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

ENGINEERING	**Structural Analysis** – Analyzing load-bearing capacities and stress points for safer designs.
ENGINEERING	**Material Optimization** – Reducing waste by calculating precise material requirements.
SITE PLANNING	**Site Layout Planning** – Creating equipment digital twins, tracking material consumption, and personnel placement for maximum efficiency.
SITE PLANNING	**Access Route Planning** – Designing efficient internal roads and creating 3d models to improve logistics and site safety.
PROJECT MANAGEMENT	**Construction Progress Tracking** – Integrating drone data, BIM models, and scheduling tools to monitor real-time construction status.
PROJECT MANAGEMENT	**Delay Analysis & Forecasting** – Using AI to analyze potential risks, delays, and their downstream impact on project timelines.
ASSET MANAGEMENT	**Equipment Utilization Tracking** – Monitoring heavy equipment usage, idling times, and maintenance needs to reduce downtime.
WORKFORCE & HUMAN RESOURCES	**Labor Scheduling & Optimization** – Balancing skilled labor assignments based on shift needs, certifications, and availability.
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.
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.

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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/equipment, 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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