ids-adi.org

Manoj Dharwadkar, Bentley Systems
(on behalf of Robin Benjamins, Bechtel)
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Presentation Overview

- What is iRING?
  - ISO 15926 protocols and reference data compliant with Parts 7, 8, and 9
- Camelot Project History
  - Nov 3rd, 2008 to May 29th, 2009
- Avalon Project – Current Status
  - June 10th, 2009 to Nov 20th, 2009
- Next Steps
  - iRING User Group
  - Recommendations to PCA

Improve Your Interoperability

Start with ISO 15926!

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

The iRING

map   Interoperate   map

Company "Acme"

Company "Emca"

Reference Data Library

ISO 15926

RDS/WIP
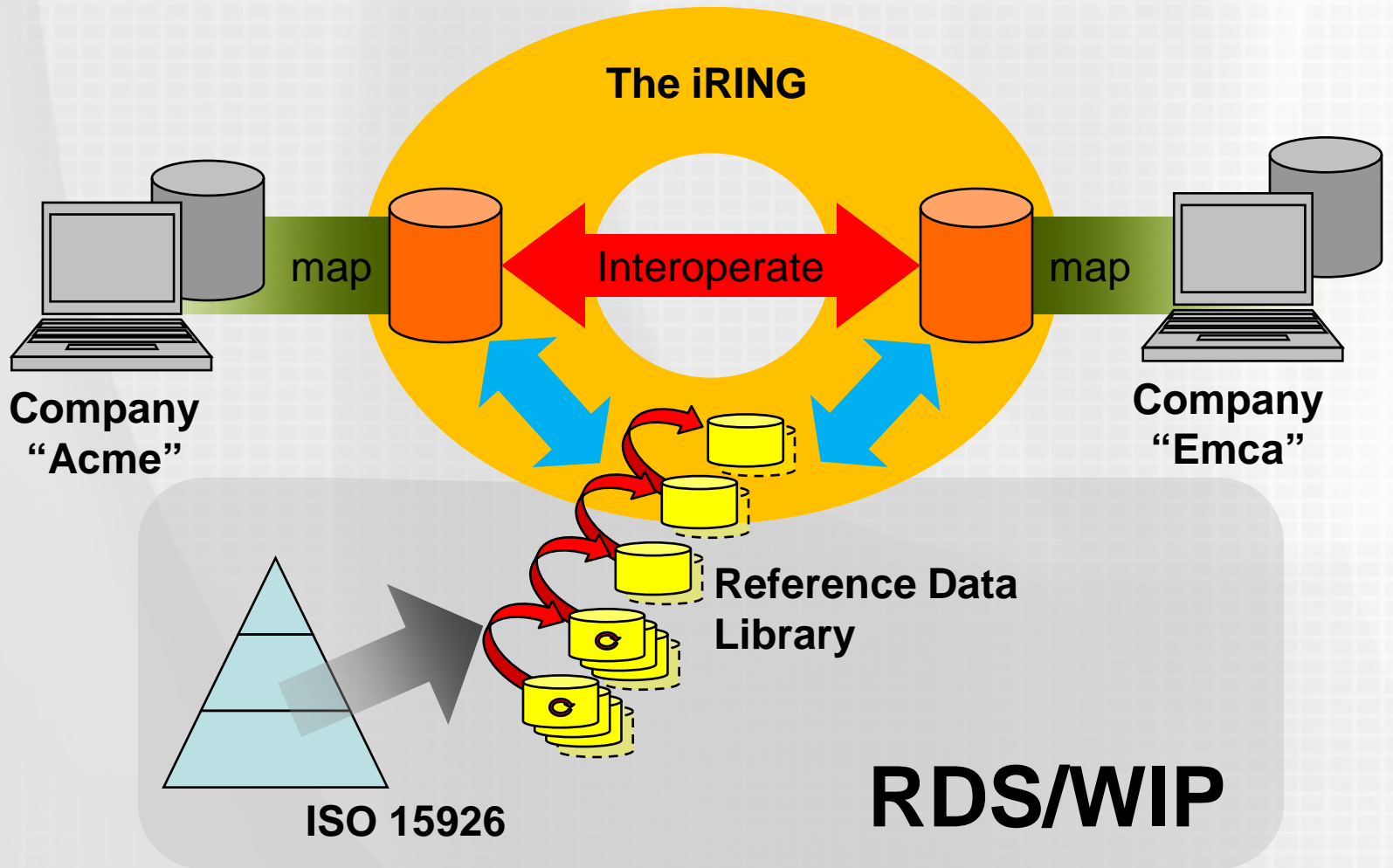
iRING

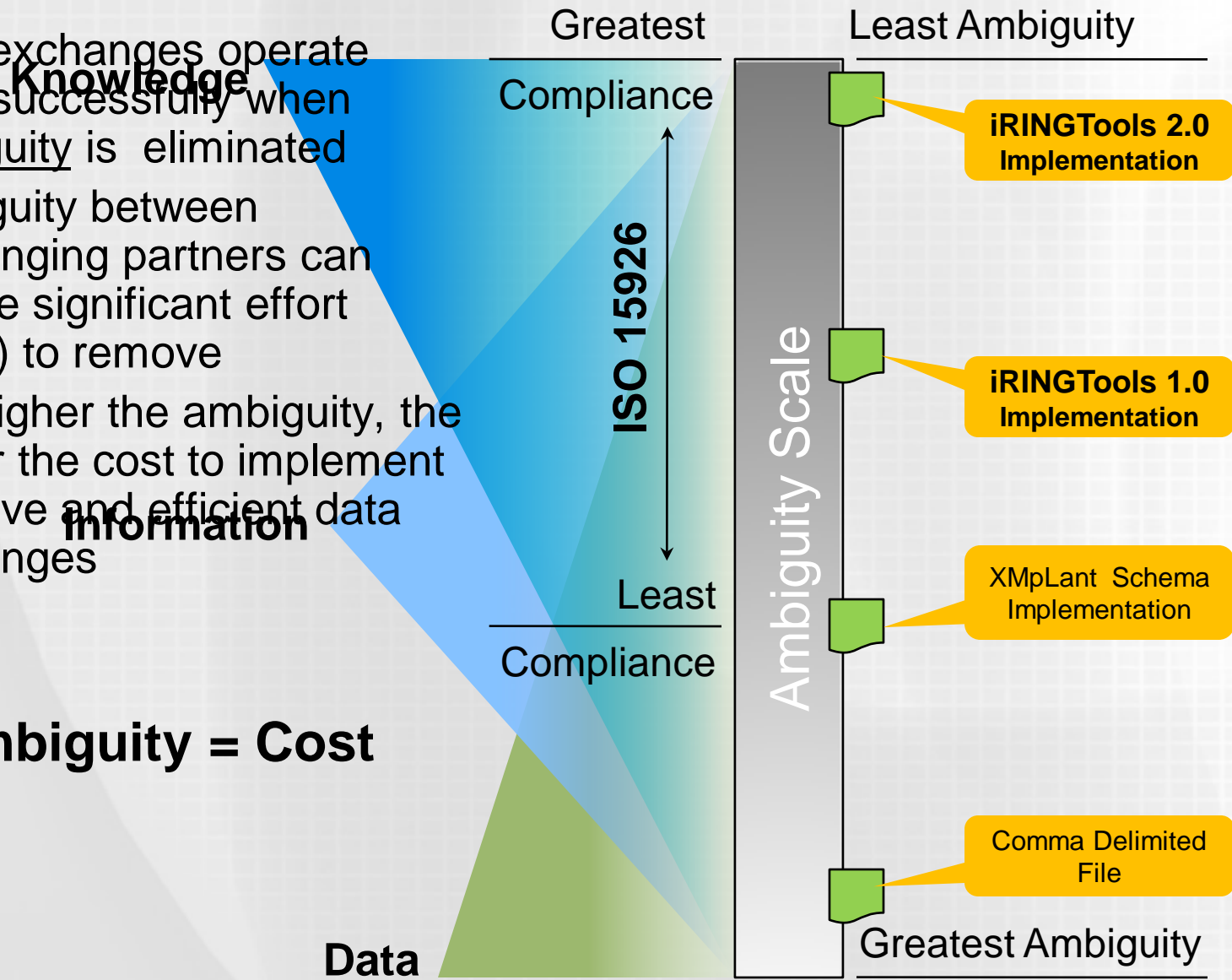**ISO 15926 Realtime Interoperability Network Grid**

iRING is a set of information interoperability and integration <u>protocols</u> and <u>reference</u> <u>data</u> compliant with the ISO 15926, Parts 7, 8, & 9 standards.

