Kongsberg Protech Systems

Odd Ivar Hatlenes

Department Manager - Integrated Logistics Support

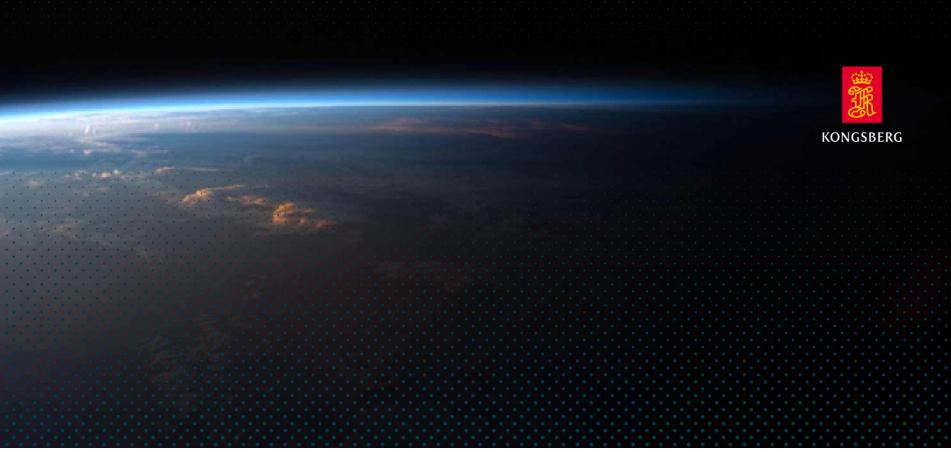


Topics to touch



- KONGSBERG Introduction
- Business Collaboration History
- BC Application (BC App)
 - Scope and information flow
- Business Benefits
- Lesson Learned

KONGSBERG







Industrial pioneer established in 1814











KONGSBERG was internationally known for its Krag-Jørgensen rifle, developed in the late 19th century, and adopted as the standard US army rifle in 1892.

KONGSBERG ha unique history and a strong culture



The KONGSBERG organization





KONGSBERG
DEFENCE SYSTEMS



KONGSBERG PROTECH SYSTEMS



KONGSBERG
OIL & GAS TECHNOLOGIES













Kongsberg Protech Systems

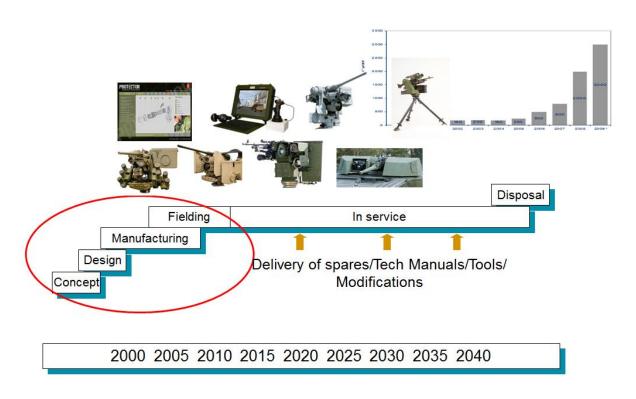
- PROTECTOR RWS Medium Caliber
- 8 offices in 4 countries
- 800 employees (approx.)
- Revenues MNOK 4 185 (2011)
- Soldier protection and survivability
- Enhanced situational awareness
- 17 countries have chosen RWS

The world's leading supplier of Remote Weapon Stations

Being the world's leading supplier of Remote Weapon Stations, also means Challenges:

