

TREDENCE

 Microsoft
Solutions Partner
Data & AI
Azure

Smart Manufacturing →

Enable smart manufacturing with our AI Driven Industry X.0 Solutions

#BeyondPossible



Tredence is a **Data & AI** consulting firm, driving value realization by enabling the **last mile adoption of insights**

- 2000+** **AI & Tech specialists** supporting businesses across functions by delivering contextualized, high impact solutions
- 50%** Accelerator led solutions that **improve time to value by +50%** vs. traditional consulting and technology service companies
- 94%** **Best in class 94% NPS** customer satisfaction score driven by our laser focus on empowering decisions to help our clients win

 **6 of the top 10 Retailers and CPGs in the World Trust Tredence to Power their AI Strategy**



“Leader” in customer analytics



Market guide for data analytics & intelligence platforms in supply chain



Certified as Great Place to Work by GPTW India



Fastest growing US companies 6 years in a row

Servicing industry leading clients across verticals from 14 offices across North America, Europe, Asia, India and Australia with a Center of Excellence in Chicago

Customers

Retail & CPG	Industrial	Telecom & tech	BFSI & publishing

AI Driven Predictive Maintenance

Optimize uptime & performance

Manufacturing teams spend 10-15% of their operations budget on maintenance activities, while still experiencing unexpected, unnecessary stoppages of critical primary & auxiliary equipment

Enhance asset lifespan, uptime & productivity with Tredence's Azure-based Predictive Maintenance Solutions

Our smart manufacturing solutions help companies drive operational efficiency & maximize value from key assets.

- Relevant for all rotating equipment, where vibration is a key leading indicator of potential issues
- Focuses on Risk Based Inspection, rather than Time Based, reducing unnecessary disruptions
- Continuous monitoring of Time to Failure & Remaining Useful
- Can be integrated with CMMS systems to enable smooth scheduling of maintenance activities

Reach out to us at alliances@tredence.com.

Tredence is a data and AI consulting firm that enables the last mile adoption of insights to drive value realization.

Enable smart manufacturing with our AI Driven Industry X.0 Solutions



AI Algorithms

Deep Learning algorithms, trained to detect & classify anomalies



Root Cause Analysis

RCA Engine to quickly pinpoint the source of the problem



Data Wrangling

Scala/Spark structured streaming on Databricks for high-speed compute



IoT Edge Integration

Enable real-time monitoring & insights through streamlined implementation on the Edge



