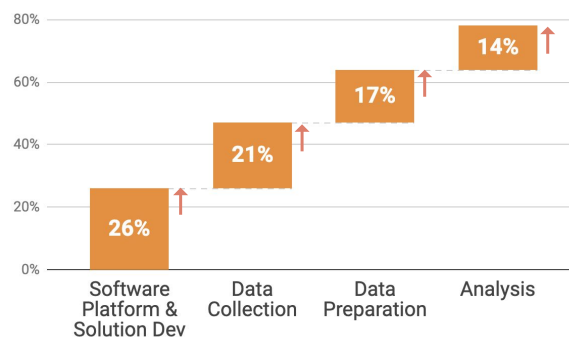
with other applications

Industrial Analytics for Digital Transformation

Industrial Analytics (IA) is continuous collection and usage of data generated in industrial operations for optimizing costs, increasing efficiency and eventually gaining a competitive advantage through differentiated products & services.

Companies today acknowledge the huge importance of industrial analytics but only very few are completely setup.

Major costs in IoT projects



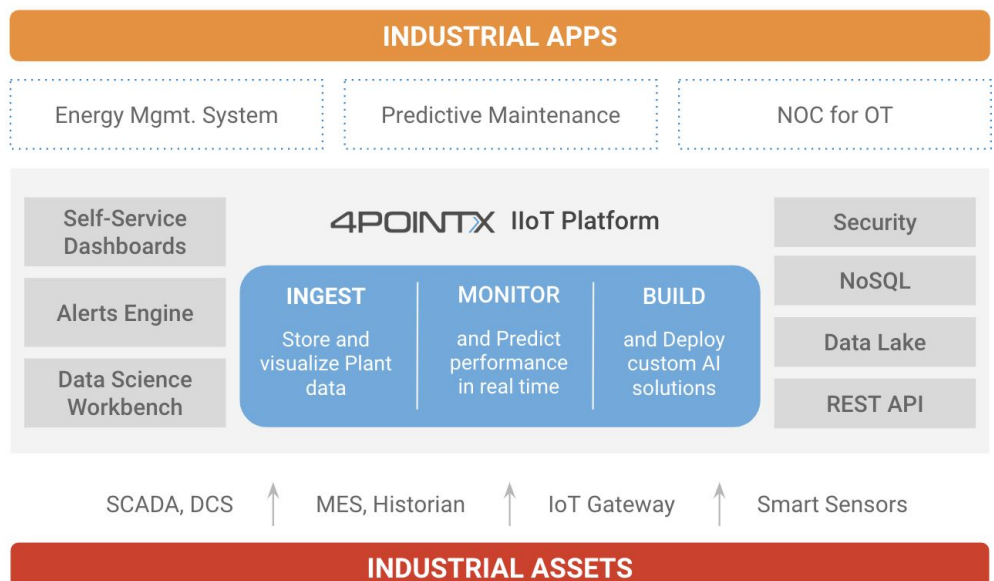
One-third of IoT solutions will be abandoned before deployment due to lack of data management and analytics capabilities adapted for IoT.

- Gartner, How IoT Impacts Data and Analytics, March 7, 2018

Biggest skill gap is *Data Science* followed by *IoT/M2M infra*

4Pointx Platform for Industrial Analytics

The 4Pointx Platform converges the three crucial technologies - IoT, Big Data and AI - into a unified architecture that enables collection, storage and analysis of industrial operations data at scale. A DIY approach, on the other hand, requires high CapEx, OpEx and can take 18 months to production.



Case Studies

A Large Steel Pipes Manufacturer that supplies to oil rigs was able to increase equipment availability and reduce welding defects within six months of rolling out the 4Pointx Industrial Analytics Platform.

Equipment Availability increased by 22%

Defects reduced by 17% per pipe-mile

A Large Steel Wires Manufacturer contacted 4Pointx to consolidate their legacy EMS's into a unified process-aware integrated EMS.

