PODS

Pipeline Open Data Standard

THE Open Standard and Industry Platform for Efficient Data Management Since 1998

PODS Association's Data Model sets the foundation for visibility to the entire pipeline system lifecycle from projects to database management to support compliance, safety, risk identification, mitigation and remediation. The PODS enterprise database architecture is comprehensive, open, vendor-neutral, highly-scalable and proven. PODS Data Model is recognized as the best practice integration platform for pipeline data and location information.

A Decision-Making Tool

Integral to engineering and operational decision-making about pipelines and facilities.

Compliance Reporting

Provides a consistent means of compliance reporting and data benchmarking, driving standard regulatory reporting into the future.

Industry Expertise

Designed and maintained by Industry SMEs with 120 years combined experience.

Scalable & Extensible

Uses latest technology for database sharing, retrieval, reporting and integration to adapt to changing business and technical landscape.

Flexible

Provides maximum flexibility by allowing pipeline operators to implement and configure the data model to meet unique business needs and challenges.

System Integration

Integrates with business systems and asset management tools enterprise-wide.

Interoperable

Robust data exchange mechanism enables users to seamlessly share data within and between organizations. Occurs through standard data models and a consistent application interface.

Optimized Performance

Optimized performance for managing extremely large data sets, including inspection data, re-routes/ historical information, and asset digitization. Provides controls for quality assurance.

Mission

Develop and advance global pipeline data standards to support efficient data management and reporting for the oil and gas industry.

Vision

Every pipeline operator will use the PODS data model as the System of Record for the location of Centerline and Pipeline Assets. PODS Association will become the recognized global leader in pipeline data standards and best practices. Collaboration with the PODS member community will ensure the development of pipeline data models that are designed with open specifications. PODS will be the best choice in the industry.

PODS

Pipeline Open Data Standard

Next Generation Model - PODS 7.0.1

PODS Next Gen Initiative has resulted in a complete re-design and modernization of the PODS Pipeline Data Model. The PODS Pipeline Data Model Version 7.0.1 includes a data exchange specification along with migration and implementation guidance and instruction. 7.0.1 enables system integration via service-oriented approaches. The re-design of the PODS Pipeline Data Model is driven by PODS Association Strategy and reflects over 25 years of PODS Pipeline Data Model implementation experience and lessons learned. PODS 7.0.1 is designed to be the system of record for pipeline centerlines and pressurized containment assets for the safe transport of product and will standardize and modernize data management and reporting across the pipeline industry.

The methodology and approach to how this model was developed pushes the envelope on how the model was designed and represents significant advances in the creation of data models to date.

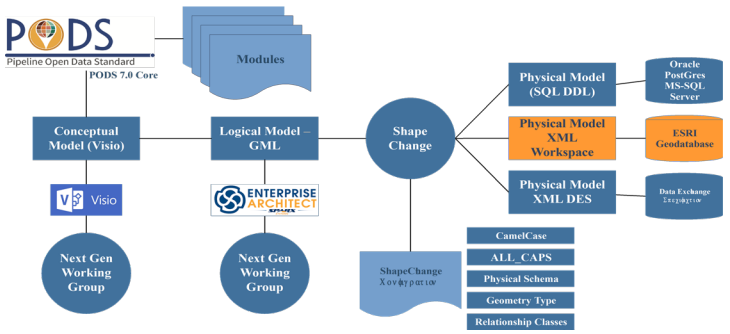
7.0.1 Project Objectives

- Support world-wide deployment, not just North America.
- Respond to new and changing business requirements (regulations, technology) via working groups.
- Optimize performance in the face of increasing data volume, variety and velocity.
- Establish a single, simplified, logical data model that can be deployed as vendor-neutral, GIS-agnostic, RDBMS specific physical model.
- Development and stewardship of an open-interchange specification for data sharing, transfer and schema/data validation.
- Create a platform that can support the entire asset lifecycle and prescribed business processes.

Multiple Location Methods

Data Exchange Specification

One Logical Model (Many Physical Models)



7.0.1 Model (a sample)