

OSIsoft®

USERS²⁰¹¹ CONFERENCE



Turning **insight** into **action**.

Transitioning the PI System as a Facility Ages and Ownership Changes

Presented by **Simon Wright**
Founder & CEO, Industrial Evolution

About Industrial Evolution

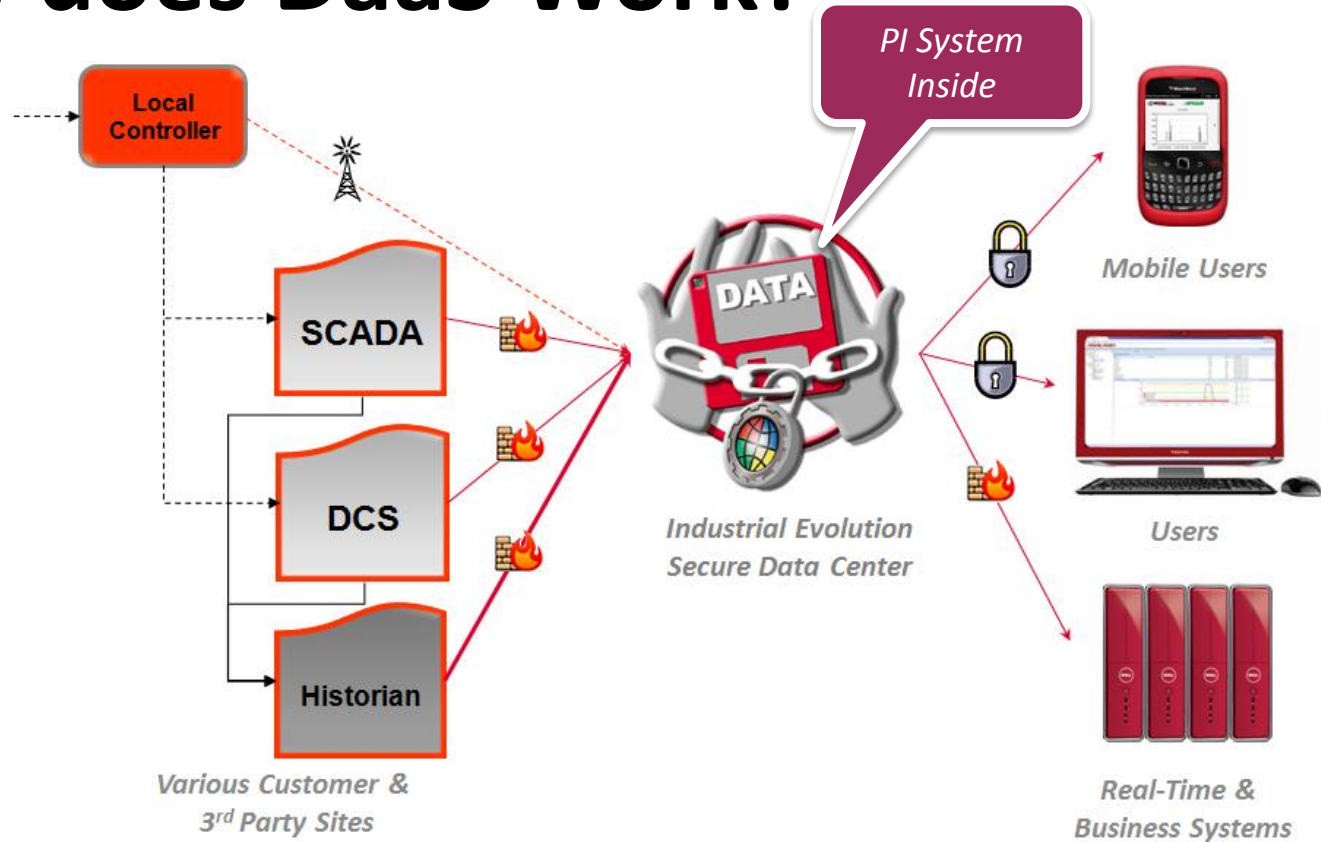


- Data-as-a-Service (“DaaS”)
 - Well*Share
 - Meter*Share
 - Power*Share
 - Web*VMI
 - Web*Technician
 - Data*Rova
- Application Services
 - Consulting
 - Development
 - Implementation
 - Support

*Subscription
Service*

*Project
Service*

How does DaaS Work?



