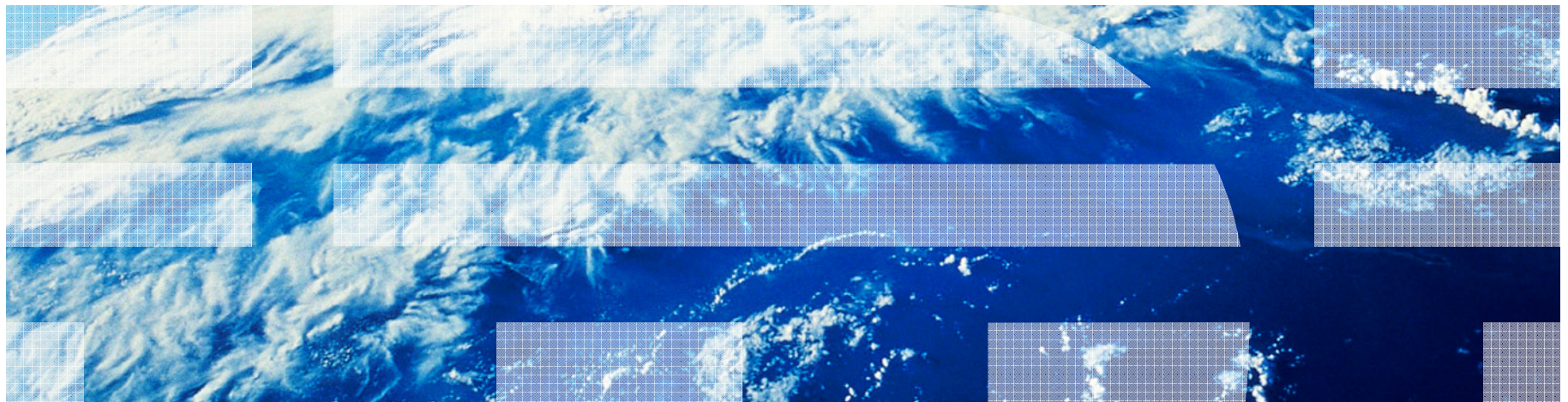


Real-Time Information Service Bus

IBM's Integrated Information Framework (IIF)

Kaare Finbak, IBM C&P



Agenda



- 1 Business drivers
- 2 Industry frameworks
- 3 Main challenges addressed
- 4 Core functionality
- 4 Summary

Business drivers

Increase value creation through implementation of Integrated Operations (IO)

