

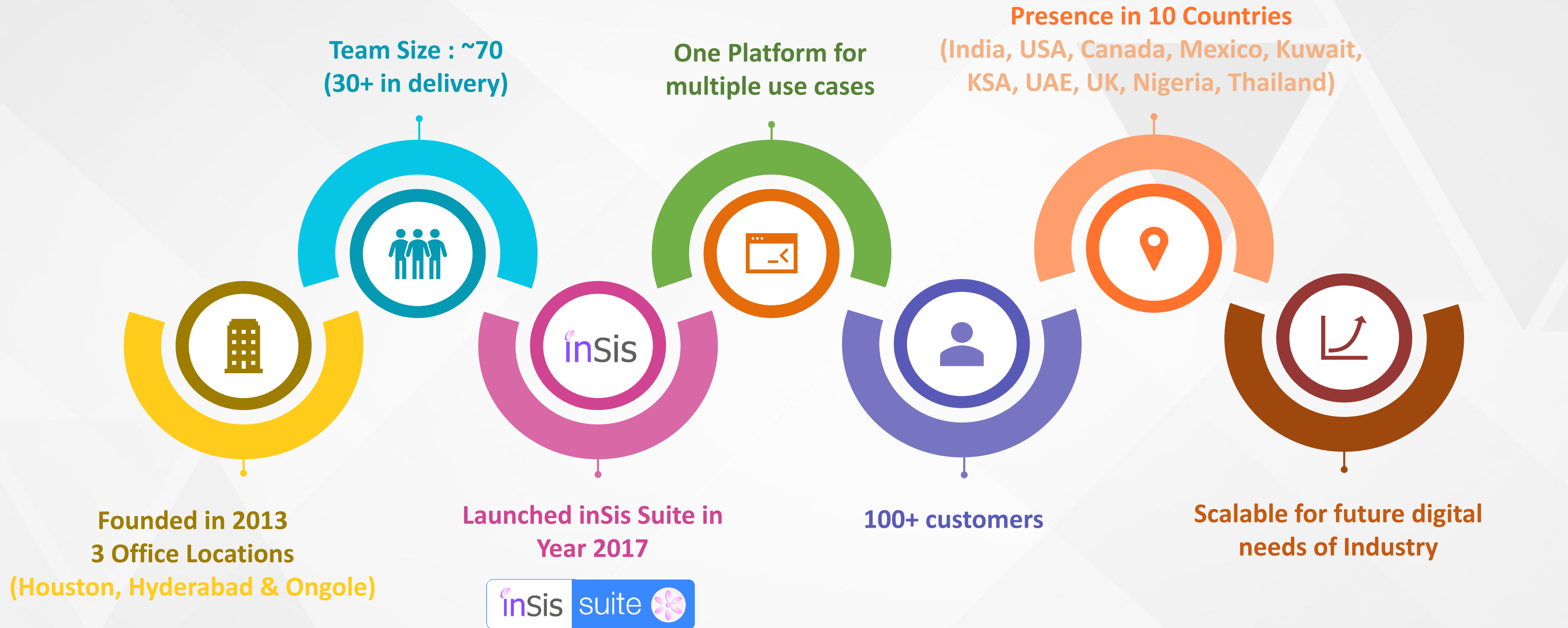
Jaaji Technologies
Sophistication with Simplicity

INSIS SUITE

ONE PLATFORM. ONE TRUTH. TOTAL OPERATIONAL EXCELLENCE.



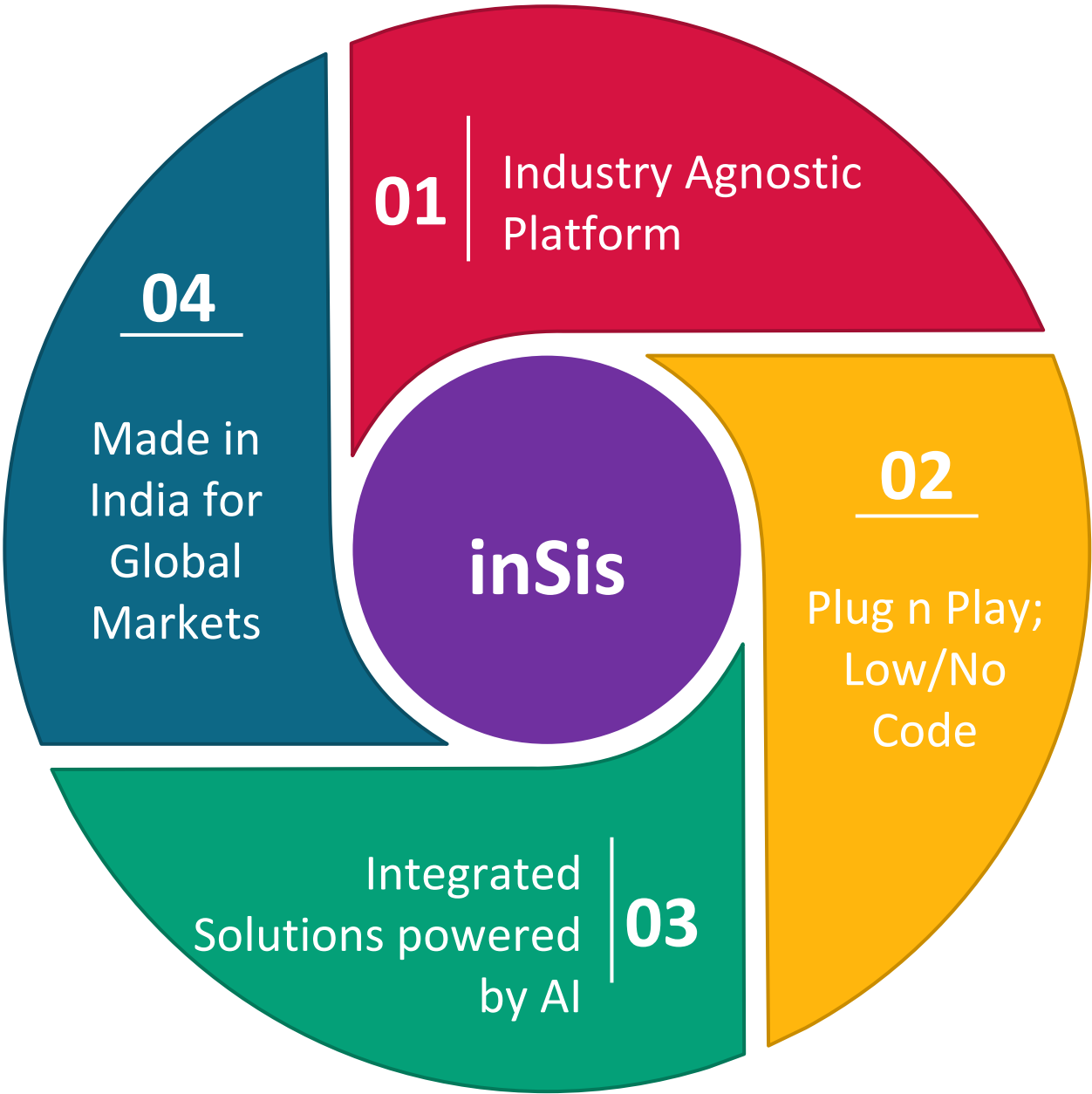
Jaajitech – We have process industry DNA



