

Thursday 14 March

KNOWLEDGE FORUM

13:30 - 15:00



**Novel Approaches to Cost-effective Reservoir Management
(Presented by the Society of Petroleum Engineers WA)**

Overcoming Data Obstacles for Consistently Better Reservoir Decisions

Martin Storey



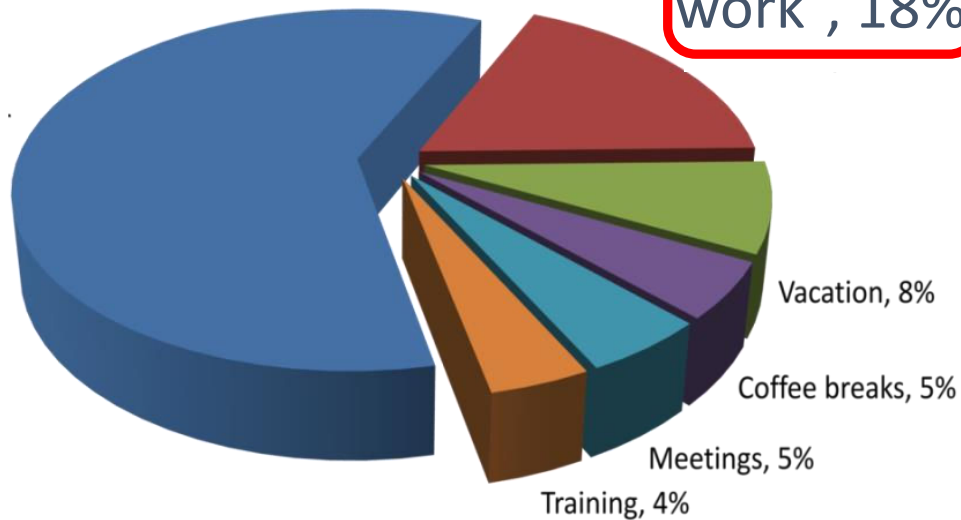
**Professional Petroleum
Data Management**
Association

Context

Work profile for Geoscientists

Looking for &
checking data, 60%

“Useful
work”, 18%



1991

Work profile for Geoscientists

- Benchmark study (Repsol)
- Comparative data from 9 majors + 1 super-major
- Time lost before any interpretation can be started ranges from **35-70%**, and for some tasks **90%**

~Today (2016)

F. Kunzinger et al, 2016,
PNEC 21st Petroleum Data Conf.

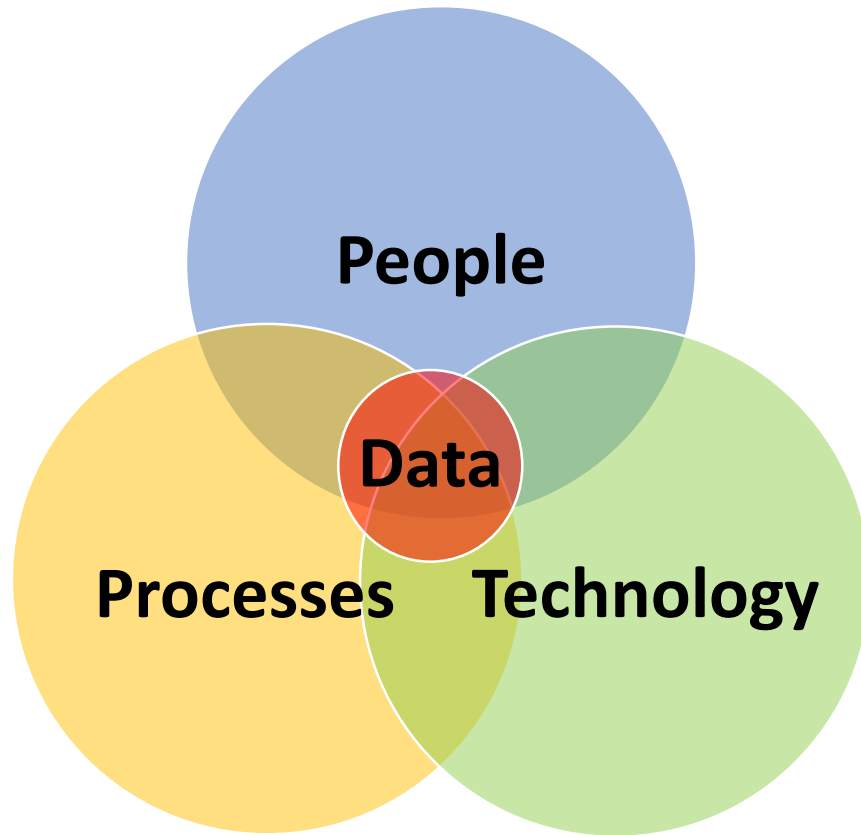
Est. 1991: PPDM

The **Professional Petroleum Data Management Association (PPDM)** is the **not-for-profit, global society** within the petroleum industry that provides **leadership for the professionalisation of petroleum data management** through a range of **programs** and **activities**.

