

Bechtel – PCA Instrument SIG Workshop 2010

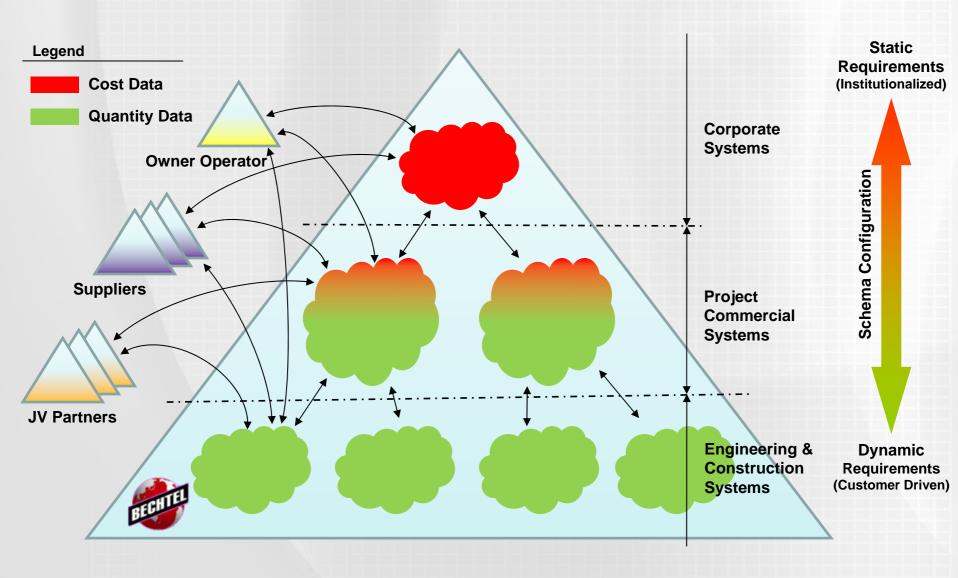
Robin Benjamins

Bechtel

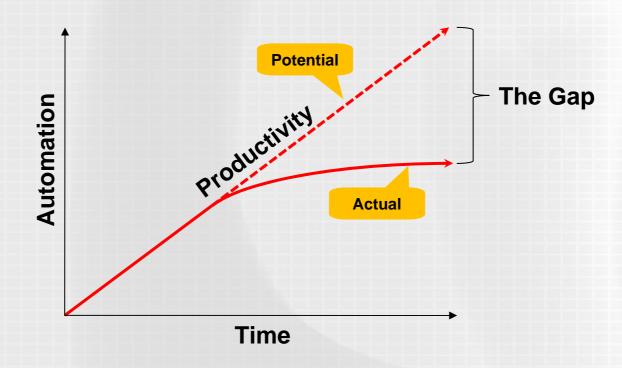
Central Engineering & Technology



Bechtel's Information Landscape

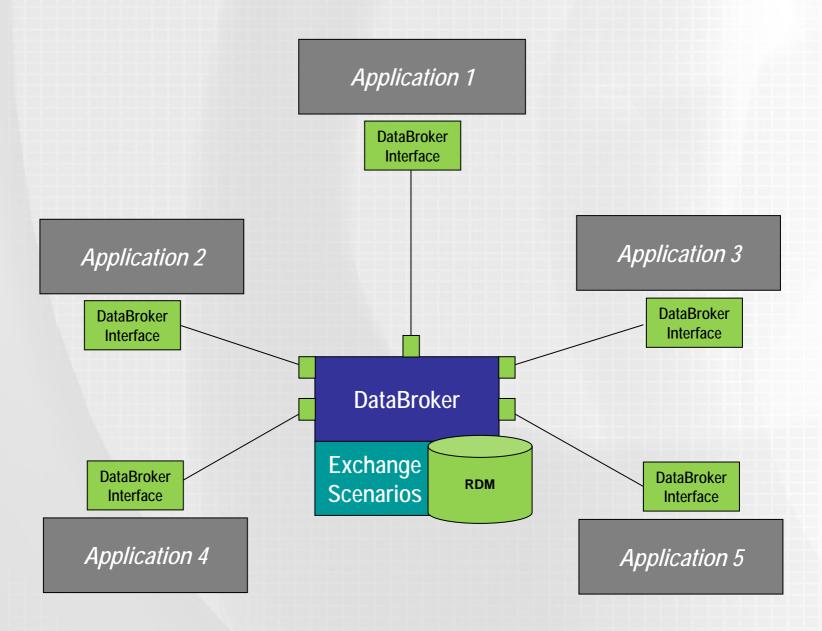


Productivity

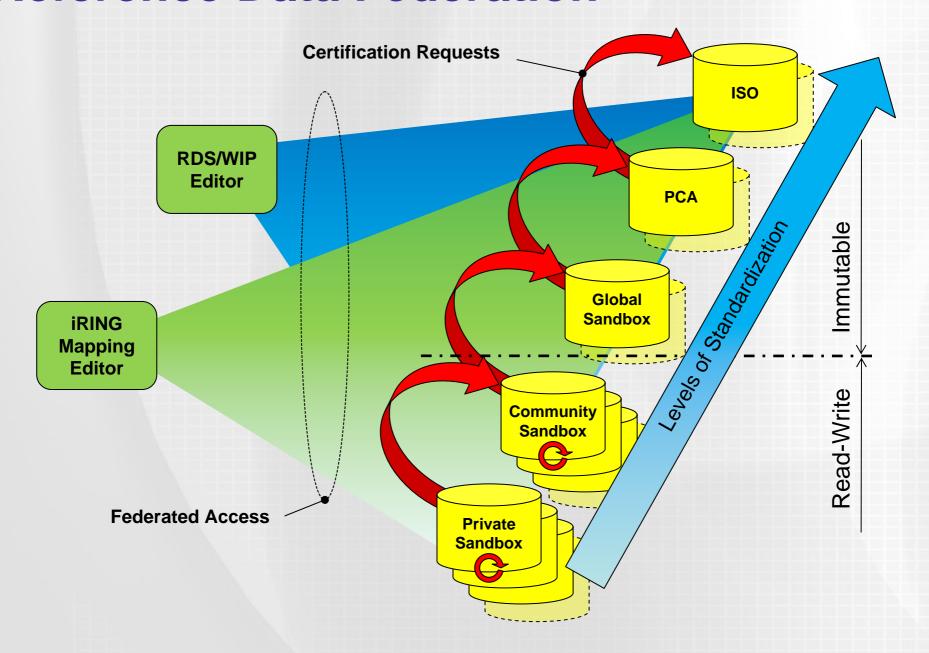


- Use of automation has resulted in productivity improvement but gains are not keeping pace with investment and expectations