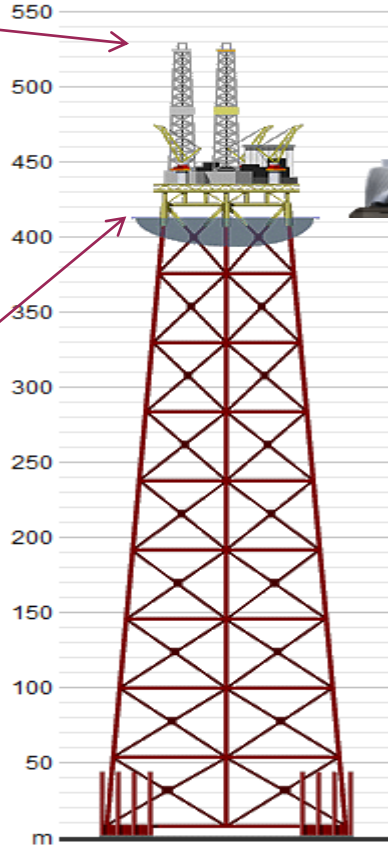


The Story of Bullwinkle

Deepwater Gulf of Mexico

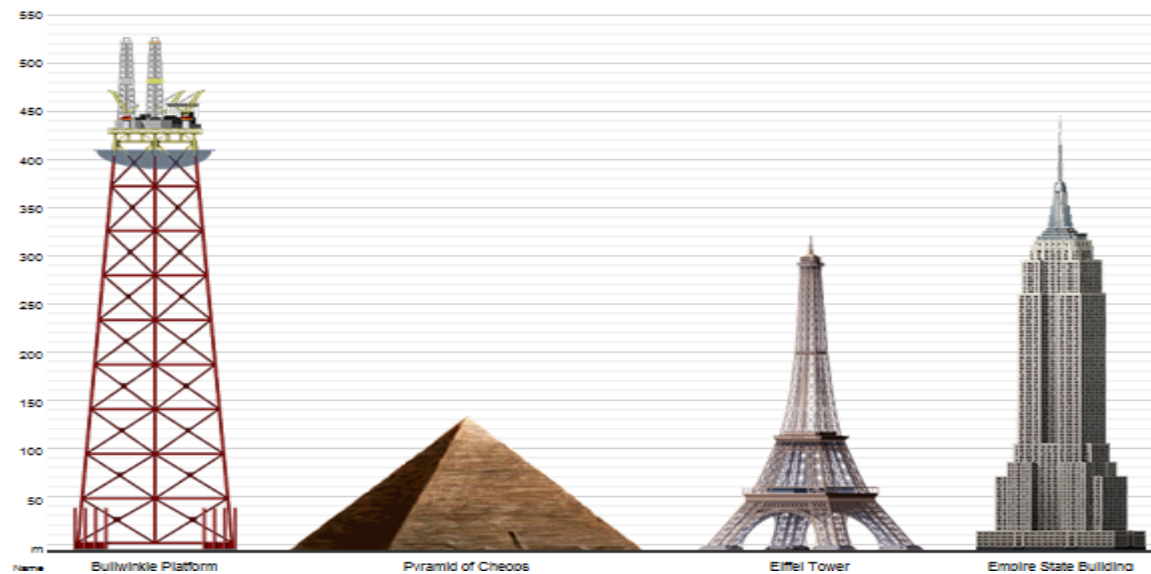
1,740 ft
total height

1,350 ft
under water



Sydney Opera House, Australia
to same scale

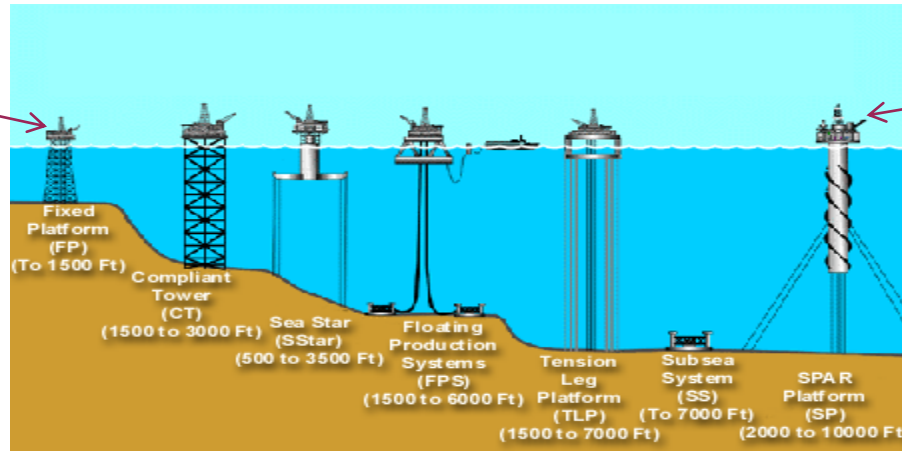
**Completed in 1998, Bullwinkle is still
the tallest bottom-supported offshore
steel structure in the world**







