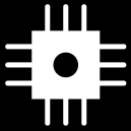


Internet of Things - A Smarter Planet





Our world is becoming

INSTRUMENTED



Our world is becoming

INTERCONNECTED



Virtually all things, processes and ways
of working are becoming

INTELLIGENT

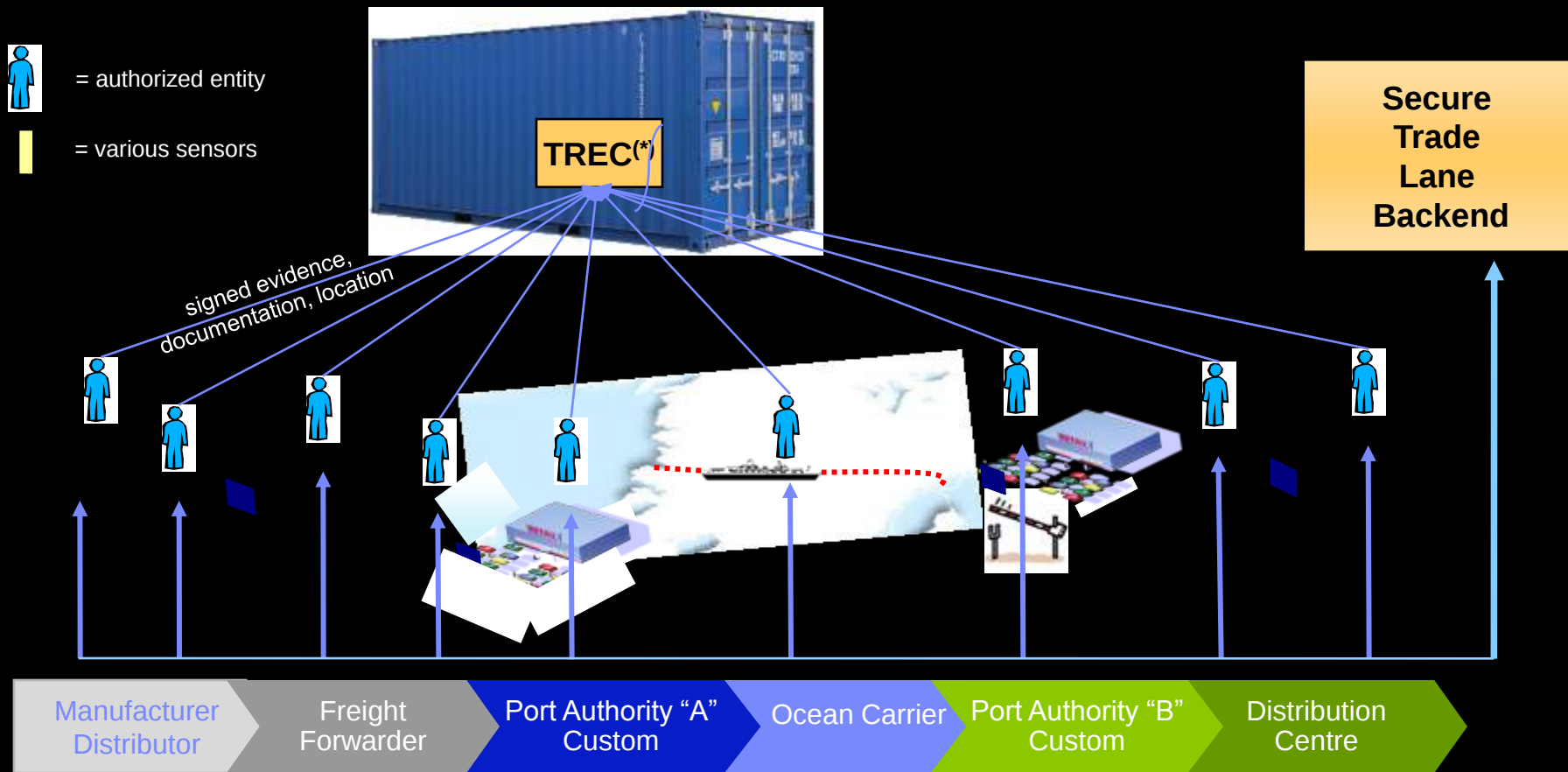


An opportunity to **think and act in new ways**—
economically, socially and technically.



