

TOTAL E&P: Use of Norms and standards for plants description (In partnership with Vinci Consulting)



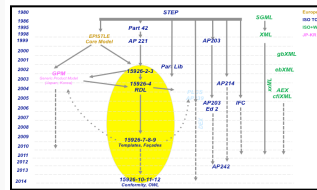
Context and need

TOTAL E&P has identified the use of Norms and standards as a pillar of its digital transition strategy.

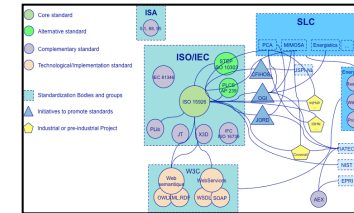
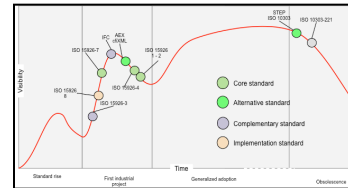
Implementing norms in the data management will allow TOTAL to improve internal & external interoperability.

TOTAL E&P wishes to obtain a clear and detailed view of the landscape of the Norms and Standards

Different representations of the N&S Landscape



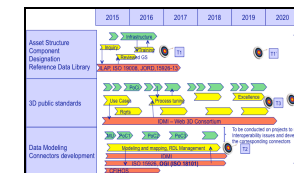
Standard	Organization	Year	Scope
ISO 15926-1	ISO	2014	Process-based data management for the petroleum and natural gas industries
ISO 15926-2	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 2: Data models
ISO 15926-3	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 3: Data exchange
ISO 15926-4	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 4: Data integration
ISO 15926-5	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 5: Data security
ISO 15926-6	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 6: Data interoperability
ISO 15926-7	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 7: Data visualization
ISO 15926-8	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 8: Data archiving
ISO 15926-9	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 9: Data migration
ISO 15926-10	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 10: Data backup and recovery
ISO 15926-11	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 11: Data disaster recovery
ISO 15926-12	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 12: Data security and privacy
ISO 15926-13	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 13: Data governance
ISO 15926-14	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 14: Data lifecycle management
ISO 15926-15	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 15: Data quality management
ISO 15926-16	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 16: Data performance management
ISO 15926-17	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 17: Data availability management
ISO 15926-18	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 18: Data integrity management
ISO 15926-19	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 19: Data confidentiality management
ISO 15926-20	ISO	2014	Process-based data management for the petroleum and natural gas industries - Part 20: Data non-repudiation management



Recommendations

Item	Standard	Recommendation
Asset Structure Component	ISO 15926-1	Use ISO 15926-1 as the core standard for asset structure component.
Reference Data Library	ISO 15926-2	Use ISO 15926-2 as the core standard for reference data library.
3D public standards	ISO 15926-3	Use ISO 15926-3 as the core standard for 3D public standards.
Data Modeling Connectors development	ISO 15926-4	Use ISO 15926-4 as the core standard for data modeling connectors development.

Roadmap



Results (Mission from January 2015 to end-March 2015)

- A selection of Norms & Standards to be assessed
- An evaluation of the complexity of their implementation
- Feedback & experiences from other oil & gas companies & other industries
- Recommendations
- Communication kit