Bullwinkle

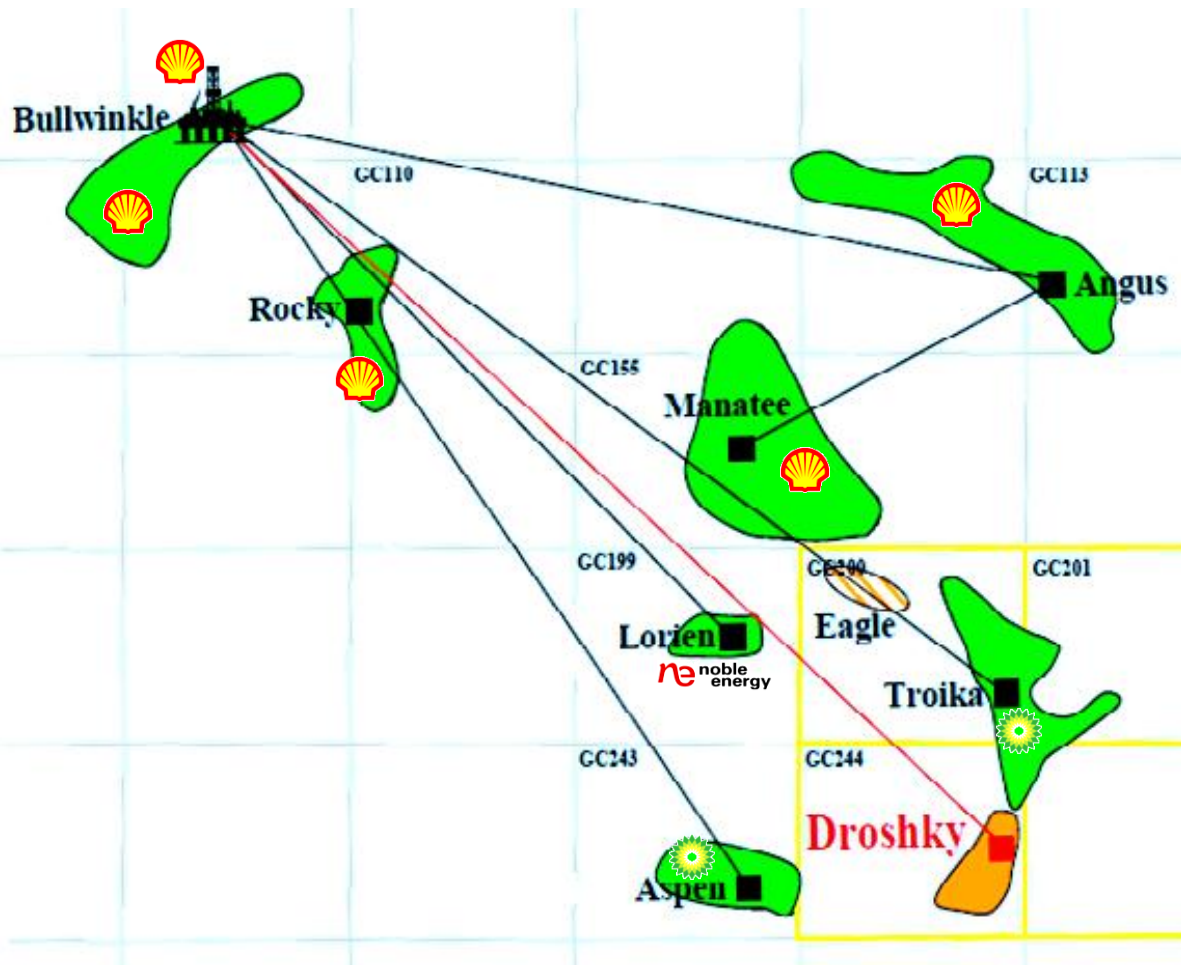


Perdido

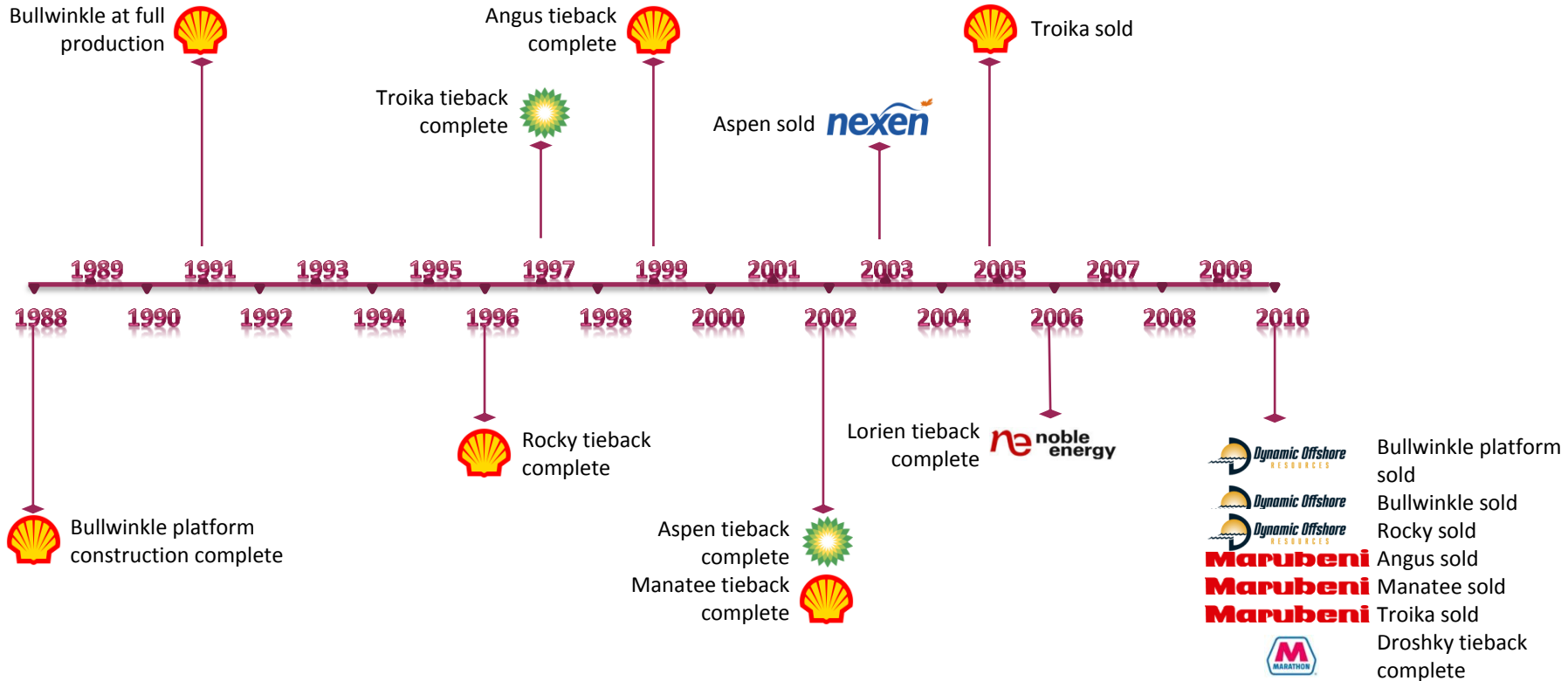
What was Required?