PPDM enables the development of **professional data managers**, engages them in **community**, and endorses a **collective body of knowledge** for data management across the oil and gas industry.

**Driving better business decisions through
better E&P data management standards and practices**

Cost-Effective Reservoir Management?



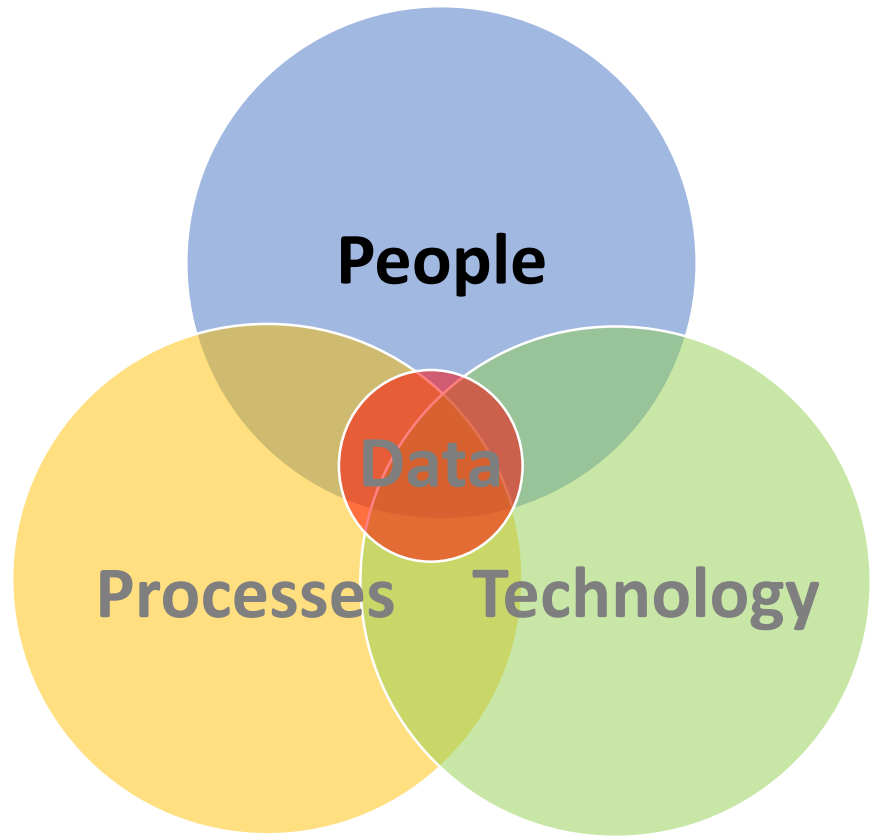
**Better data enables
better decisions**

Good data?