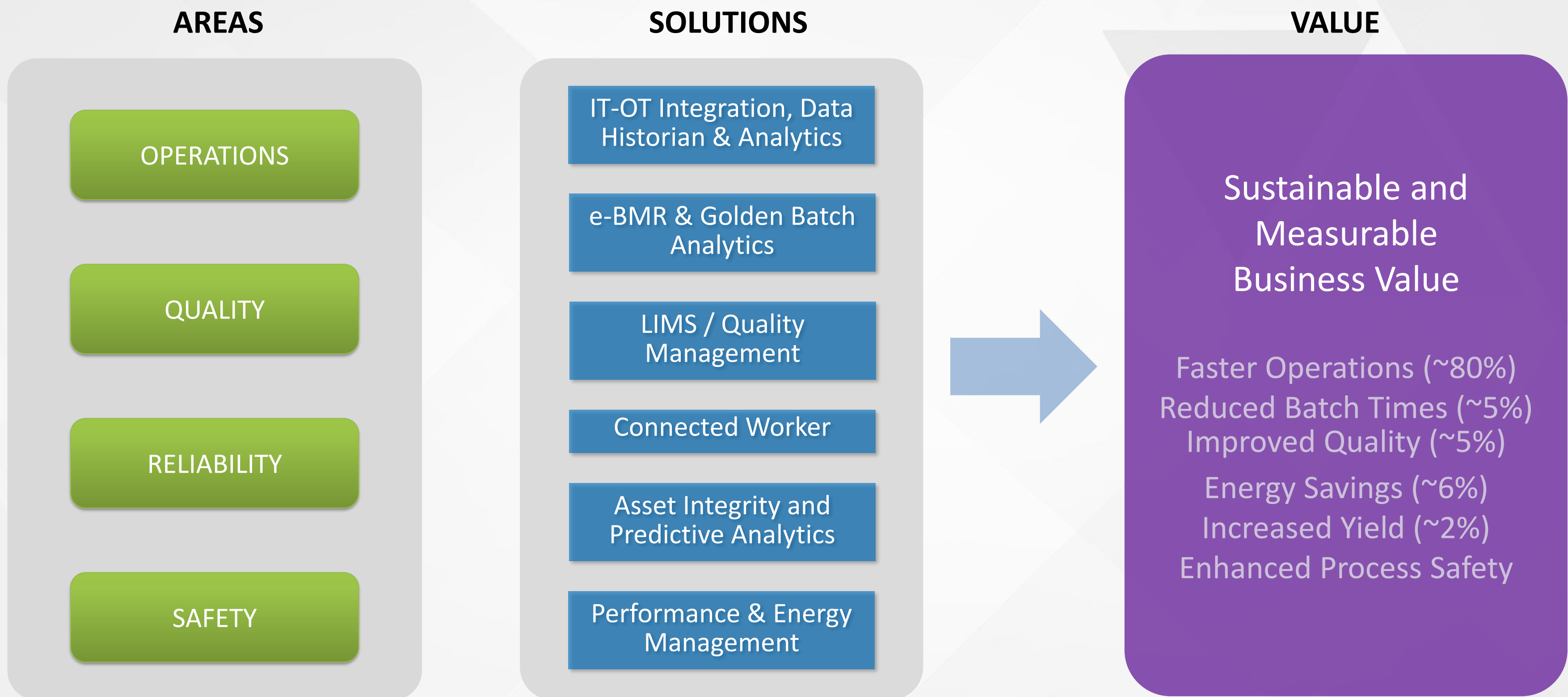
Jaaji Technologies
Sophistication with Simplicity

The challenge: What are we addressing in Manufacturing?

- Dispersed, Not digitized Operations; Disconnected Workforce
- Isolated IT/OT Systems; Data Silos; Lack of real-time visibility
- Manual errors; Low data reliability; Information loss
- Unwanted downtimes & low Reliability of assets
- Product Quality Issues; Process disruptions
- Opportunities lost in Productivity, Cost reduction, Energy Savings
- Workflows not digitized; delays in response; unsafe operations
- Time lost in Analytics; Tedious Reporting
- Opportunity loss in realizing benefits from AI and other technologies



Digital Transformation for Measurable Business Impact at **Process Industries**



inSis – a COTS solution ready to be deployed across verticals

More than 80% of our customers have extended contracts



OIL & GAS



CHEMICALS & PETROCHEMICALS



STEEL & METALS



POWER & ENERGY



ENGINEERING



CEMENT, SUGAR & PHARMA



IndianOil



NAYARA
ENERGY



GAIL (India) Limited

شركة البترول الوطنية الكويتية
KNPC



أدنوك
ADNOC



ESSAR
OIL UK



Kothari
PETROCHEMICALS

Coromandel



epsilon



سبكيم
Sipchem



Galaxy
Global Supplier to Global Brands



VISHNU
CHEMICALS LTD



NALCO



AM/NS
INDIA

vedanta
transforming for good



SCANIA
Stools & Powers Ltd.



RattanIndia
RattanIndia Power Limited



S V POWER PVT LTD



Adhunik
POWER



Nabha Power Limited

maaneksh energy
INDIA POWER
Adding power to life

JAYPEE
GROUP



NSL
POWER
Clean Energy for a Green Tomorrow

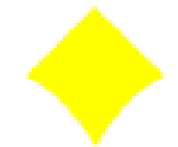
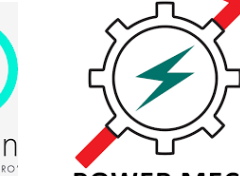
IL&FS Energy
IL&FS Tamil Nadu Power Company Limited

JINDAL
POWER

TRN
Enerav Private Limited



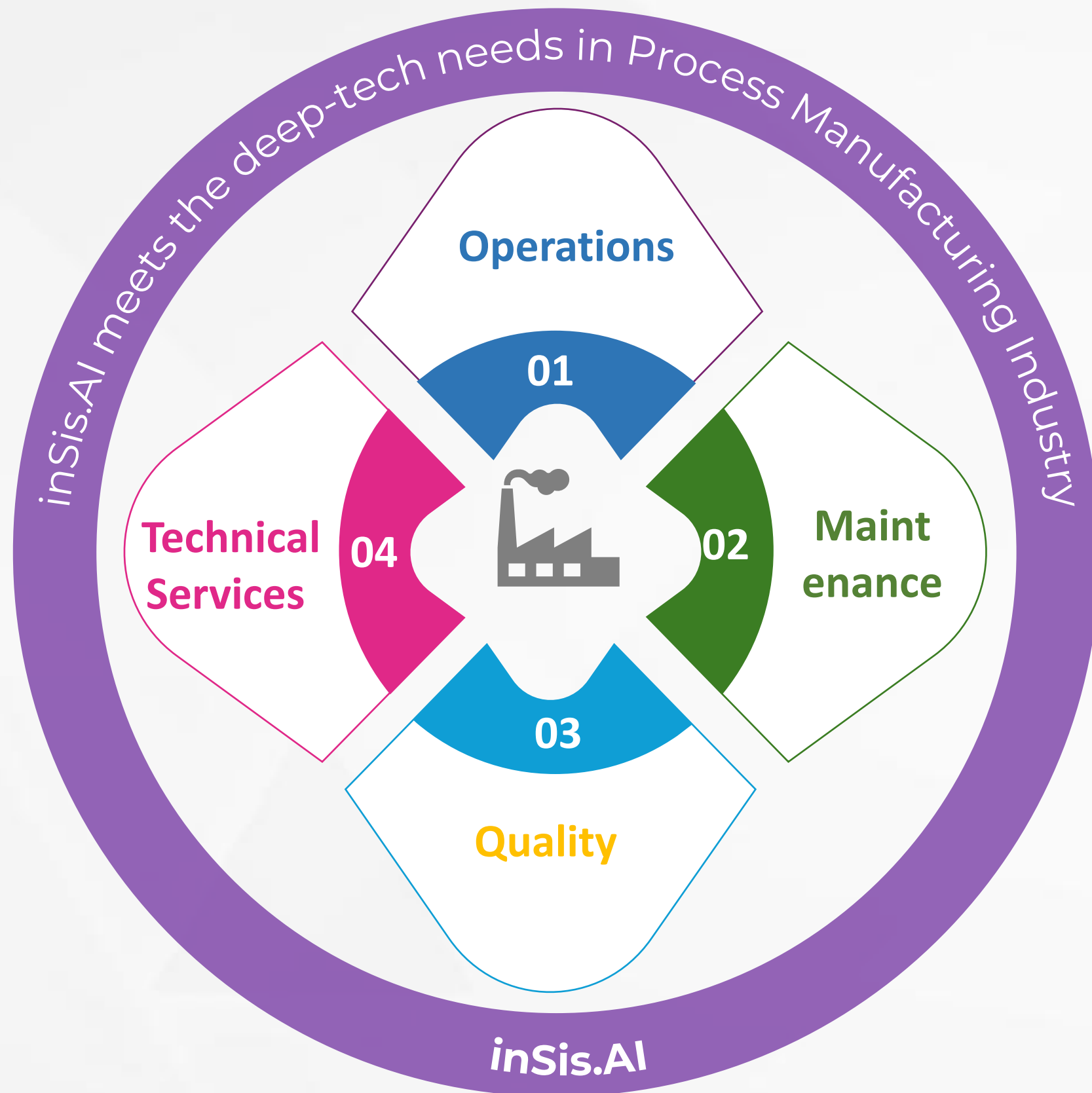
APIT
PROCESS • INNOVATION • TECHNOLOGY



Anjani Portland Cement Limited
(A Subsidiary of Chettinad Cement Corporation Ltd.)



