



**iRING**  
ISO 15926 Realtime Interoperability Network Grid

# Camelot Project

## Semantic Days, May 31-June 3

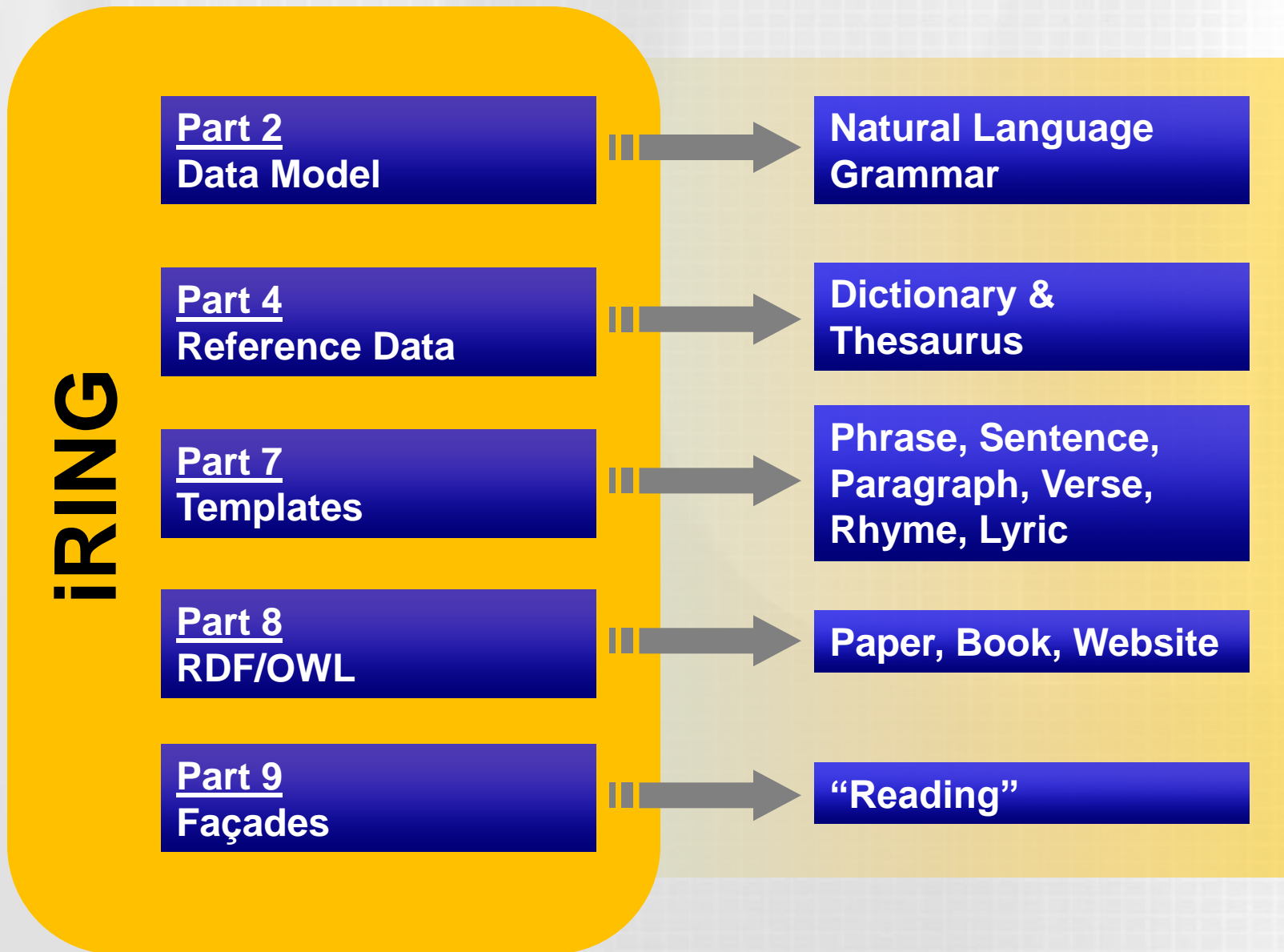
Robin Benjamins

Bechtel

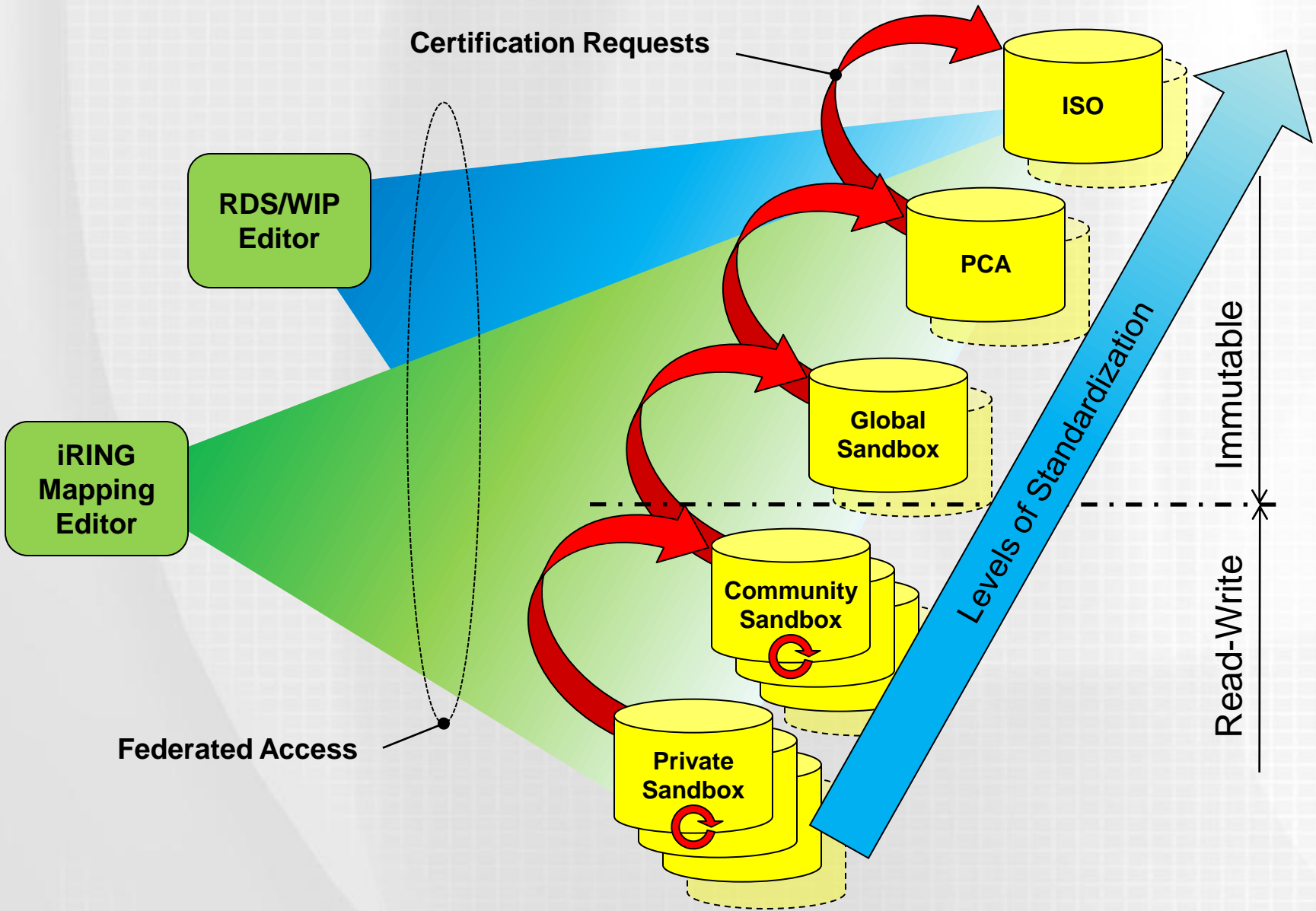
# Recent History

- ISO 15926 Part 7 publication draft issued December 2008
- Developed iRING concept
- Started Camelot project to build and demonstrate prototype of what became iRINGTools
- Delivered iRINGTools 1.0.0 on May 29<sup>th</sup>, 2009.
- Started Avalon project that has lead to the Joint PCA/FIATECH Operational RDL/WIP project
- Demonstrated IBM RSM and iRINGTools at ISA Expo 2009
- Updated iRINGTools to support ISO 15926 Part 8, Reference Data Editor, Mapping Editor
- Developed concept for an iRING user group
- Launched iRINGUserGroup in January, 2010
- Launched JORD - March 2010
- Launched Geometry SIG - April 2010

