SourceOne® EKPS

Enterprise Knowledge Performance System

What is SourceOne® EKPS?

SourceOne is an adaptable knowledge system that can **transform into any tool you need**. It enriches data with context, history, and digital workflow automation, laying the foundation for AI and **giving you the answers you're looking for**.

MINING | **MANUFACTURING** | AGRICULTURE | CONSTRUCTION | OIL & GAS

PRODUCTION & OPERATIONS	**Assembly Line Automation** – Integrating IoT sensors and AI to streamline production workflows, reducing human error and improving efficiency.
PRODUCTION & OPERATIONS	**Lean Manufacturing & Six Sigma** – Analyzing operational data to identify waste, improve cycle times, and optimize production processes.
PRODUCTION & OPERATIONS	**Custom Manufacturing Solutions** – Providing adaptable workflow automation, ensuring unique production needs are met.
PRODUCT DEV. & ENGINEERING	**CAD/CAM Software Integration** – Centralizing design files and connects engineering with production teams to reduce prototyping errors.
PRODUCT DEV. & ENGINEERING	**Product Lifecycle Management (PLM)** – Managing design iterations, approvals, and version control for new product development.
SUPPLY CHAIN & LOGISTICS	**Supply Chain Visibility Platform** – Providing tracking for raw materials, work-in-progress inventory, and finished goods.
SUPPLY CHAIN & LOGISTICS	**Demand Forecasting** – Using forecasting models to prevent stockouts or overproduction.
QUALITY ASSURANCE	**Quality Control & Assurance** – Collecting and analyzing production data to identify defects early and reduce rework costs.
PROCUREMENT	**ERP Systems for Manufacturing** – Automating procurement processes documentation, reducing delays and ensuring raw materials delivery.
PROCUREMENT	**Inventory Optimization** – Predicting material requirements based on production schedules and market demand to optimize purchasing strategies.
DATA STRATEGY	**Domain-Specific Ontology Design** – Defining core concepts, relationships, and hierarchies tailored to the industry.
DATA STRATEGY	**Data as Operational Asset** – Transforms raw data to empower teams to make decisions based on actual knowledge.

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DATA STRATEGY	**Semantic Relationships** – Establishing relationships like "is_a," "part_of," and "depends_on" to connect entities.
DATA STRATEGY	**Source-to-Target Mapping** – Mapping raw data fields (e.g., sensor data) to ontology entities and attributes.
DATA STRATEGY	**Contextual Predictions** – Leveraging ontology mappings to provide context for AI decisions.
DATA STRATEGY	**AI Assist** – Automated responses for common queries, improving operational support and decision-making.
DATA STRATEGY	**Data Governance** – Standardizing data collection, enforcing quality controls, and maintaining audit trails.
DATA STRATEGY	**Centralized Data Storage** – Managing materials/inventory, operational, and financial data in a unified system.
DATA STRATEGY	**Version Control & Auditing** – Tracking changes in models, plans, and reports.
DATA STRATEGY	**ETL (Extract, Transform, Load) Processes** – Cleaning, transforming, and loading data into analytical tools.
DATA STRATEGY	**Data Governance & Compliance** – Ensuring data integrity, security, and regulatory compliance.
DATA STRATEGY	**Enriched integration** – Adds meaning to point solutions' data.
DATA STRATEGY	**Big Data Integration** – Combining IoT, sensor, and real-time monitoring data for analysis.
DATA STRATEGY	**Automated Data Ingestion** – Streaming data from equipment, sensors, and external sources.

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