An integrated platform for Digital Transformation



Connected-worker Platform

Digital Operations Logbook

E-BMR – Batch Manufacturing Records Management

Safety Interlock Bypass Management System

Alarm Management, Permit-to-work, Kaizen, LOTO

CMMS & Digital Maintenance Check-Lists

Asset Performance 360

Predictive Analytics for Asset anomaly detection

Electrical Relay and Power Quality Monitoring

Laboratory Information Management System

Quality Management System

Performance Management System

Data Historian, Analytics, Reports & Anomaly Notifications

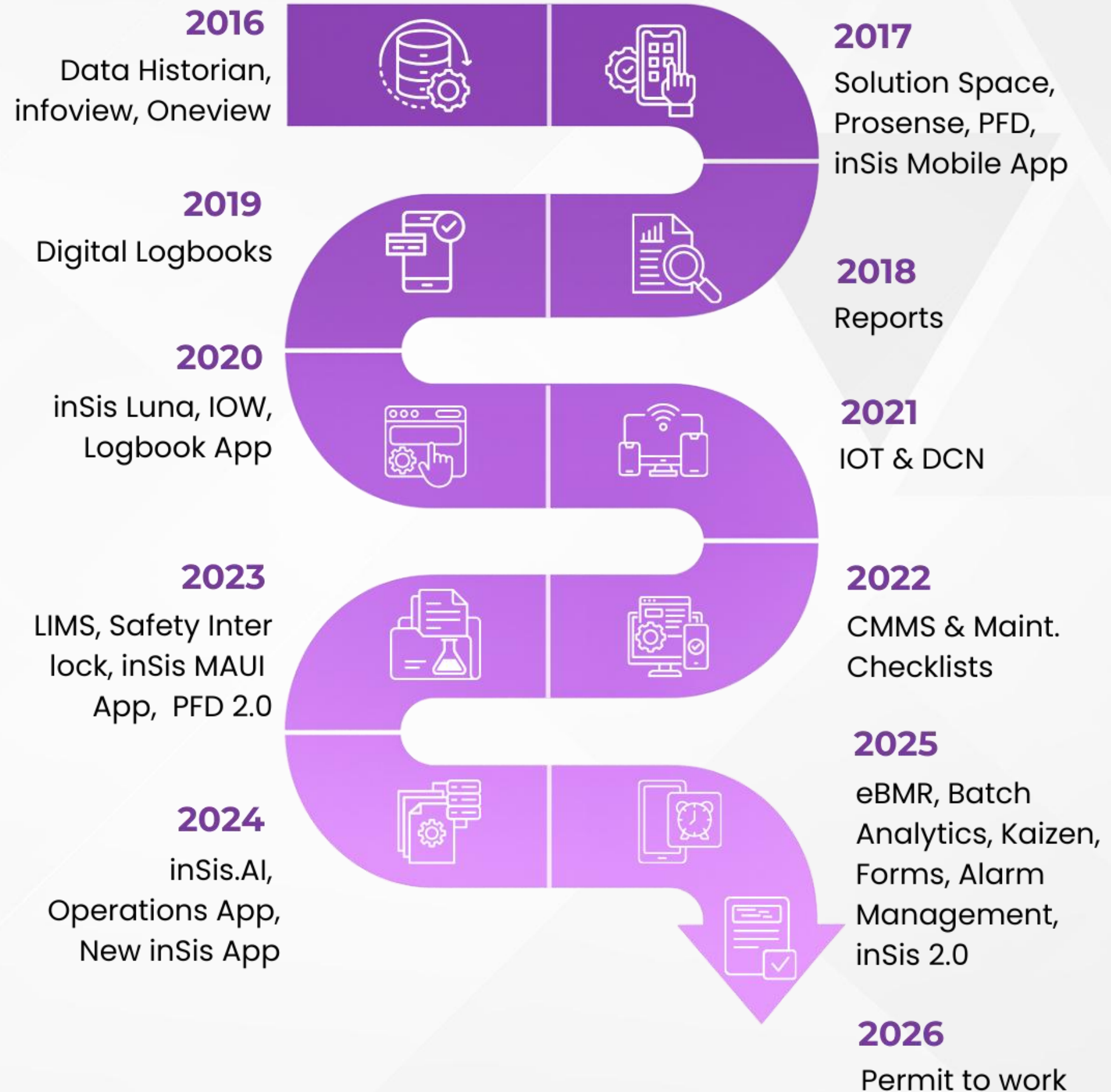
Batch Analytics & AI-based Batch Monitoring

Energy Management

Native Mobile Apps

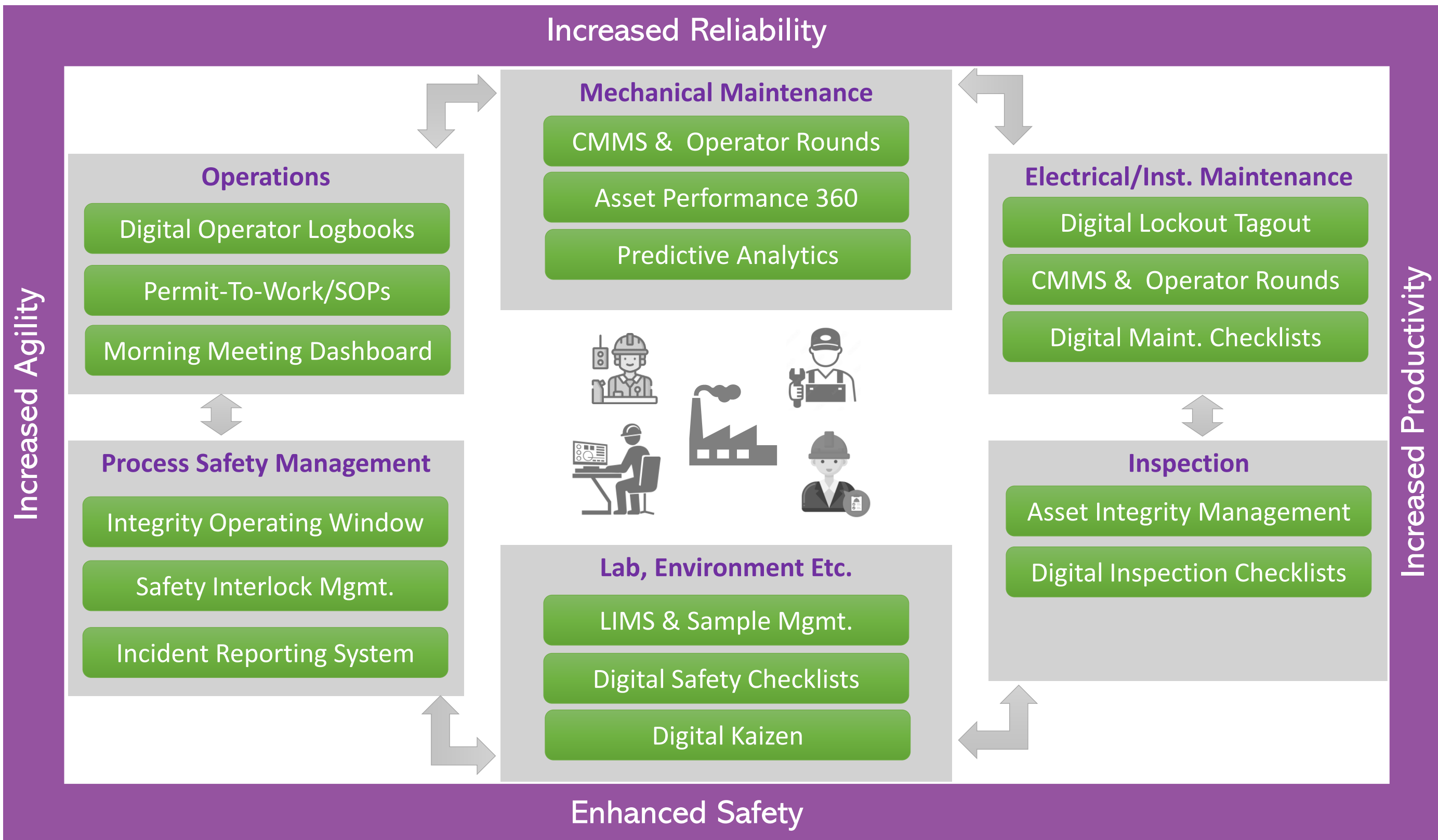
inSis.AI - An AI Enabler for Diverse Industrial Use Cases