# ISO 15926 “Parts” Analogy



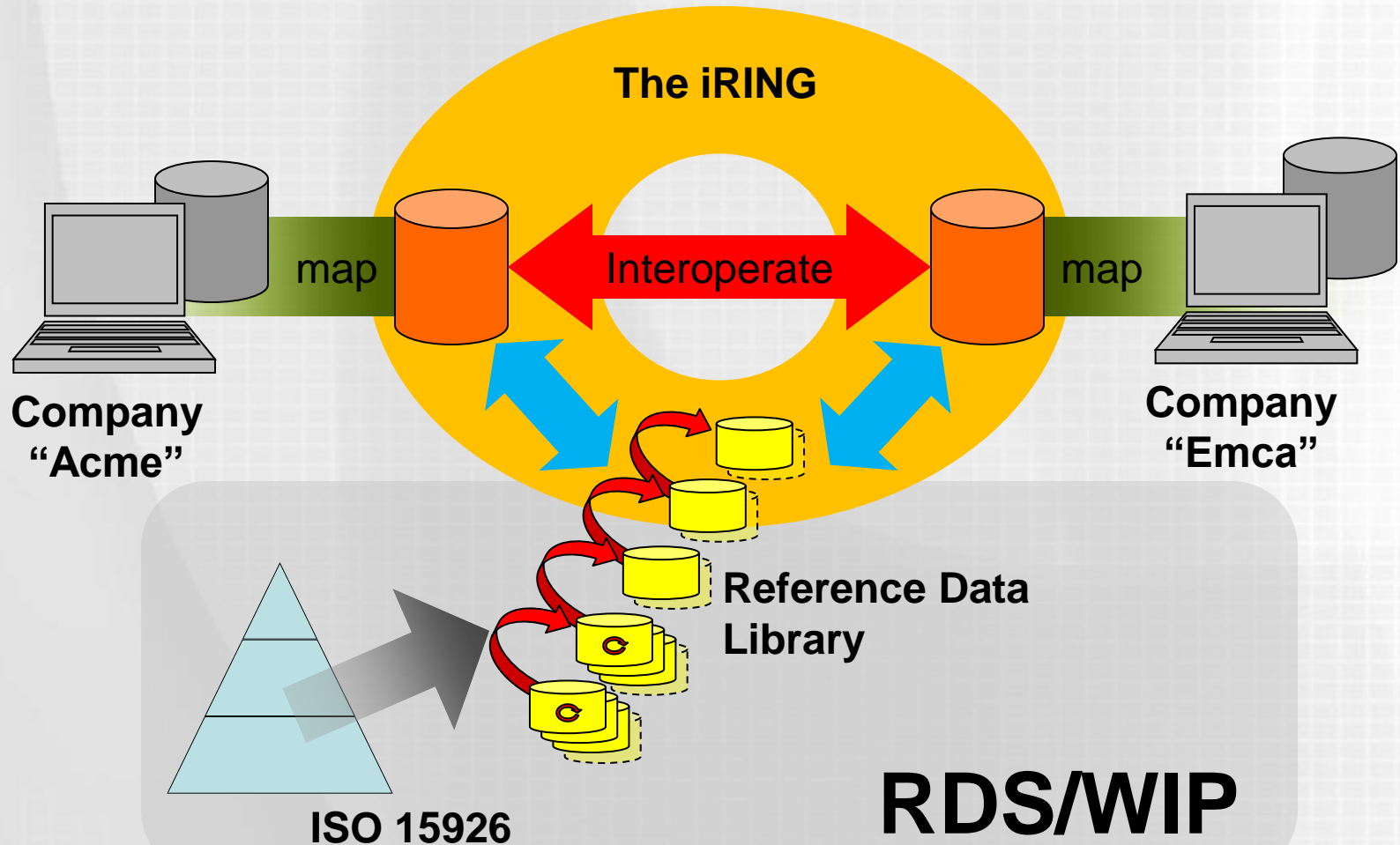
# Reference Data Federation



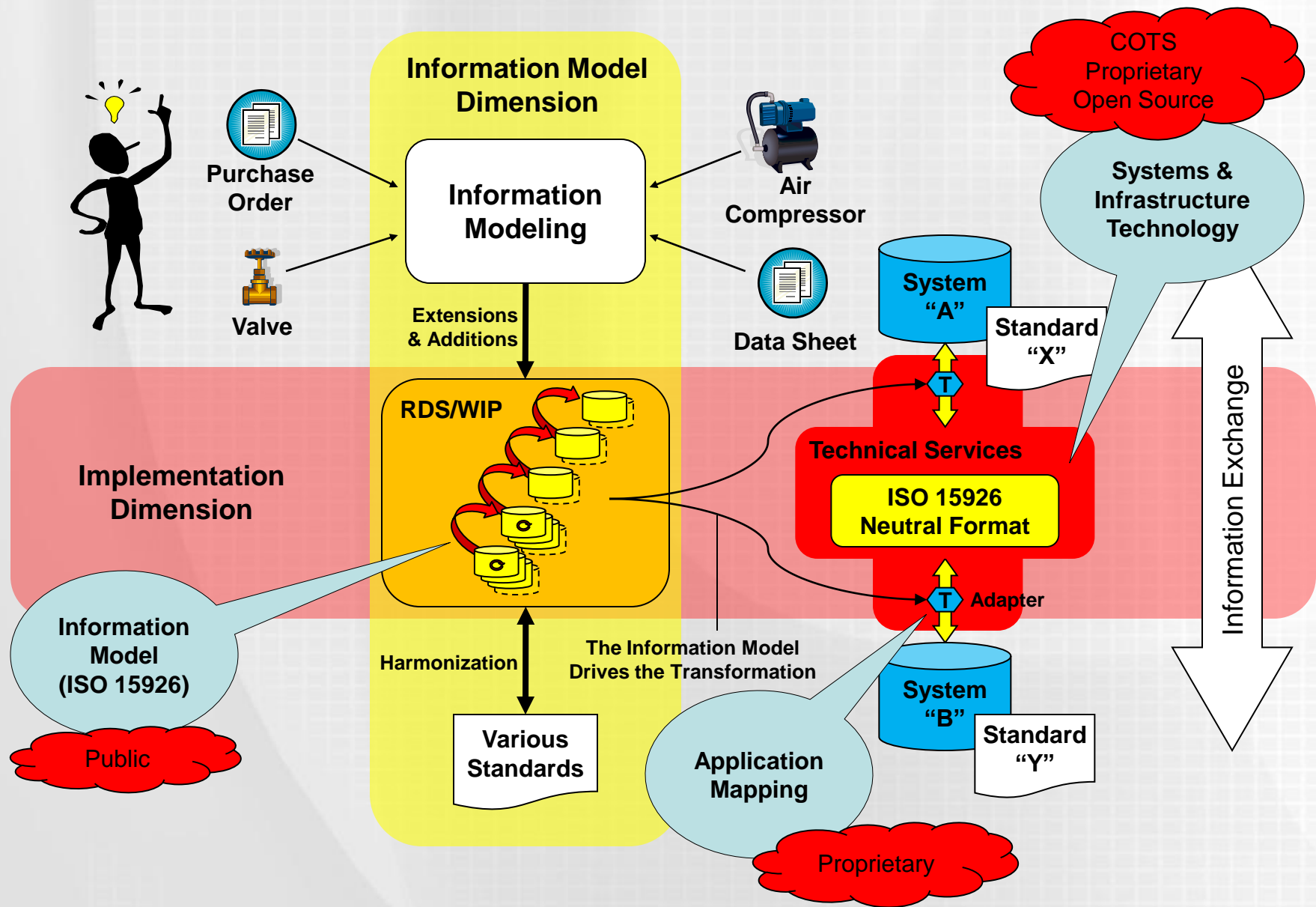
# Improve Your Interoperability

Start with ISO 15926!

ISO 15926 is a standard for interoperability and the integration of lifecycle information



