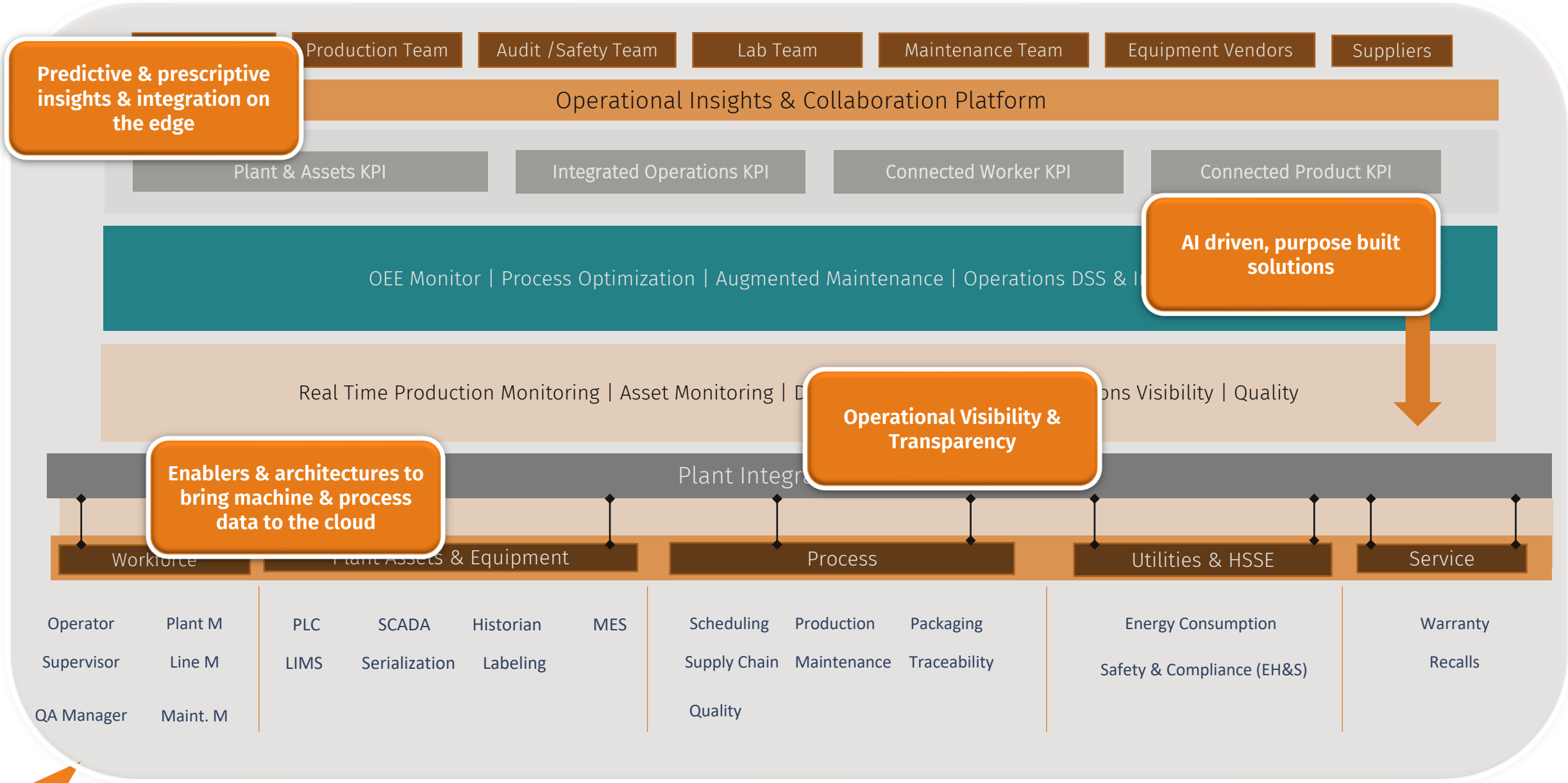
Smart Manufacturing @ Tredence

Powering Last-mile Adoption of AI for Global Enterprises

Smart Manufacturing: Our Solutions Landscape



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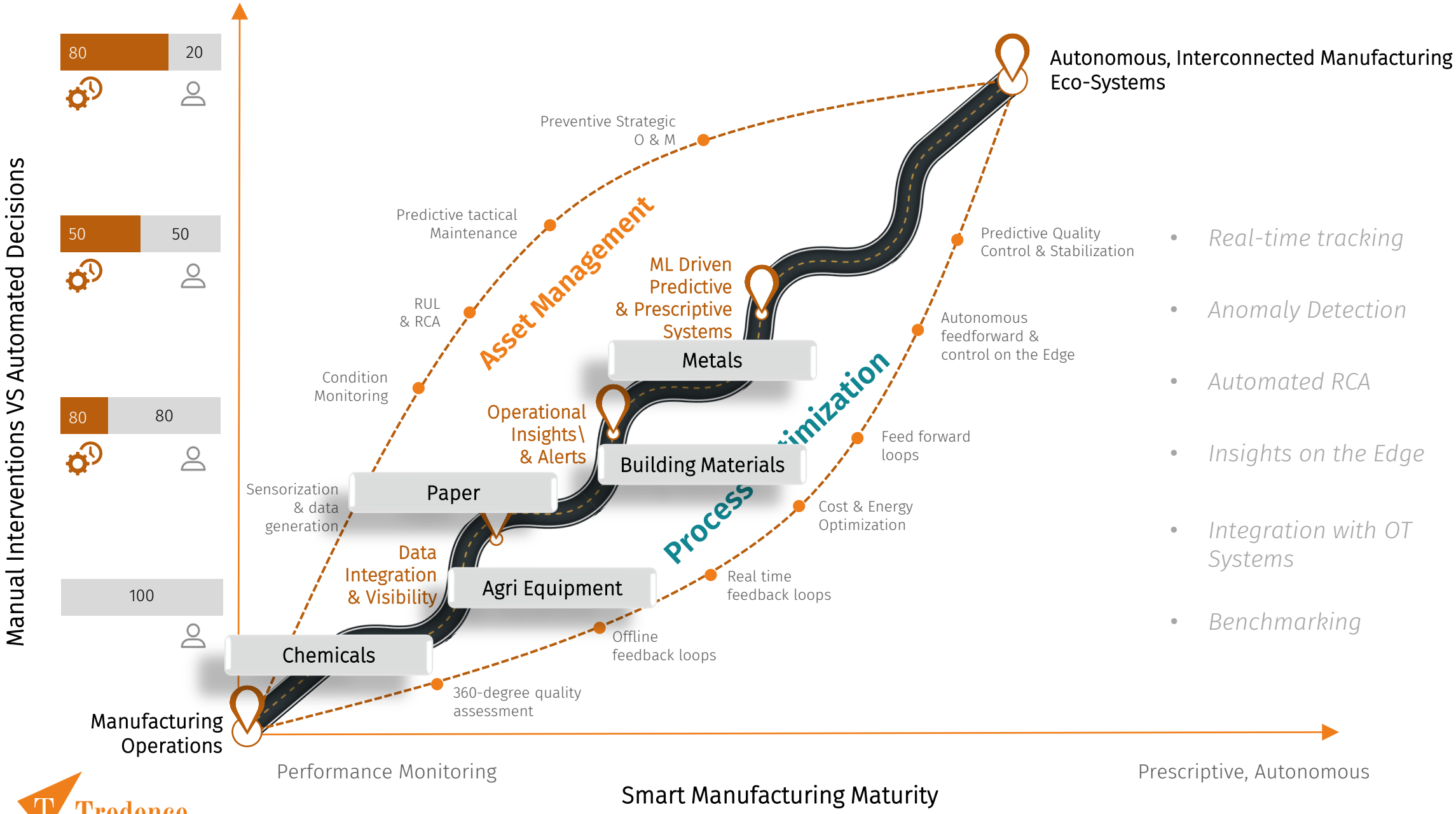
Smart Manufacturing – We work with customers at different stages of the journey



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

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High value areas where we partner with customers

Asset Management	Process Improvement	Quality Optimization
Condition Monitoring	Operator DSS	Predictive Quality
Predictive Asset Maintenance	Energy Optimization	Visual Defect Detection
Spares Inventory Optimization	Scrap reduction	Smart Testing Frameworks
	Safety & Compliance	

Data Curation & Governance **Monitoring & Exception Management** **Edge Enablement**