INSIS EVOLUTION



Accelerate your Digital Transformation with a Connected-worker platform

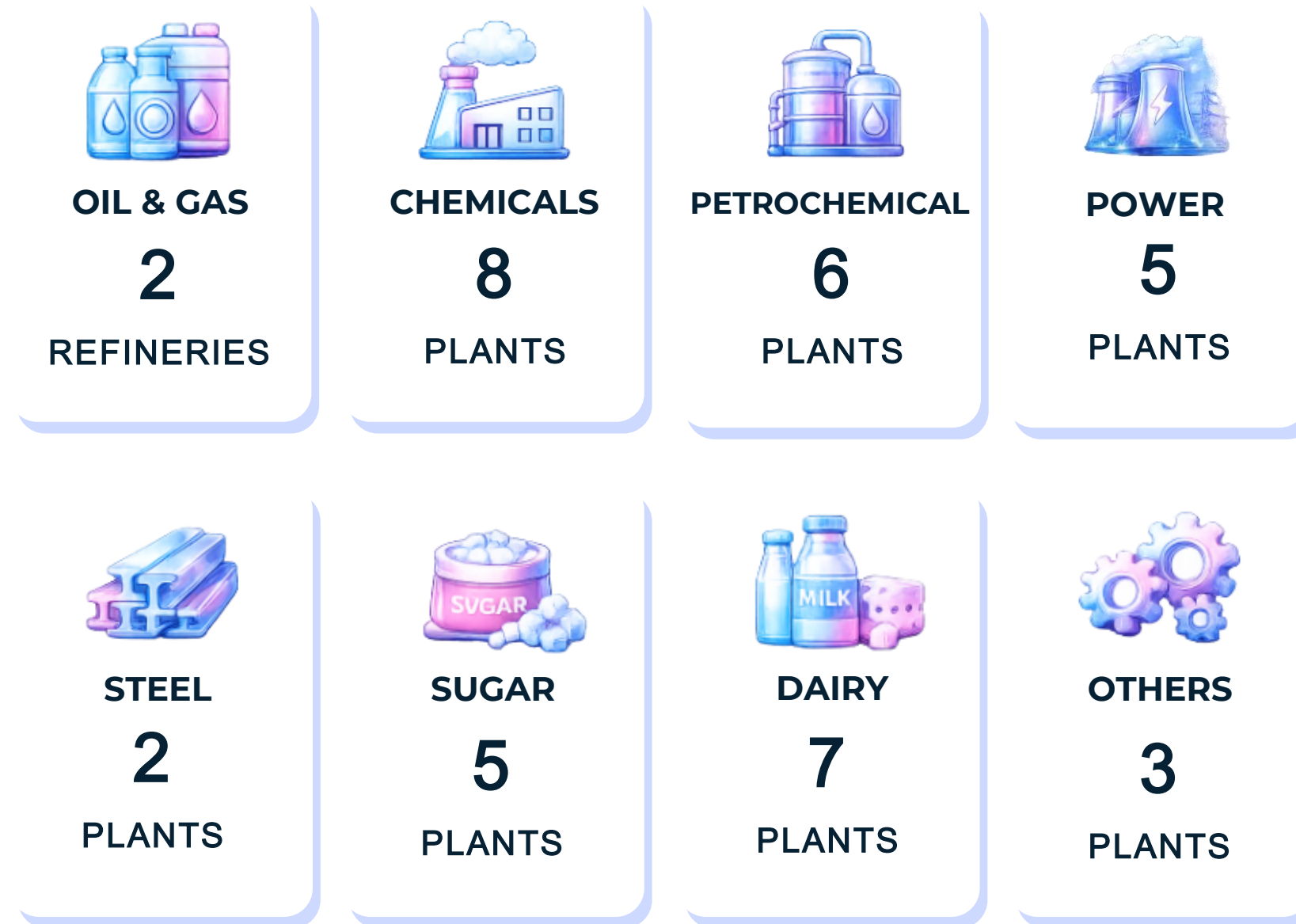
Connected-worker enables the frontline workforce with digital tools focused on asset operations & maintenance



- One unified native Mobile App for operations, maintenance, inspection, safety and laboratory teams
- Enables seamless & effective collaboration between various teams
- Decreased Time-to-respond to issues on the ground
- Increases ground operations visibility & situational awareness
- Streamlines digital workflows
- Results in a good quality data for AI-adoption

INDIA'S LEADING DIGITAL LOGBOOK SOLUTION

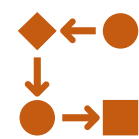
Streamlining operations with real-time digital records and workflows



Drove enterprise-wide Connected-Worker adoption across 40 process manufacturing plants, significantly improving frontline productivity and compliance

Digital Laboratory

A modern platform for accelerating Digital Transformation in Laboratories



End-to-end Sample Management with Workflows

Provides digital work-flows for sample life cycle management. Automates & boosting efficiency and reducing human errors.



Digital Laboratory

Enabled paper-less laboratory by providing digital tools for data entry, comments and analytics



Enhanced Data Accessibility

Enables easy access to data across teams ,eliminating limitations imposed by manual data collection & reporting.



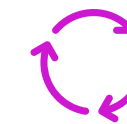
Auto-delivery of Lab Reports by email

The unit/section wise Lab results summary and reports are sent automatically (daily/weekly/monthly)



Compliance Support

Assists to adherence to regulatory standards and easing compliance challenges.



AI-based quality predictions

Provides real-time quality predictions to operations and minimize sampling frequencies



Real-Time Analysis

Provides real - time reporting and analysis capabilities, enabling quick decision making and pro-active measures.