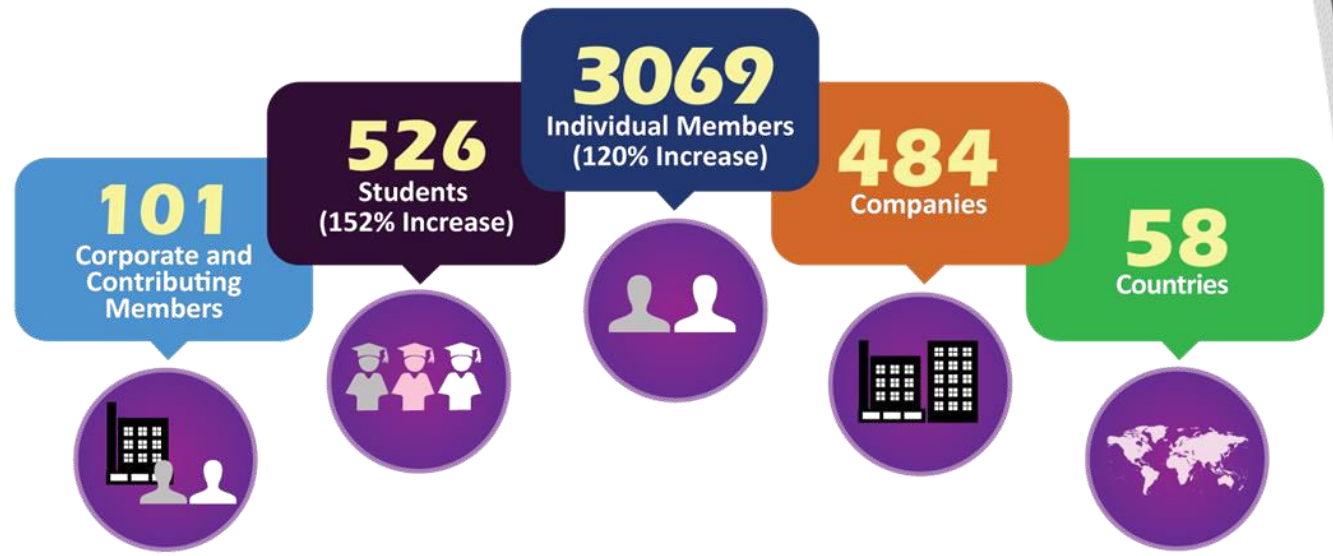
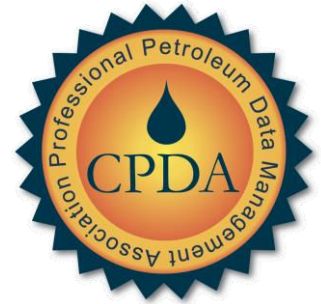
- Accessible
- Reliable
- (High quality)

How To Ensure “Good Data”? [1]

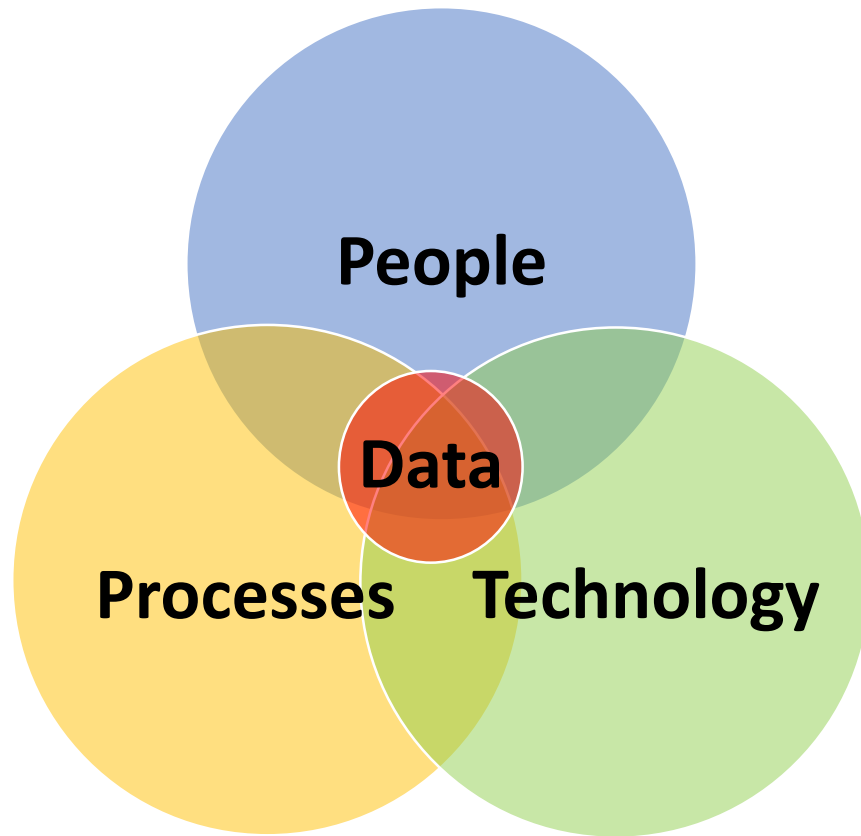


Competence and Capability:

- Recognition
- Professional Development options
- Opportunities
- Belonging to a community