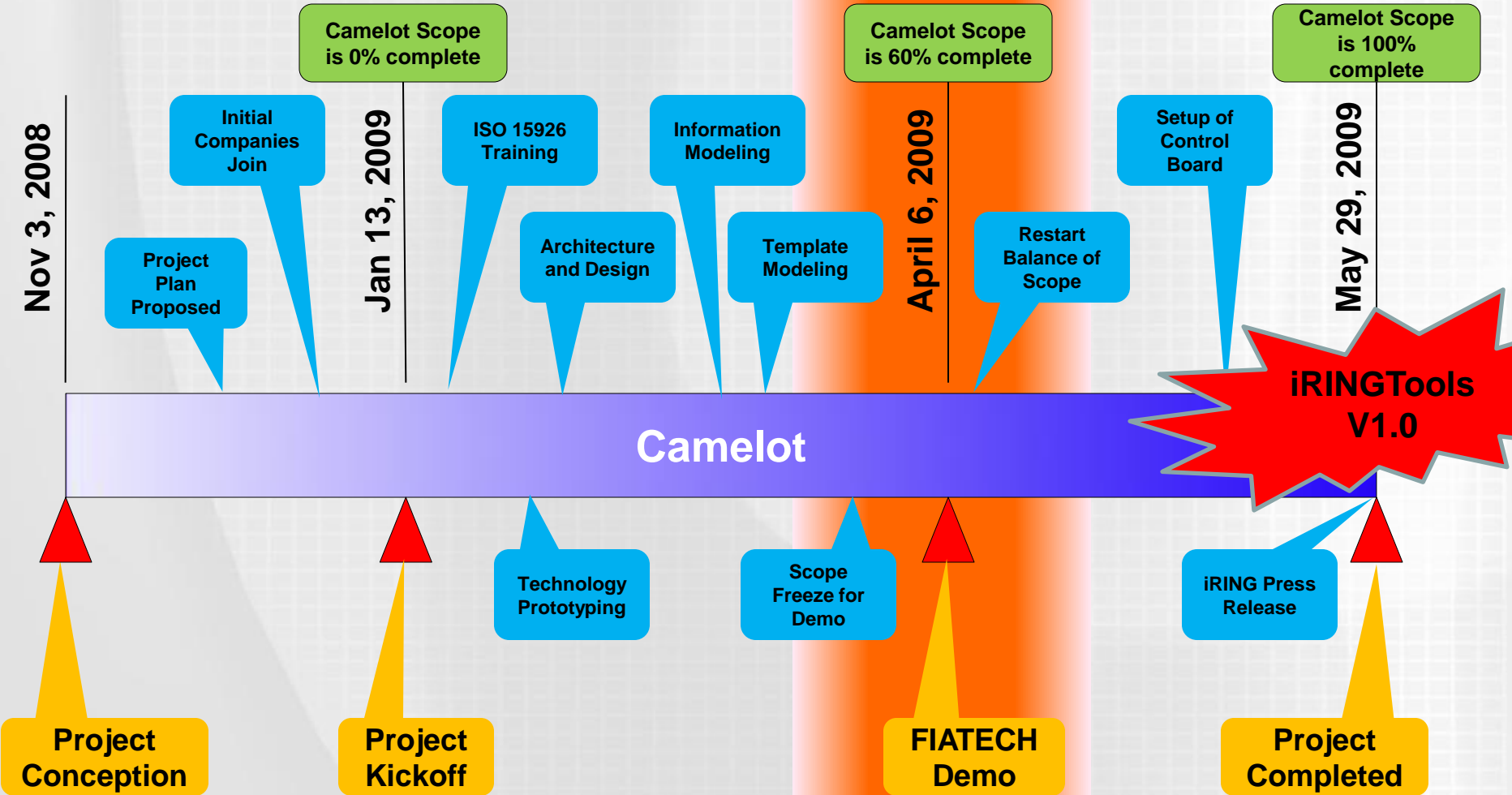
# Model Driven Interoperability



# Camelot Objectives – January 2009

- **To build and deploy an ISO 15926, open source infrastructure on the internet and to show the following capabilities:**
    - The use of ISO 15926 in modeling business information
    - The setup, configuration, and use of publicly available tools to map legacy systems to ISO 15926
    - The demonstration of several data exchange scenarios between several companies using ISO 15926 over the internet
- ... and make all of the deliverables available in the public domain, ready for business use by May 29<sup>th</sup> 2009*