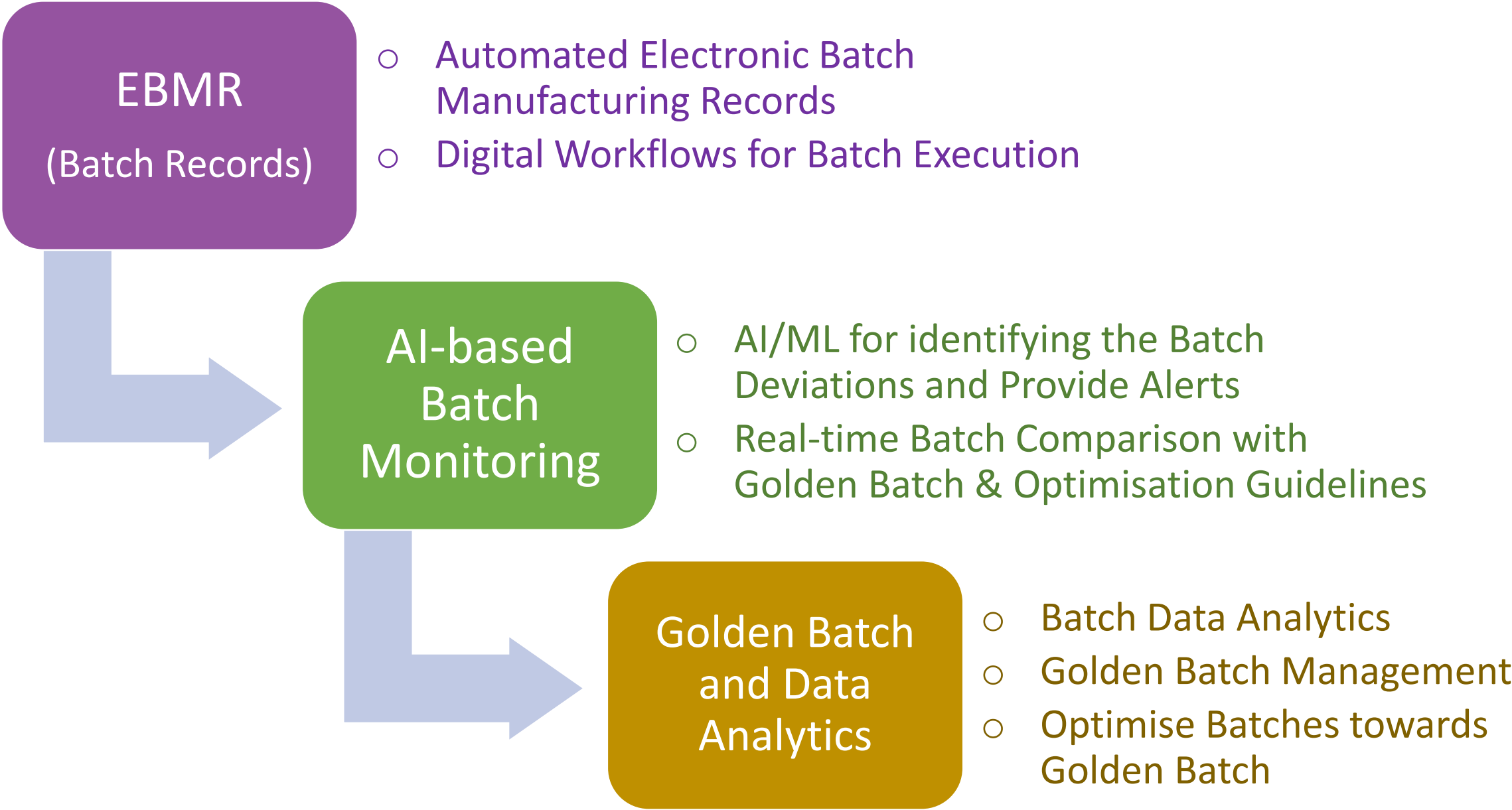


Maintain Data Integrity

Ensures data integrity by providing the data validation, review and approvals

Batch Management & Analytics

Reduce Batch anomalies and optimize batch performance using AI-powered Batch Management Solutions

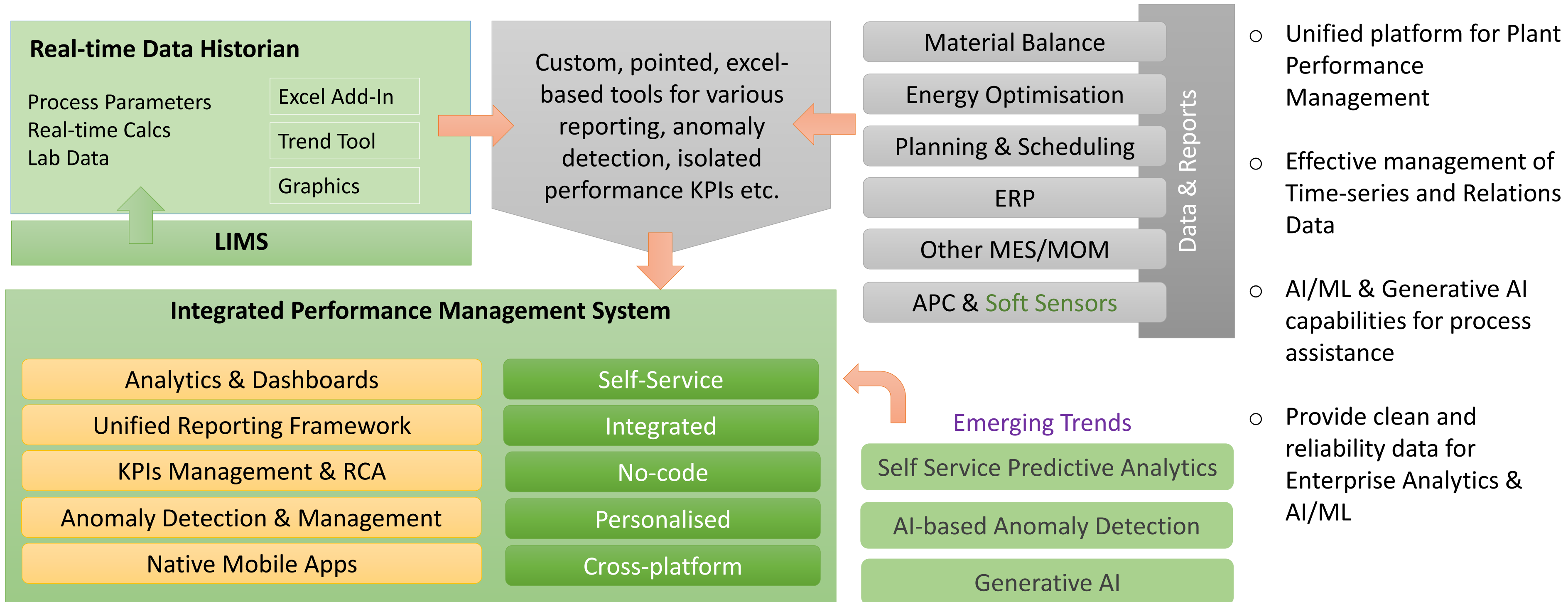


inSis Batch helps in Streamlining Batch Execution, Batch Data Management, Real-time Batch Monitoring & Optimization and Batch Data Analytics for Golden Batch

-  Streamlines the **Operating Procedures (SOPs)**
-  Manage **Recipes** and Synchronize with ERP/MES
-  Connects the workforce using an **Unified App** in various steps
-  Provides **Batch Data Analytics** for Golden Batch
-  **AI-based** Batch deviation monitoring in Real-time & RCA
-  Automatic data collection from **multiple data sources**

Integrated Plant Performance Management

Integrated Performance Management with Self-service & AI capabilities



inSis.AI - platform for diverse use cases of AI

inSis.AI

Uses the power of AI to bring immense value from data, help optimize, enable easier and quicker operations etc.



inSis Suite

Enables digitalization and digital maturity, Streamlines processes, Improve data availability and quality etc.