INSTRUMENTED

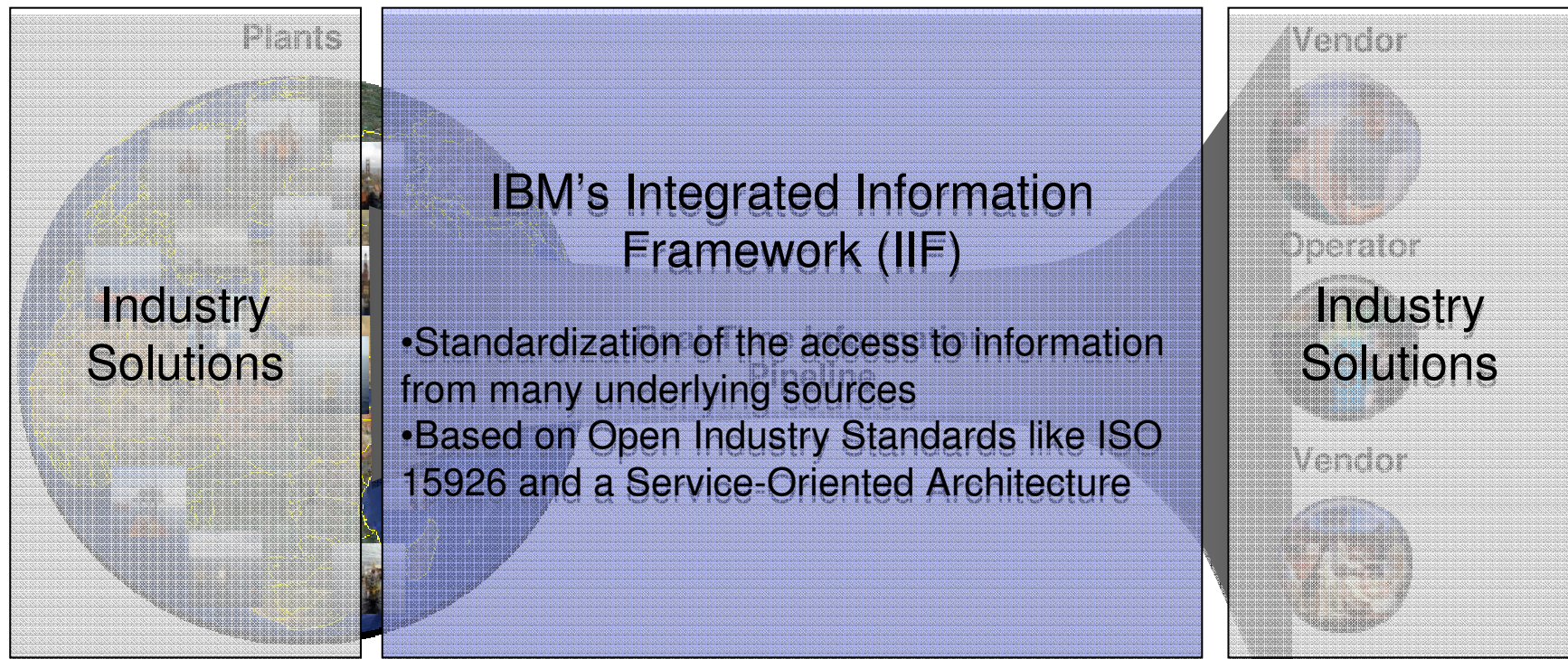
- Event capturing
- Filtering
- Sensor solutions
- Instrumentation

INTERCONNECTED

- Flexible any-any connectivity
- Extended reach
- Unified and global integration model

