



Issues

- **Disconnected data silos? No single source of truth to rely on?**
- **Delayed insights causing you to be reactive rather than proactive?**
- **Cost of scaling point solutions killing your expected ROI?**
- **Underutilized investments? Data trapped or inaccessible to decision-makers?**

Solutions

A standardized, repeatable architecture that deploys fast at the line, rolls up to the site, and scales to the enterprise.

- **Faster time-to-value:** Pre-built components shorten deployments
- **Scalable architecture:** Grow from one line to many sites with minimal effort
- **Repeatability:** Clone across lines/sites without rework
- **Data consistency:** Unified models and namespaces ensure apples-to-apples KPIs
- **Lower TCO:** Centralized logic & reusable visualizations cut engineering overhead
- **Operator empowerment:** Real-time metrics and AI-assisted tools on the floor

Elements of a Solution:

- **Line (Edge):** FactoryTalk Optix per line for HMI + local KPIs. Publishes to MQTT (UNS)
- **Site: MQTT broker + InfluxDB historian (high-write TSDB):** Site FTOptix auto-discovers topics via namespace patterns and renders views without custom integrations.
- **Enterprise:** Enterprise FTOptix discovers sites/lines by topic; optional feeds to analytics (Power BI/DataMosaix) and ERP/MES (Plex) via MQTT bridges or API.
- **AI Assistant**
 - Context-aware chatbot returns SOPs, troubleshooting,
 - Across the enterprise: Ask natural-language questions about KPIs and trends

Outcomes & Value

- **Trusted, comparable KPIs from line → site → enterprise**
- **Faster decisions, fewer surprises, and consistent roll-ups**
- **Lower engineering/maintenance burden with a future-proof data backbone**