Ops for AI-IoT Edge

Automated pipeline & Governance frameworks for monitoring & troubleshooting

Business Impact



7-10% improvement in equipment uptime

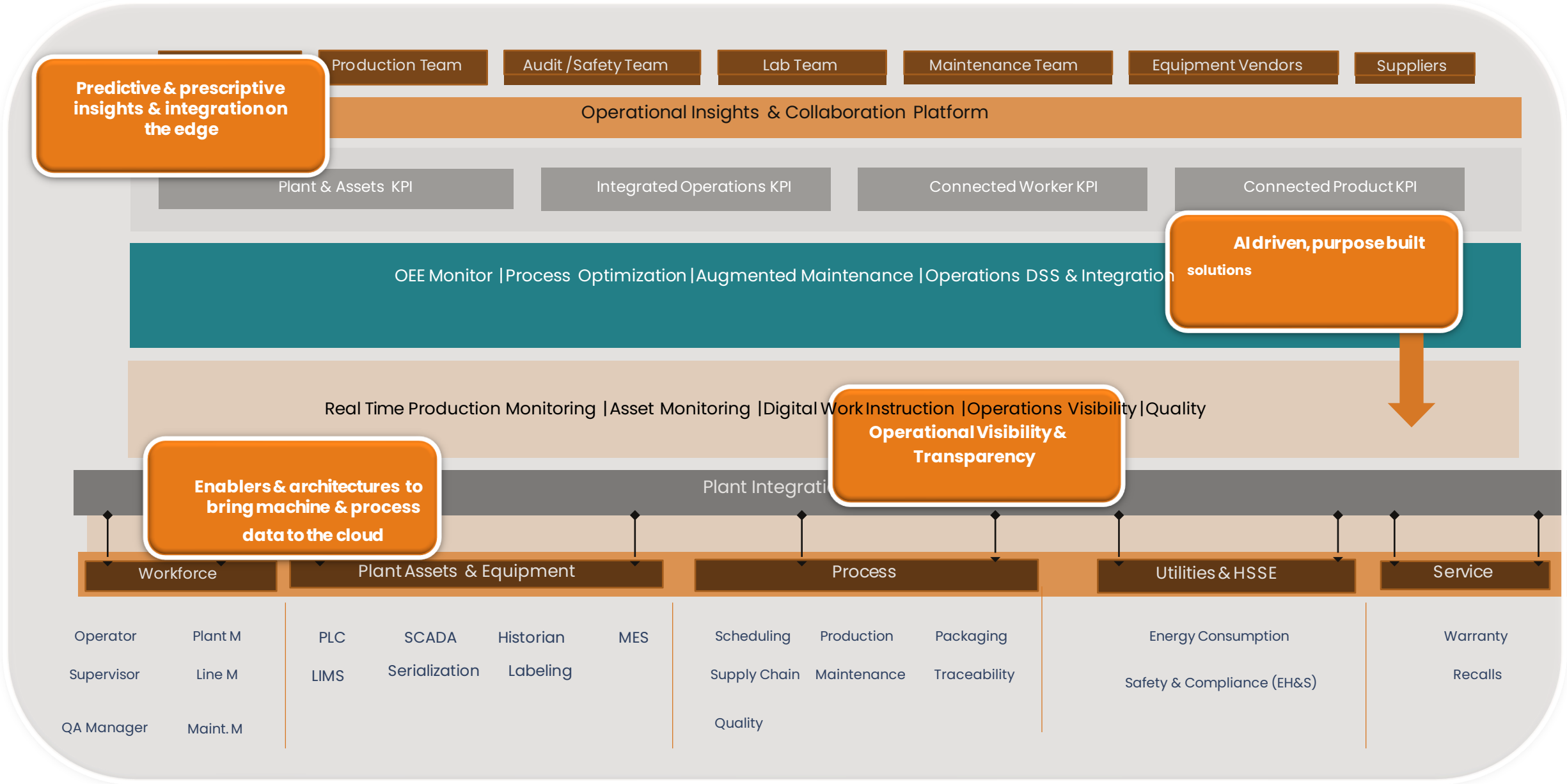


15-20% reduction in maintenance costs

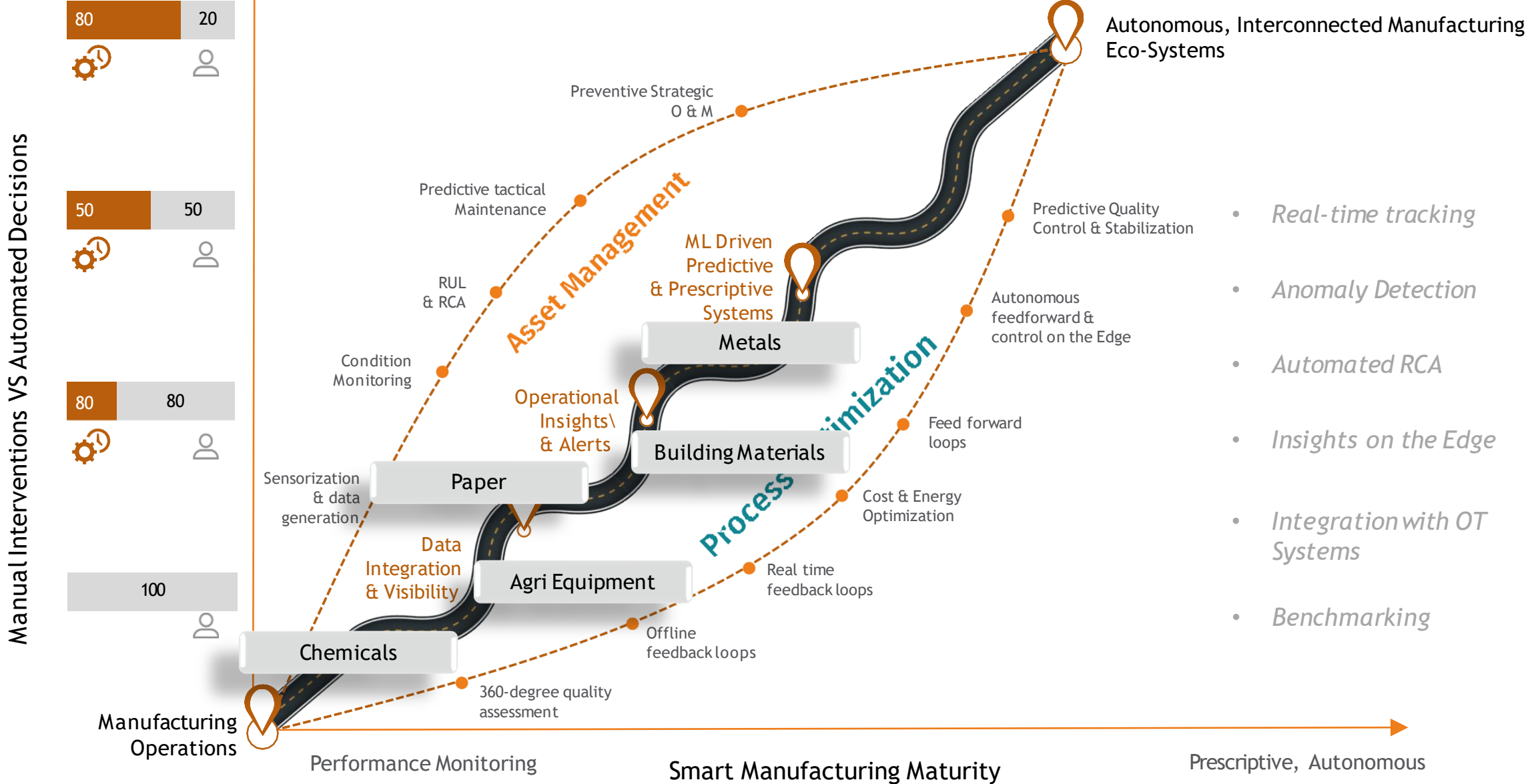


2-4 % reduction in production costs

Smart Manufacturing: Our Solutions Landscape



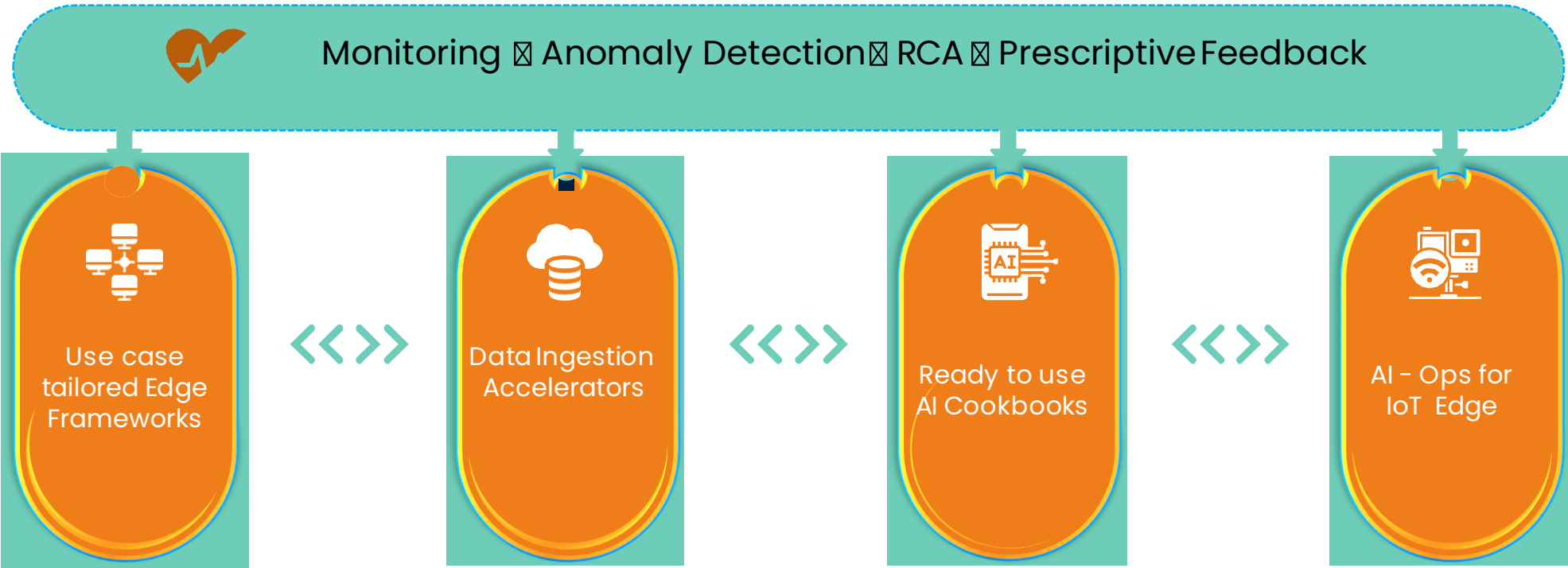
Smart Manufacturing – We work with customers at different stages of the journey



- *Real-time tracking*
- *Anomaly Detection*
- *Automated RCA*
- *Insights on the Edge*
- *Integration with OT Systems*
- *Benchmarking*



Tredence's ready to use building blocks in AI, data engineering & Edge thru the Industrial AI platform, help run experiments, scale & realize value faster



Industrial AI Solution Accelerator Platform



Supply Chain & Manufacturing SMEs



IIoT Solution Architects



Ecosystem partners

Select Case Studies

Client	Category	Overview	Impact
1 Global Chemical Manufacturer Annual Revenue: ~\$20B	Inventory & Transportation Optimization	AI-IoT Driven smart transportation & inventory management solution	Transportation costs reduced by 5% , while avoiding hazardous inspections by field teams Predictive Replenishment
2 Global Paper Products Manufacturer Annual Revenue: ~\$20B	Quality Assurance Improvement	Computer Vision based Defect Detection before the finished product enters the packaging line	Improved defect detection rate by 34% , reducing returns & customer complaints Computer Vision
3 US Metals Major Annual Revenue: ~\$9B	Process Efficiency Improvement	Prescriptive machine parameter recommendations that help run equipment in optimal conditions	Productivity improvements by 4% , while reducing scrap & quality rejects by 24% Process Optimization
4 Leading Building Materials Manufacturer Annual Revenue: ~\$30B	Quality Optimization	Predictive Quality Control - Feedback & by feedforward loops that help finetune process parameters in near real time..	Production costs reduced 2% ang GHG emissions brought down by 1.5% Quality Control & Sustainability



#beyondpossible