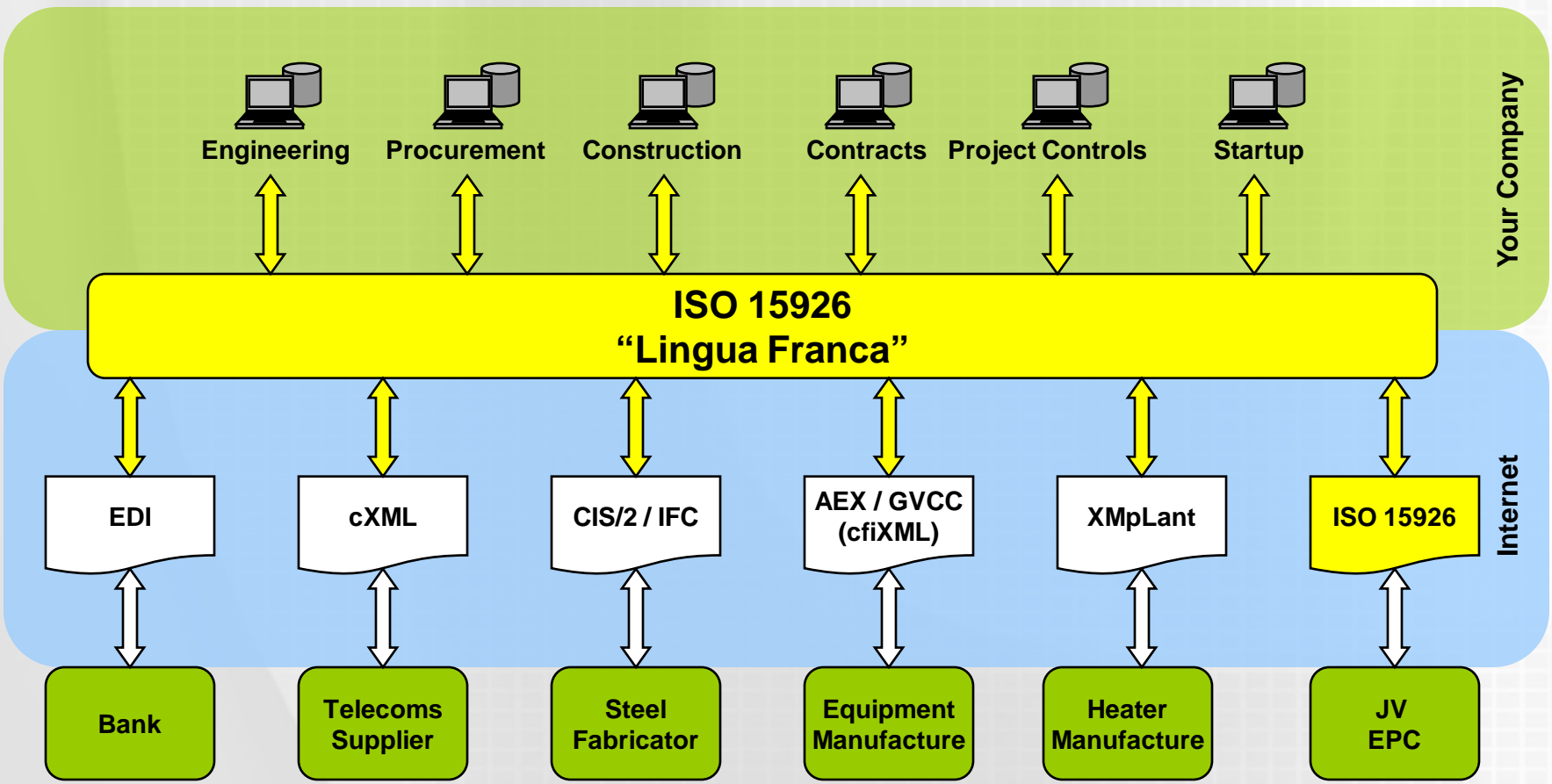iRINGTools is the open source software that implements iRING protocols.