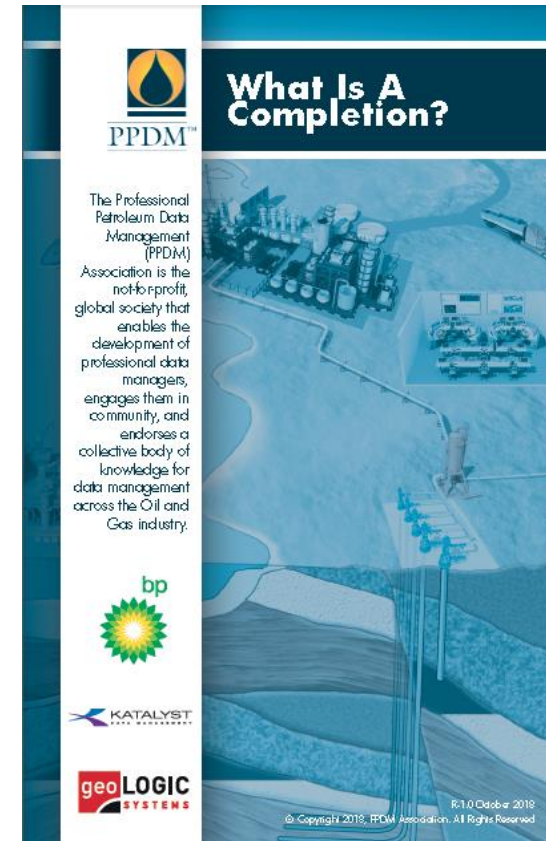
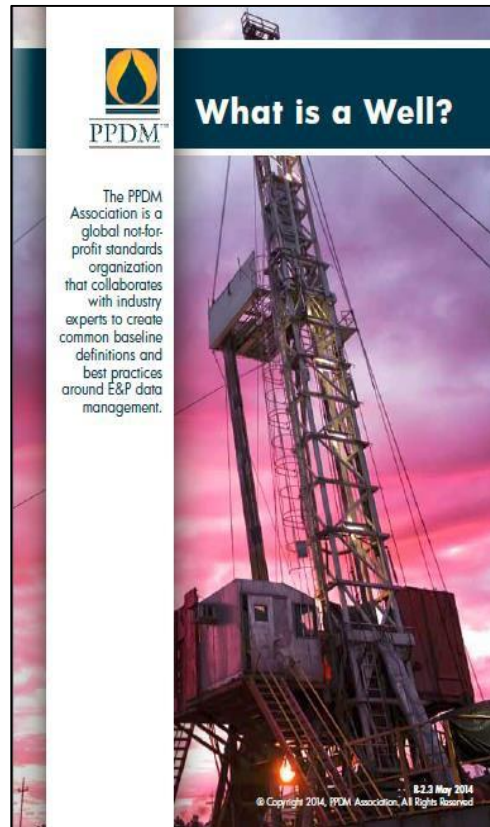


How To Ensure “Good Data”? [2]