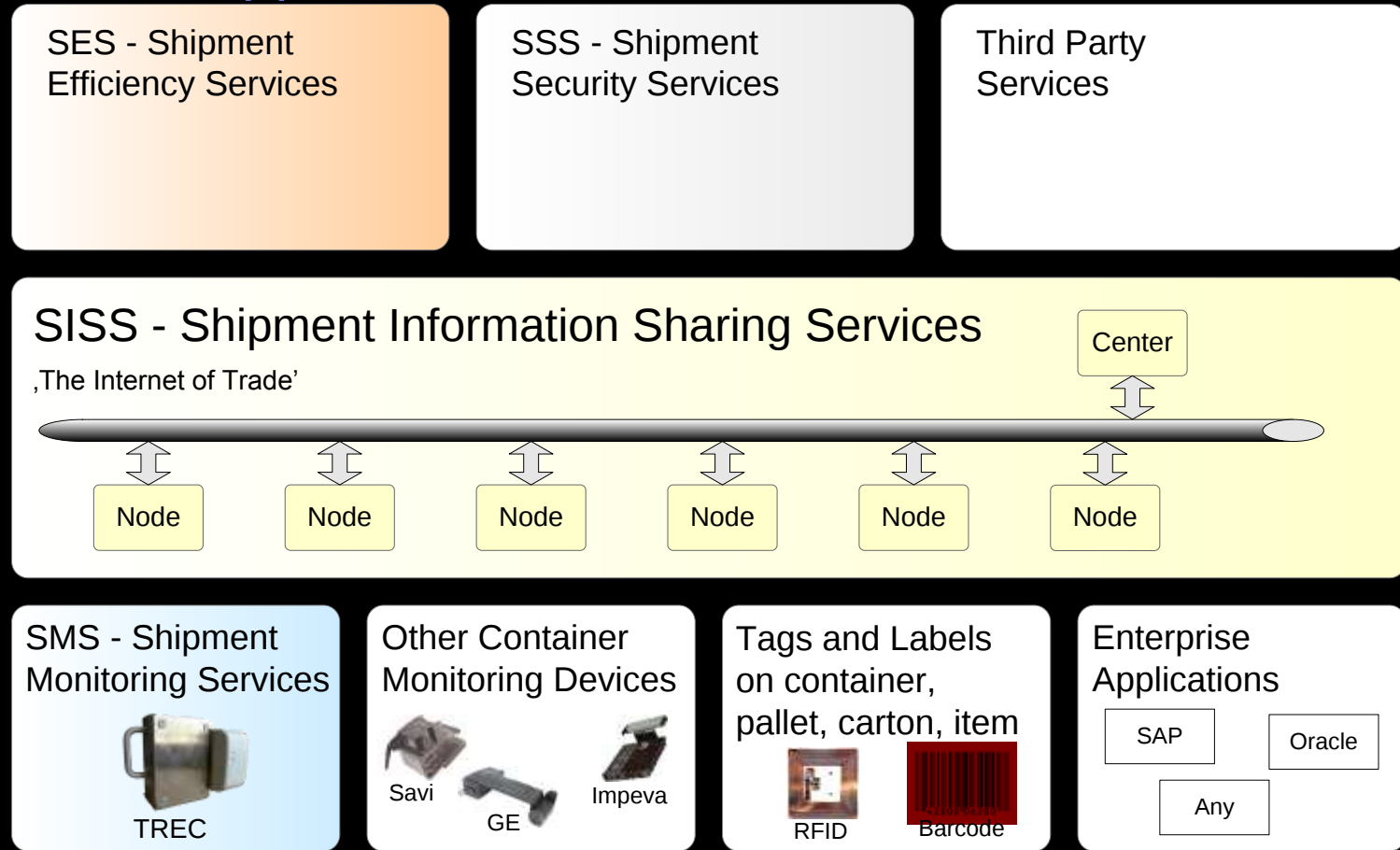
Secure Trade Lane Overview

Secure Trade Lane allows the tracking of shipments along a supply chain, integrating all involved parties.



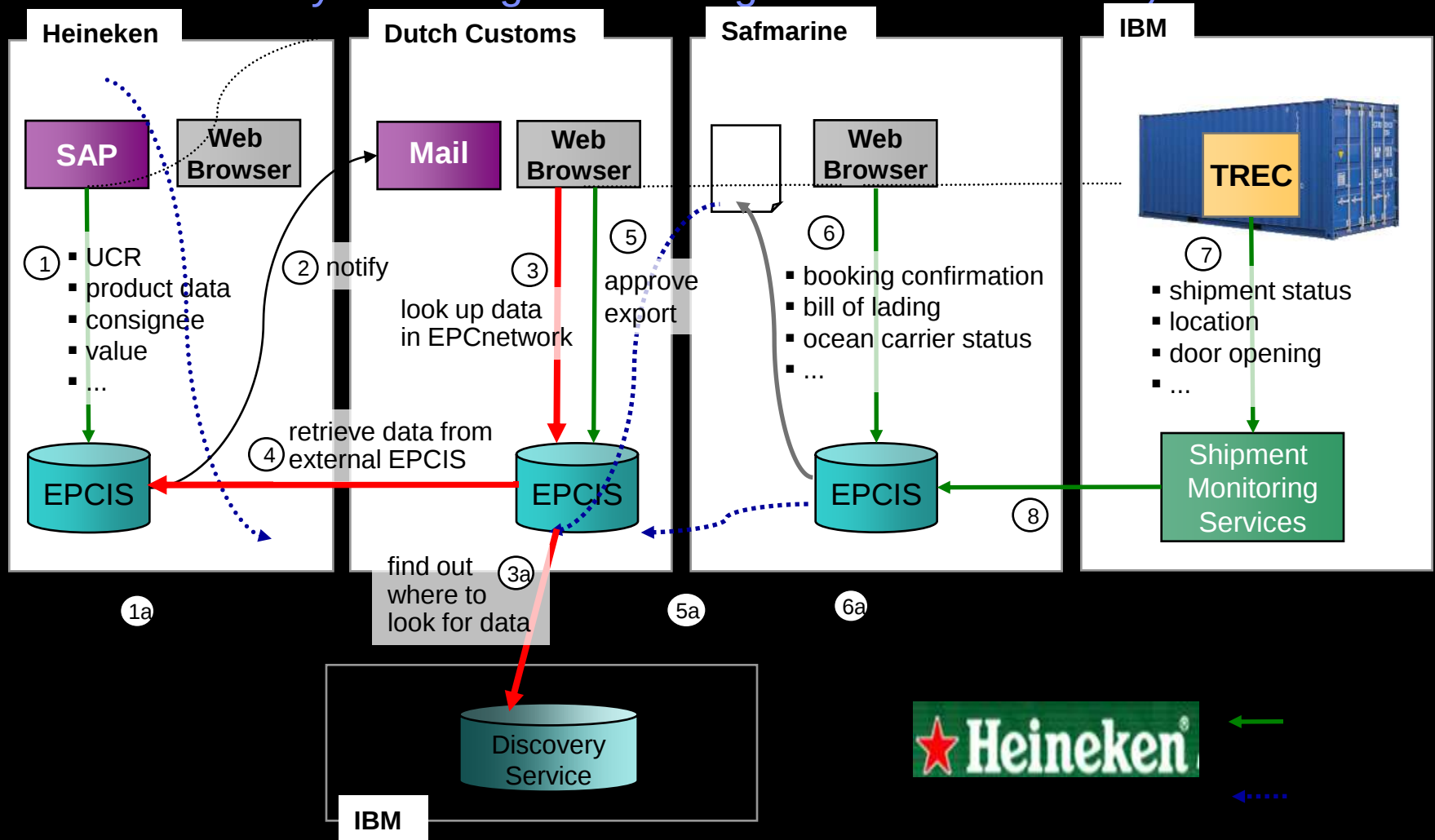
(*) TREC= Tamper-Resistant Embedded Controller

IBM Secure Trade Lane comprises a set of services that integrate with various monitoring and tracking technologies and external applications



Reference deployment – Heiniken.

Data from SAP, the TREC, shipping documents and manual entries are stored decentrally and integrated through a central Discovery Service.