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

Knowledge

Information

Data

Greatest

Compliance

ISO 15926

Least

Compliance

Least Ambiguity

Ambiguity Scale

iRINGTools 2.0
Implementation

iRINGTools 1.0
Implementation

XMpLant Schema
Implementation

Comma Delimited
File

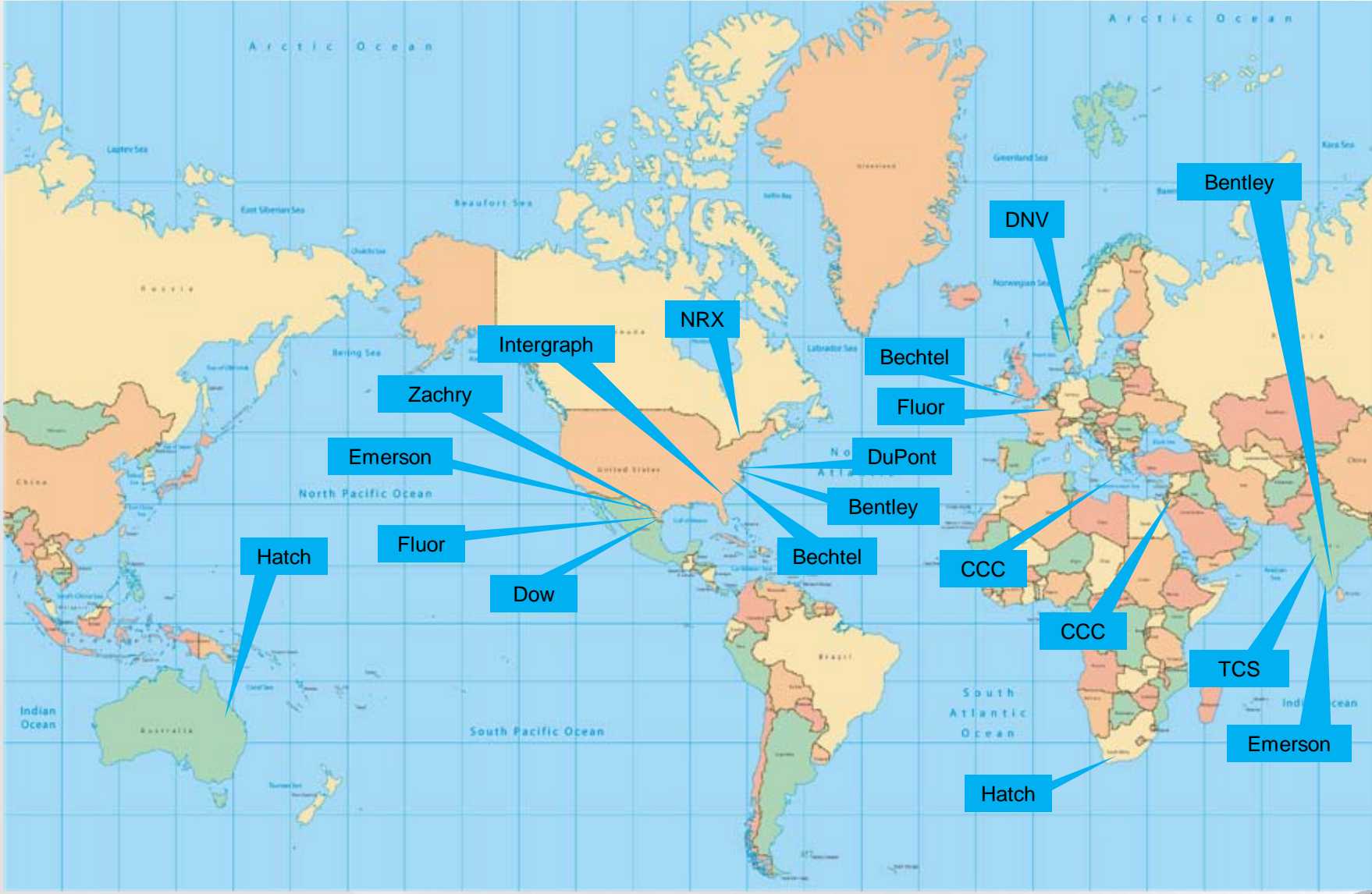Greatest Ambiguity

Plethora of Standards

Camelot Objectives

- 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 29th 2009
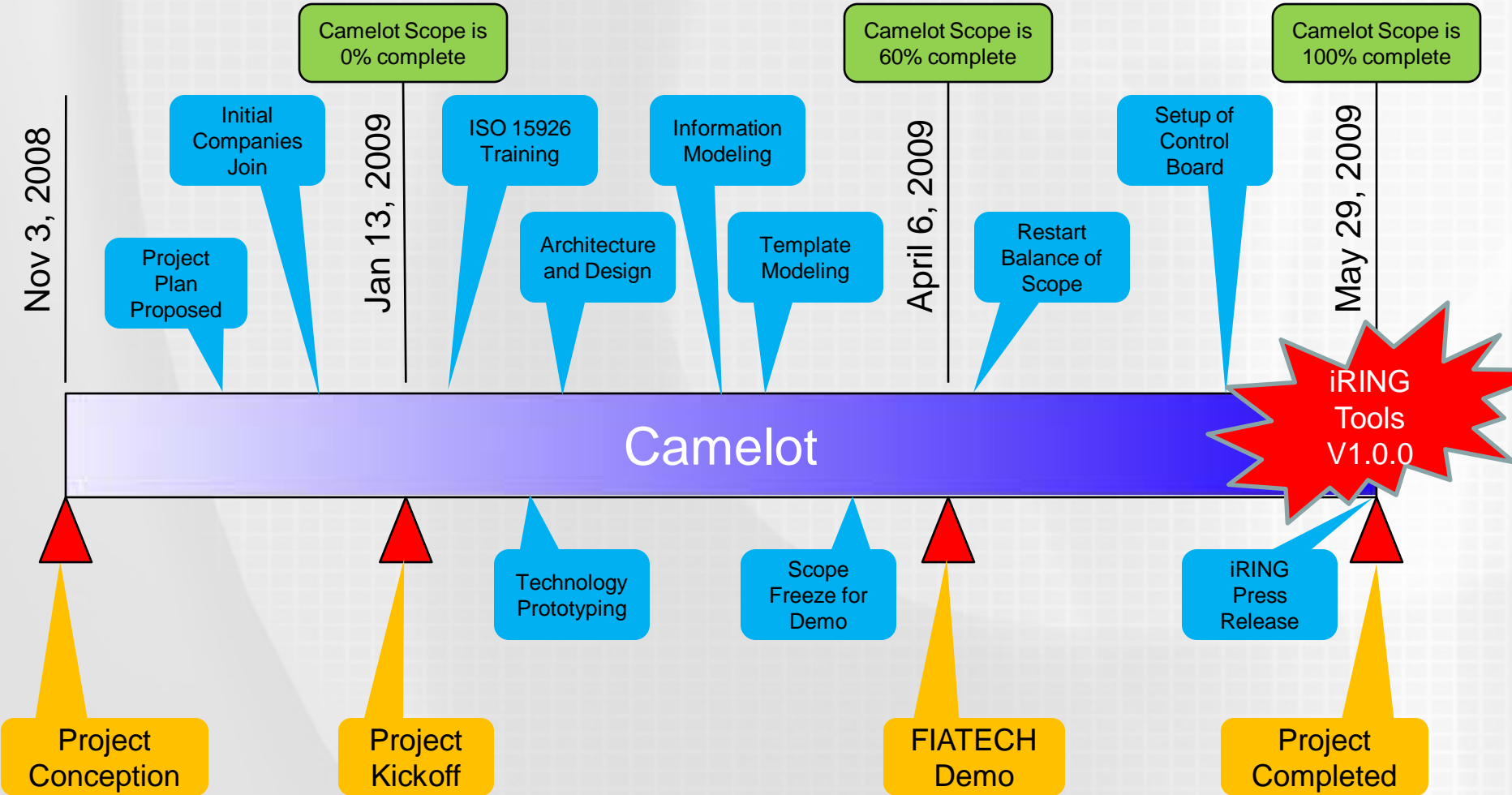
Camelot and the iRING