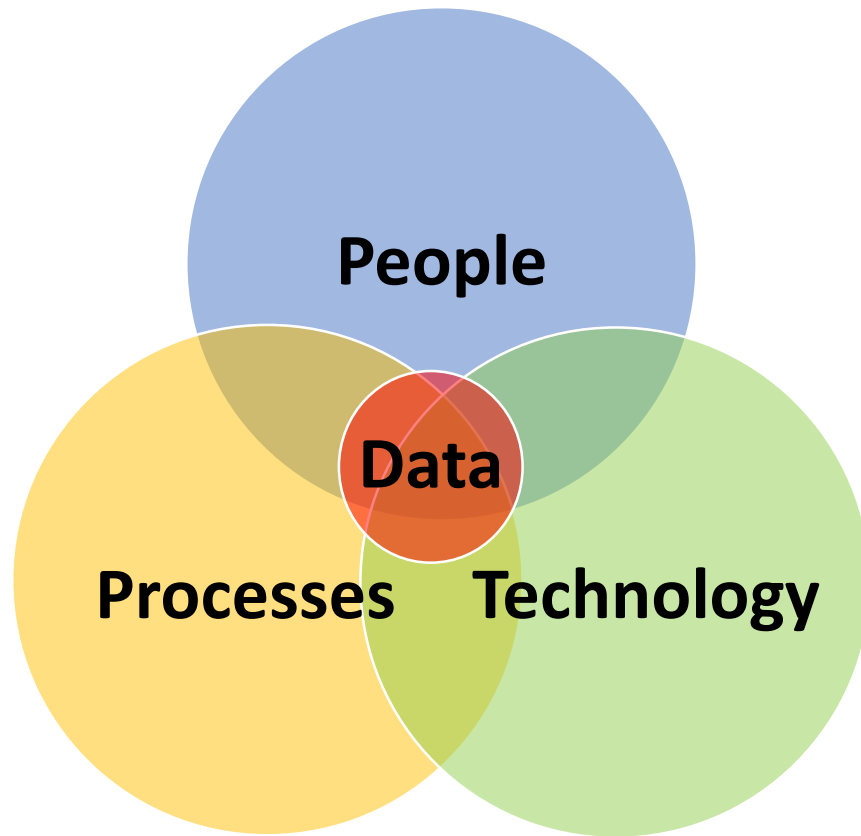


End semantic confusion

- Adopt robust standard vocabularies

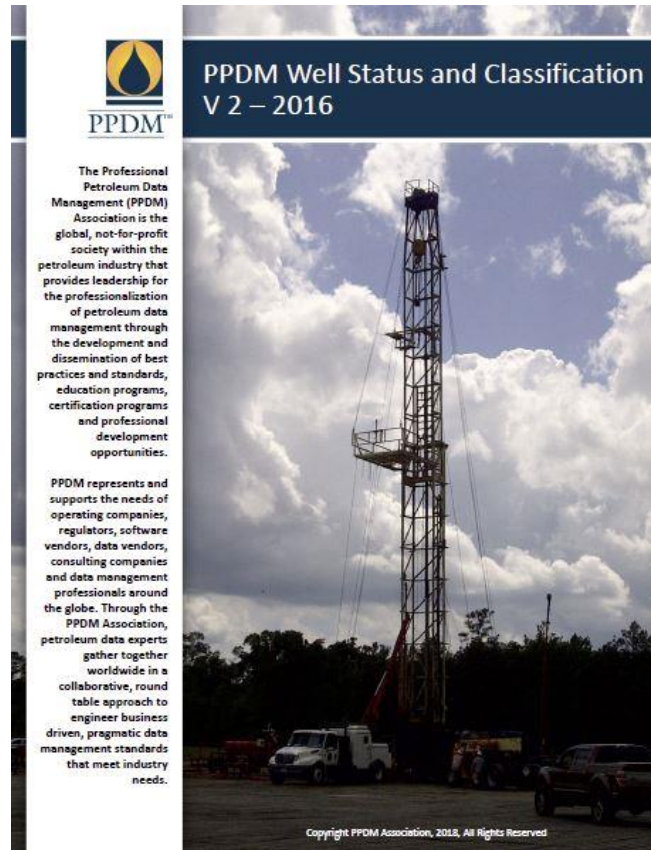


How To Ensure “Good Data”? [3]