- Oil production from various fields was managed by one company, but owned by another – the owner needed real-time visibility of the operation
- Ownership of each field changed hands many times throughout the life of the field – visibility requirements kept changing
- A coherent, cost-effective solution that would survive multiple transition was required

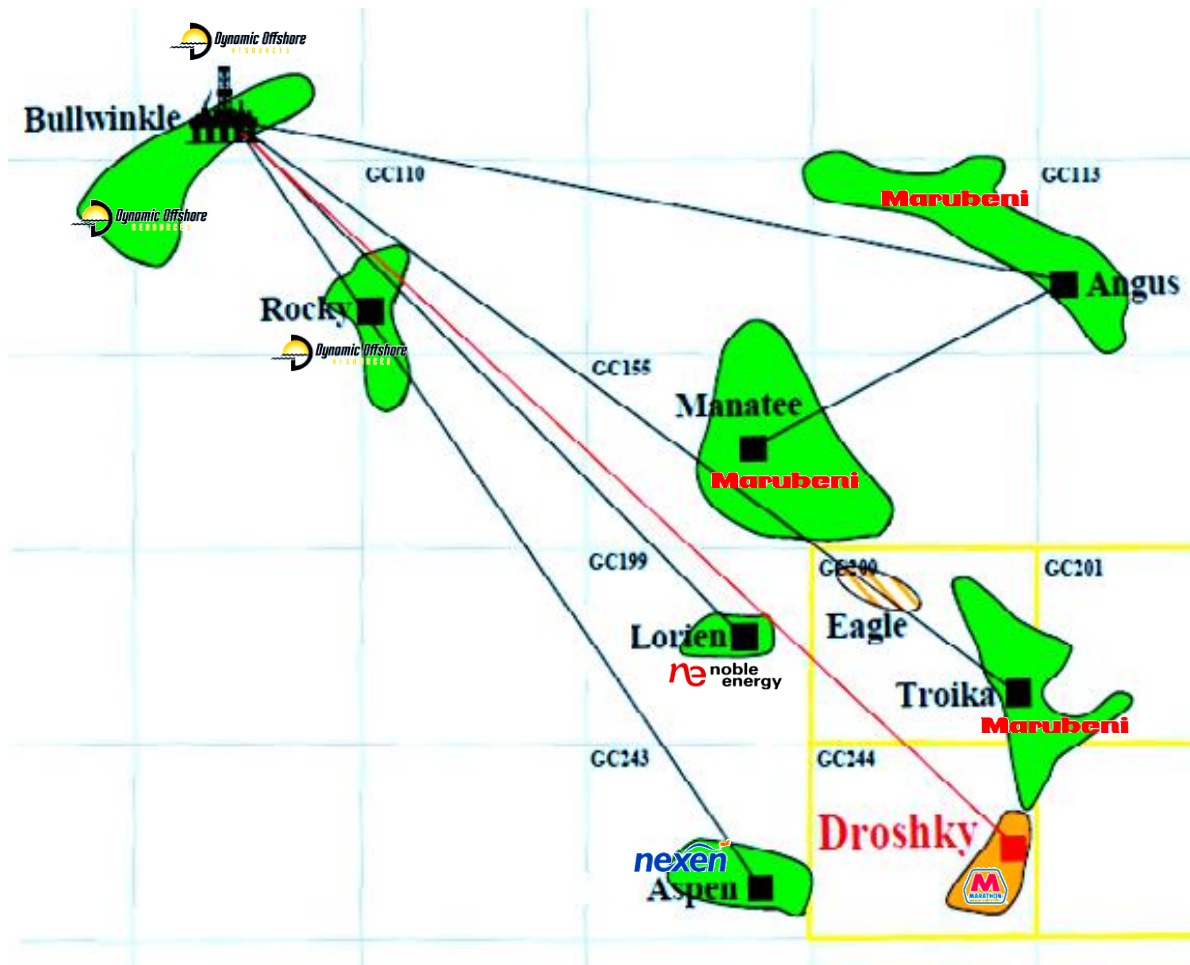
Before



Timeline



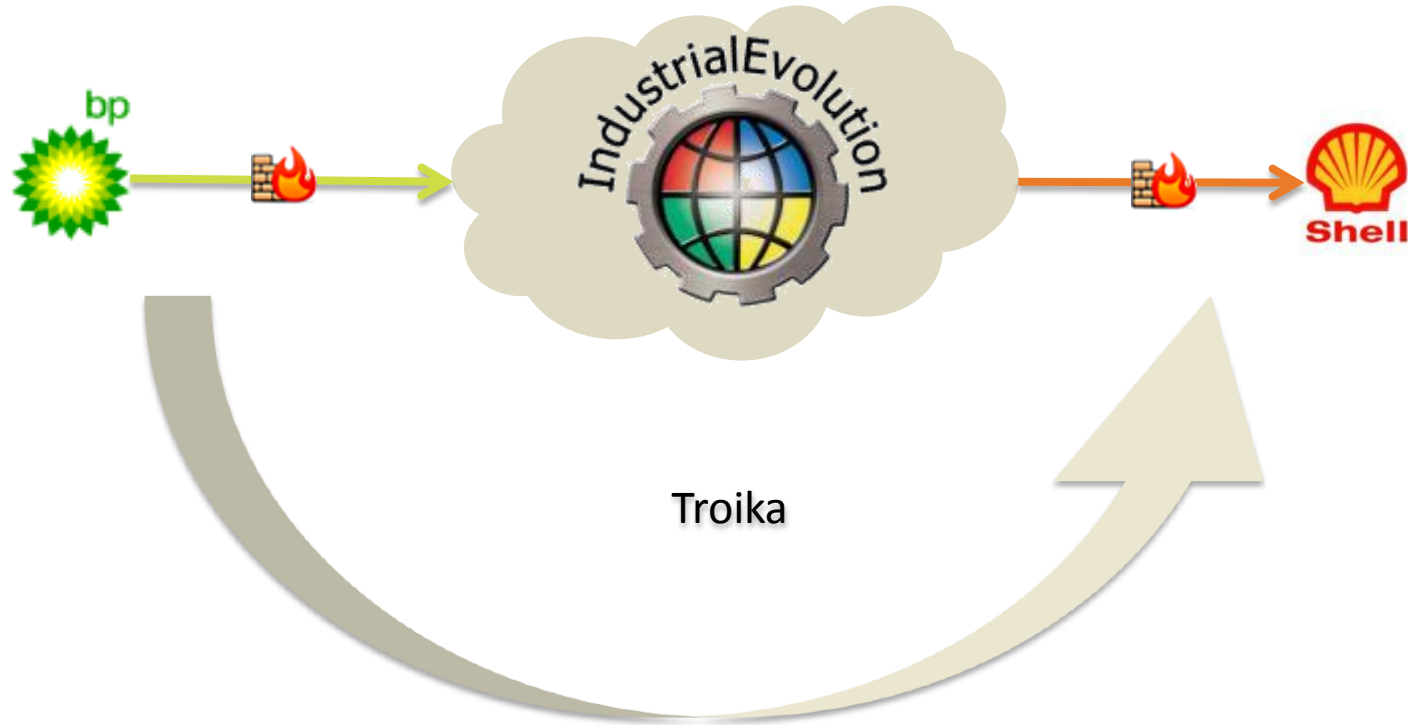
After



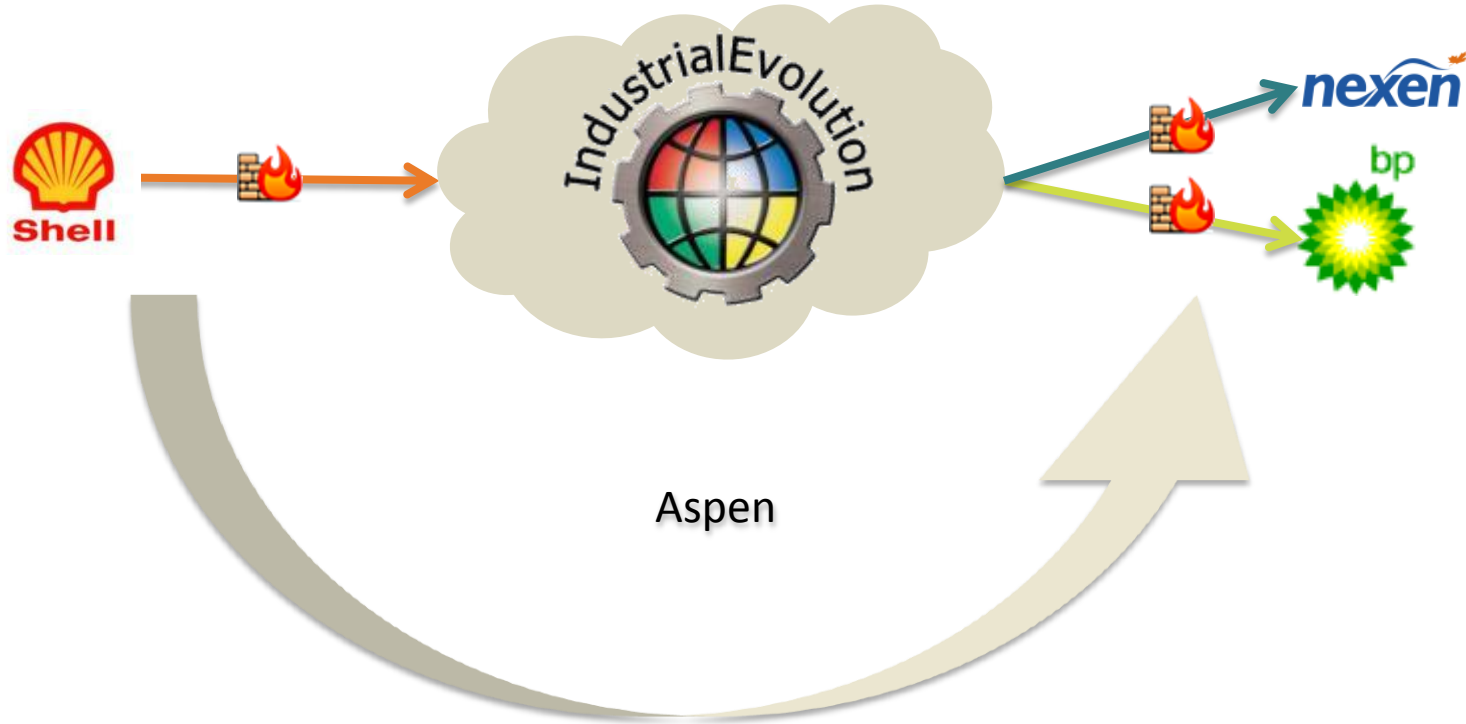
Initial Projects – DaaS Between Partners