- Camelot was an industry collaboration project (POSC Caesar/FIATECH, IDS-ADI)
- Companies participated in Camelot:

  - Bechtel
  - Bentley
  - Chevron
  - Consolidated Contractors Company (CCC)
  - DNV
  - Dow
  - DuPont

  - Emerson Process Management
  - Fluor
  - Hatch
  - Intergraph
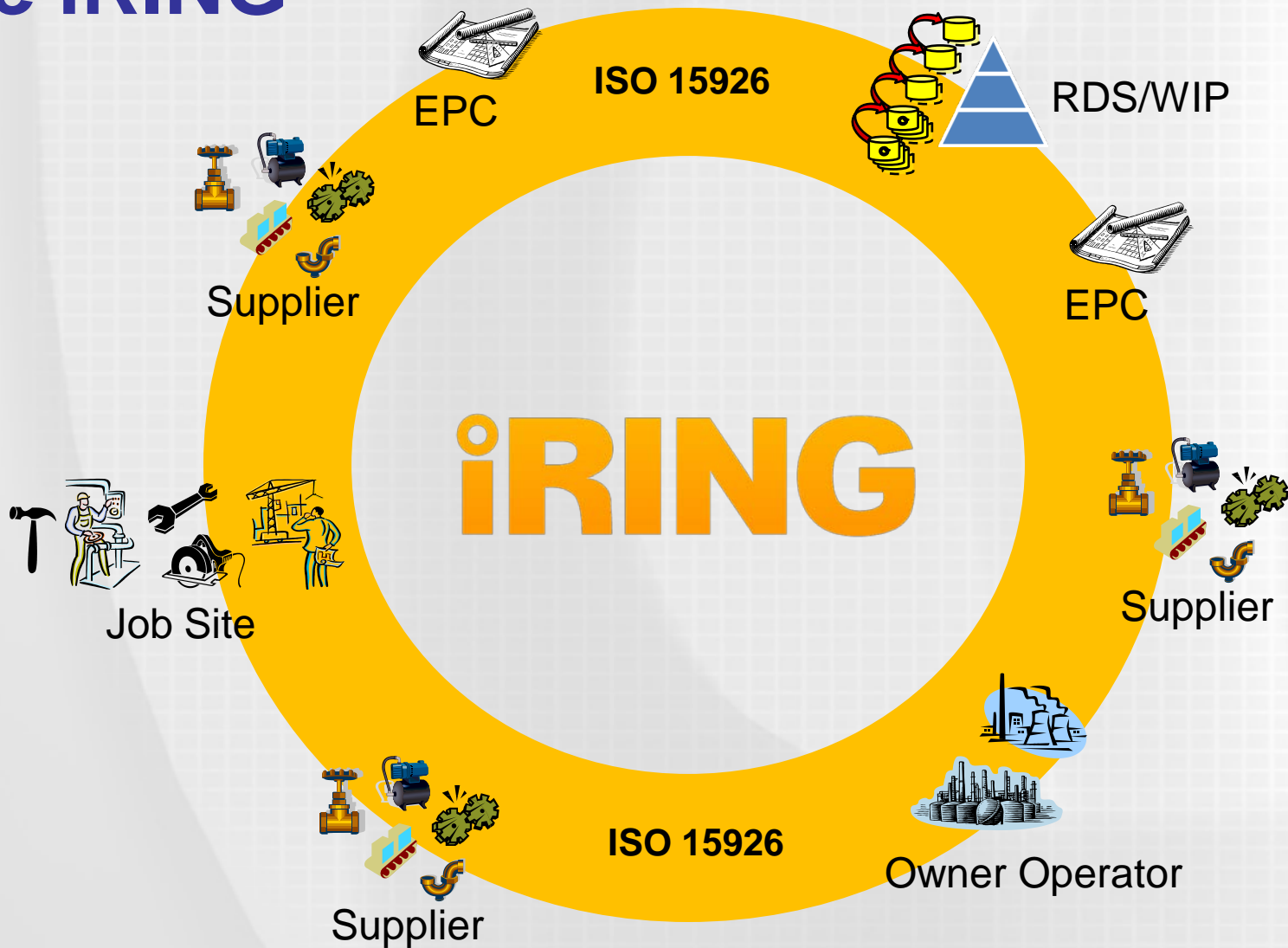 - NRX Global
  - Tata Consultancy Services (TCS)
  - Zachry