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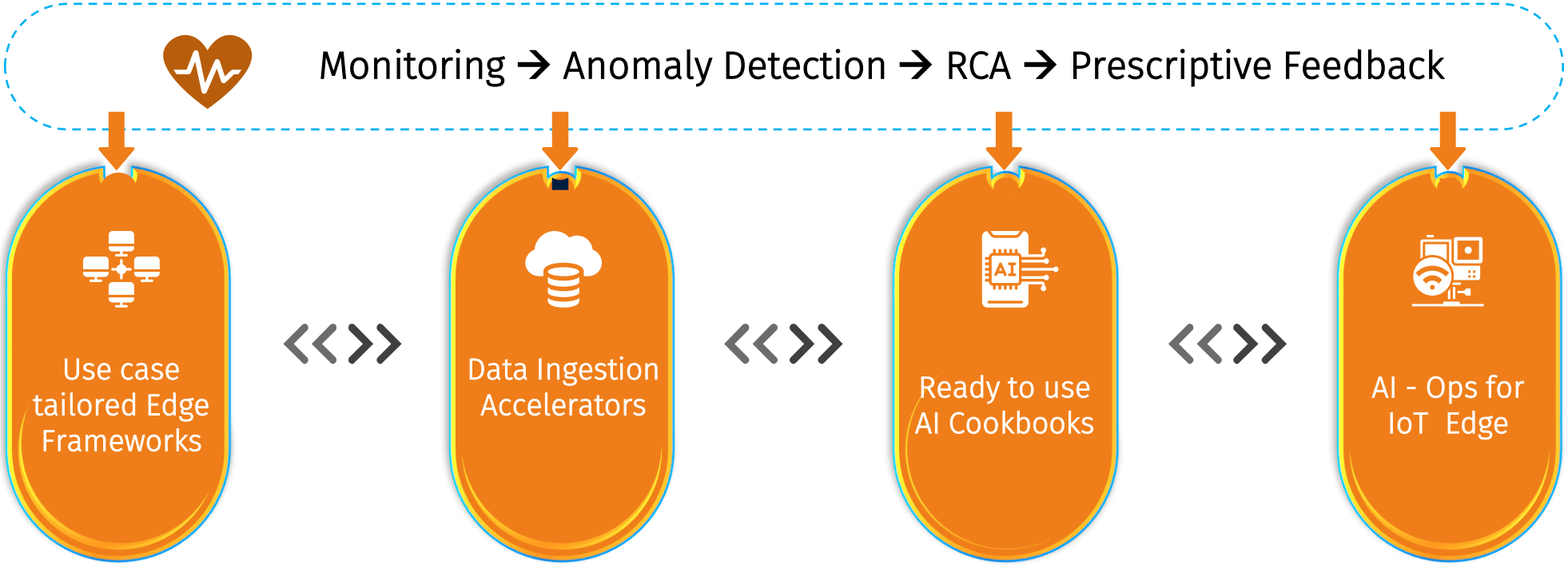
Tredence's ready to use building blocks in AI, data engineering & Edge thru the Industrial AI platform, help run experiments, scale & realize value faster



Microsoft Azure IoT Platform

Industrial AI Solution Accelerator Platform

Supply Chain & Manufacturing SMEs

IIoT Solution Architects

Ecosystem partners

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Smart Manufacturing: We invest in our customer's success

- Workshops with plant & innovation teams
- Idea generation across the value chain

Opportunity Identification

Tredence brings in Mfg & industry SMEs to orchestrate ideation

Templatized assessment of value across assets, quality, CSAT, energy footprint, TCO

Business Value Assessment & Qualification

Tredence consulting teams discover & quantify use cases to qualify & validate

6-8 week Pilots leading to MVP development

PoC development with 2-3 plants

Tredence functional & Industry SME overload to build the best scope MVP

3-4 week solution deployment & monitoring of adoption, value realization

Impact measurement

Constants orient & train the plant teams on usage & benefits

Staggered implementation across plants

Scale up of proven opportunities

Efficient deployment & Ops across plants thru ML-Ops based frameworks

Tredence investment in the innovation cycle

Investment — Customer Tredence

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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 & feedforward loops that help finetune process parameters in near real time..	**Production costs reduced by 2% ang GHG emissions brought down by 1.5%** Quality Control & Sustainability

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Talk to us!

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