- Shell used IE's Well*Share to receive Troika real-time data BP (from tie-back to BP's nearby Brutus platform)
- BP and Nexen used IE's Well*Share to receive Aspen real-time data from Shell
- Noble Energy installed telemetry devices from GlobaLogix (who used IE's Web*Historian as a front-end)

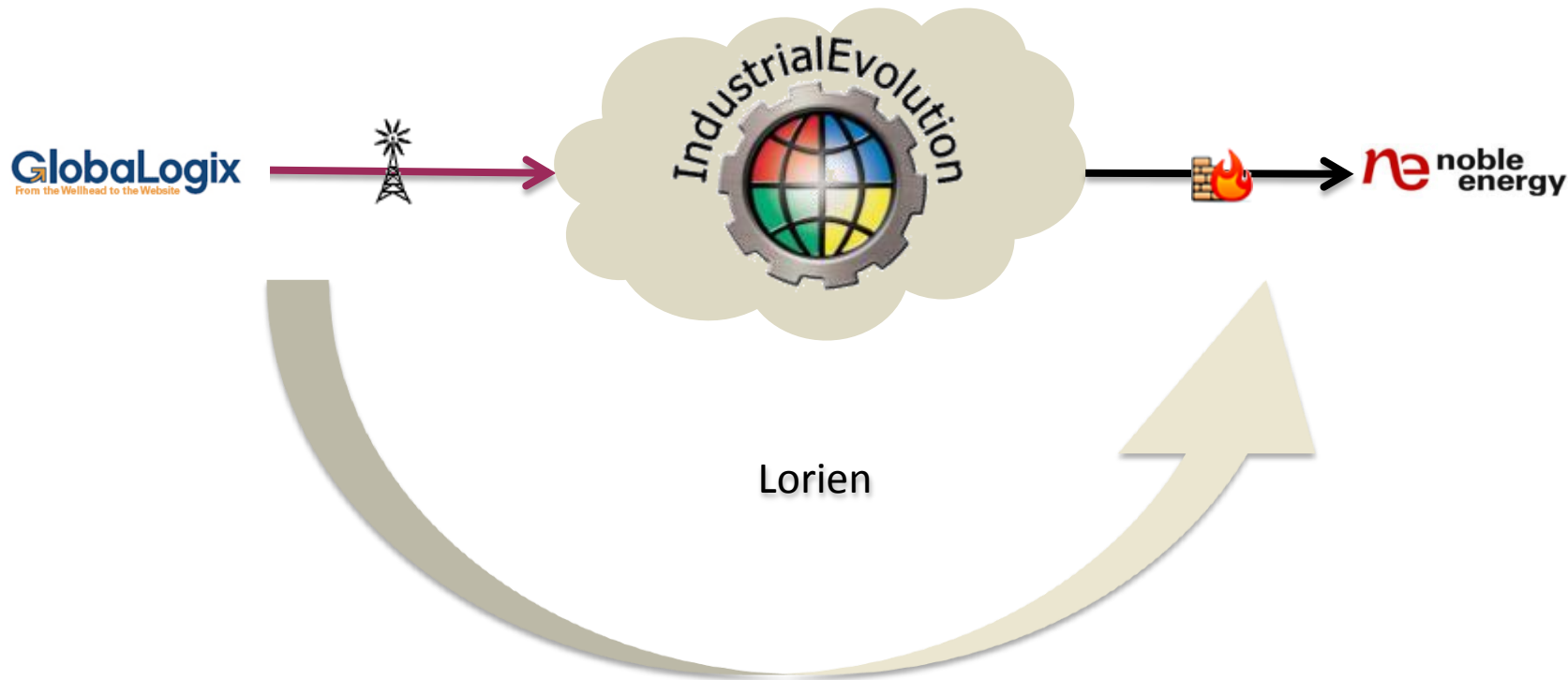
BP to Shell



Shell to BP & Nexen



Noble Energy's Telemetry Service



Change #1 – BP Sold Troika to Shell

- Troika tie-back to Brutus severed
- Troika directly tied back to Shell's systems on Bullwinkle