# Camelot Timeline

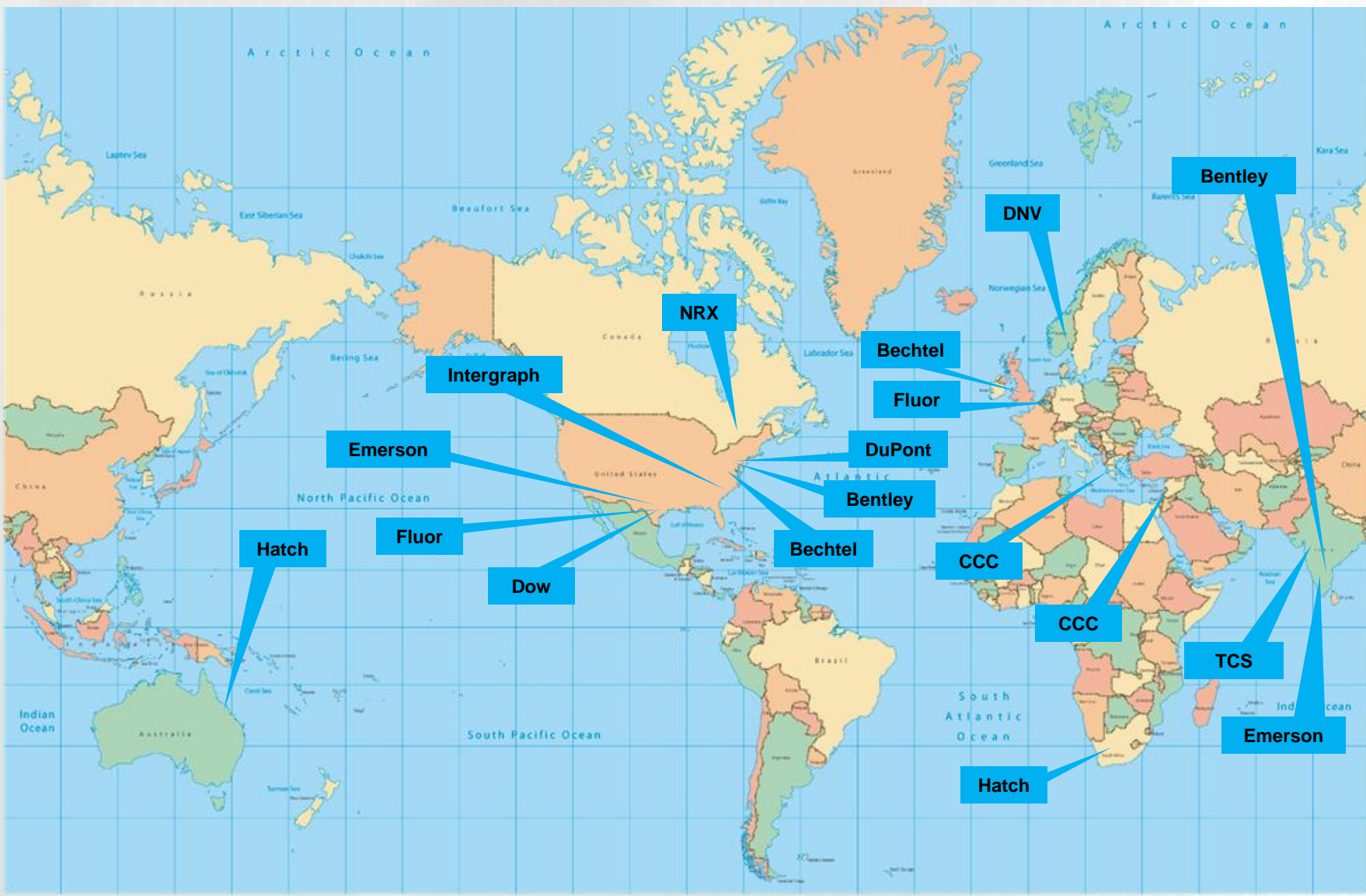




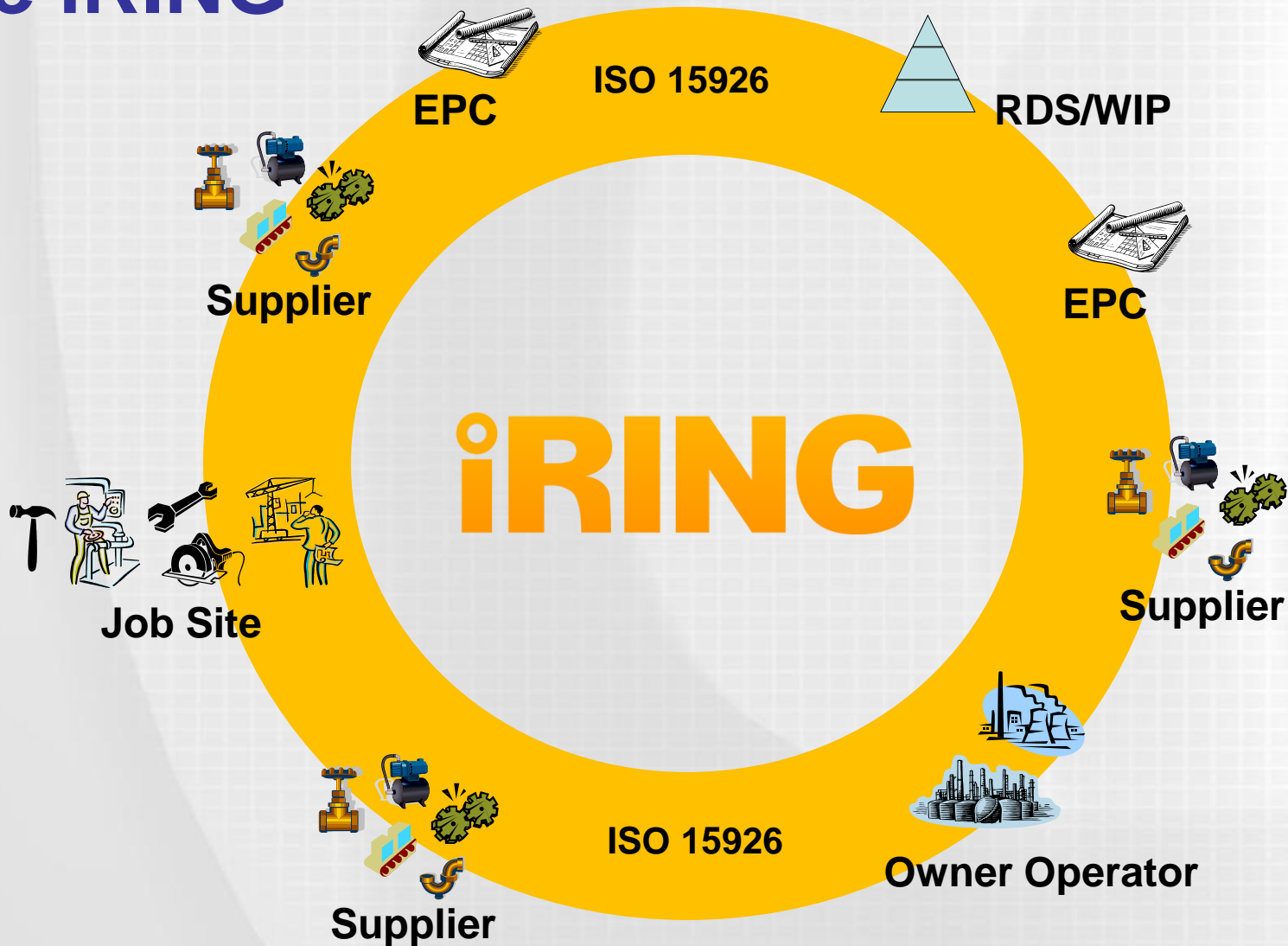
# Camelot and the iRING

- **Camelot is an industry collaboration project ( POSC Caesar/FIATECH, IDS-ADI)**
- **Companies participating in Camelot:**
  - **Bechtel**
  - **Bentley**
  - **Chevron**
  - **Consolidated Contractors Company (CCC)**
  - **DNV**
  - **Dow**
  - **Emerson Process Management**
  - **Fluor**
  - **Hatch**
  - **Intergraph**
  - **NRX Global**
  - **Tata Consultancy Services (TCS)**