- How can we break through the "Gap"?

DataBroker and the RDM



Reference Data Federation



Information Ambiguity

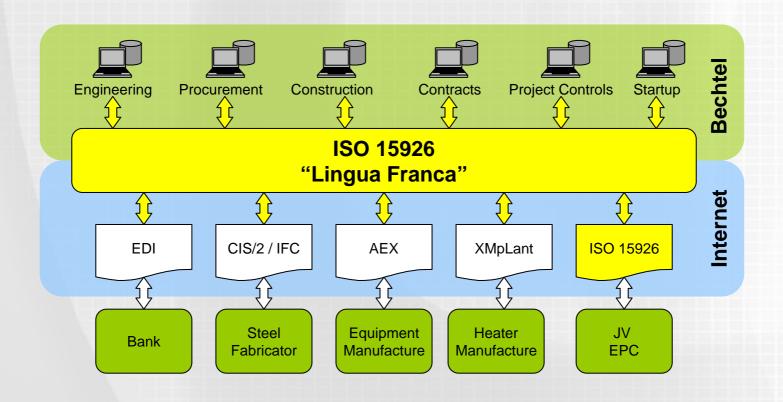
- Data exchanges operate most successfully when ambiguity is eliminated
- Ambiguity between exchanging partners can require significant effort (labor) to remove
- The higher the ambiguity, the higher the cost to implement effective and efficient data exchanges