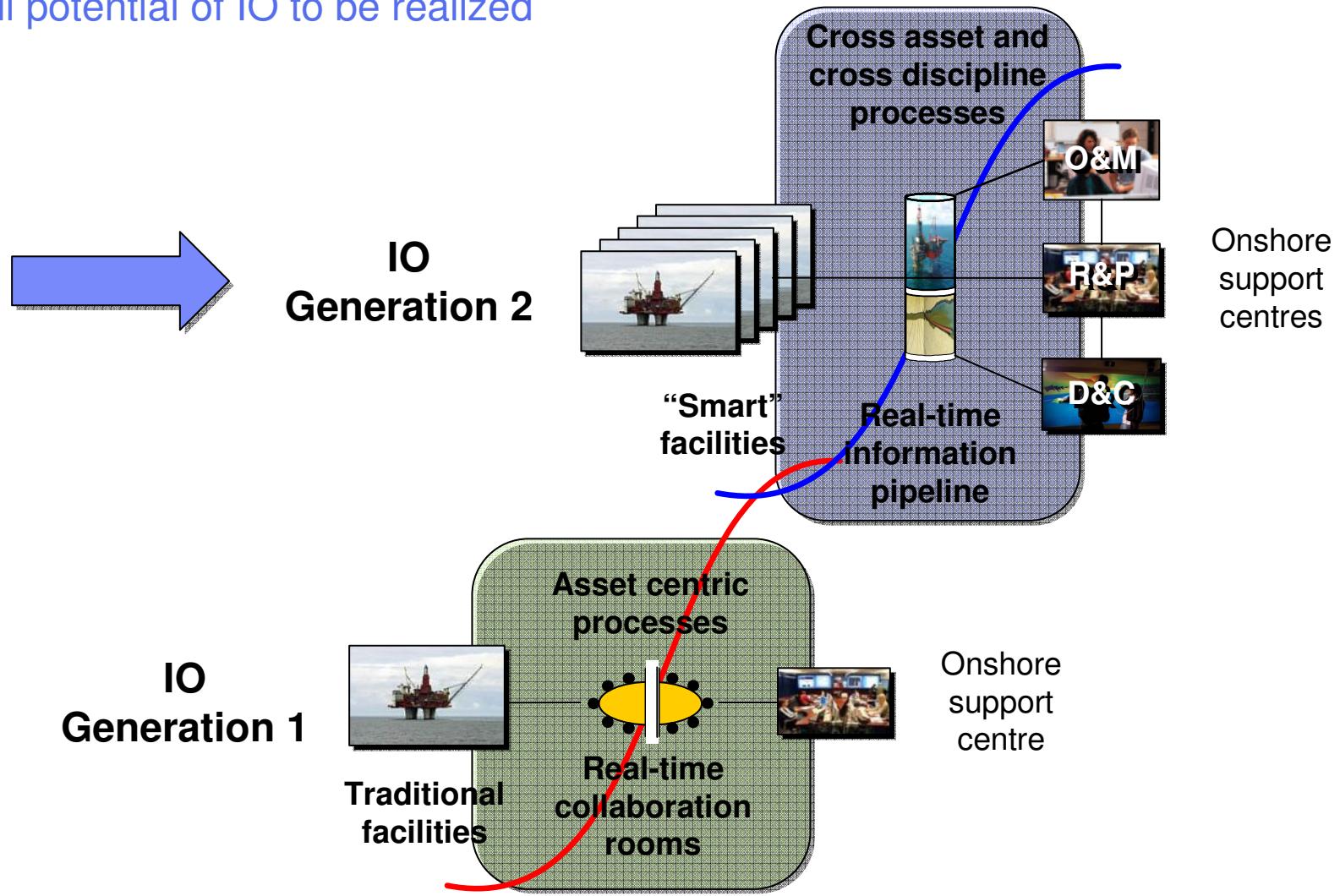
INTELLIGENT

- Event processing
- Business rules
- Data and stream analytics
- Collaborative



Business drivers





An open integration framework is needed for the full potential of IO to be realized



Other industries have the same needs

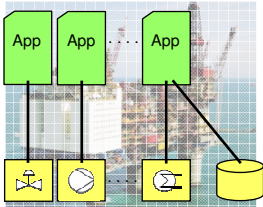
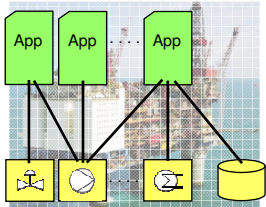
IBM has developed industry frameworks for many industries

Framework	Industry(s)
 <i>Industry Frameworks for Government</i>	Government
 <i>Health Integration Framework</i>	Healthcare
 <i>Banking Industry Framework</i>	Banking, Financial Markets
 <i>Insurance Industry Framework</i>	Insurance
 <i>Retail Industry Framework</i>	Retail

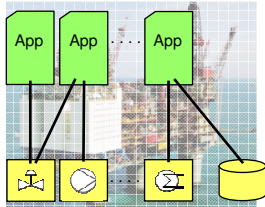
Framework	Industry(s)
 Integrated Information Framework (IIF)	Industrial focus on Chemicals and Petroleum
 <i>Solution Architecture for Energy and Utilities Framework</i>	Energy & Utilities
 <i>Product Development Integration Framework</i>	Automotive, Aerospace, and Electronics
 <i>Service Provider Delivery Environment Framework</i>	Telco