# Camelot – A “Round the Clock” Project!



# The iRING

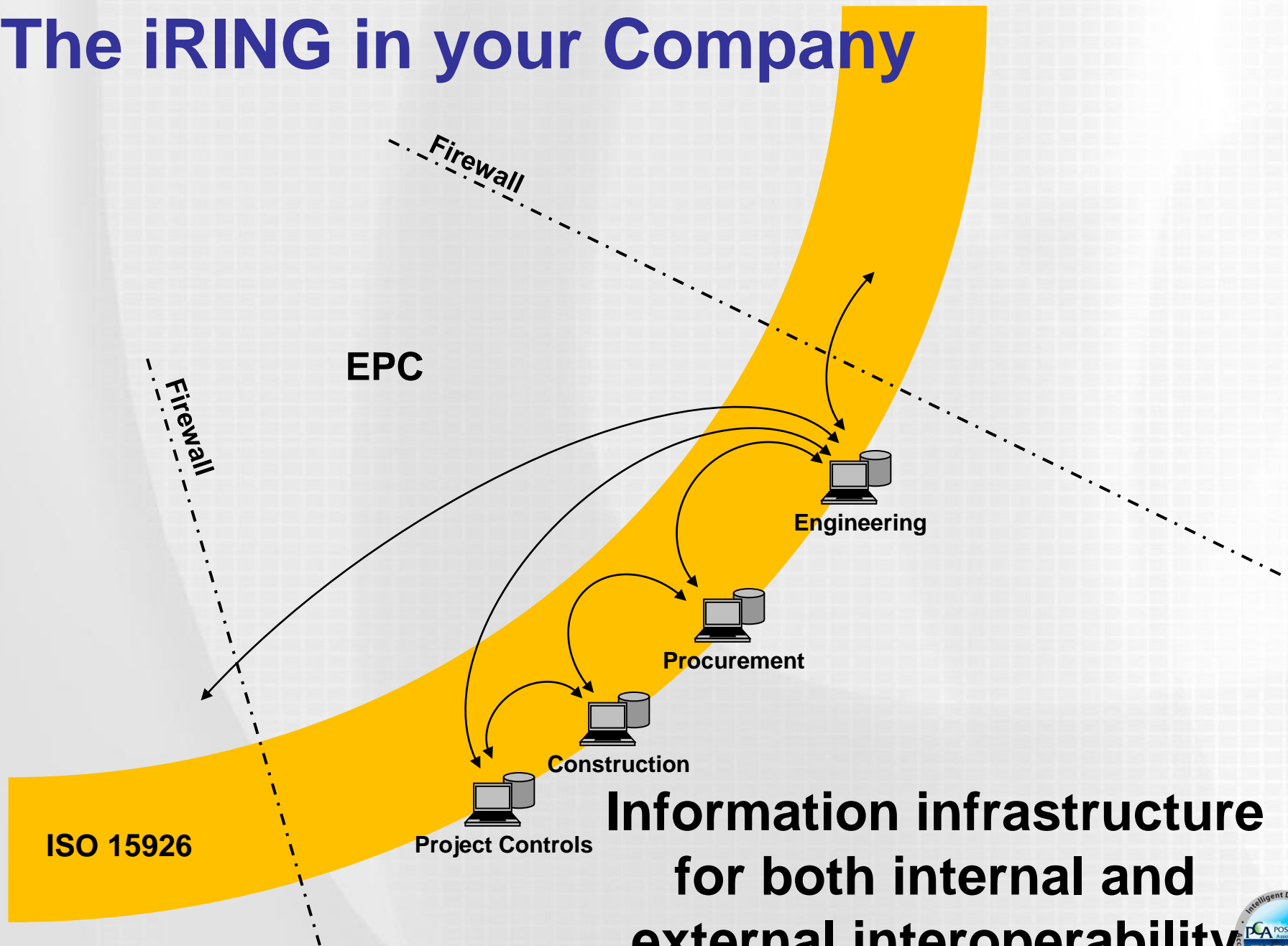


**ISO 15926 Realtime Interoperability Network Grid**

Realizing Open Information Interoperability



# The iRING in your Company



ISO 15926

EPC

Firewall

Project Controls

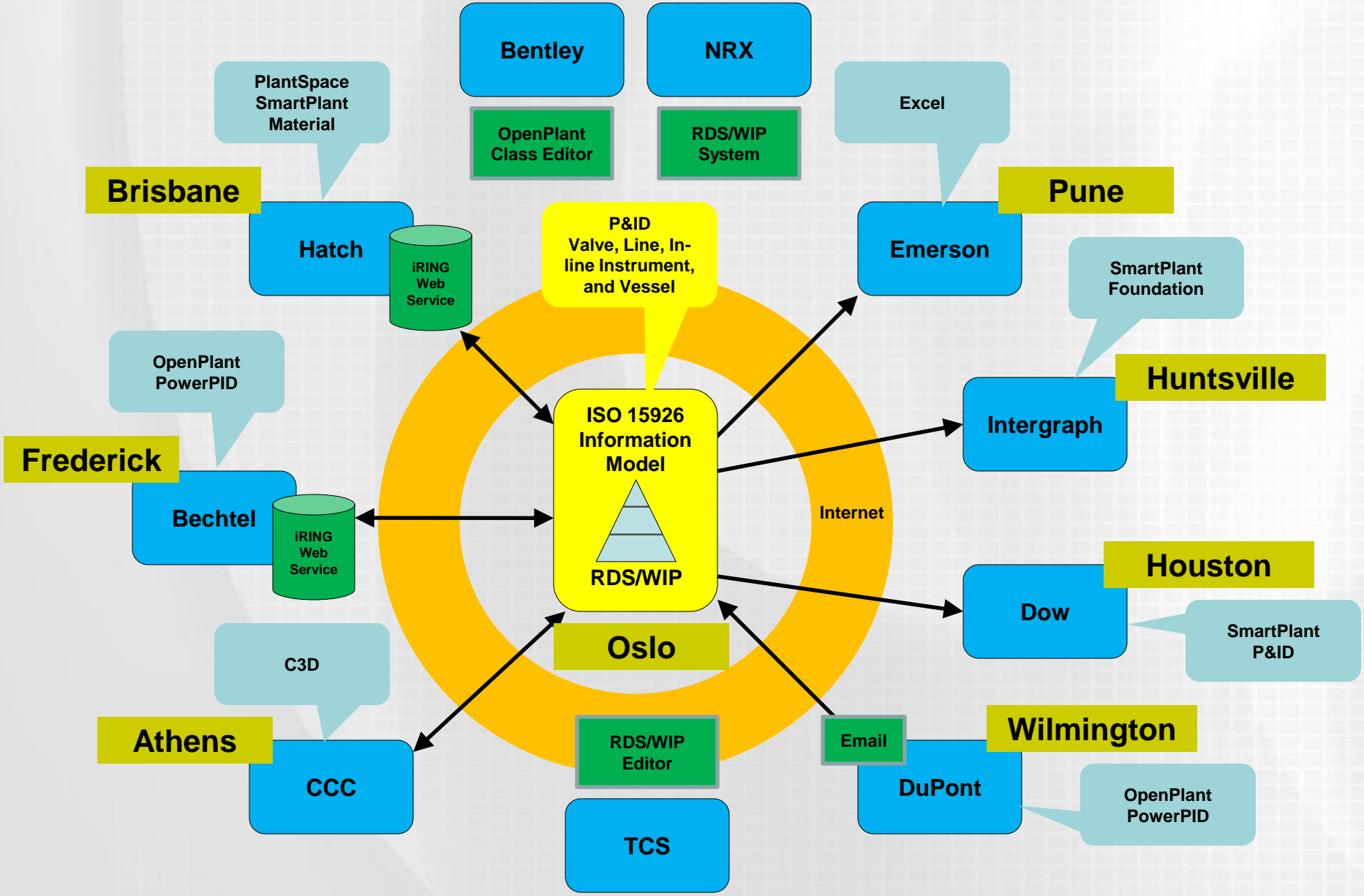
Construction

Procurement

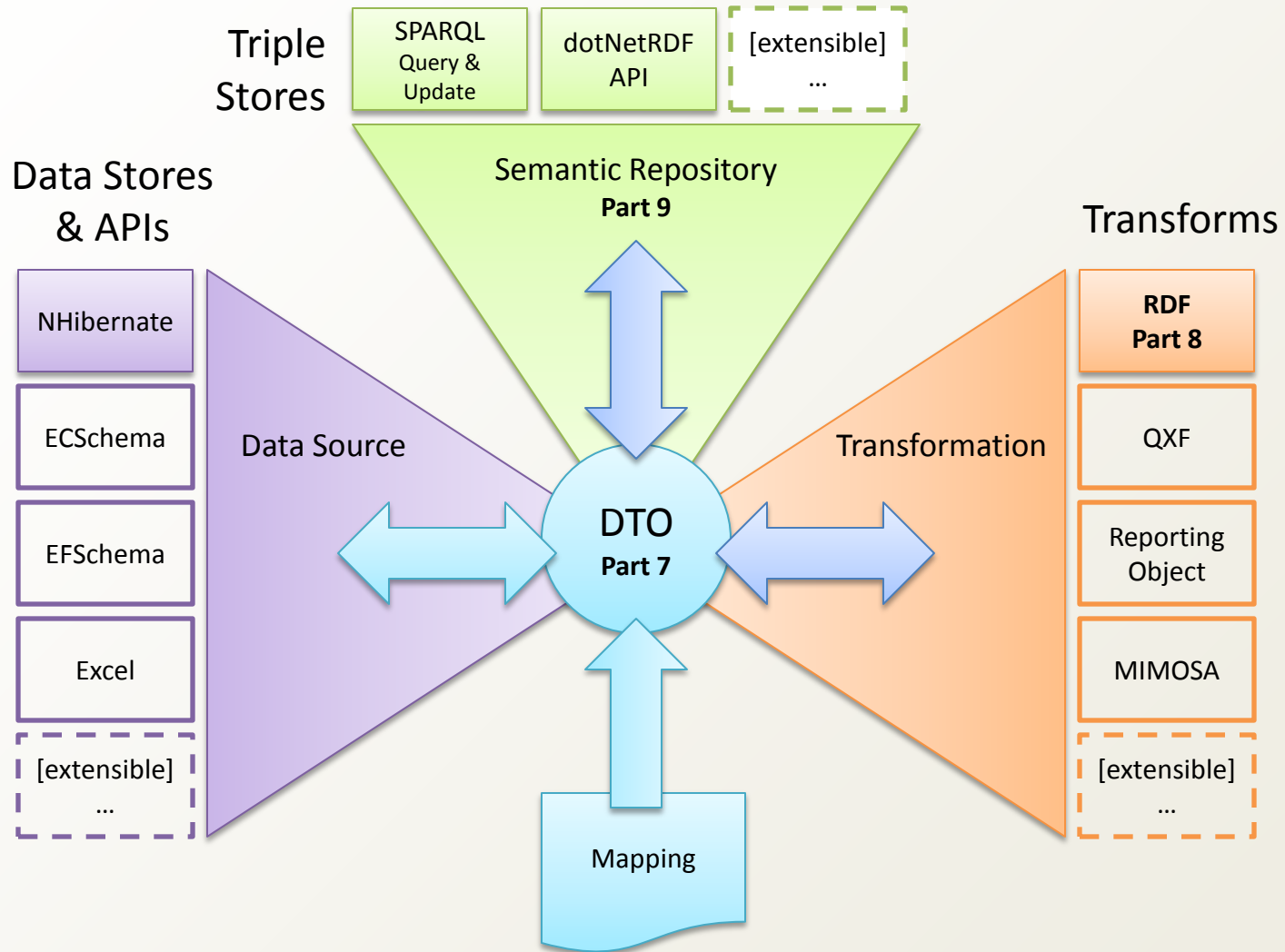
Engineering

Information infrastructure  
for both internal and  
external interoperability

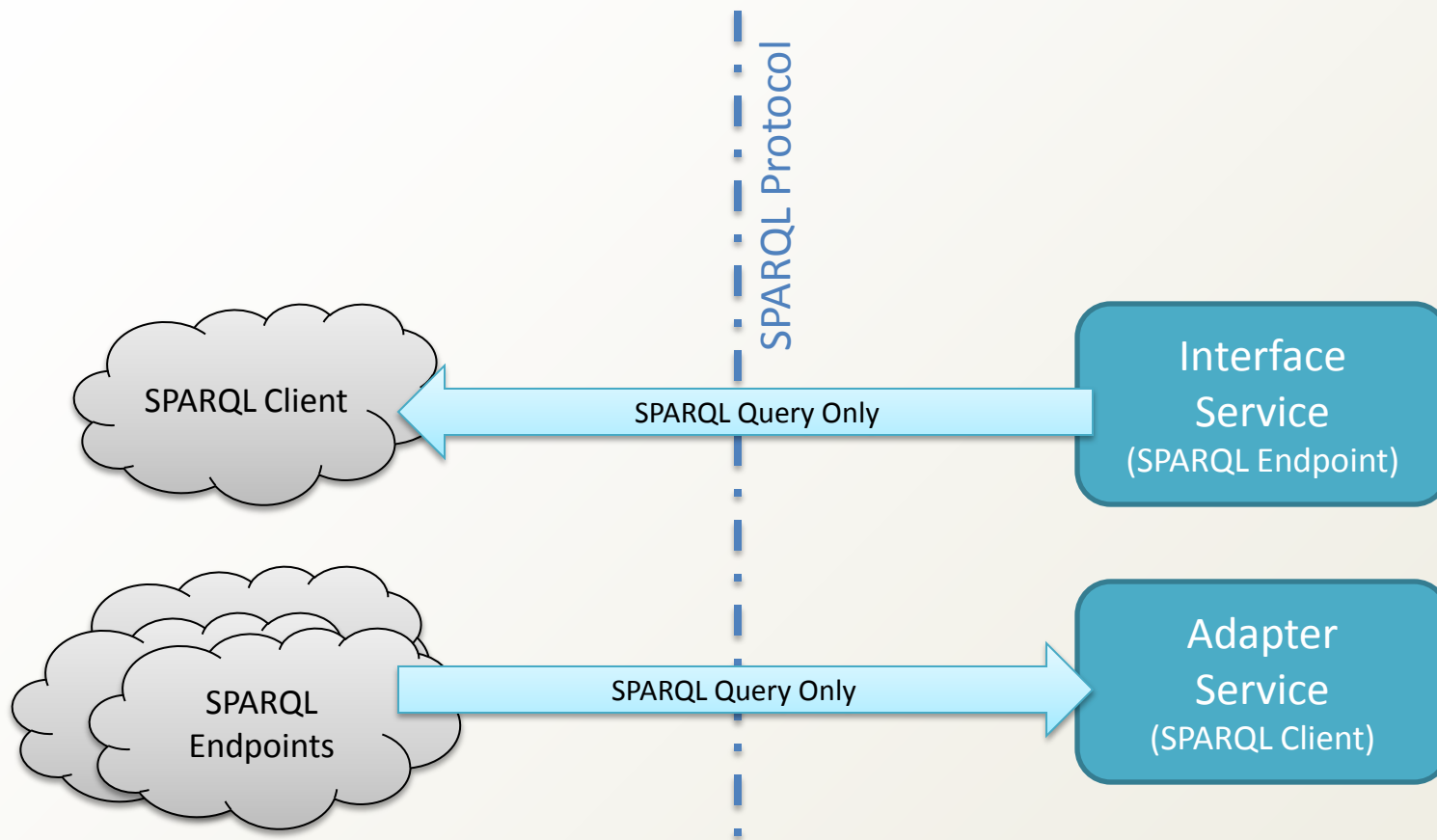
# Demonstration Landscape



# Adapter Framework



# SPARQL Data Exchange

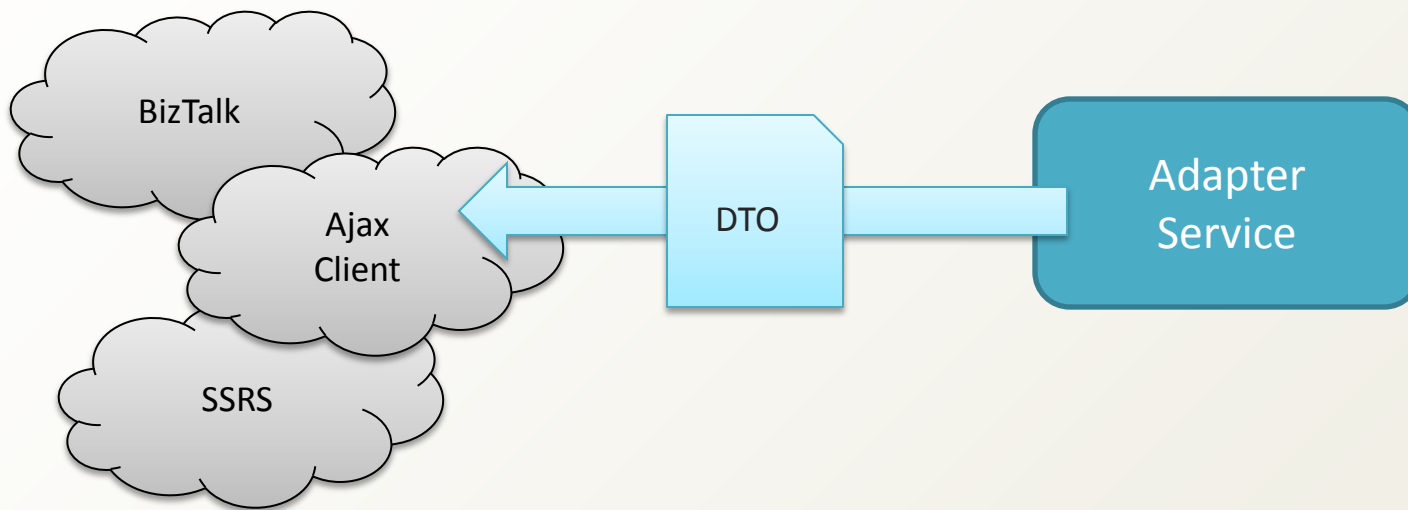