Prediction Module

Soft Sensors
Process Anomalies

Optimisation Module

Guide Operator for
optimising the parameters

Generative AI Module

AI Agents
for Process Industry

- Predict pump **failure**
- Estimate **remaining life** of a catalyst
- Do RCA based on **pattern recognition** for a compressor
- Project the **efficiency** of a heat exchanger
- Identify operational scenarios with **high safety risks**
- Analyse **high pressure vessel thickness** trends to estimate failures
- Analyse **leakage patterns** in a heat exchanger
- Estimate impact on **environment** due to change in process conditions
- Minimize energy costs to achieve **Net-Zero** emissions
- Monitor **Batch deviations**
- Soft Sensors to predict critical **operational parameters**
- Predict yield / quality to decide on **optimal process conditions**

Maintenance



Safety and Asset Integrity



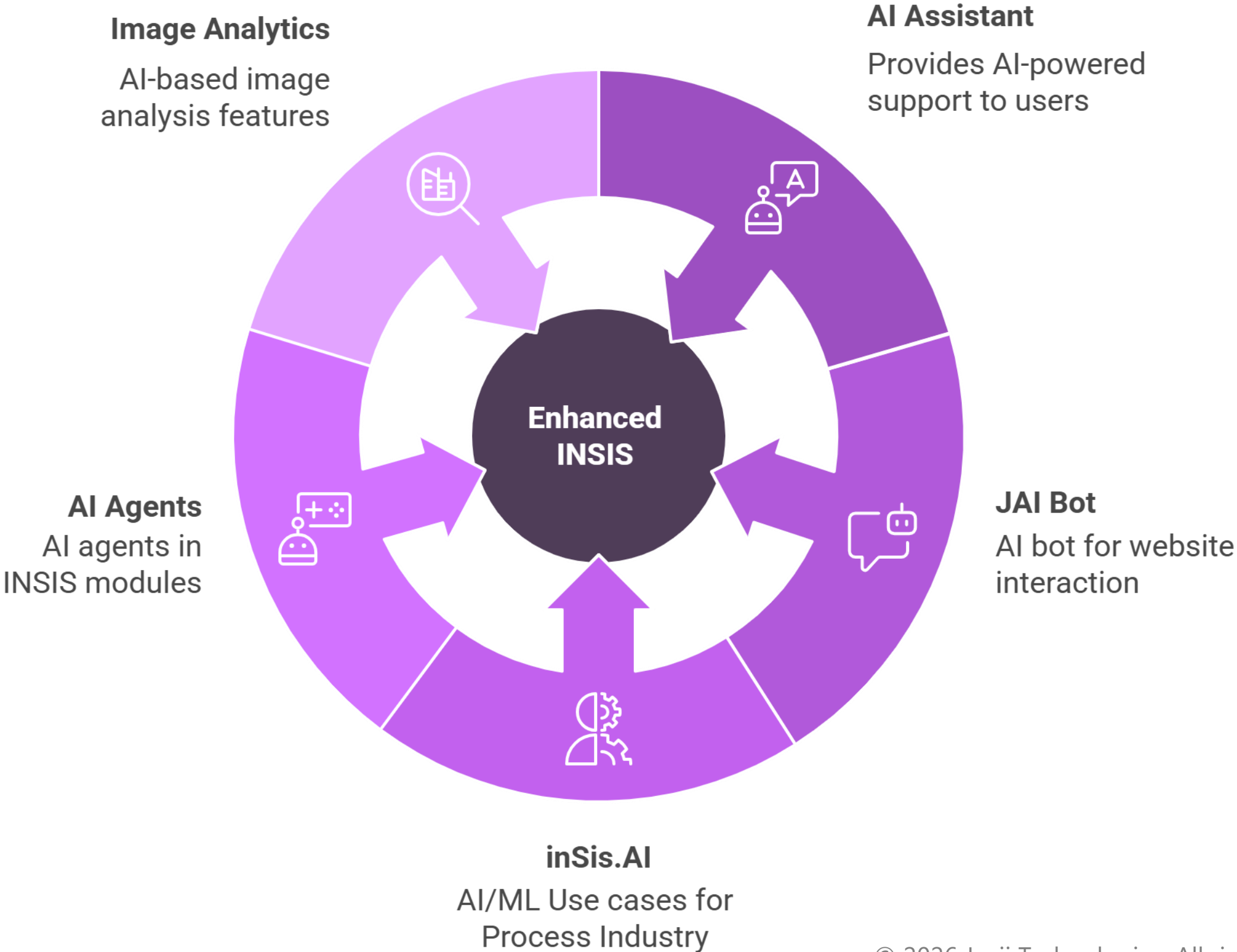
Sustainability



Operations

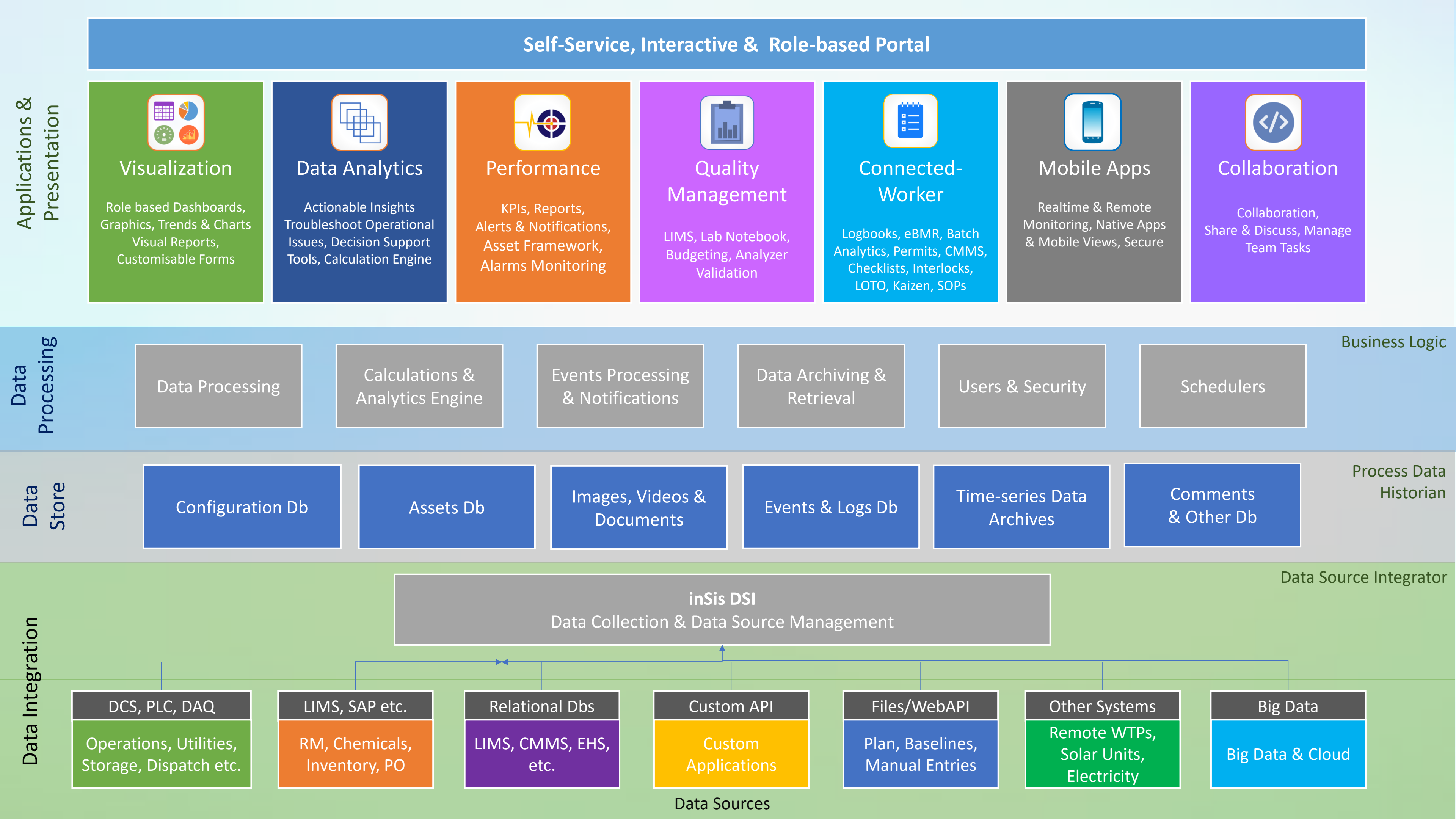


What we did so far?