Current Situation

Site and Discipline Unique Point-to-Point Integration

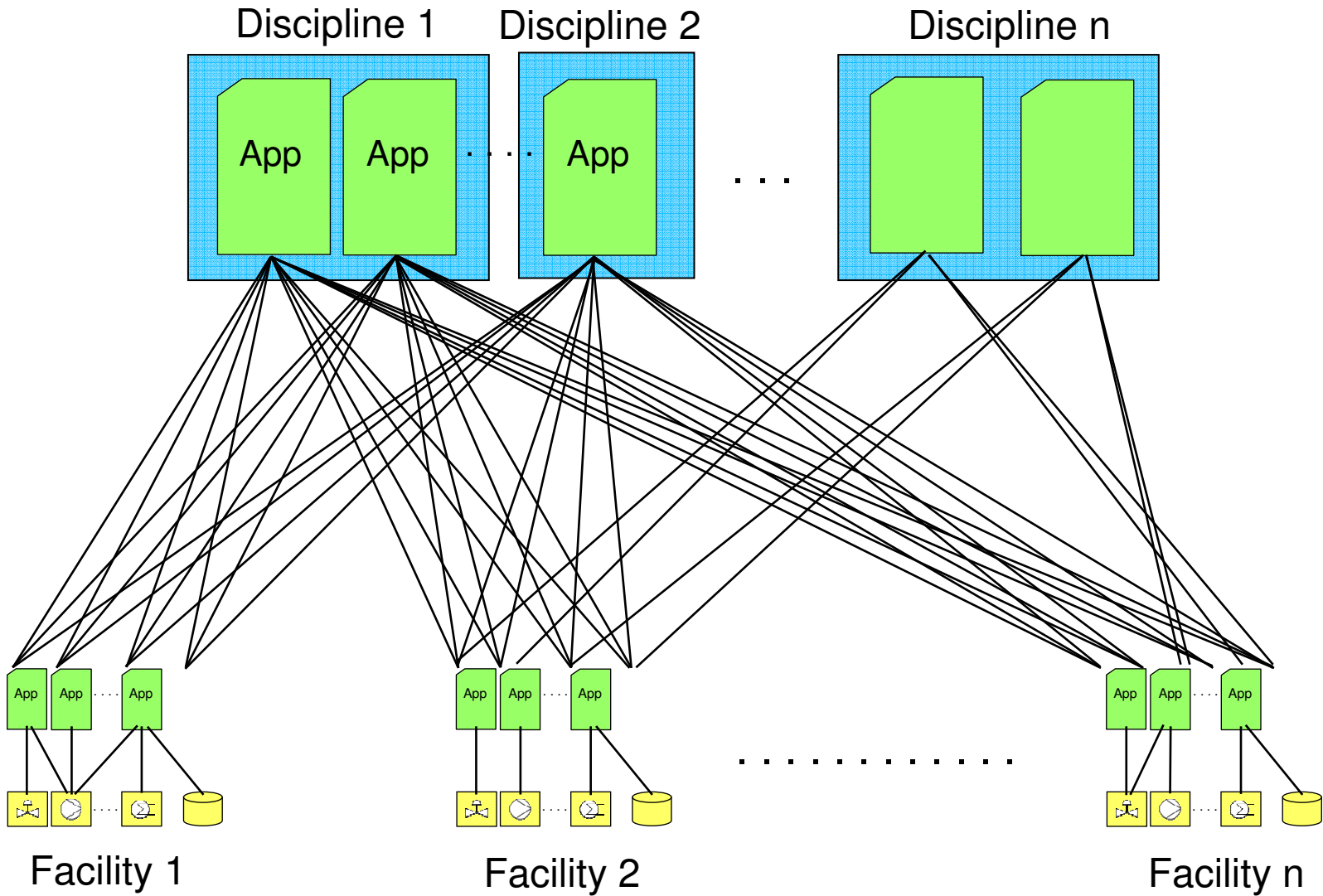


.....