# XML Data Exchange





# Data Services



# ***A demonstration of interoperability based on open standards***

Integrated Operations in the High North – Joint Industry Project

**IOHN**

**IOHN represented by IBM and DNV  
in collaboration with Bechtel  
ISA Expo @Houston October 6th – 8th 2009**



# **iRING** — **USER GROUP**

[www.iringug.org](http://www.iringug.org)

# 2010 Demonstrations

- Digital Plant 2010
  - iRINGUserGroup
  - iRINGTools/Bentley demonstration
- Private Demonstrations
  - Bechtel
  - Hatch
  - Emerson
- FIATECH Conference 2010
  - Bechtel
  - Bentley
  - CCC
  - CH2M Hill
  - Dow
  - Emerson
  - Hatch
  - Intergraph
  - TCS

# FIATECH iRING Demo



OpenPlant  
PDxManager

Bentley  
Exton, PA

Dow  
Houston, TX

SmartPlant  
P&ID

Hatch  
Brisbane,  
Australia

Emerson  
Pune, India

PlantSpace  
P&ID

EIO

CCC  
Athens,  
Greece

CH2M Hill  
Denver,  
CO

C3D

PDB

Bentley  
Walnut,  
CA

Bechtel,  
Frederick,  
MD

ProjectWise  
LCS

Inspec

SPI

TCS  
New Delhi,  
India

Intergraph  
Huntsville,  
AL

SPF

iRING

FIATECH

Conference 2010

iRING

ISO 15926 Realtime Interoperability Network Grid

Demonstrations

ISO 15926

**Questions?**