

Americas PCA Forum and Member Meeting
Hosted by Bechtel, Houston

PCA and ISO 15926 are true!

Welcome!

Thore Langeland, Ph. D.
Chairman of PCA

Summing up Digital Plant 2010

- **Less participants**
- **Majority technical people**
- **Much more ISO 15926 in the presentations**
- **Less ISO 15926 at the stands – Bentley one excellent exception**
- **ISO 15926 work sessions - outstanding marketing!**
 - **Reference data**
 - **iRINGUserGroup**
- **Important arena for networking**

POSC Caesar Association (PCA)

- **PCA was established in 1997 and is a global, ideal and independent member organisation developing, enhancing, and promoting methodology, technology and solutions for data interoperability with special focus on ISO 15926 and W3C recommendations.**
- **PCA initiated ISO 15926 in 1997**
ISO 15926 Industrial automation systems and integration - Integration of life-cycle data for process plants including oil and gas production facilities.
- **More information: <http://www.posccaesar.org/>**



**General Manager
Nils Sandsmark**



**Technical Manager
Magne Valen-Sendstad**

ISO 15926 Industrial automation systems and integration -- Integration of life-cycle data for process plants including oil and gas production facilities

Some statements:

ISO 15926 is extraordinarily robust and complete, both in its specification and the technical infrastructure through which it is deployed.

NRX, March, 2007

We think ISO 15926 is beyond the tipping point.

AspenTech, December, 2007

Bentley Systems has released OpenPlant software products for the creation and management of plant infrastructure based on the ISO 15926 data model.

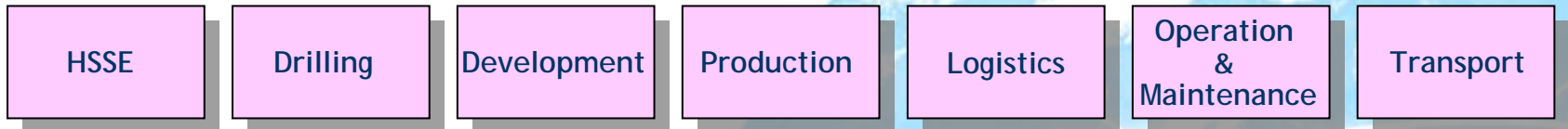
Bentley, January, 2008

ISO 15926

- **ISO 15926 – 1: *Overview and fundamental principles.***
- **ISO 15926 – 2: *Data model.***
- **ISO 15926 – 3: *Ontology for geometry and topology.***
- **ISO 15926 – 4: *Initial reference data.***
- **ISO 15926 – 6: *Scope and methodology for developing additional reference data***
- **ISO 15926 – 7: *Template Methodology.***
- **ISO 15926 – 8: *OWL Representation.***
- **ISO 15926 – 9: *Implementation methods for the integration of distributed systems – Façade implementation.***
- **ISO 15926 – 10: *Abstract Test Methods***