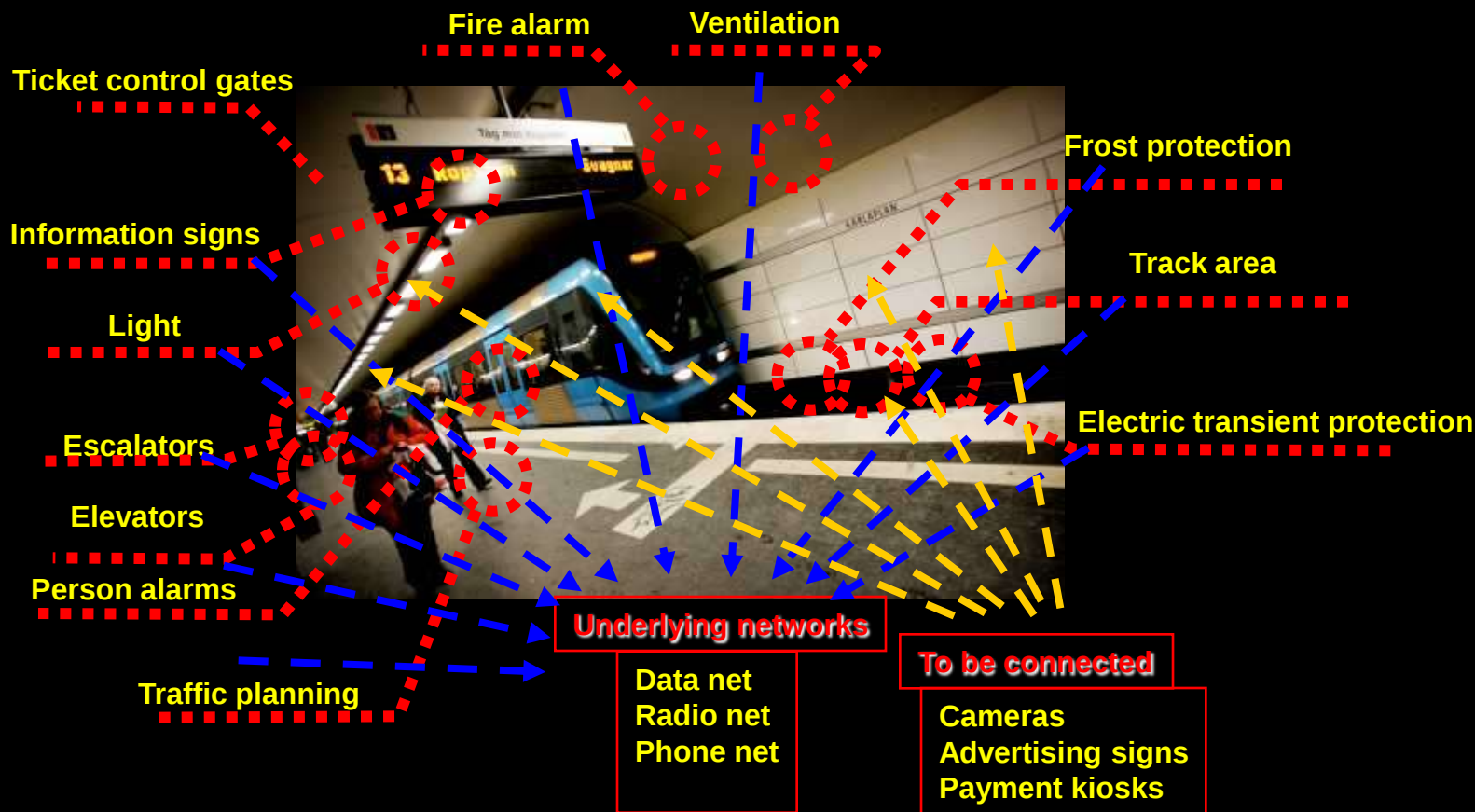




Stockholm Public Transportation Overview

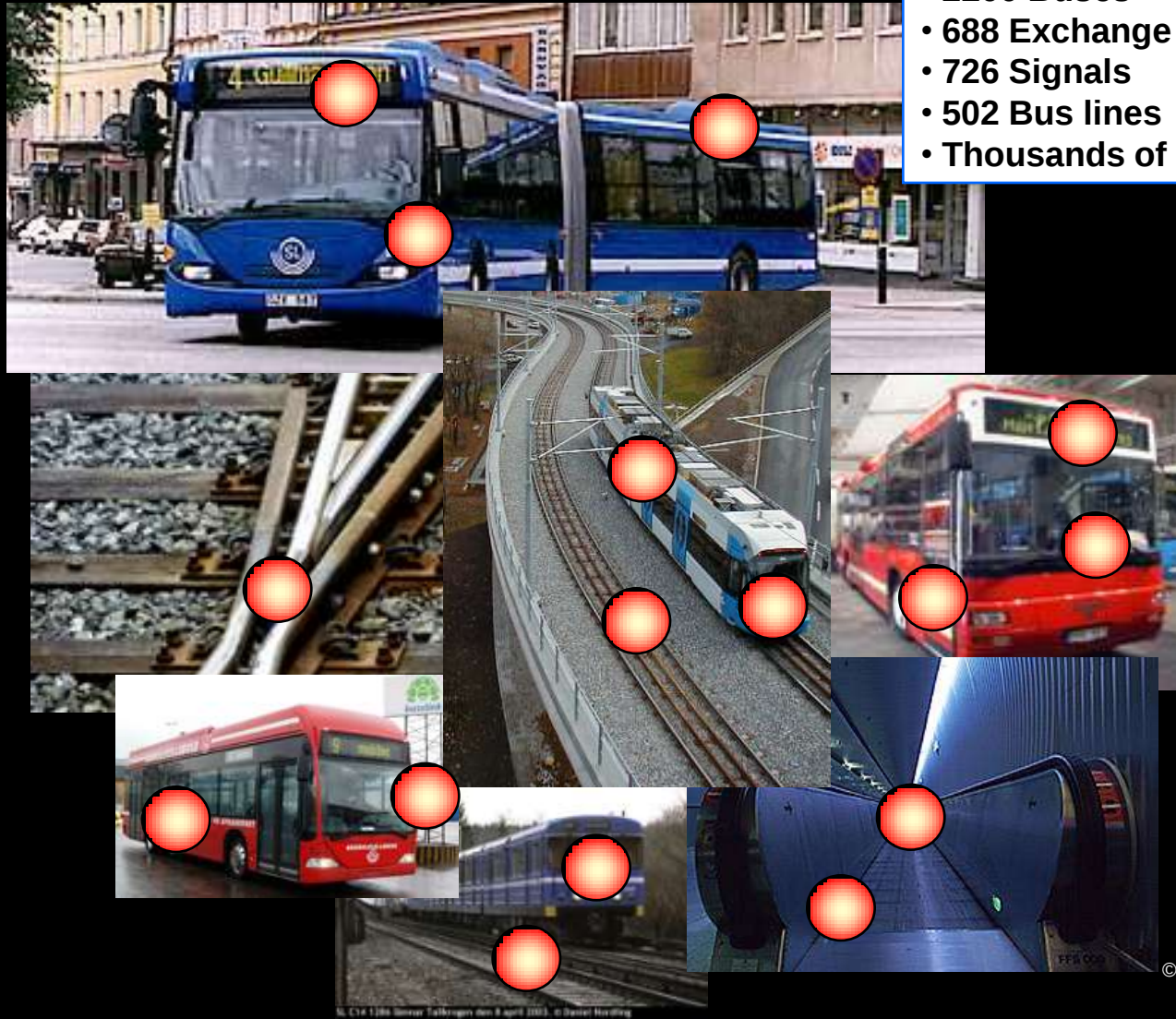


What is connected?