Change #2 – BP Sold Aspen to Nexen

- BP no longer needed real-time Aspen data from Shell



Shell Sold Bullwinkle Platform to DOR

- DOR became platform operator and owner of Bullwinkle & Rocky fields
- DOR needed a historian – options were:
 - Use existing Wonderware or Intellution SCADA systems on platform
 - Buy PI System
 - Buy something else
- We (and Shell) recommended PI System
 - Can easily backfill Shell history
 - Can use corporately
 - Small PI Server pricing

Change #3 – PI System Transition

- Set up temporary PI Server in IE data center
- Identified subset of tags to be transferred to DOR
- Established PI to PI Interface to backfill history
- DOR bought PI System and installed it
- Wonderware & Intellution interfaces re-directed from Shell
- DOR sent clone to IE & IE reprocesses archive with history
- DOR copied archive to production server
- IE connected to DOR PI Server to continue Aspen feed to Nexen, started Bullwinkle/Rocky feed to Shell



Change #4 – Shell Sold Angus, Manatee & Troika to Marubeni Oil & Gas

- Marubeni bought PI System
- IE cloned DOR PI Server, copied to Marubeni production server & deleted tags not authorized for Marubeni
- IE connected to DOR PI Server to feed Angus, Manatee & Troika data to Marubeni



Change #5 – Marathon Completed Droshky and Tied Back to Bullwinkle

- Droshky field completed
- Subsea control system connected directly to Marathon
- Topsides controlled by Bullwinkle Wonderware system
- IE connected to DOR PI System to feed Droshky topsides data to Marathon

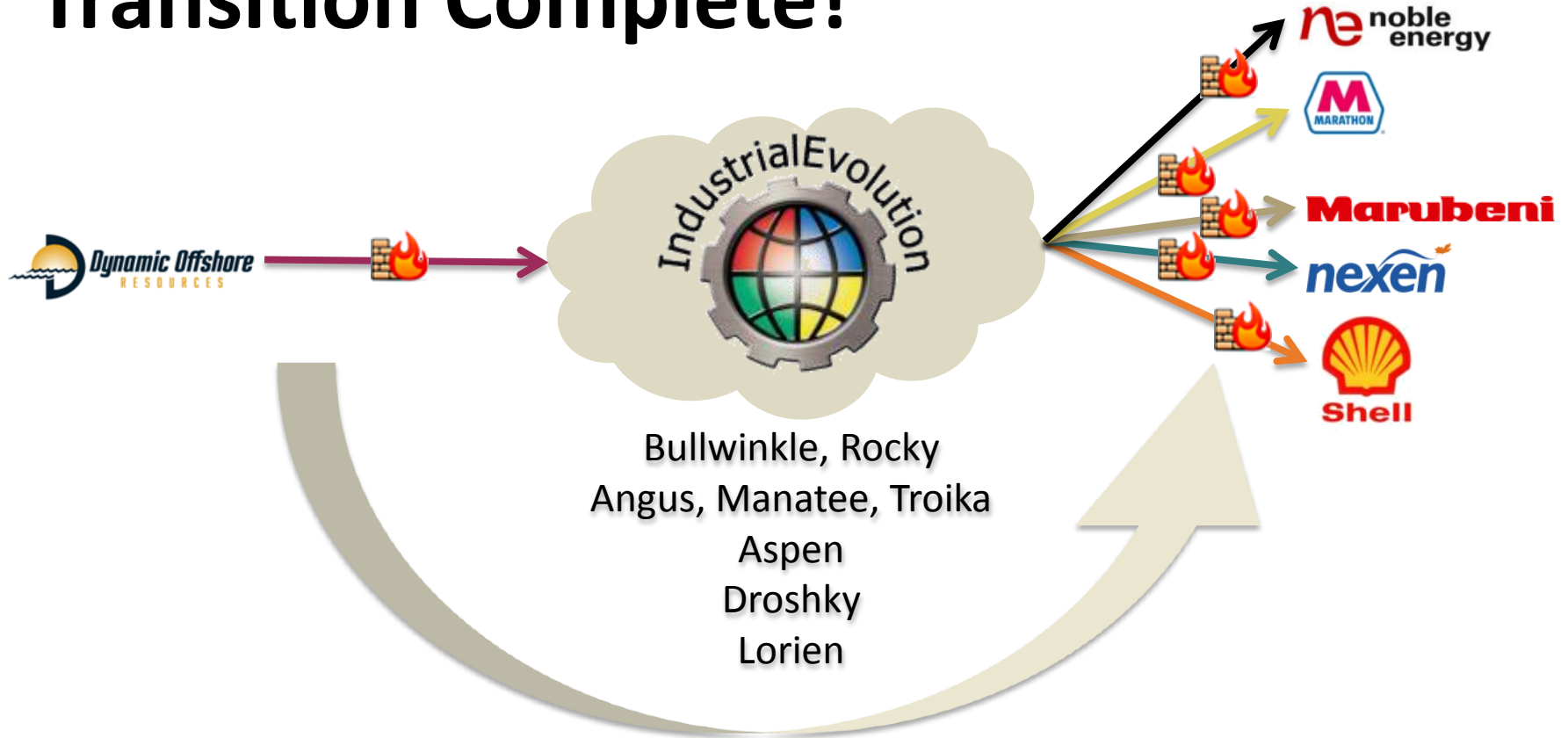


Change #6? – Noble Energy Replaces Telemetry Link?