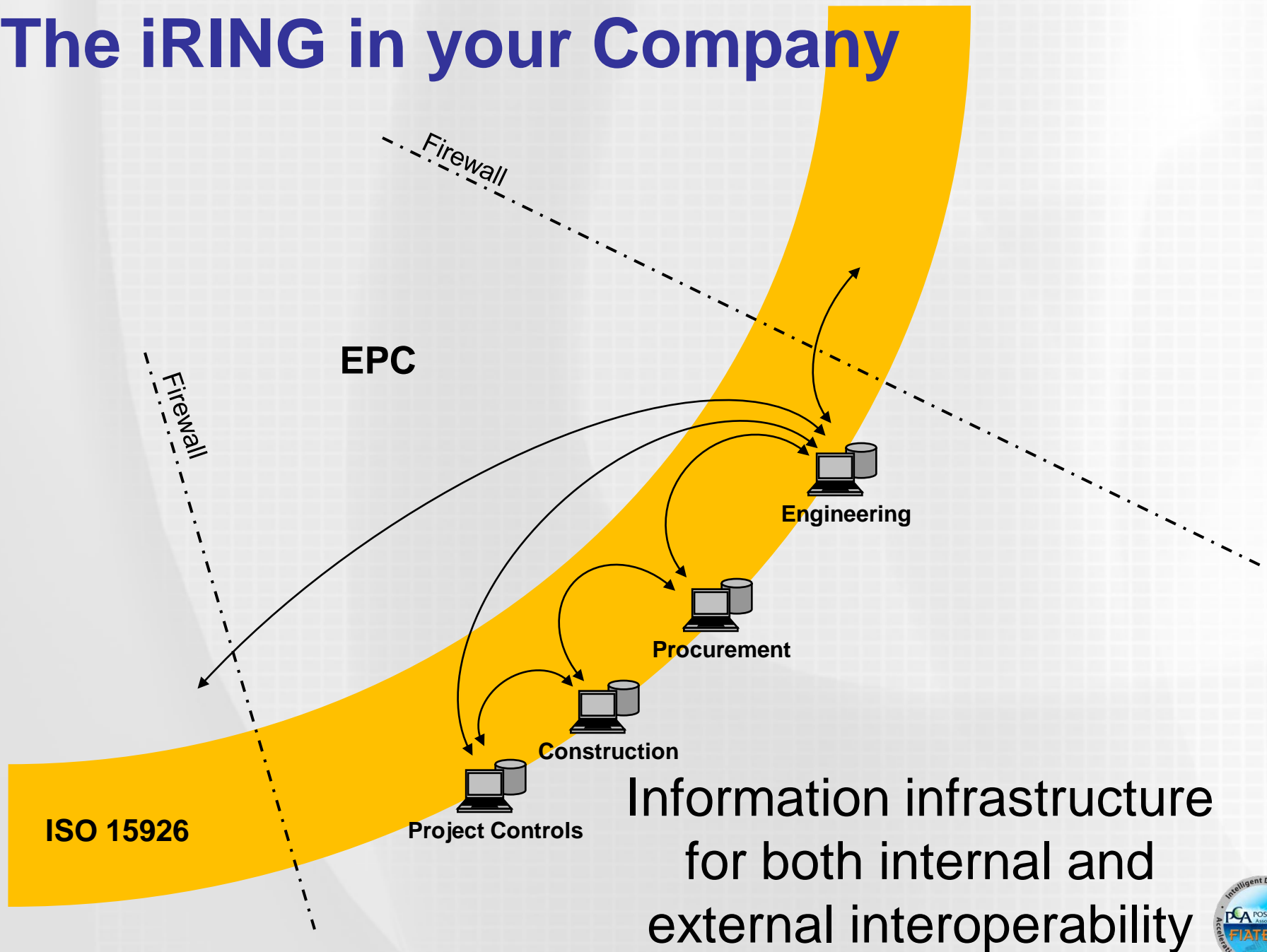# Camelot – A "Round the Clock" Project!

