

Safety Data Repository



Curated for Safety Analytics

- Reporting and visualization
- Ad hoc analyses
- **Predictive analytics**



Features and Benefits

- Data lake and database schemas tailored for safety analytics
- Integrates with, does not replace, a safety management system (SMS)
- Draws from dozens of data sources in varied formats
- Deals with various levels of aggregation
- Distills text from reports into structured data
- Proprietary data transformation and joining algorithms for predictive modeling and machine learning.

Primary Data

Safety Management System (SMS)

- **Targets:** incidents; injuries; near misses; lost time incidents; DART; first aid; OSHA reportables, process safety events; etc.
- **Leading Indicators:** observations; audits; inspections; behavioral-based safety; compliance; etc.

Ancillary Data

Varied operational systems

- **Work Shift:** Scheduling, time keeping, function; location; craft, tasks, teams.
- **HR/Employee:** attendance; PTO; tenure; demographics; performance reviews; engagement surveys; training; knowledge tests; certifications; fatigue scores; commute time, drug/alcohol tests; discipline; cohort; union membership; management.
- **Assets:** site characteristics; maintenance; downtime; equipment changeouts; vehicle telematics; event recorders; sensors; video.
- **Operations:** processes; rules; policies; PPE use; business velocity.
- **Corporate:** training programs; safety campaigns; legal.
- **External:** weather; macroeconomic.