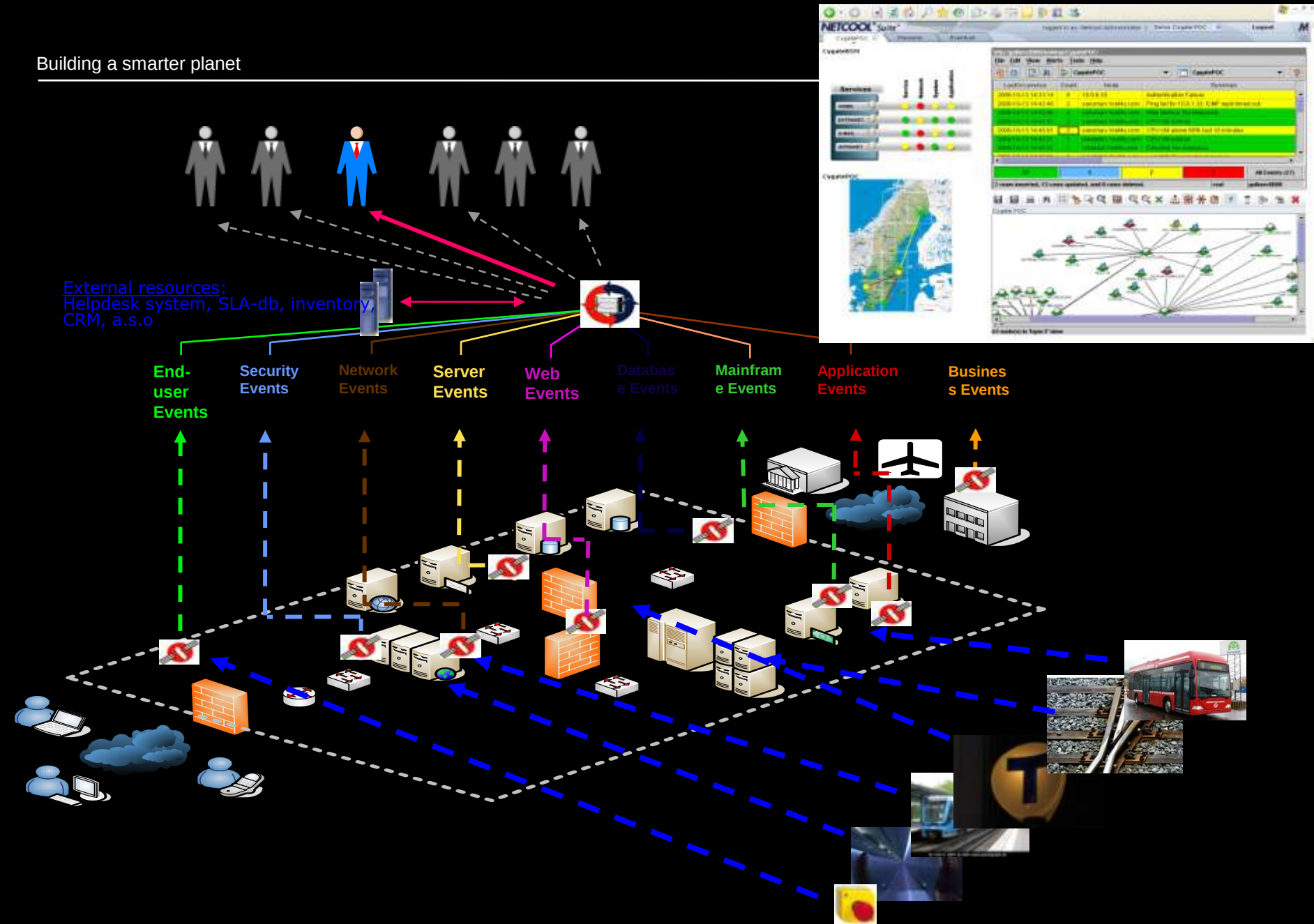




- 2200 Buses
- 688 Exchange points
- 726 Signals
- 502 Bus lines
- Thousands of bus stops