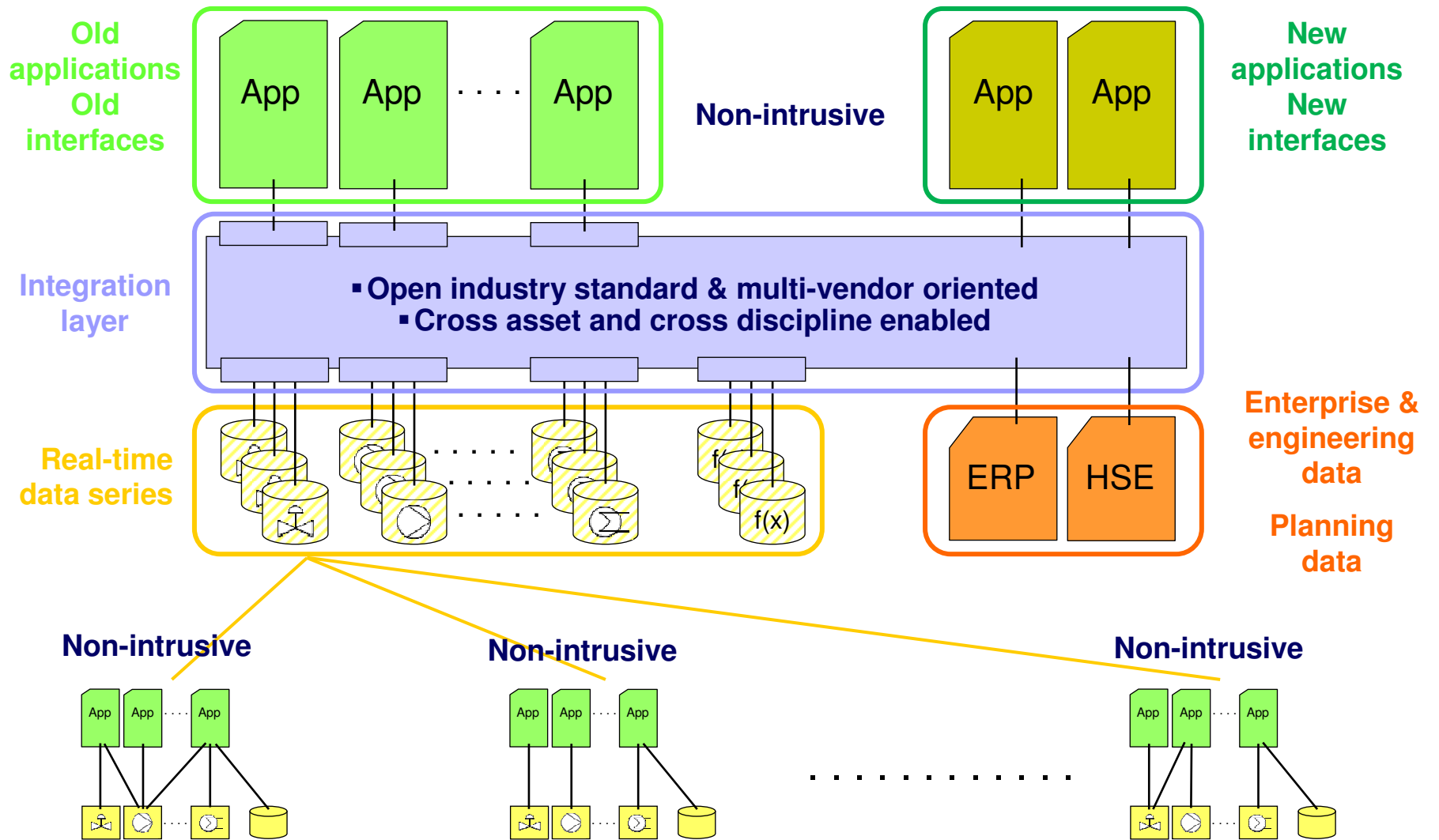


Problem

Unsustainable Cross-Site and Cross-Discipline Integration Approach

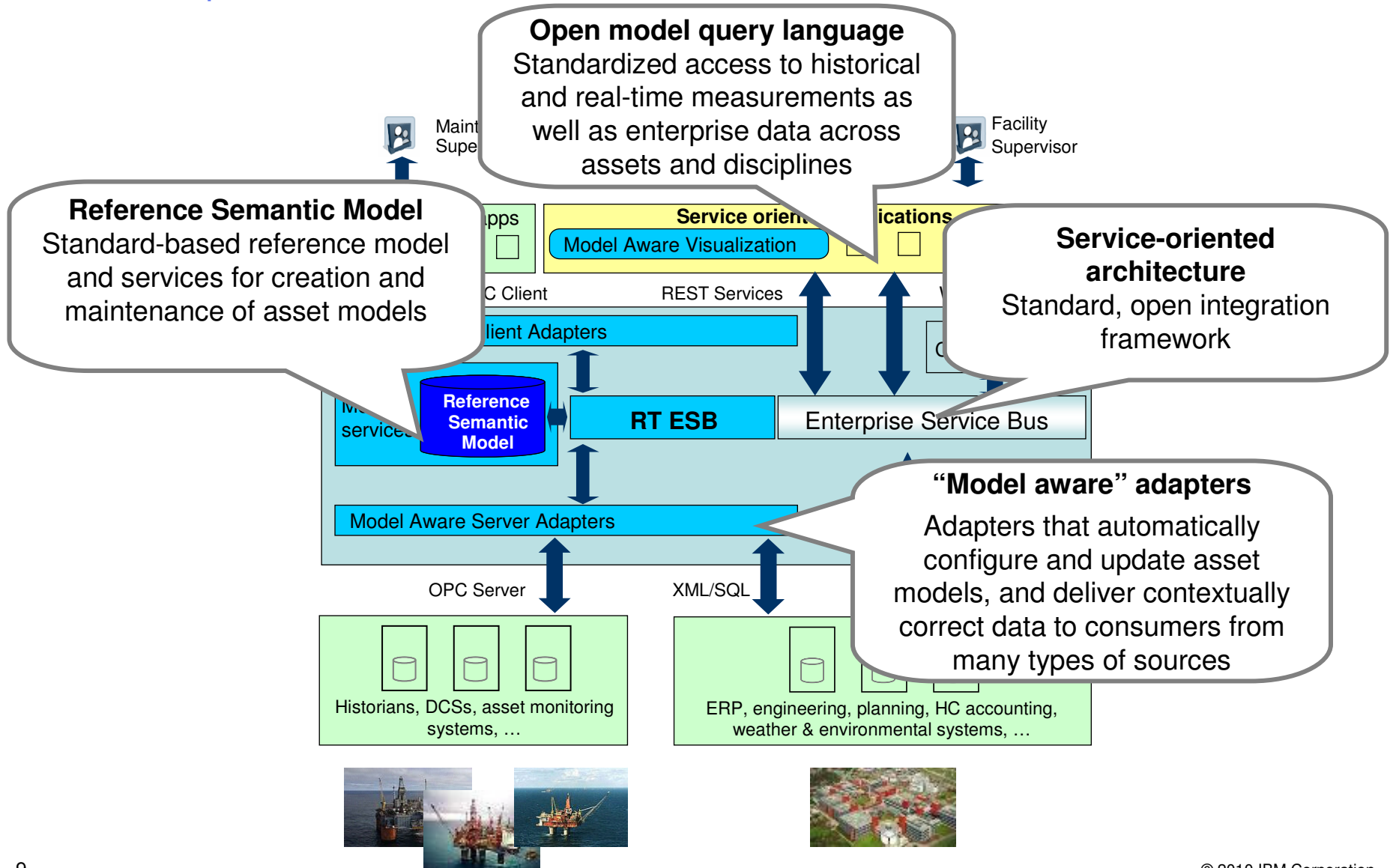


With IBM's IIF A Unifying Industry-specific Integration Layer



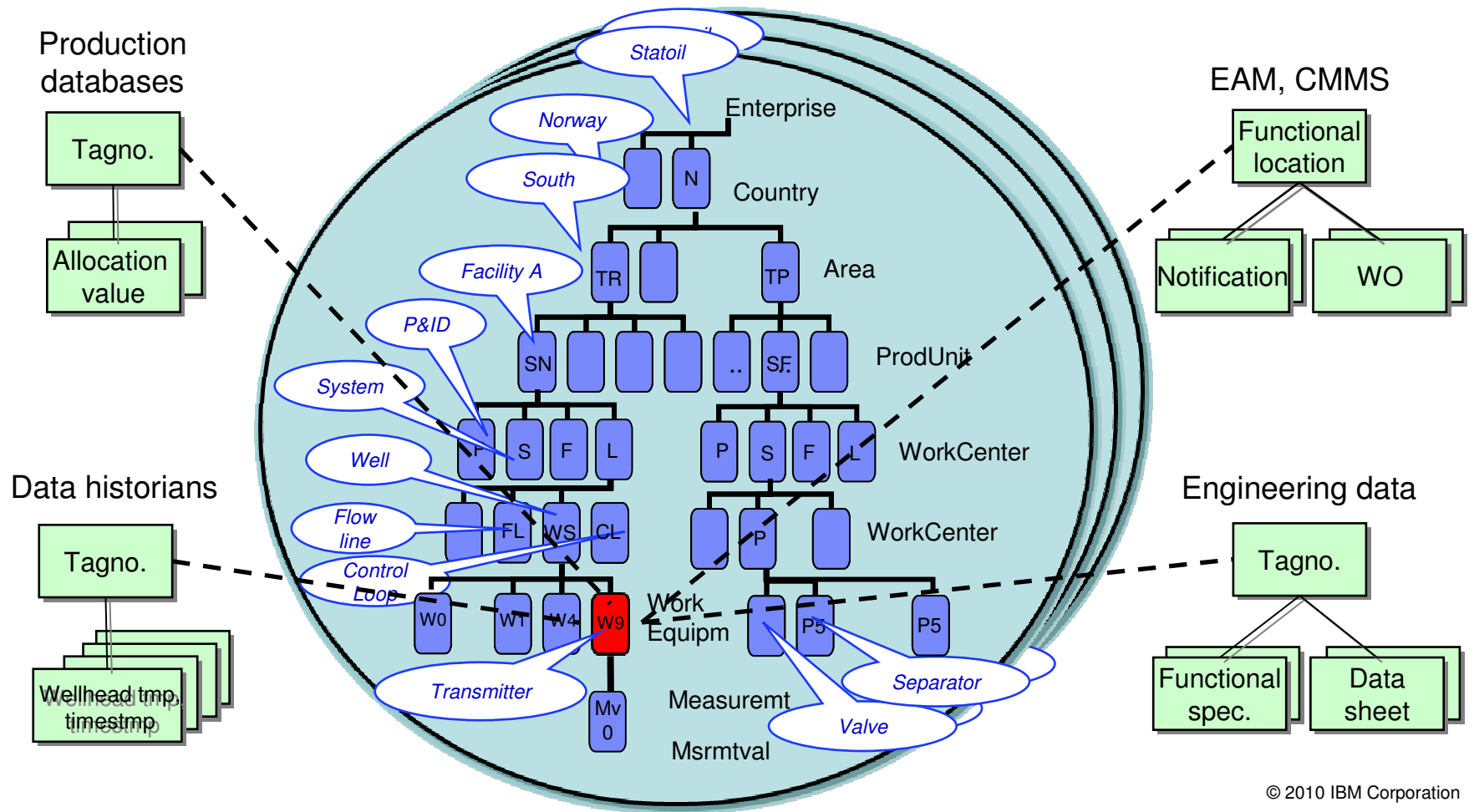
Main functional components of IBM's IIF

Some examples

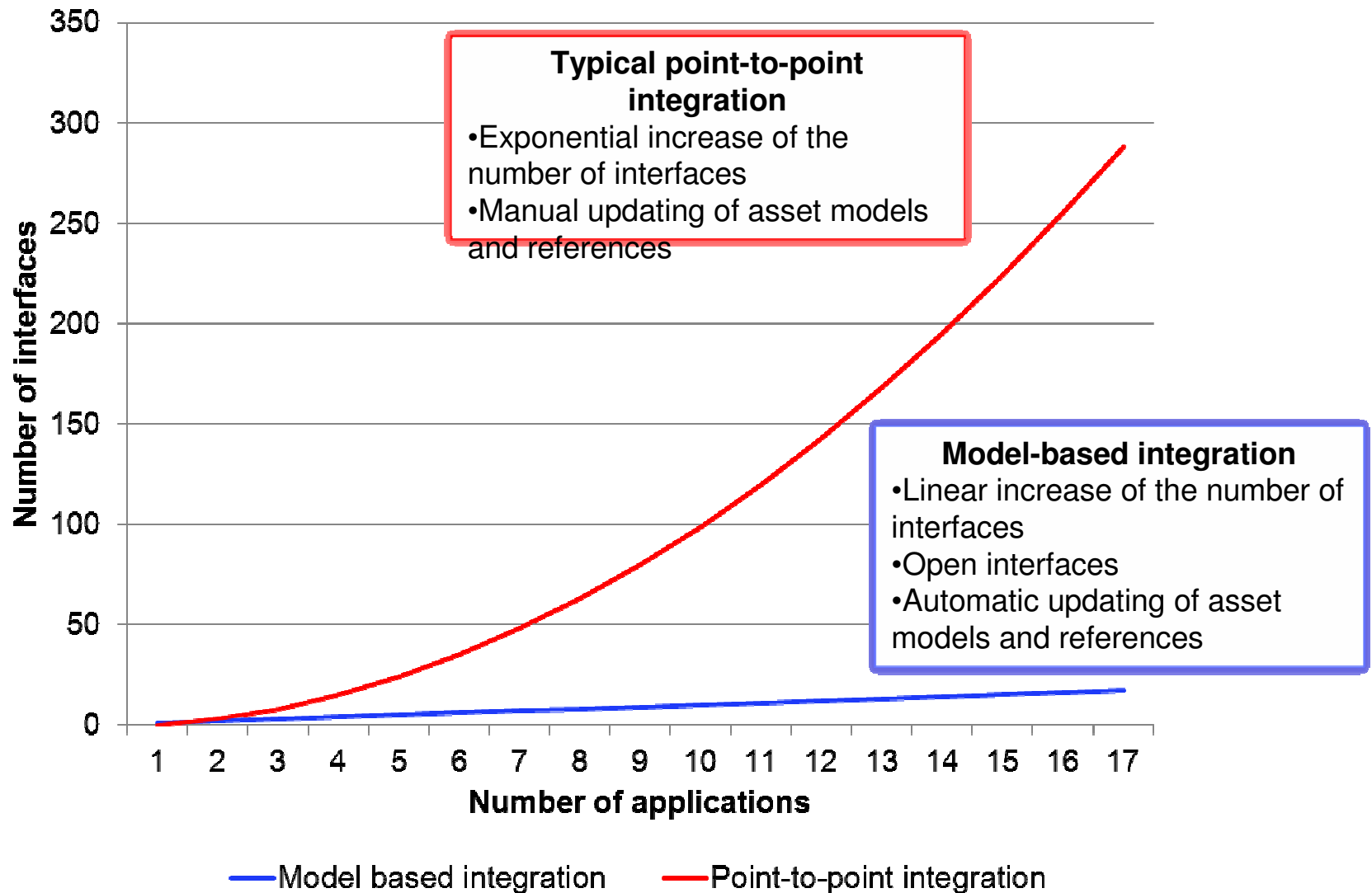


Integrates and standardizes access to information across assets and disciplines