Harmonizing the E&P terminology

Integrating the terminology from the different business domains in E&P



Integrating HSE dialects across E&P sector

Integrating drilling dialects

Integrating development dialects

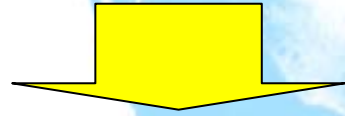
Integrating production dialects

Integrating logistic dialects

Integrating O&M dialects

Integrating transportation dialects

Creating a common terminology for the E&P sector

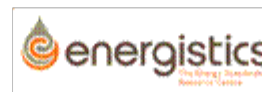
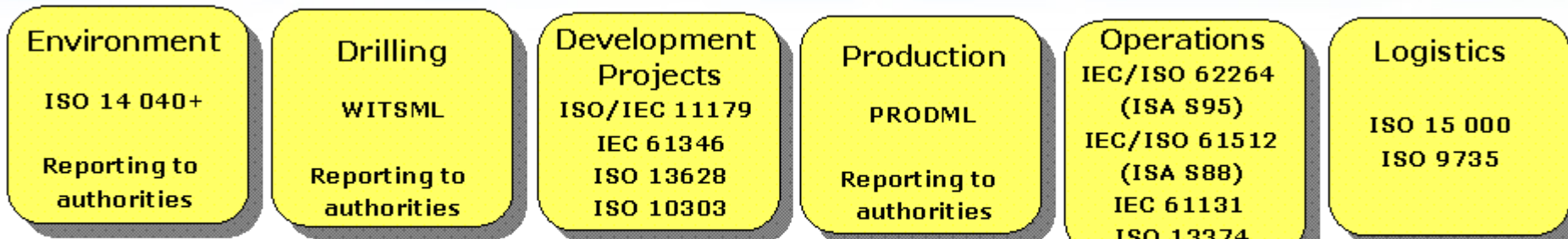


From local domain data standards to an oil and gas ontology



Contains dictionaries, taxonomies and ontologies for relevant business processes in E&P sector

PCA collaborates globally on the oil and gas ontology



Data integration based on ISO 15926 for creating an Oil and Gas Ontology (OGO)

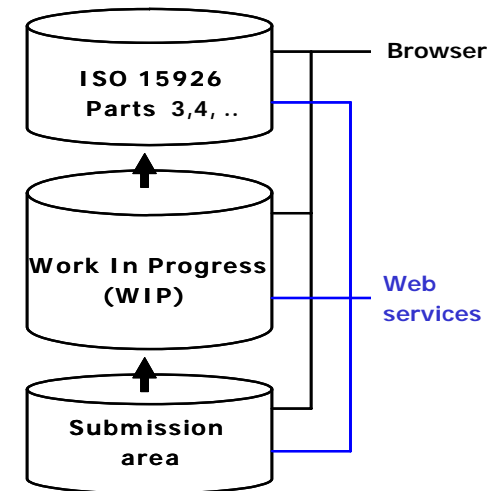


<http://www.posccaesar.com/>



PCA operates Reference Data System (RDS) and maintain and enhance the content

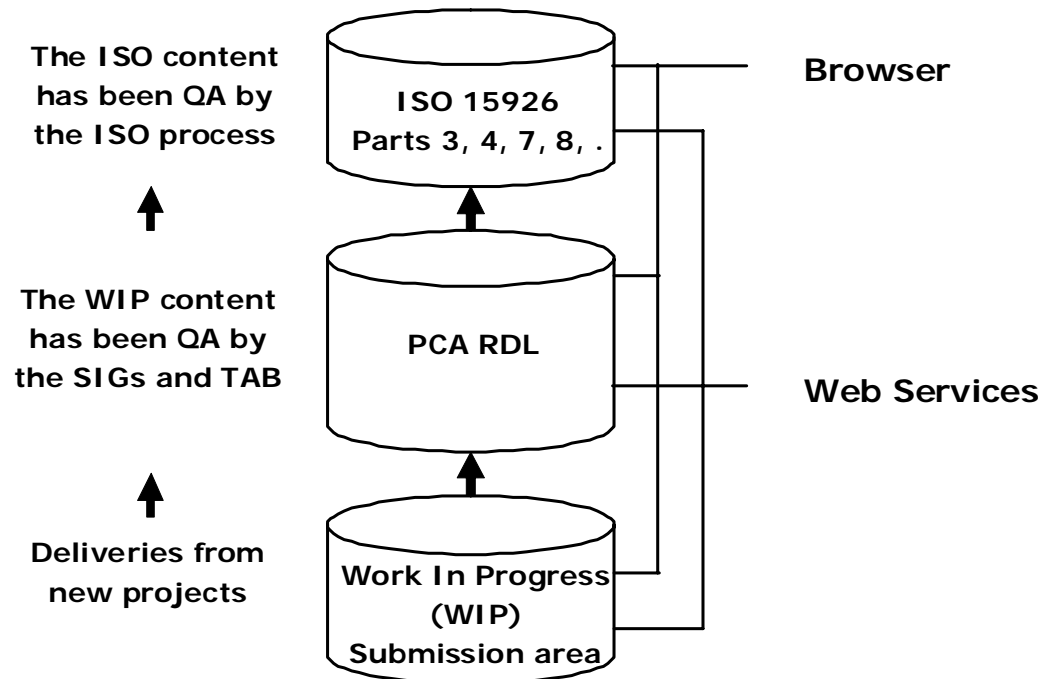
- The reference data (ontology) is available free of charge at PCA's Reference Data System (RDS)
- RDS consists of 3 parts – ISO, WIP and submission area
- The RDS is linked up to Internet and all technologies and services of the Web are available.
- Special Interest Groups maintain and enhance the different domains of the ontology