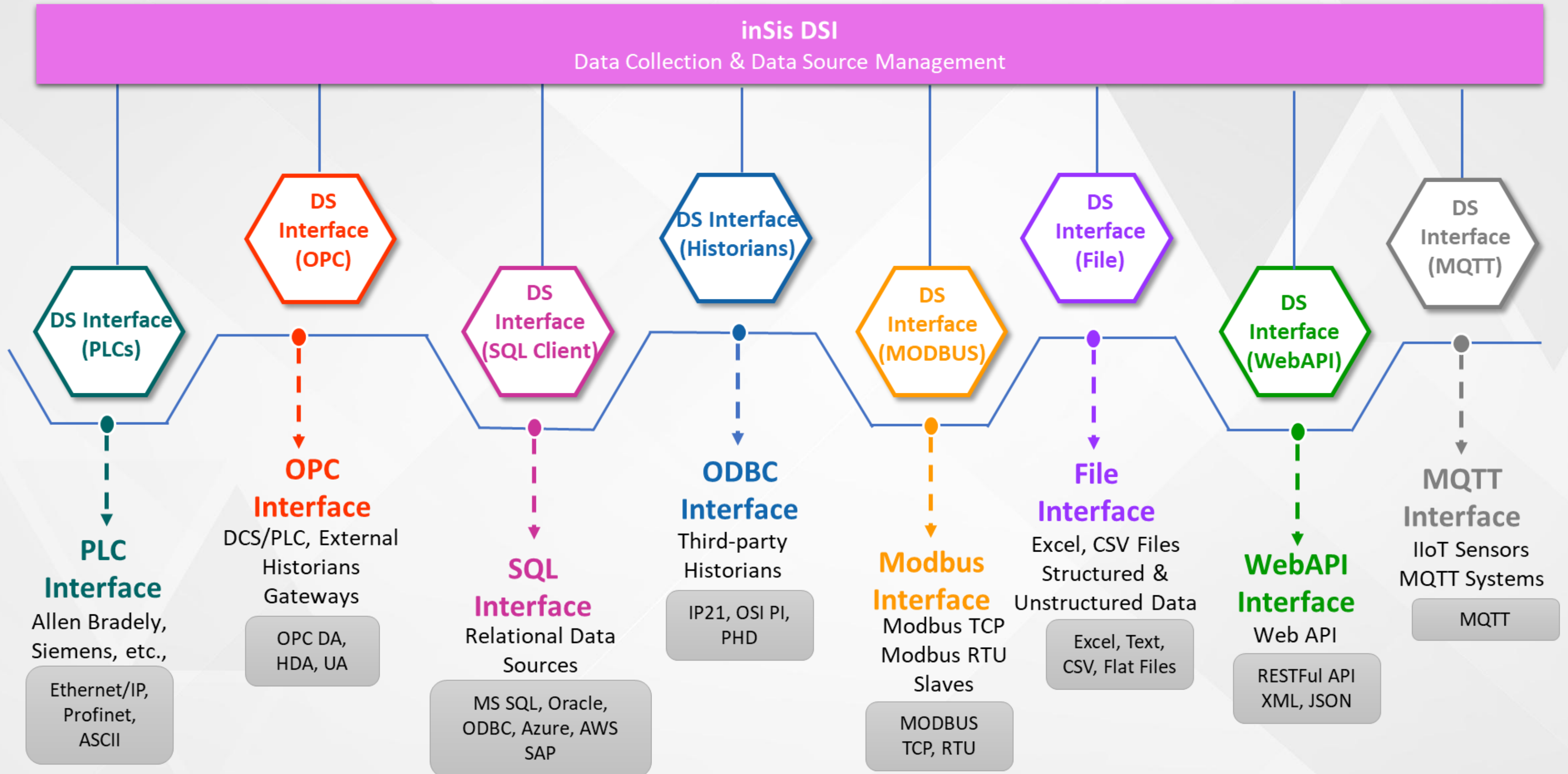


What's ahead?

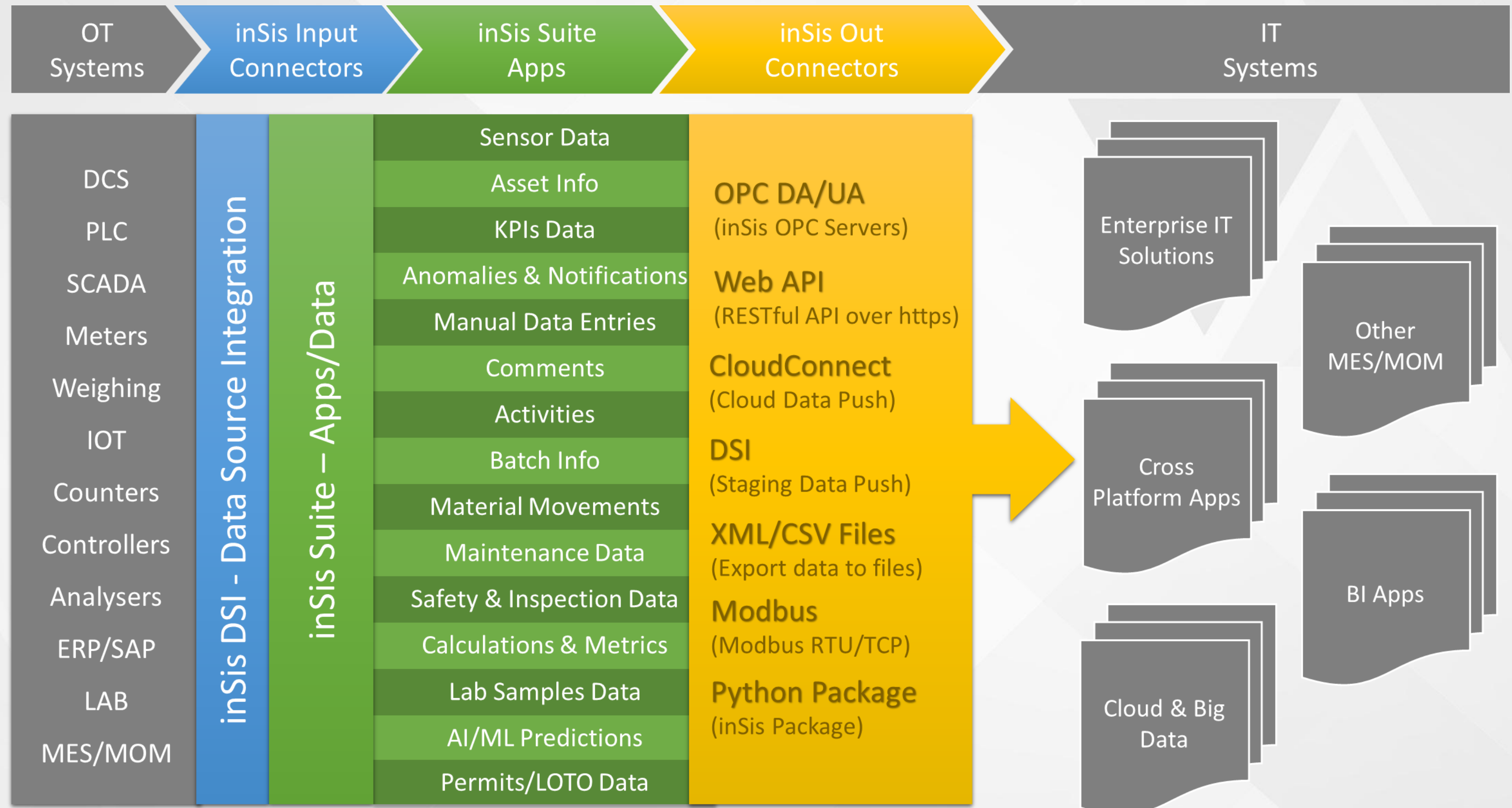
- **Batch Deviation Monitoring**
Tracks and alerts on deviations in production batches
- **Production Planning Optimization**
Streamlines production schedules for efficiency
- **Optimized PM Schedules**
Improves maintenance planning to reduce downtime
- **inSis.AI Improvement**
Enhances the inSis.AI platform with new features