Building a smarter planet



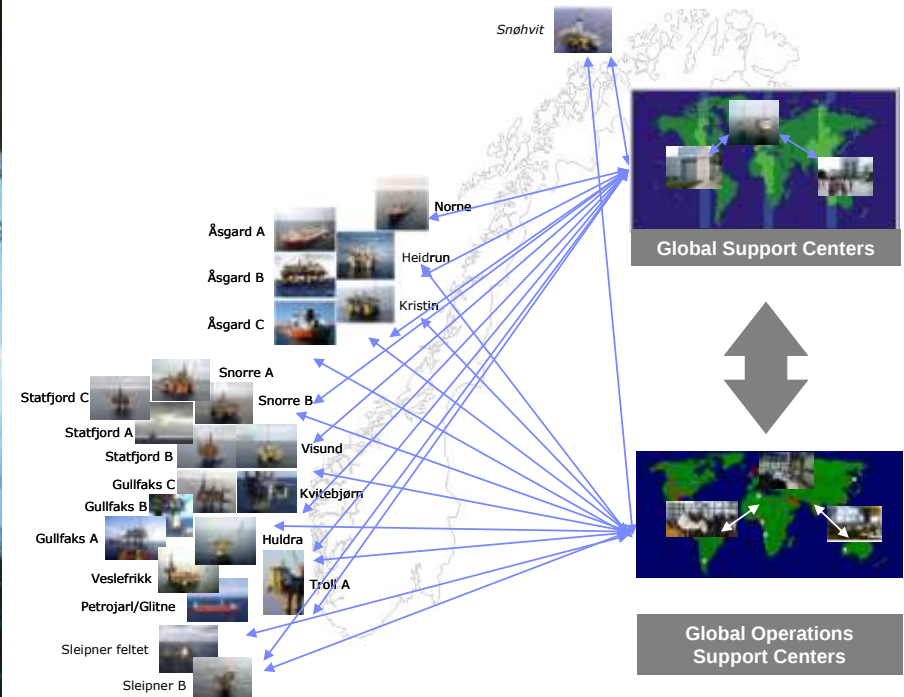


Data acquisition in the North Sea Overview

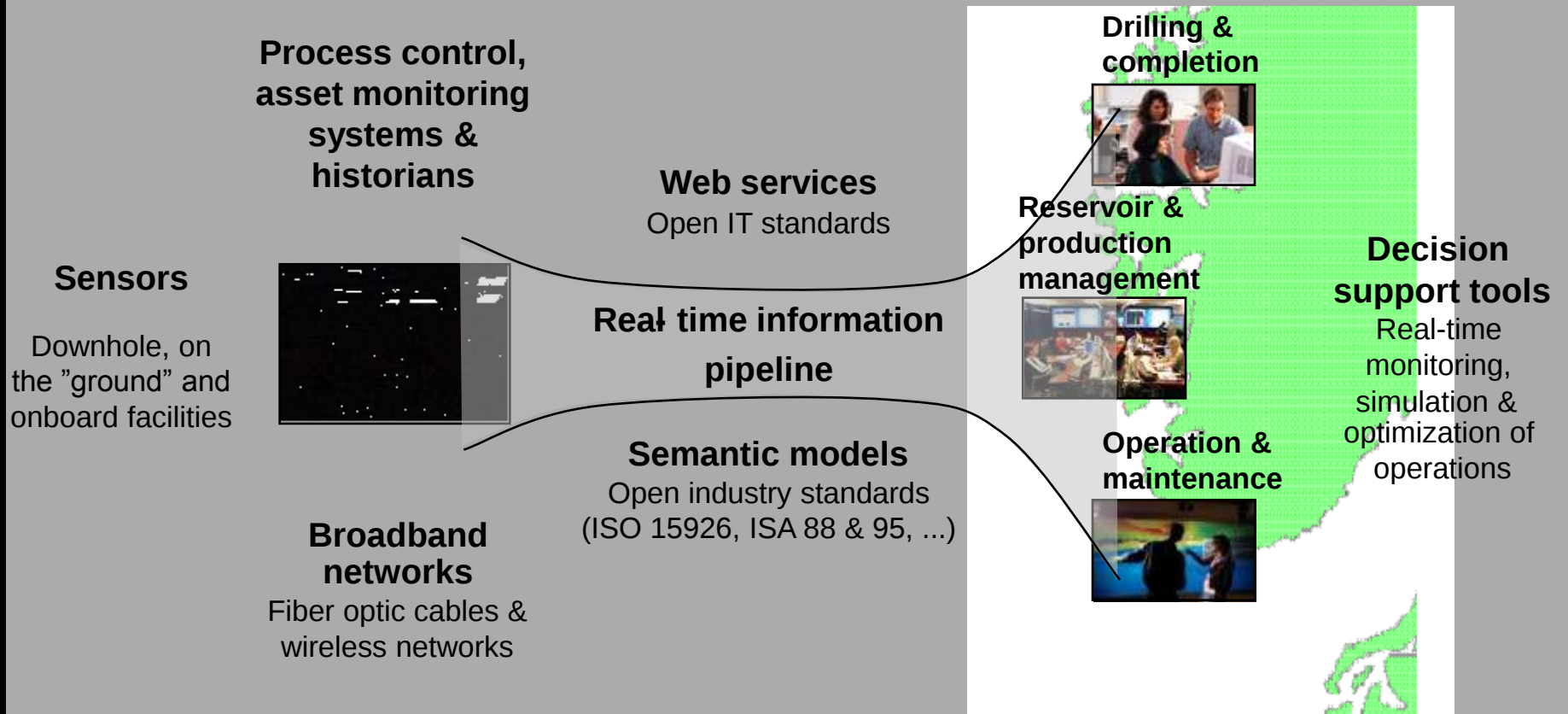
Upstream Oil and Gas Operations

- Large number of complex offshore facilities / plants
- Consolidation and optimization of plant operations required
- Large number of different applications per plant
- Each instance with own unique reference and data model. Example:
 - Real Time historians (warehouse of historical measurements) - One for each asset
 - Hydro Carbon Accounting systems - One for each asset / license
- Integrating additional facilities or introducing new functionality is often difficult, time consuming and costly