PCA is in for a change

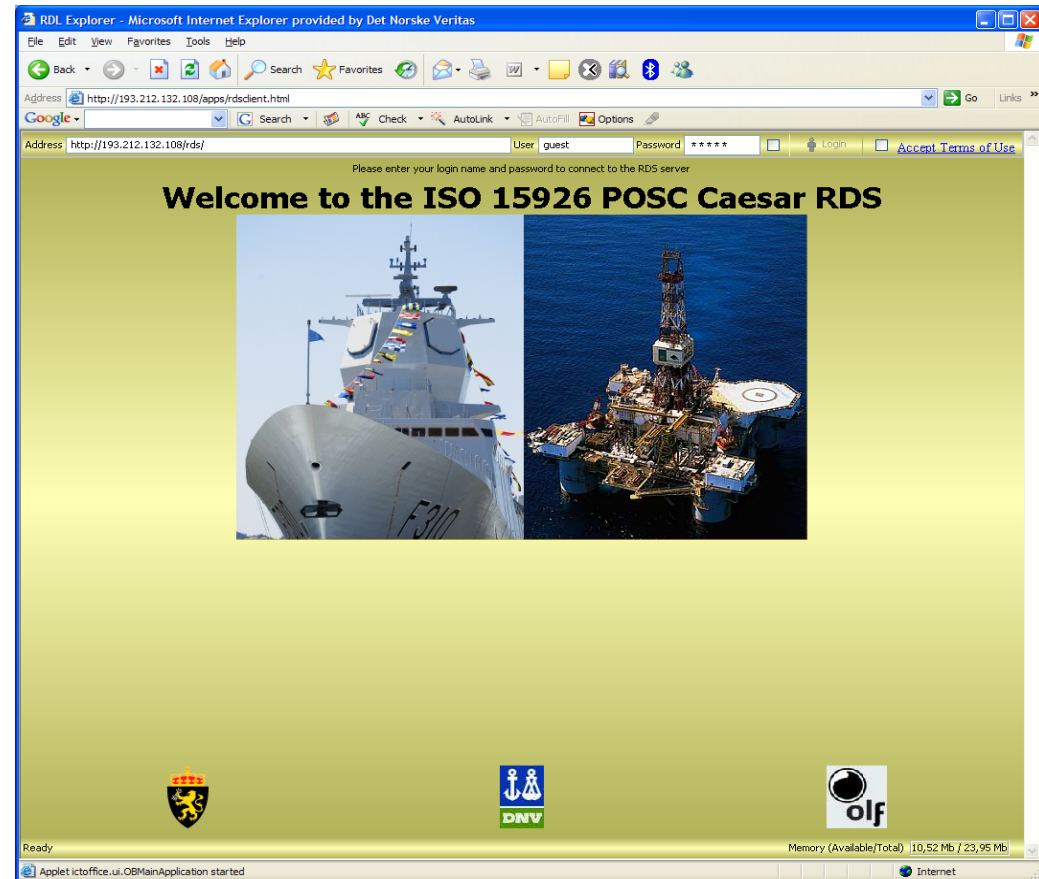
- From project and development of RDL
- To operation and support and service

**PCA will still have ISO
and RDL as 1st priority.**



Reference Data System

- **RDS improved and maintained and operated 24 hours per day and 7 days week**
- **Joint project between PCA and FIATECH**



