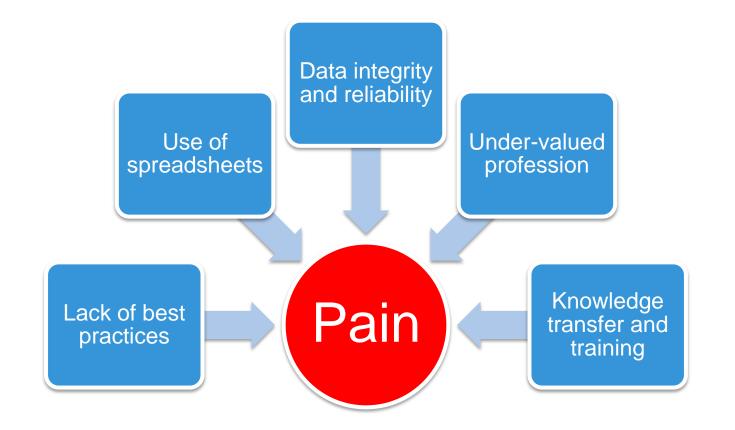
Standards in Hydrocarbon Accounting

Hydrocarbon Management Workshop, Stavanger June 2014

Peter Black

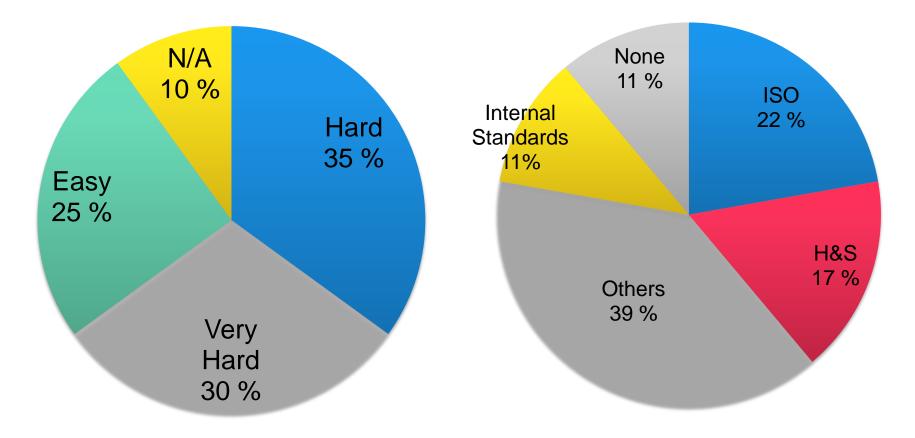


Choosing a topic





Identifying best practice



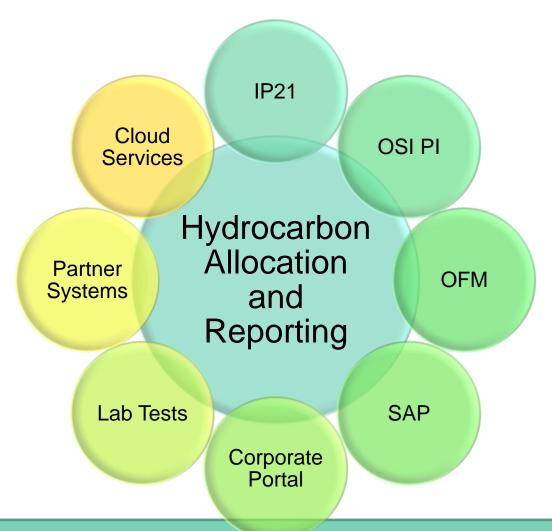


Standard needs

- Process standards
- Service standards
- Data standards



Integration challenges



Security



ISO 15926

"Having developed a generic data model and Reference Data Library for process plants, it turned out that this subject is already so wide, that actually any state information may be modelled with it."