Camelot Timeline

Nov 3, 2008

Jan 13, 2009

April 6, 2009

May 29, 2009

Camelot Scope is 0% complete

Camelot Scope is 60% complete

Camelot Scope is 100% complete

Initial Companies Join

ISO 15926 Training

Information Modeling

Setup of Control Board

Project Plan Proposed

Architecture and Design

Template Modeling

Restart Balance of Scope

Camelot

iRING Tools V1.0.0

Technology Prototyping

Scope Freeze for Demo

iRING Press Release

Project Conception

Project Kickoff

FIATECH Demo

Project Completed

The iRING

ISO 15926 Realtime Interoperability Network Grid

iRING – The FIATECH Conference

McGraw_Hill CONSTRUCTION

The iRing Project
Opening a Nexus for Collaboration
Click to watch the video

Demonstration Landscape
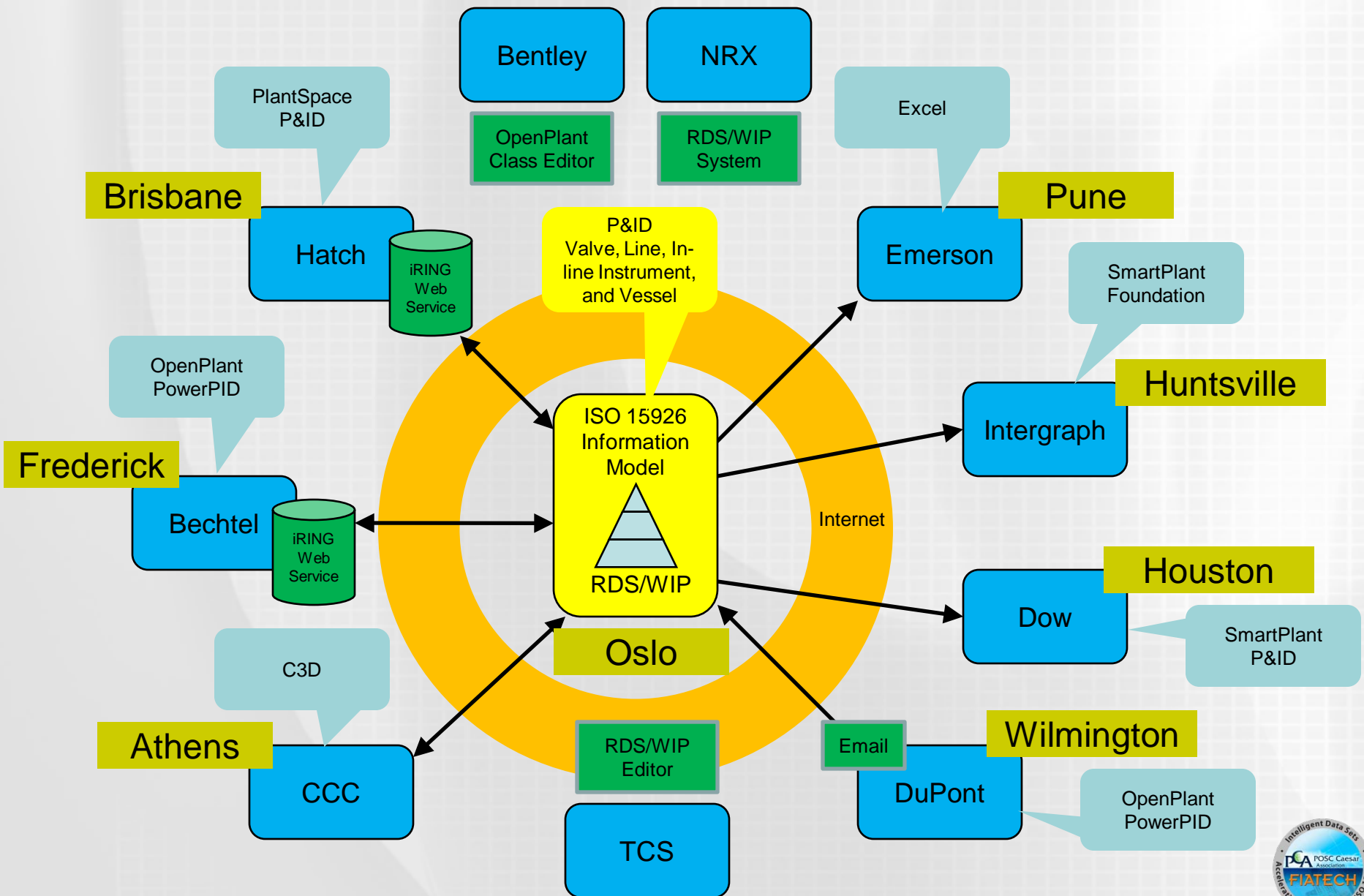
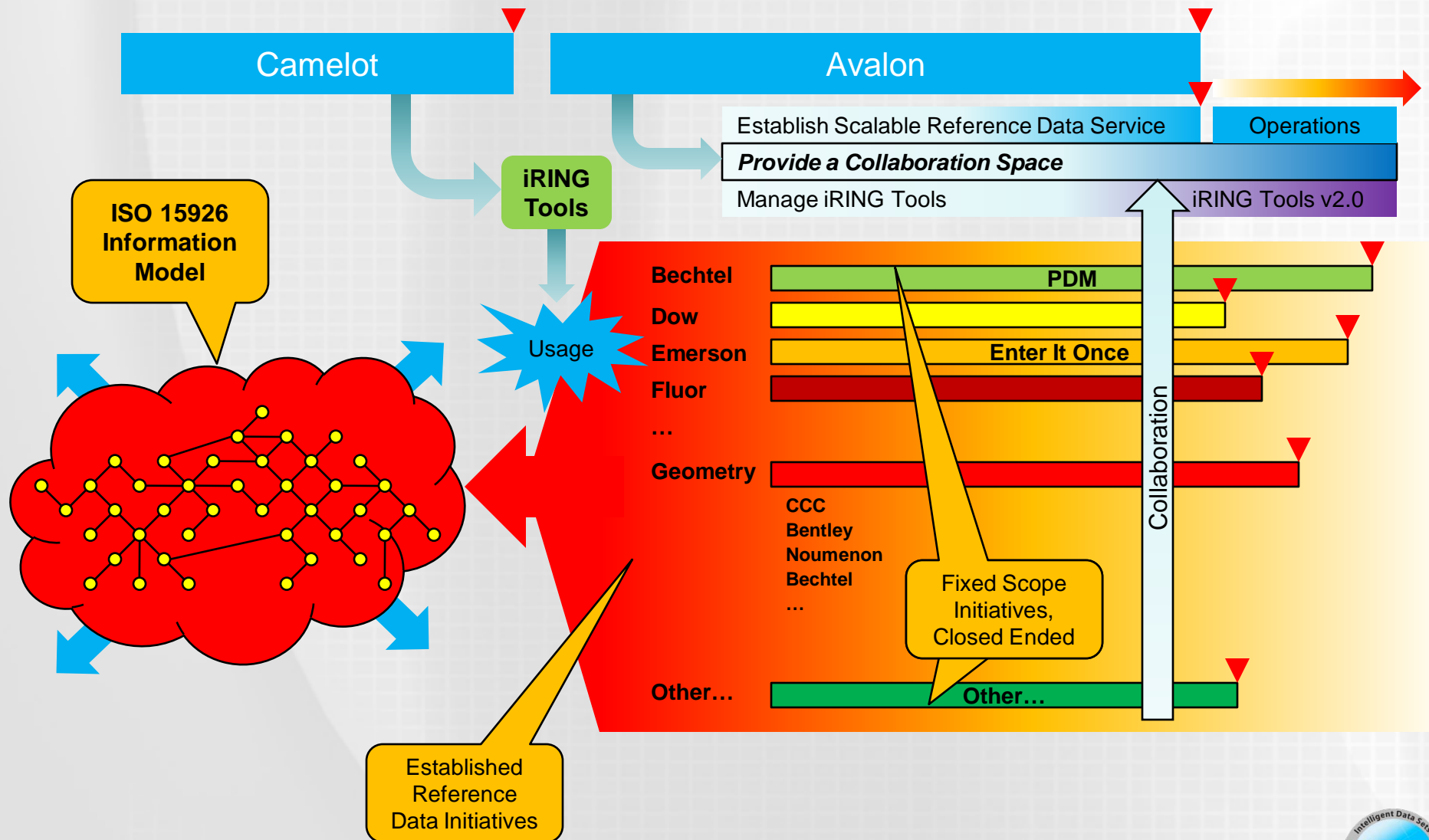Realizing Open Information Interoperability