Member communication

➤ **Conferences**

- Digital Plant
- Semantic Days

➤ **3 member meetings per year**

- ✓ Americas PCA Forum and Member Meeting - March
- ✓ Europe PCA Forum and Member Meeting – June
- ✓ Asia/Australia PCA Forum and Member Meeting – October

➤ **Special Interest Groups**

- ✓ Net meetings
- ✓ Wiki

➤ **Direct contact with an increased PCA staff**

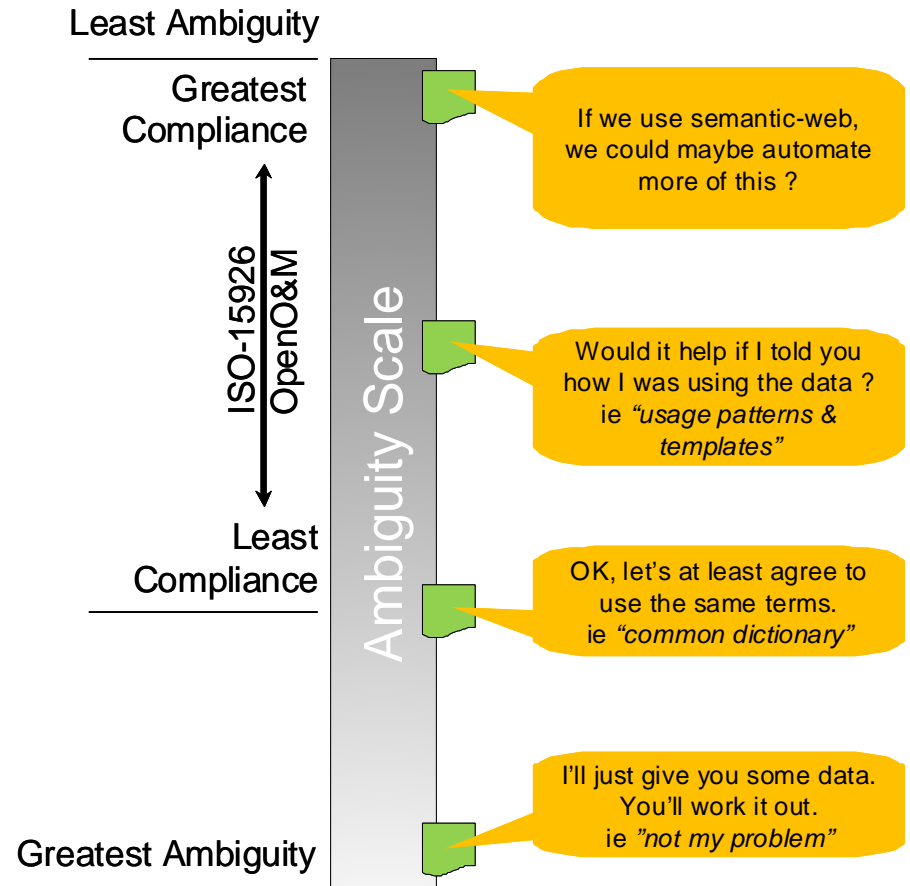
3D

**Establish a SIG to work
on solutions for 3D is
the ISO 15926 setting**



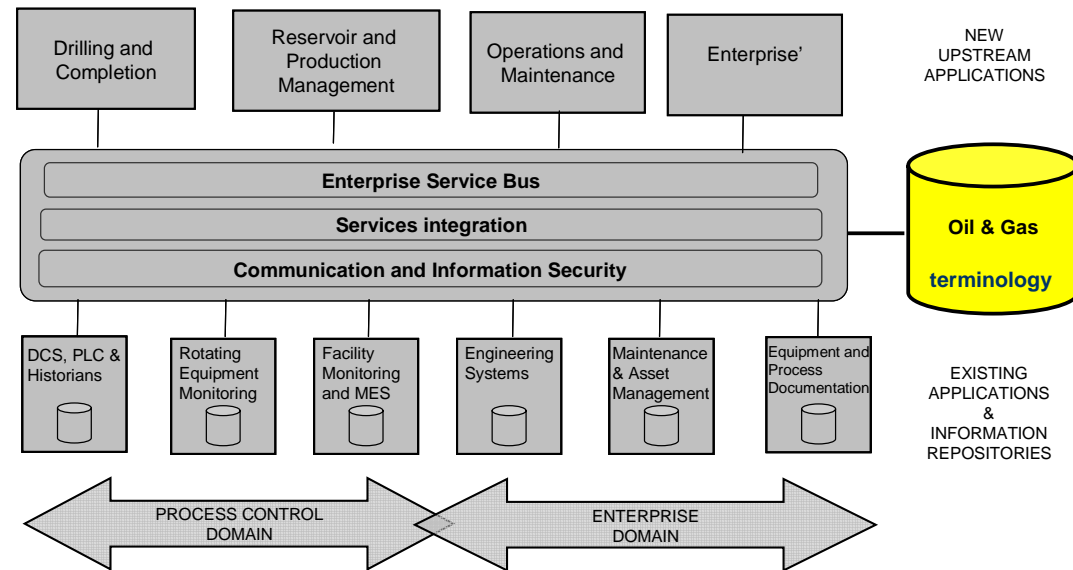
Certifications

**Authorize independent
companies to do
certification on ISO 15926**



Cross industry service bus

Hopefully IBM, Microsoft and SAP together with iRING, Open O&M and PCA will contribute to a Cross Industry Service Bus.

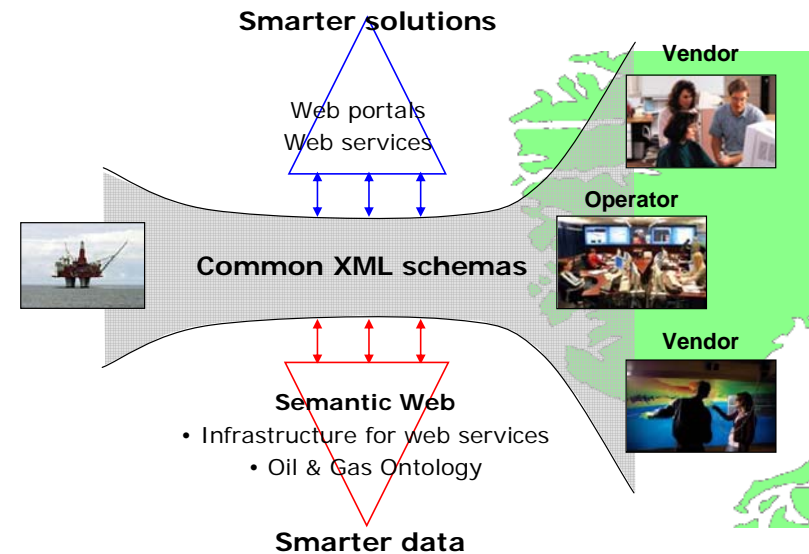


IO and real time data

PCA has to comply with the needs from the operators has for real time data for IO

- Field data**
- Health, safety, environment
 - Seismic
 - Drilling & Completion
 - Reservoir & production
 - Operation & maintenance
 - Logistics
 - Transportation

Collaboration across the offshore industry



POSC Caesar Association (PCA)

National chapters

- 25+ members
- 50% of the fees for local use, plan for increasing this share in the future
- National Articles of Association to be approved by PCA Board of Directors
- Each national chapter has one member in Advisory Board
- Local agent in the starting up phase

A USA chapter of PCA should be the goal for 2011.

Naming ISO 15926

ISO 15926 should have a name that is informative for executives.

Please send proposal to

nils.sandsmark@posccaesar.com

Thanks to Bechtel for hosting this event!

Thank you for your attention!

Compete and collaborate - co-epitition - is the way to stay alive in the global economy.