4Pointx EMS Benchmarking tool guided the operators on ideal consumption for a given product/ process spec. Timely alerts on abnormal consumption helped minimize wastage.

4Pointx Platform Data Science Workbench & Self-service Reporting helped deliver advanced energy insights for continuous monitoring.

Energy cost reduced by 7.2 kWh/ton for WRM mill

Energy Demand Variation (plan vs. actual) reduced to 6%

4POINTX PLATFORM DIFFERENTIATORS

- **Flexible Deployment & Scalability:** 4Pointx Platform can be deployed on premises, on cloud or accessed as SaaS. Integrates with your SCADA, DCS and MES. Features multi-plant tenancy and scales to 1000's of equipment.
- **Enterprise-grade Security:** 4Pointx Platform features role-based access control (RBAC), integrates with AD/LDAP authentication, and provides data encryption and audit logging.
- **One Platform. Many Solutions:** 4Pointx Platform can host multiple solutions that thrive on real-time process and asset data. E.g., Energy Mgmt, CBM, Predictive Maintenance, Quality and other process optimization solutions.
- **Developer Friendly & Open Architecture:** 4Pointx Platform uses standard REST APIs and JSON, and supports many languages such as Java and Python for building custom algorithms specific to your ops.

Industry 4.0 Solutions on the 4Pointx Platform

PREVENTING UNPLANNED DOWNTIME

4Pointx Predictive Maintenance solution uses advanced anomaly detection (based on asset behavioral signatures) to predict equipment failure well in advance.

Our solution beats legacy statistics- & physics-based models by preventing even rare failures.

ICS SECURITY & ADVANCED VISIBILITY

Gain visibility into your ICS/ SCADA network, track utilization of HMI and Level 3 systems, and monitor uptime of IT services within OT.

4Pointx OT SOC & NOC solution integrates with leading ICS security tools viz Nozomi, Sentryo & Claroty.

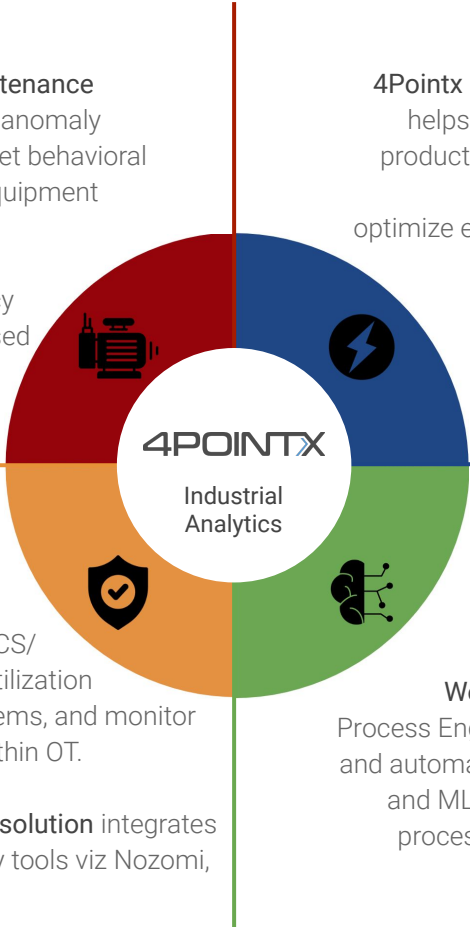
OPTIMIZING ENERGY CONSUMPTION

4Pointx Energy Mgmt. System helps reduce wastage, align production output with energy consumed, and optimize electrical loads without impacting process.

Prerequisite: Smart Meters deployed

PRODUCTION PROCESS OPTIMIZATION

4Pointx Data Science Workbench (DSW) helps Process Engineers to rapidly build and automate custom algorithms and ML pipelines on real-time process data to optimize the shop floor operations.



CONTACT US

Visit: www.4pointx.com
Twitter: twitter.com/4pointx

Email: info@4pointx.com
Phone: (+1) 844 4POINT1