Ambiguity = Cost

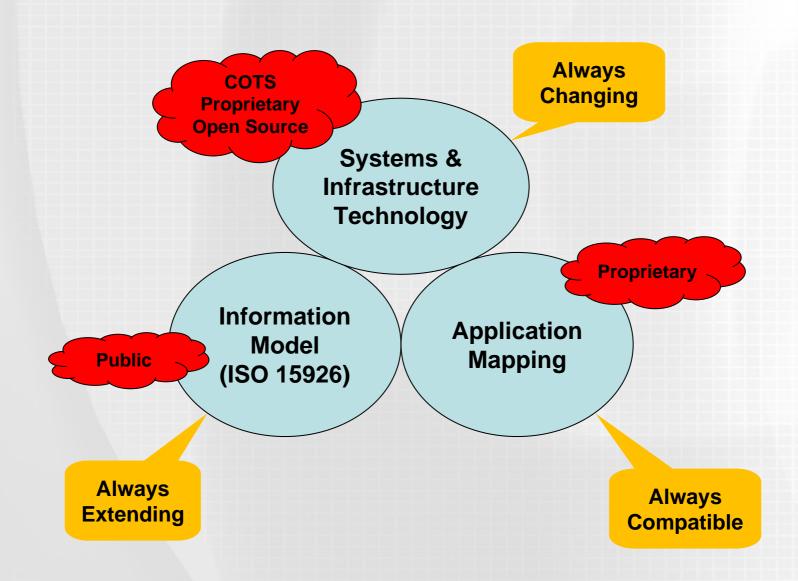
Data

Greatest **Least Ambiguity** Compliance **iRING 2.0 Implementation** 15926 Scale **iRING 1.0 Implementation** Iguity **XMpLant** Least Schema Q W W **Implementation** Compliance Comma Delimited File **Greatest Ambiguity**