Avalon Project

- Purpose
  - To establish industry services that supports the open publication and collaborative generation of reference data
  - To establish a collaboration place for companies that are using and extending reference data
- Objectives
  - *Define and deliver a scalable ISO 15926 WIP*
  - *Provide the industry with a wiki on the usages of ISO 15926 (content collaboration)*
  - *Establish source code management and repository for iRING Tools*

Timeframe: June 10th, 2009 to November 20th, 2009

Avalon: Content Collaboration

Camelot

Avalon

Establish Scalable Reference Data Service

Operations

Provide a Collaboration Space

Manage iRING Tools

iRING Tools v2.0

iRING Tools

ISO 15926 Information Model

Usage

Bechtel — **PDM**

Dow

Emerson — **Enter It Once**

Fluor

…

Geometry

Collaboration

CCC
Bentley
Noumenon
Bechtel
…

Fixed Scope Initiatives, Closed Ended

Other… — **Other…**

Established Reference Data Initiatives

Reference Data Hosting Service

- Avalon Project ends in November
- The scope that was centered on establishing the reference data hosting service is passing to PCA
  - Project has delivered a well defined requirements document
- PCA RDS/RDL Business Plan ad-hoc group is formed and will address the operational reference data hosting service
- PCA and FIATCH should collaborate on establishment of the operational hosting service
  - Common goals for a scalable hosting service

Coming Soon….

iRING User Group

http://iringug.org

*C*ommunity of users interested in implementing *iRING* protocols and reference data.

Planned to kickoff before end of 2009

Will help drive the usage of iRING, provide guidance to iRINGTools, and provide support to the community

Recommendations to PCA

- PCA to use the Avalon Service Provision Requirements Document
  - https://secure.ids-adi.org/repository/org/ids-adi/avalon/working-teams/service-provisioning
- PCA to address the Avalon "Challenges"
- PCA support the completion of ISO15926 Part 7, 8, & 9 via funding of expert resources and leadership in TC 184/SC4
- Work with FIATECH and other organizations to develop a common plan for reference data hosting

The Takeaways…

- ## **Join the**

  iRING User Group

  - **iRINGTools 1.0.1 available now!!!**

    http://iring.ids-adi.org

Questions?

Thank You!!

Robin Benjamins
       rxbenjam@bechtel.com

Manoj Dharwadkar
       manoj.dharwadkar@bentley.com