Designing standards

- Design initially for usefulness
- Draw upon existing installed bases
- Expand your installed base fast before adding features
- Make it simple
- Modularise



The First Rule of Standards

Adoption Beats Perfection



Coverage

- DTS measurement
- Fluid analyses and samples
- Flow networks
- Production operations reports
- Production reports
- Historian data
- Well tests
- Wireline formation tests

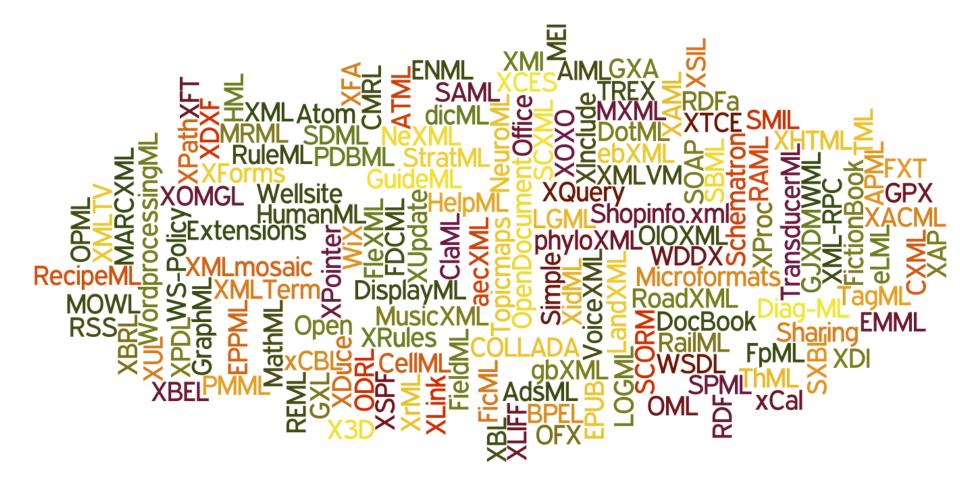


PRODML: The Bad

- Size
- Inadequate user guidelines
- Lack of reference applications
- Implicit relationships
- Lack of hyperlinks
- Rigid structure



Markup soup





The Open Data Protocol

- REST-based
- OASIS standard
- Support from Microsoft, SAP, PetroWEB, EnergySys...
- Fundamentally changes users' interaction with data
- Removes distinction between cloud and on-premises
- Metadata at the core





Semantics: \$metadata

Syntax: AtomPub or JSON

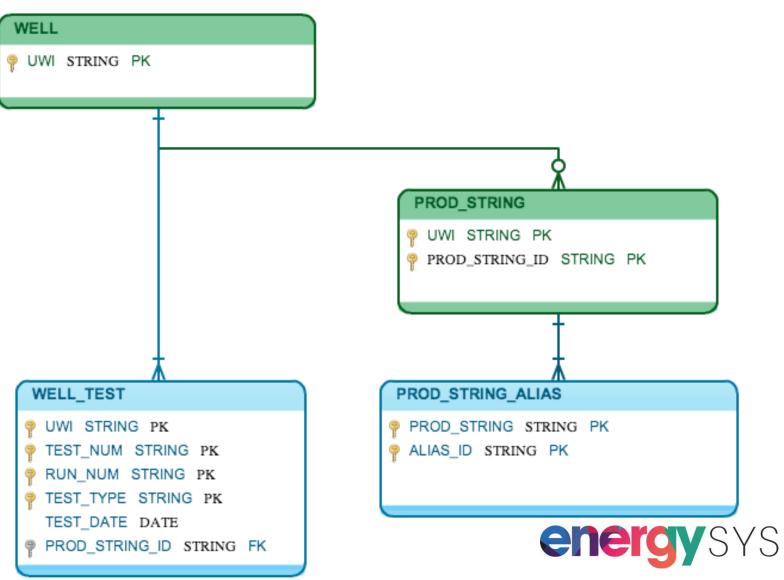
Protocol: HTTP

Identifiers: URI

Character Set: UNICODE



PPDM Well Data Model



A Definition of Agile

- ag·ile (adjective) \'a-jəl, jī(-ə)l\
- able to use change to gain a business advantage
- quick, smart, and clever