Reconcile Asset Identification

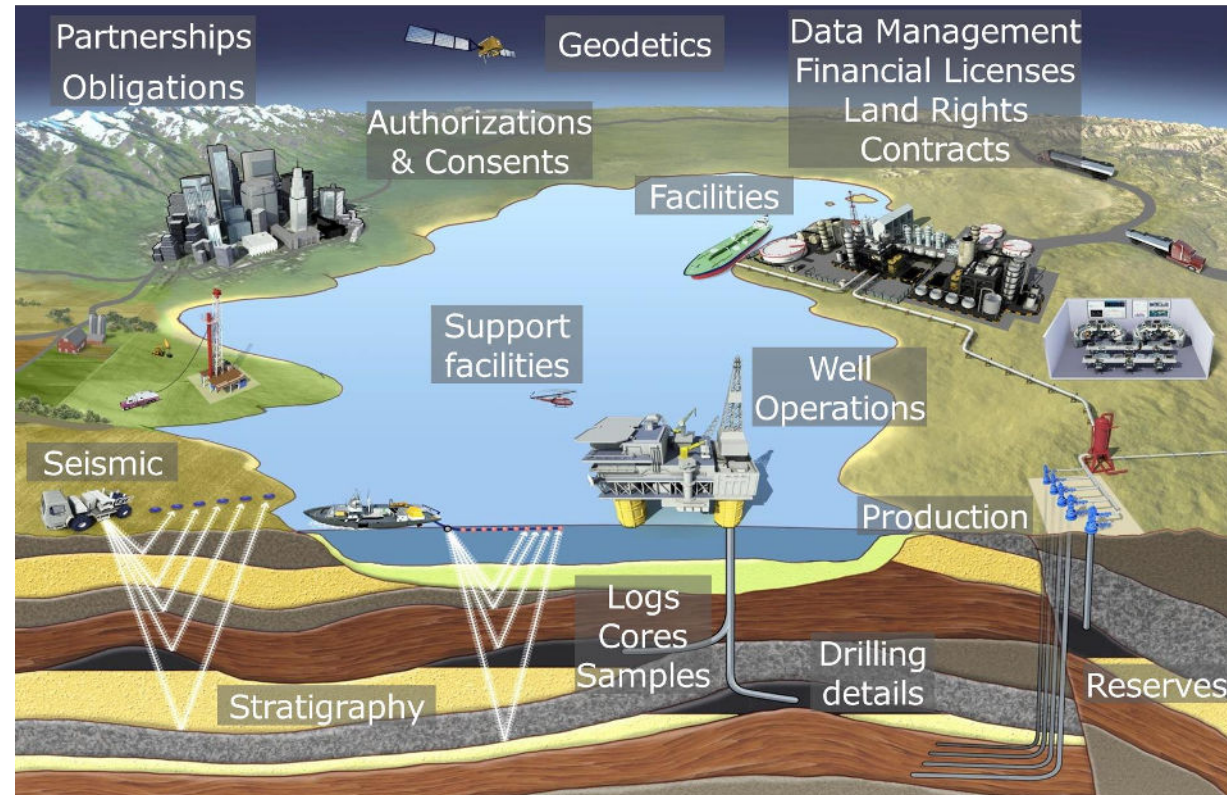
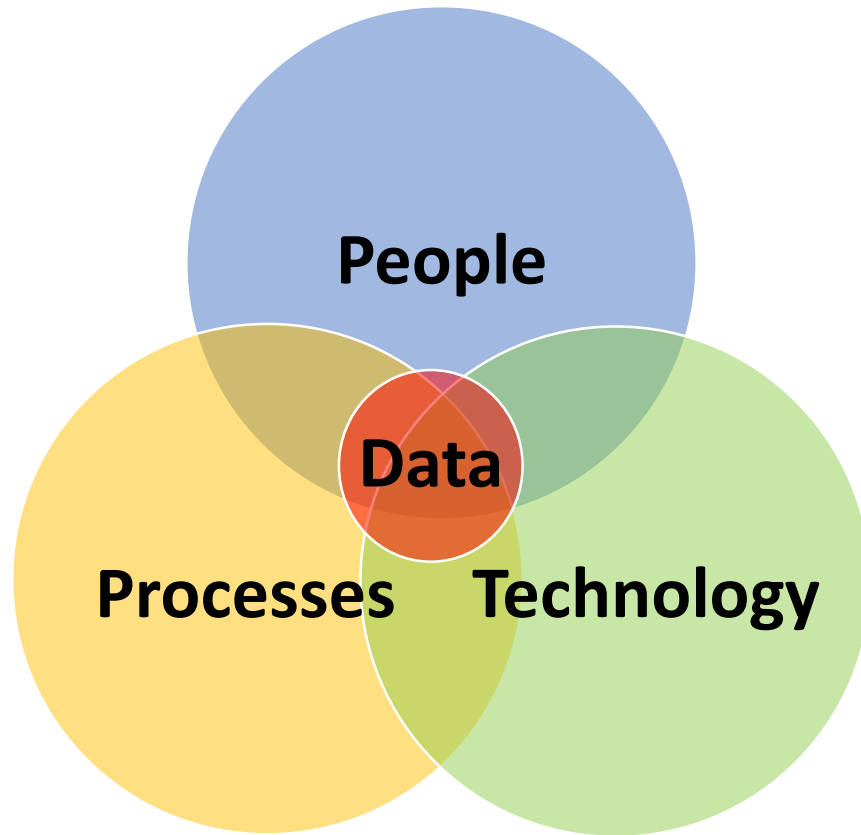
- Clarify and stabilize identification system



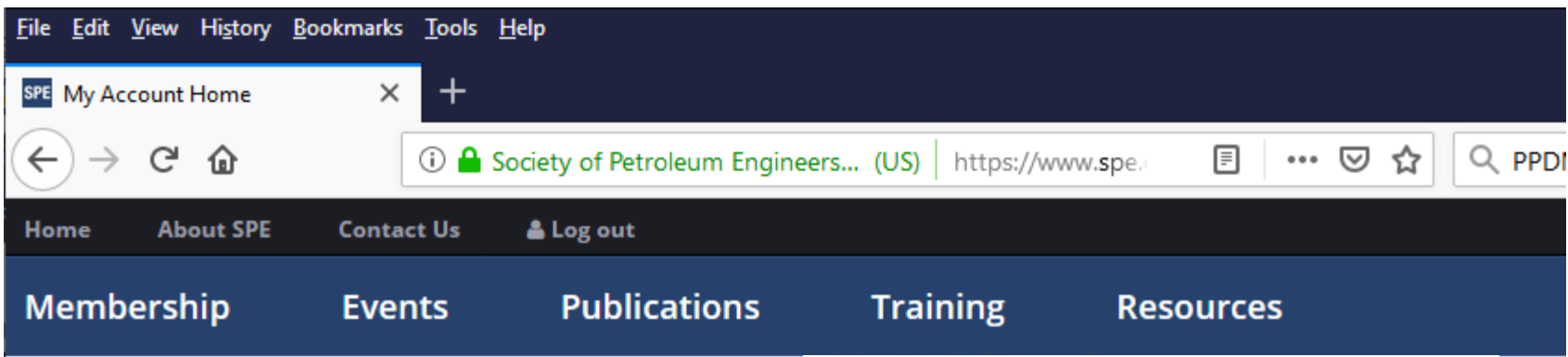
How To Ensure “Good Data”? [4]