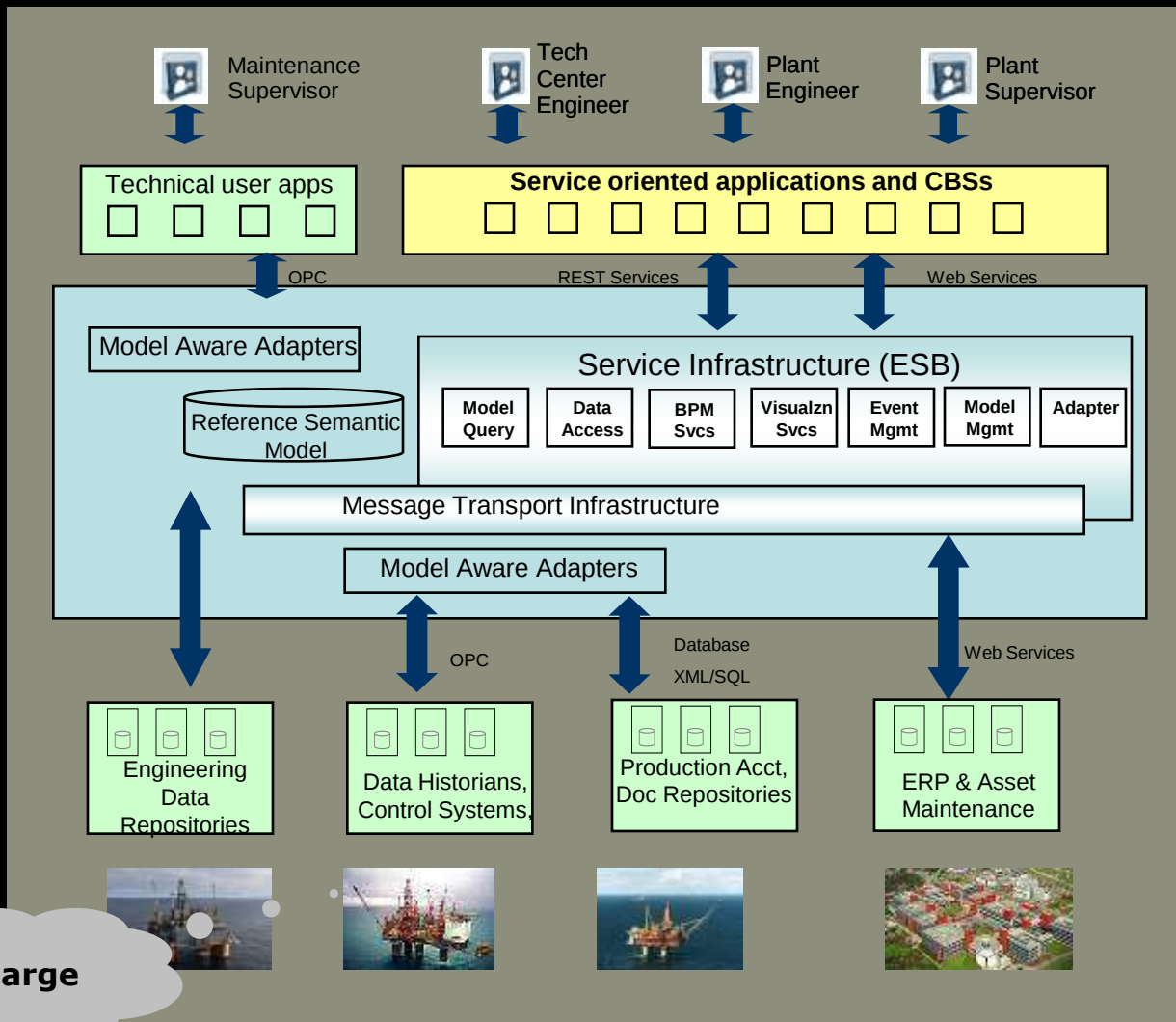
- Challenges
 - Lost volumes
 - Inefficient operation & maintenance
 - Incidents
 - Reduced IT ROI