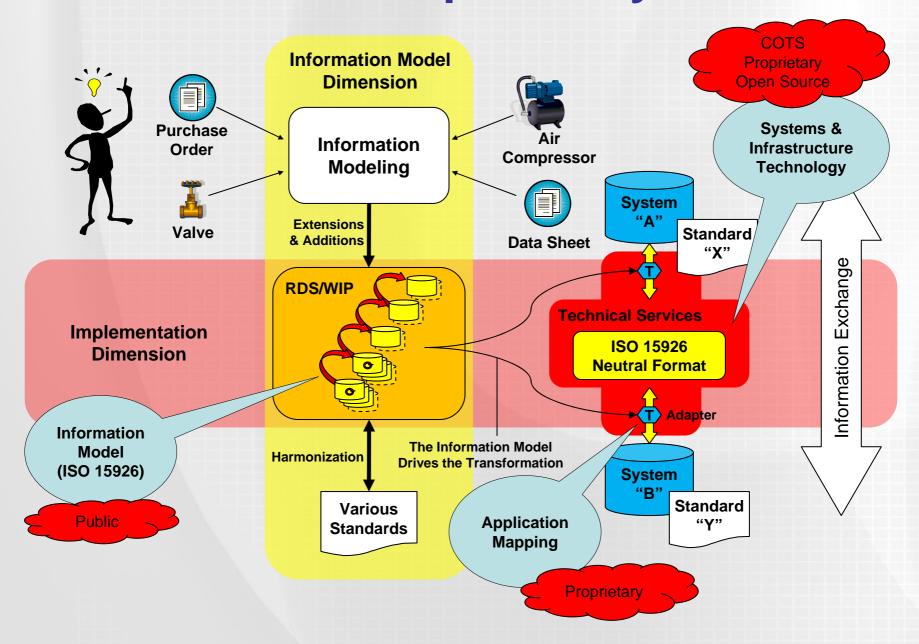
Plethora of Standards

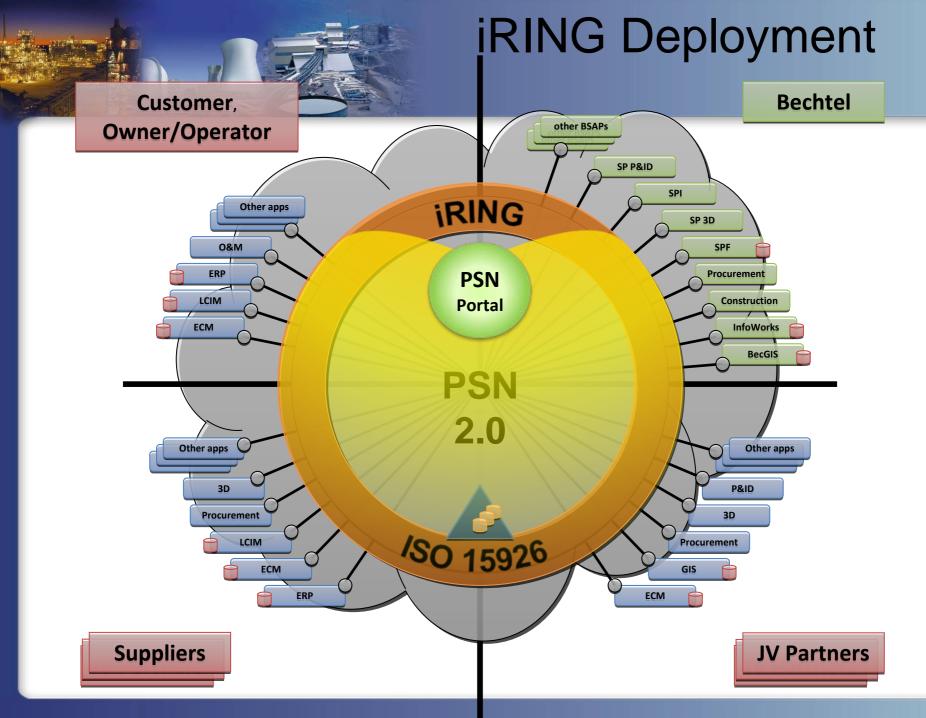


Automation Investment



Model Driven Interoperability





PISER GROUP

www.iringug.org

iring



iRING – A set of information interoperability and integration protocols and reference data that are compliant with the ISO 15926, Parts 7, 8, & 9 standards, which builds and depends on ISO 15926 Parts 1 - 6.



iRINGUserGroup - An open online community of users, companies, and organizations who use, are considering using, or are developing or deploying iRING protocols.
The iRINGUserGroup is also responsible for the management, enhancement, and maintenance of iRINGTools and iRINGSandbox.

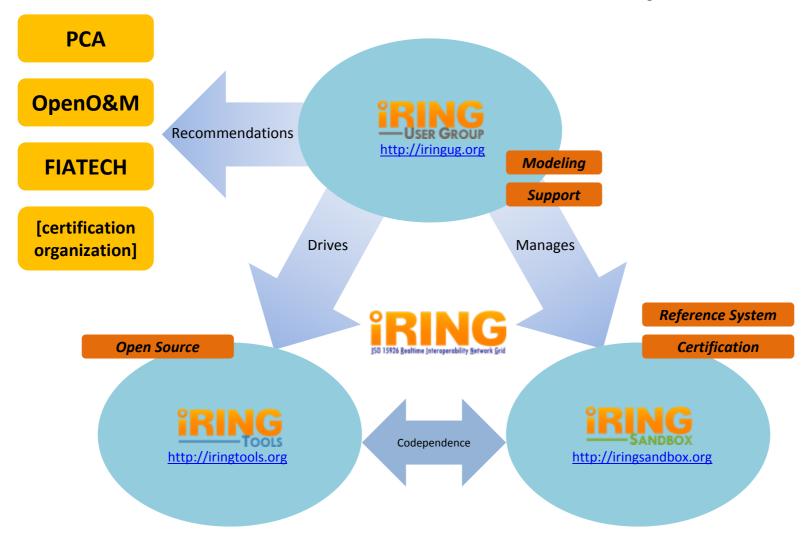


iRINGTools - A set of free, public domain, open source (BSD 3 license) software applications and utilities that implement *iRING* protocols. *iRINGTools* provide users with production ready deployable solutions. *iRINGTools* also provides technology solution providers with usage patterns for the implementation of *iRING* protocols in their respective solutions.



iRINGSandbox – An internet hosted, publicly accessible and publicly downloadable, *iRING* reference system that will showcase the use of *iRINGTools* and other technology solution provider's products that implement *iRING* protocols. This reference system will also include an example *iRING* community sandbox that will hold ISO 15926 RDL extensions.

iRING – Relationships



2010 Demonstrations

- Digital Plant 2010
 - iRINGUserGroup
 - iRINGTools/Bentley demonstration
- Private Demonstrations
 - Bechtel
 - Hatch
 - Emerson
- FIATECH Conference 2010
 - Bechtel

Emerson

Bentley

Hatch

- CCC

Intergraph

- CH2M Hill

TCS

- Dow

FIATECH iRING Demo





Reference Data Federation