Make data compatible, ready for integration and exchange, now and later

- Use vendor-neutral data formats



PPDM V3.9 model span

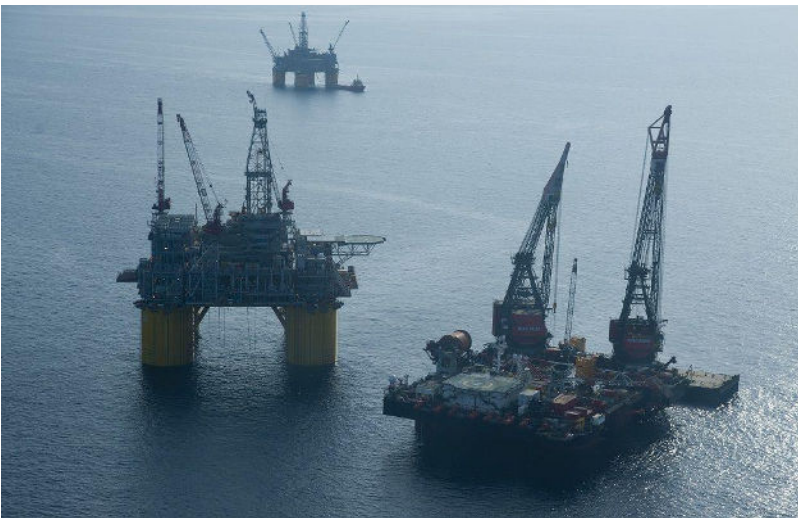


Society of Petroleum Engineers

06 MARCH 2019

Change in Energy Sector is So Extreme Oil Companies May Need to Share Data

Oil companies generate an enormous amount of data but are reluctant to share it. But more sharing of information may be required in the future to keep up with a rapidly changing energy landscape.



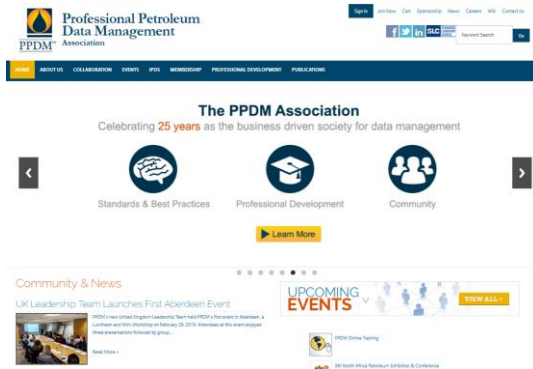
“Some delegates who heard the speech said they were struck by the call for openness and wondered when and how it would begin.”

Mike Dewitt, VP of Upstream Wells, Shell International
@ SPE/IADC in The Hague on 5 March 2019