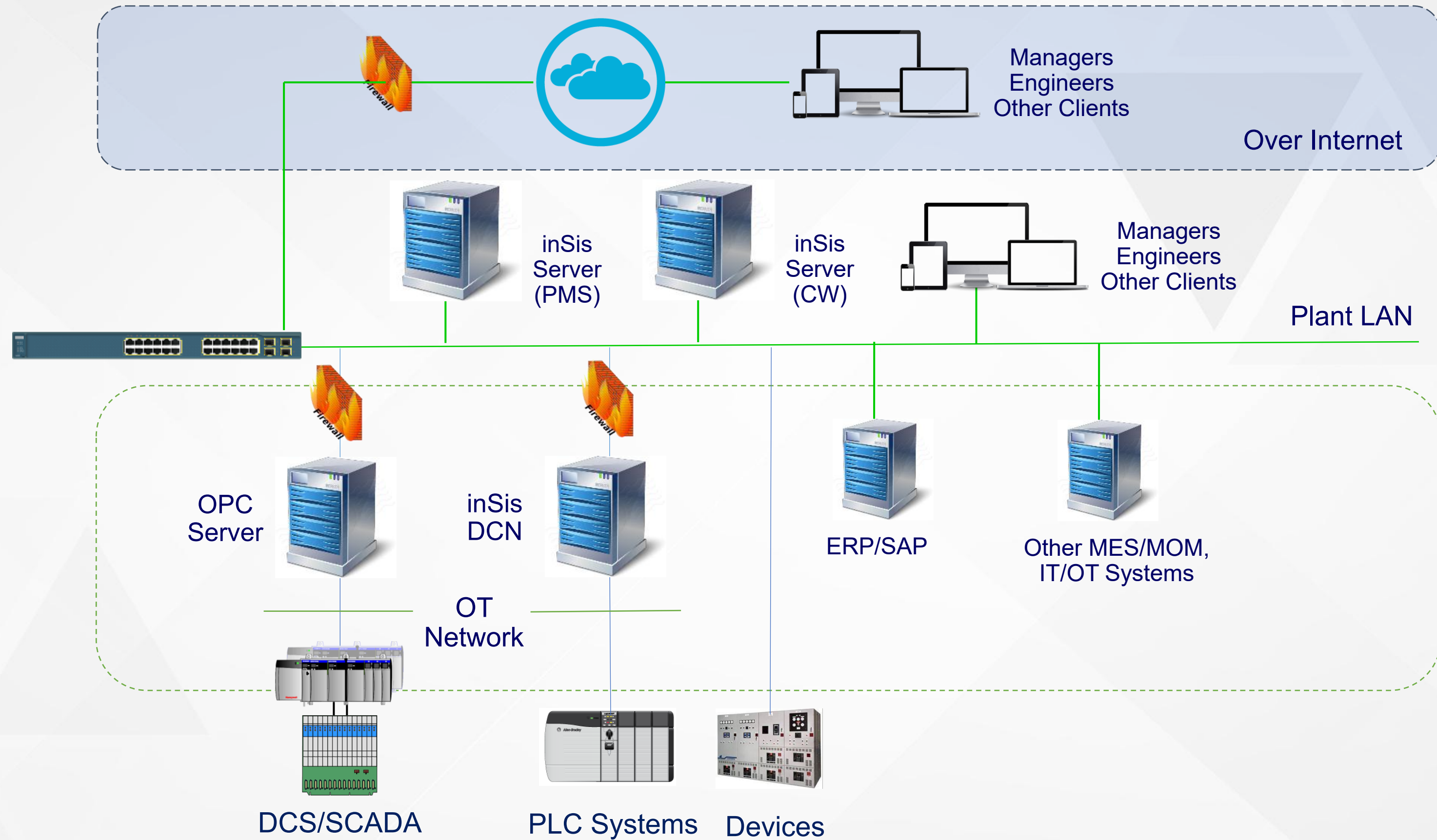
Data Integration Capabilities



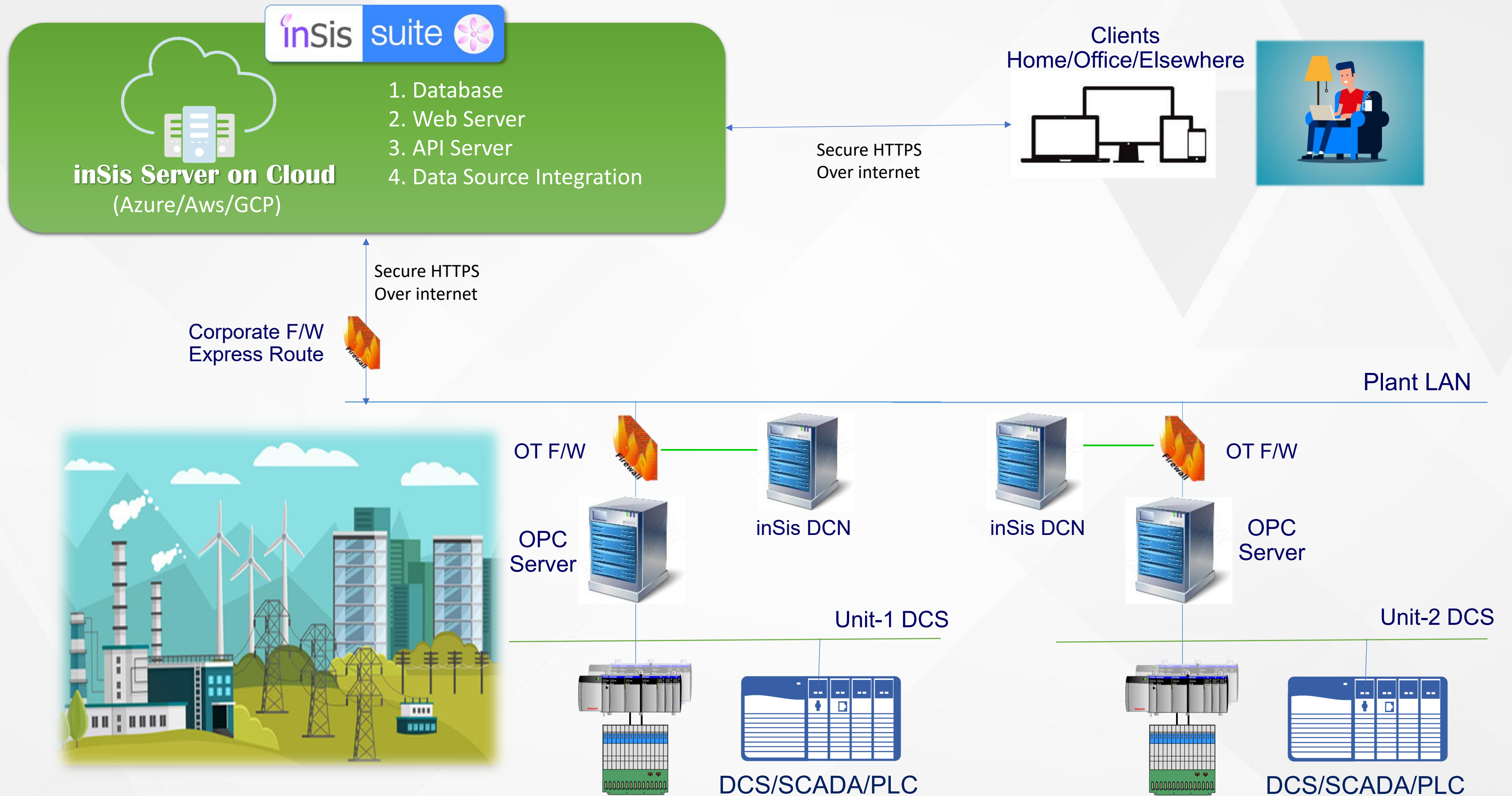
An integrated platform for Digital Transformation



A typical System Architecture (On-premises)



A typical System Architecture (Cloud)





inSis Hardened for Cyber Attacks



Role-based Access & Privileges



Login with Captcha & OTP (Email/SMS)



Multi-factor Authentication and Biometric



Restrict access from IP addresses



Data & Credentials Encryption



End-to-end Transport & Message encryption



Resilient to various penetration tests



User Activity & Blocking

Other Security features

- Implemented OWASP Recommendations
- Auto Logout
- AD Integration
- SSO
- Secure HTTP & TLS
- Mobile Access Control
- Support EMX
- Support Private AppStore
- Disable Screen Capture



THANK YOU

inSis Suite is an integrated digital backbone that transforms plant operations into intelligent, connected, and optimized enterprises

www.jaajitech.com