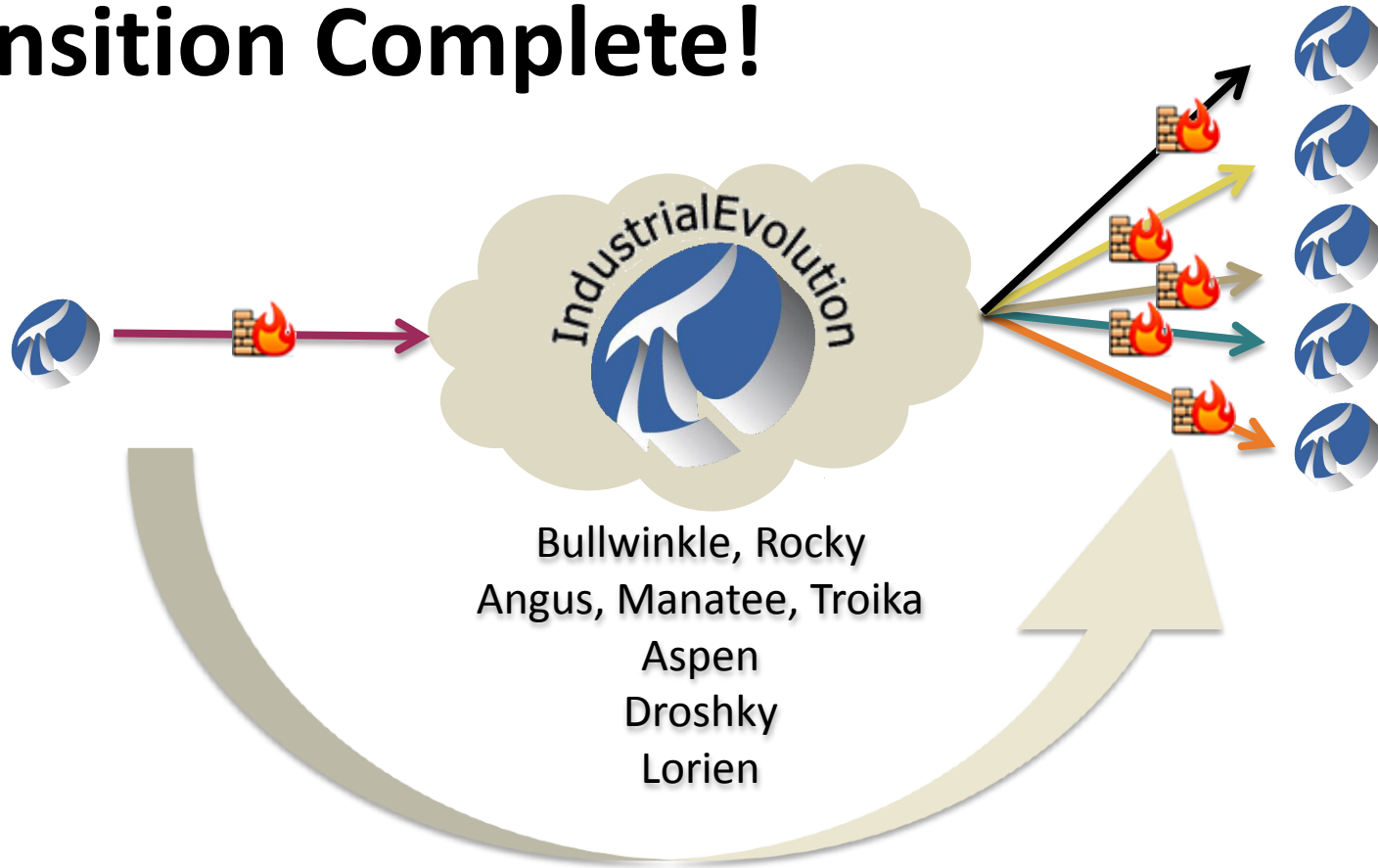
- GlobaLogix telemetry damaged in Hurricane Rita
- Bandwidth issues meant performance had not been great, so telemetry was not replaced
- Noble considering tying into DOR systems



Transition Complete!



Transition Complete!



How Was This All Possible?

- Small system pricing of PI Server (initial DOR & Marubeni PI Servers were 5,000 tags)
- History recovery capability of PI to PI Interface
- IE's Well*Share service for data sharing
- Rapid deployment and switchover of PI System
- Rapid re-configuration of data sharing services to maintain data integrity

Turning **insight**
into **action.**

Questions



ContactUs@IndustrialEvolution.com



+1 (888) WEB-PWRD



www.IndustrialEvolution.com



Thank you



Turning **insight**
into **action.**