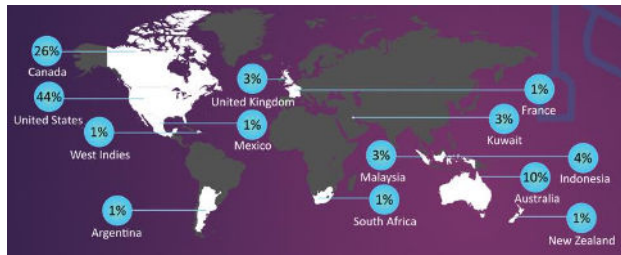
Your go-to DM resource

ppdm.org

Perth PPDM Team

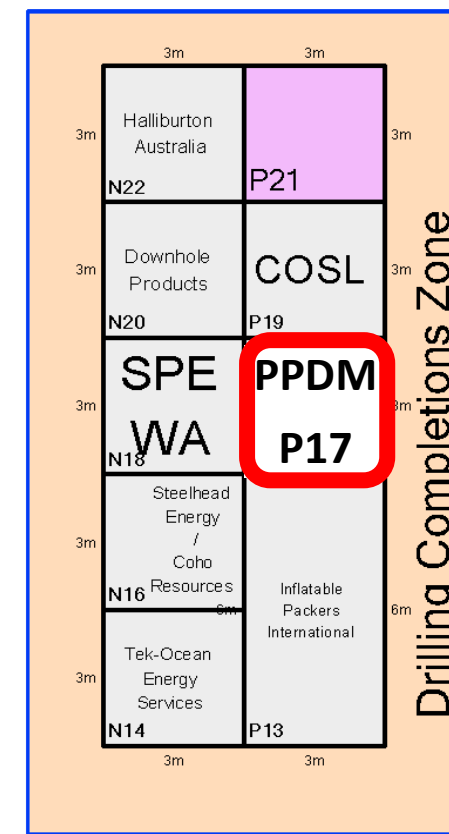


Free access (after sign-in)



Martin Storey, Well Data QA, *Chair*
Grace Yang, Katalyst DM, *Secretary*
Andy Cairns, CGG
Alan Dunn, NOPTA
Christopher Hudson, Inpex
Jess Kozman, Woodside
Tony Perry, Paragon
Jason Ward, Information Quality

now in Brisbane
& Adelaide too!



@ AOG Stand P17

Next Events in Perth:

- Quarterly luncheon in May 2019
- Annual DM Workshop (Aug 2019):
“Data management in support of the Digital Transformation”

Addressssing Data Obstacles

such as:

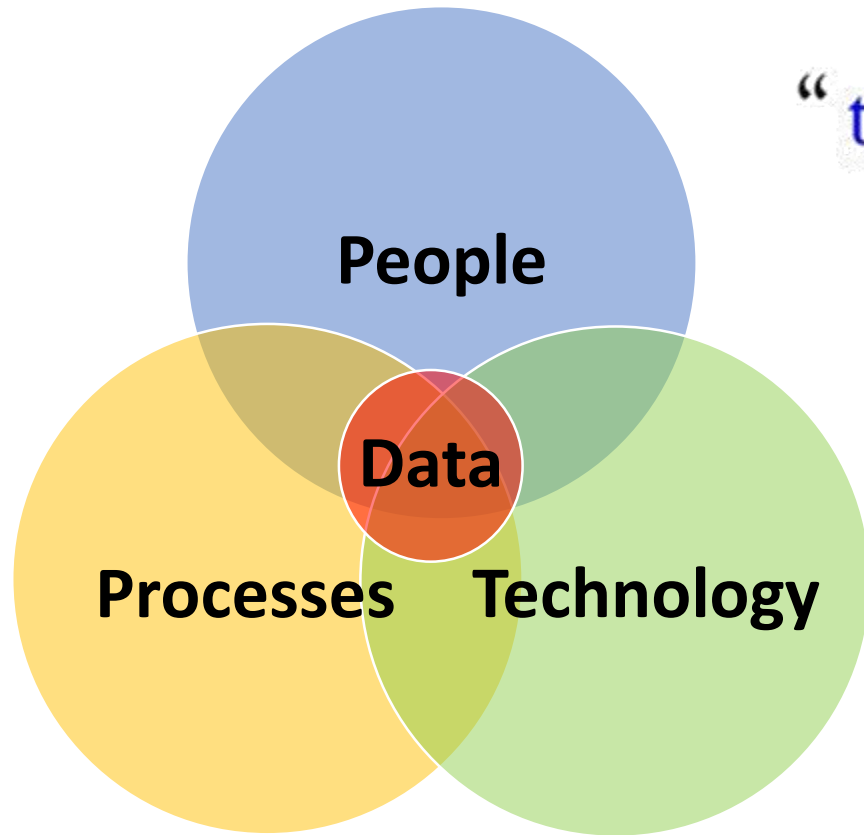
- Limited Competence and Capability
- Semantic Confusion
- Asset Identification Anarchy
- Incompatible, proprietary models

through:

- Recognition, professional development options, opportunities, driven community
- Robust standard vocabularies
- Clear and stable identification system
- Vendor-neutral data model

yields better data, enabling
consistently better reservoir decisions

Novel Approaches to Cost-Effective Reservoir Management



“technology alone is not enough”

- Steve Jobs



Overcoming Data Obstacles

such as:

- Limited Competence and Capability
- Semantic Confusion
- Asset Identification Anarchy
- Incompatible, proprietary models
- Recognition, professional development options, opportunities, driven community
- Robust standard vocabularies
- Clear and stable identification system
- Vendor-neutral data model

yields better data, enabling
consistently better reservoir decisions

@ AOG
Stand P17