Asset models based on open industry standards
(ISO 15926, ISA, Mimosa, Witsml, Prodml, ...)



Scales very well across assets, disciplines & applications

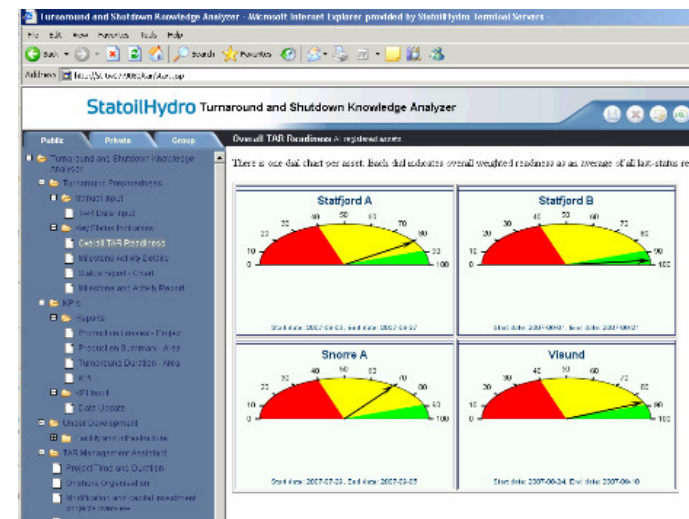


Fascilitates fast implementation of Integrated Operations (IO)

- Enables fast rollout of new, value-added work processes and applications
- Eliminates many complex & expensive system interfaces
- Supports many assets, work processes & disciplines
- Requires no changes to existing plants

Standardized processes & solutions

Performance monitoring



Simultaneous monitoring of the performance of maintenance projects across all assets

Summary

- For the full potential of IO to be realized, an open integration framework like IBM's IIF is required
 - Cross-asset and cross-discipline work processes
- The IIF uses a semantic model that is based on open industry standards like ISO 15926
 - Standardization of the access to information
- The IIF solves the industry's integration and scalability challenges in a non-intrusive way
 - Fast rollout of IO compliant work processes & applications across assets and disciplines





Thank you

Thank you

Grazie

Grazie

Takk

Takk

Khorb khun

Khorb khun

Terima Kasih

Terima Kasih



Dhanya-waadh

Dhanya-waadh

Obrigado

Obrigado