IO - Technologies required



Integrated Information Framework - Architecture View



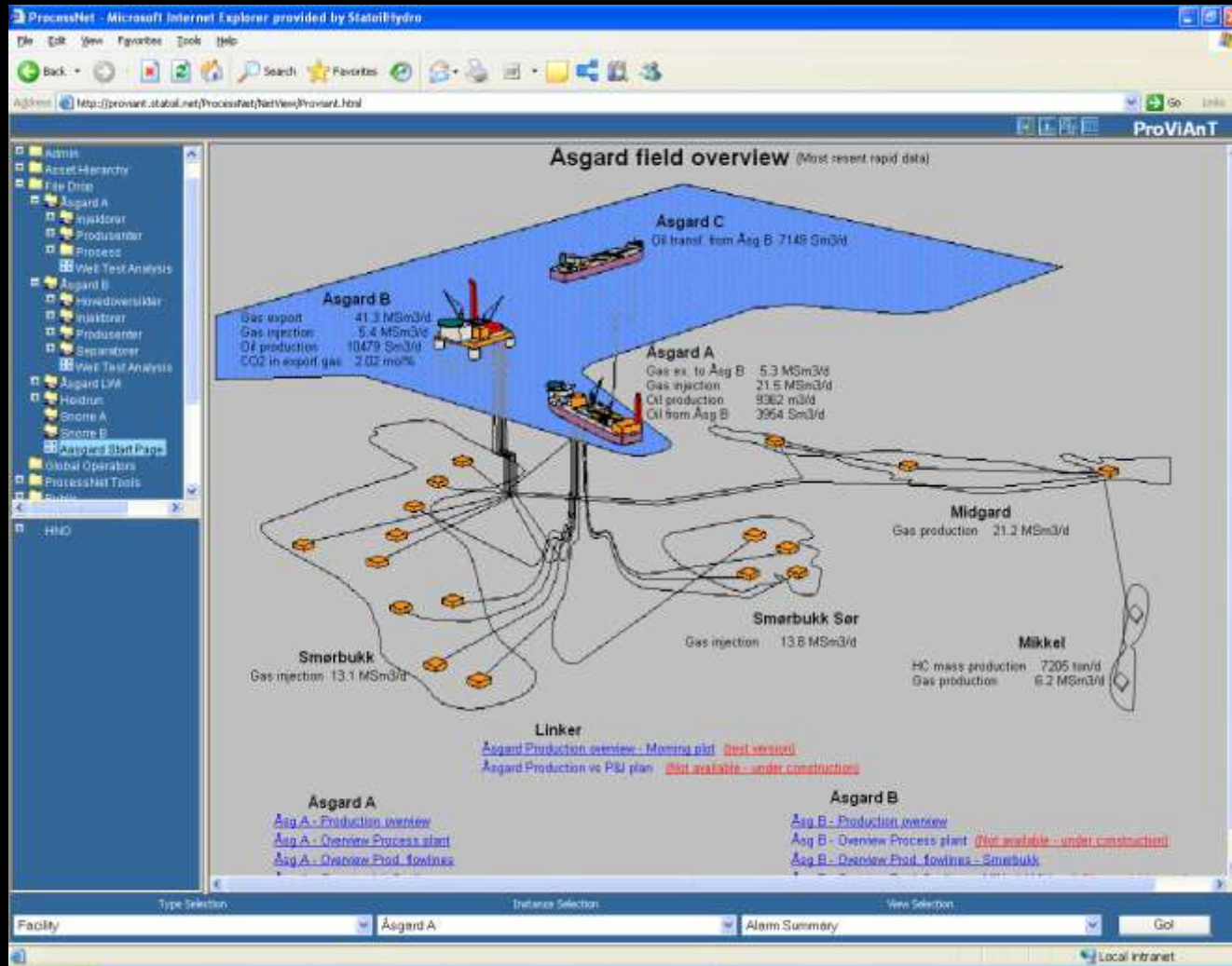
Number of large plants

Business Services

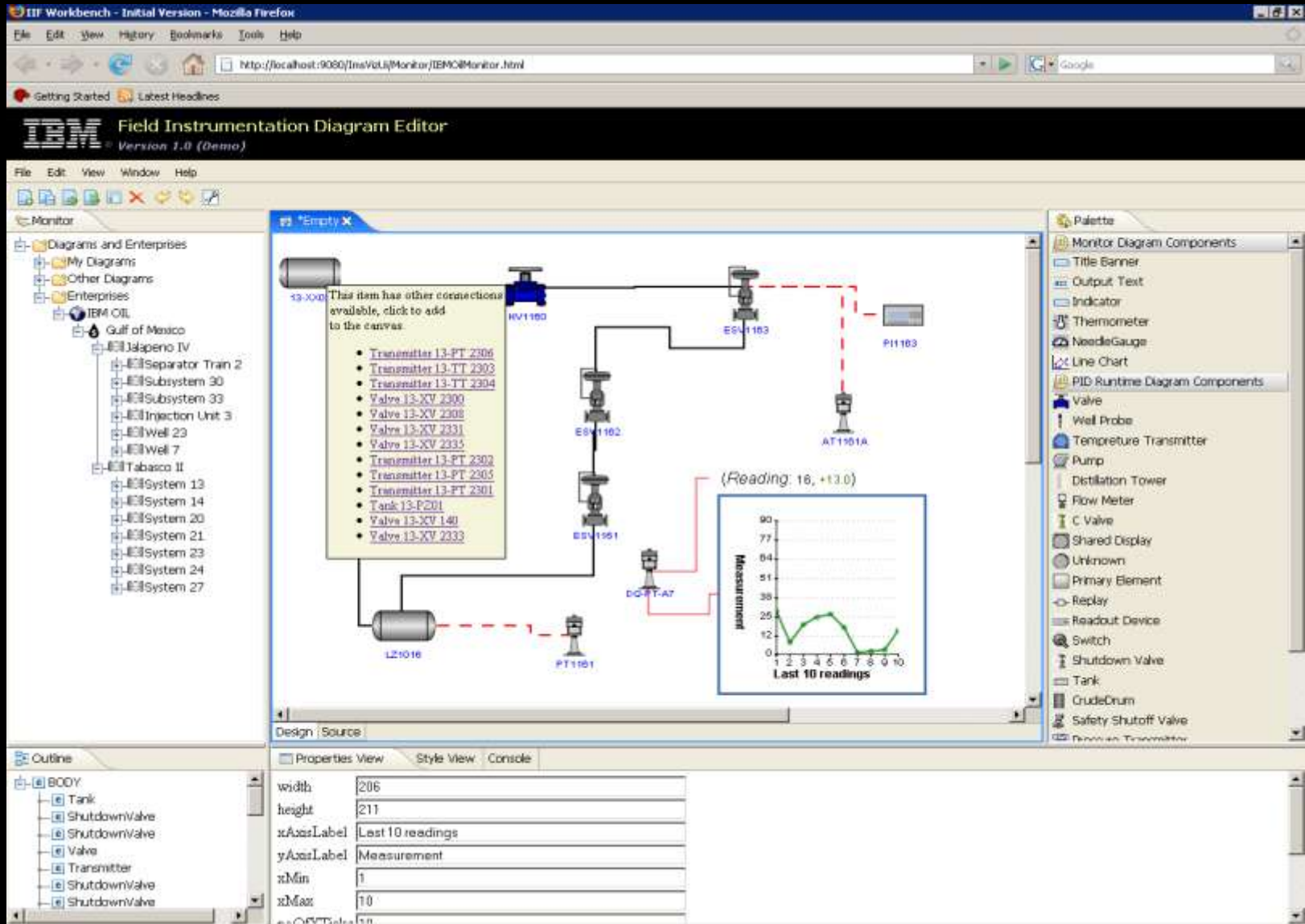
IIFconstruct

Exist apps / other svcs

Real Time Production Visualization Field Overview through IIF



Visualization of data and events across facilities through IIF

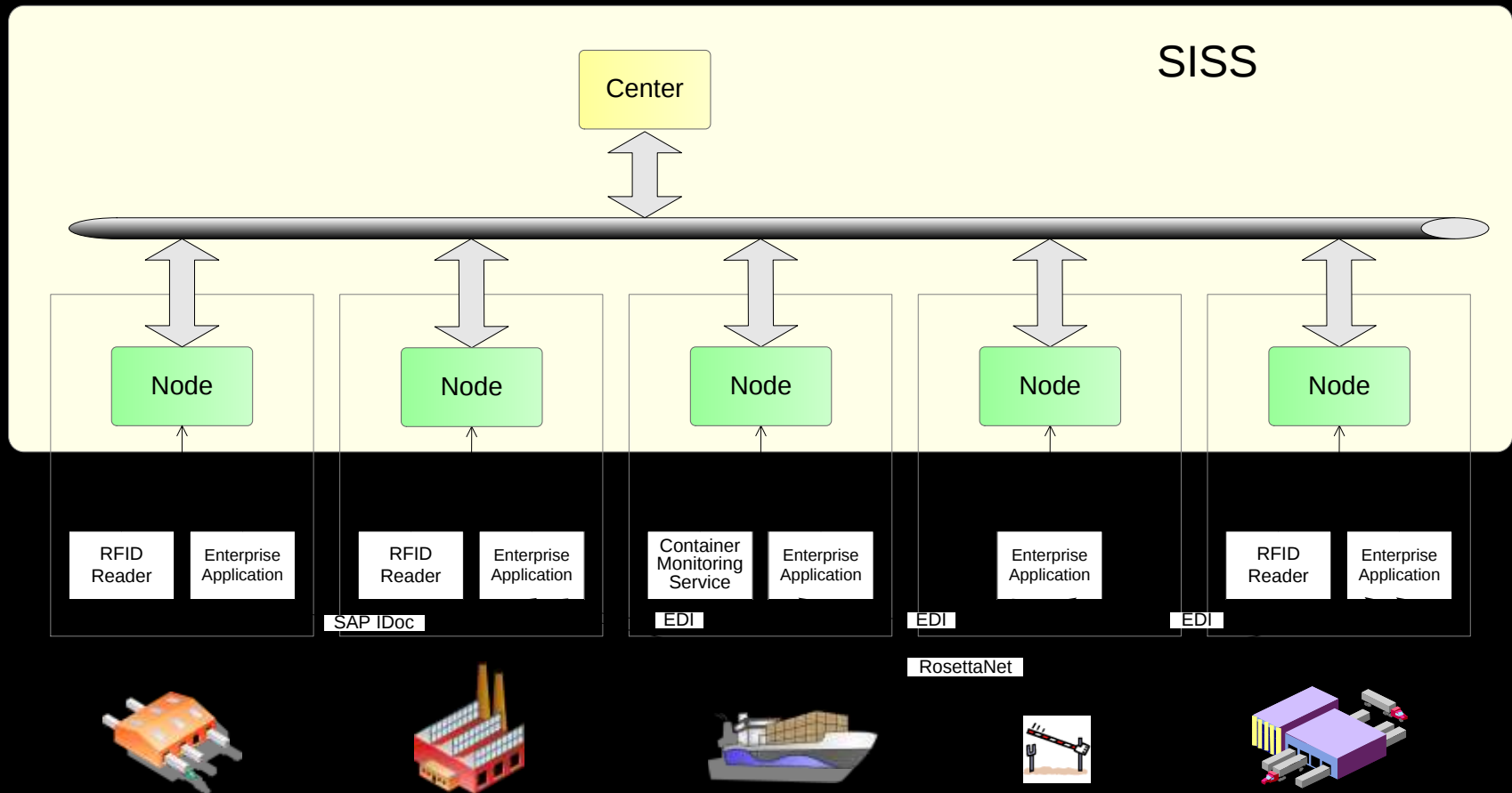




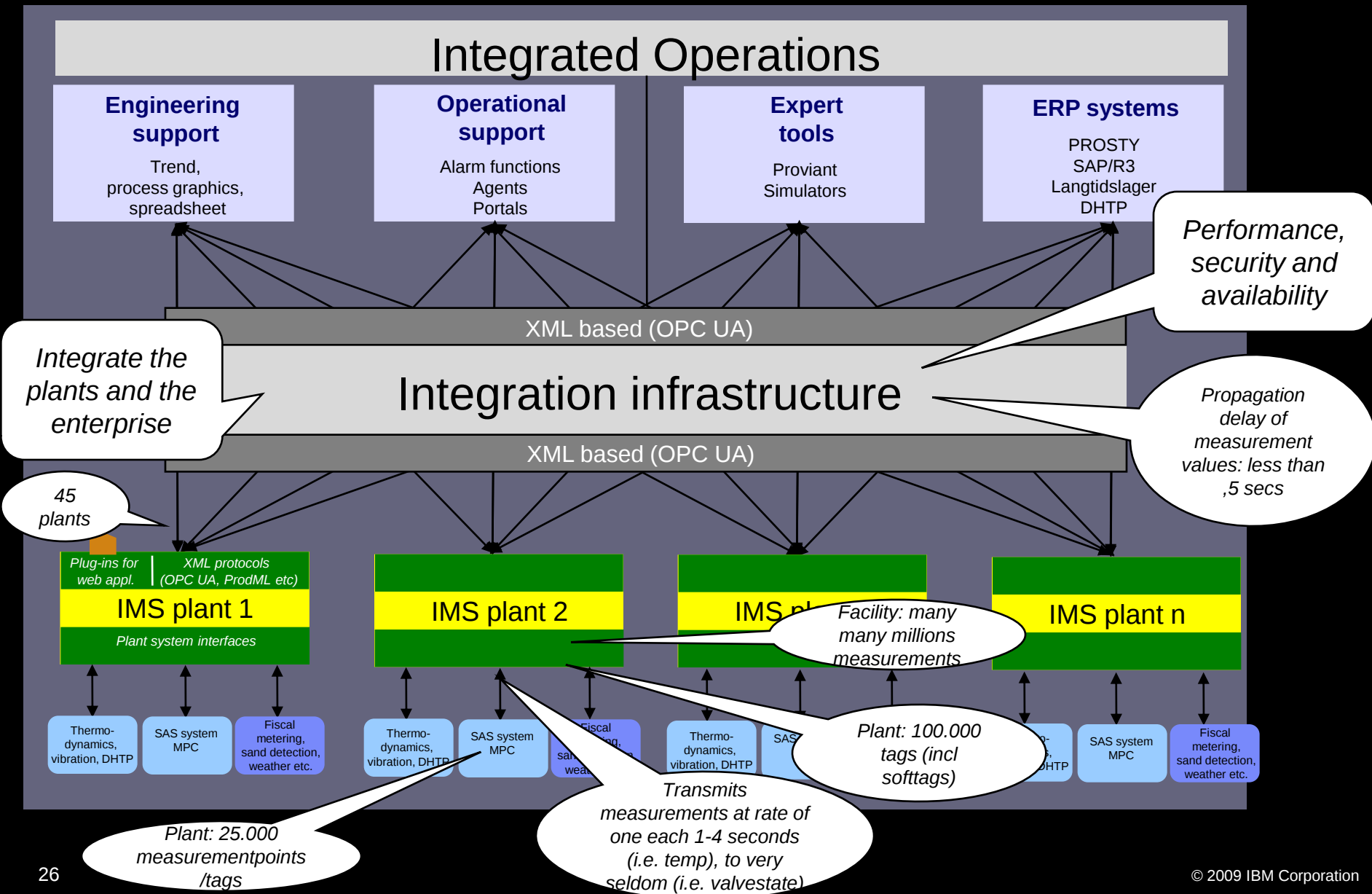
We've only just begun to uncover what is possible on a smarter planet.

The world will continue to become smaller, flatter and smarter. We are moving into the age of the globally integrated and intelligent economy, society and planet.

SISS builds a supply chain visibility layer on top of tracking infrastructure and existing backend systems, enabling information exchange on-demand.



Integration infrastructure for real time data



How it is connected