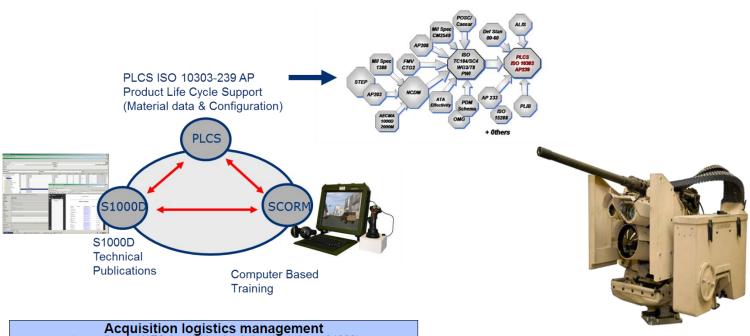


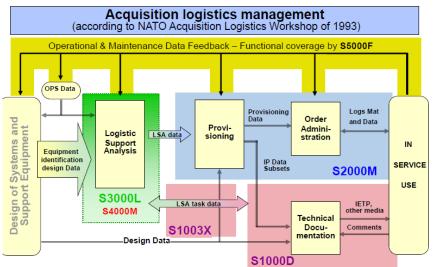
- The number of systems delivered has increased
- The product variants have increased
- The platforms to integrate the product with has increased
- Previous versions need to be upgraded
- The number of customers to relate to has increased



Environment - Integrated Logistics Support



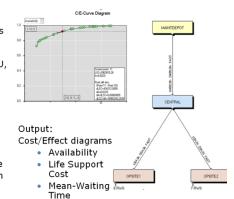




Supportability Engineering

Spares – Provisioning Using OPUS10 for spares and provisioning Input:

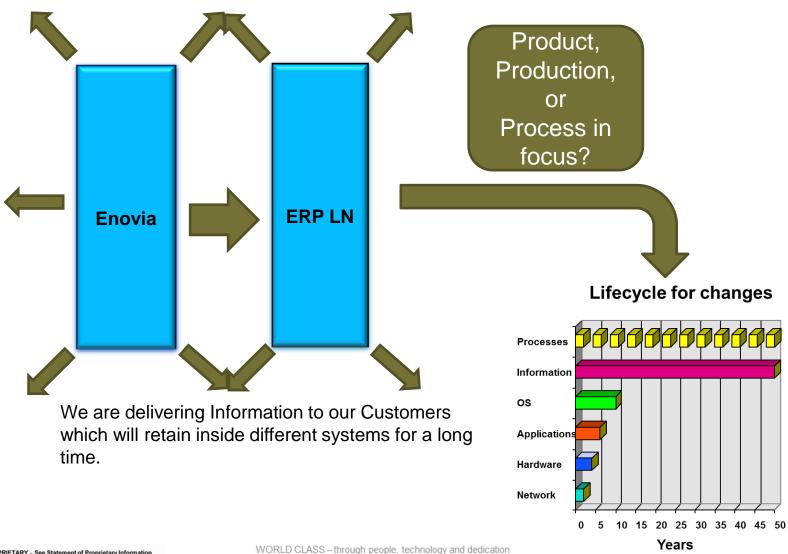
- Product baseline (LRU, SRU, DP, DU)
 Failure rate (MTRE)
- Failure rate (MTBF) and Price
- Supply Support Organization
 - Stock Policy
 - Repair Policy
 - Re-order Policy
 - Turn-Around-Time
 - System Utilization Factor



Etc

Existing Business Systems





Kongsberg Protech Systems

Business Collaboration





Business Collaboration

Short history

- 2010 Prof-of concept
- 2011 Strategy Study Business Collaboration in KPS
- 2012 Negotiation with Eurostep, Share-A-space
- 2012 Start implementation CM-application
- 2013 Business Collaboration Customer Portal



KPS Business Collaboration – Product Life Cycle Support

The main goals:

- Ensure good quality of delivered KPS CM and product data;
- Simplify the production of support data at KPS;
- Using a standard (ISO 10303-239, PLCS) for delivering KPS Norway support data to customers and others.

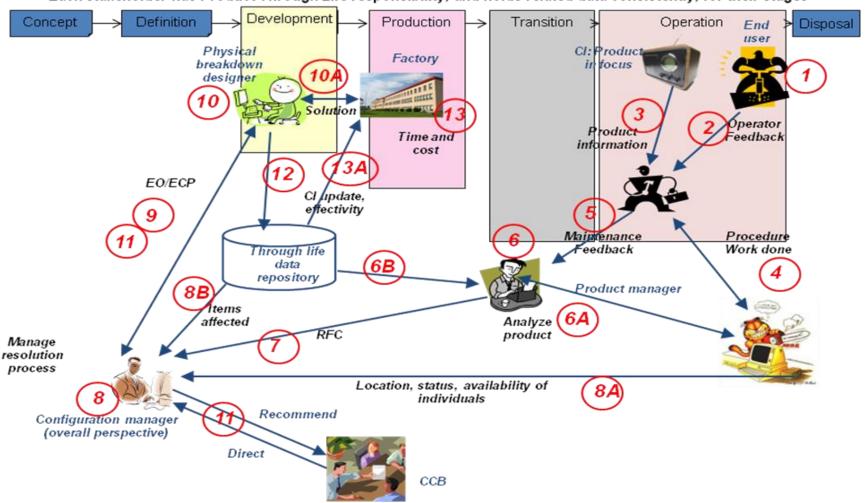
Includes the following tasks:

- Conversion and integration of product data from KPS systems (PDM/ERP) to PLCS;
- Automated report documenting the CM data
- Use of a PLCS end-user application

KONGSBERG

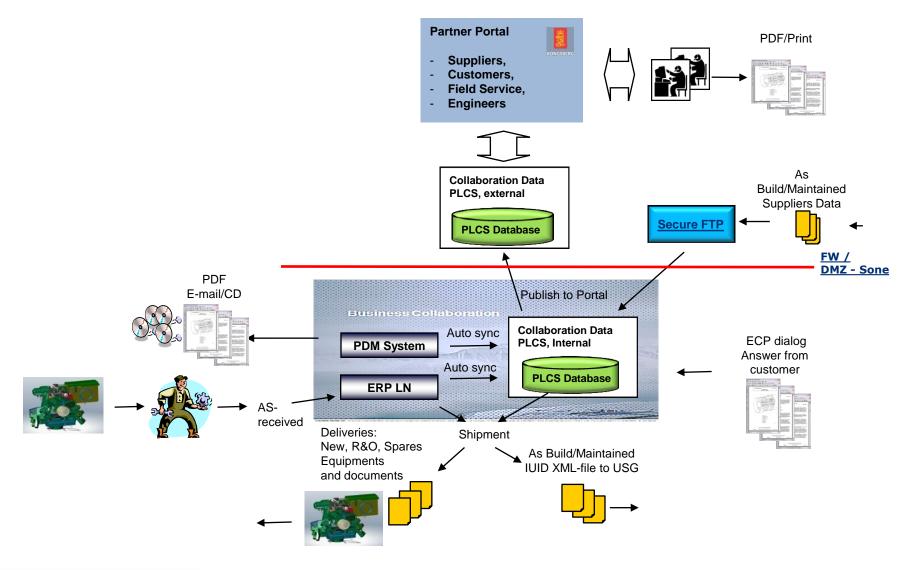
KPS Business Collaboration – Configuration Management

Each stakeholder has Product Through Life responsibility, and holds related data consistently, for their stages



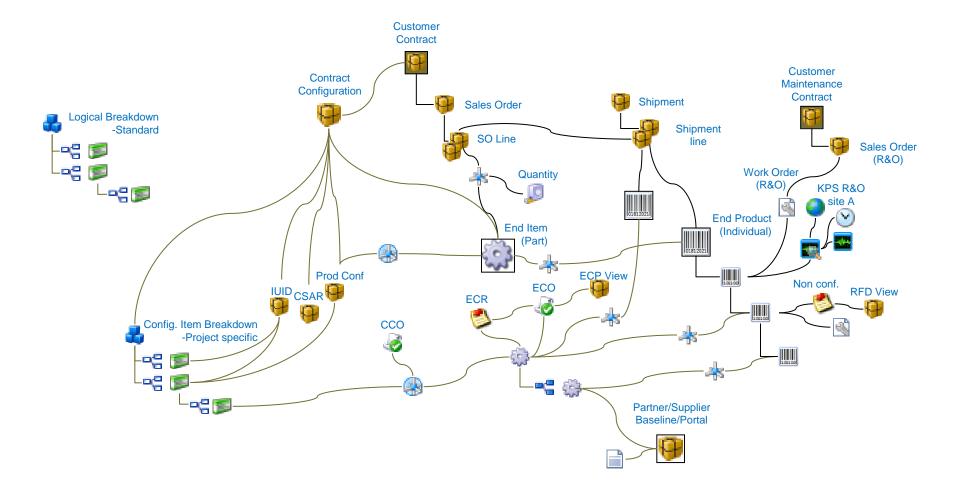
Business Collaboration - Scope and information flow





Business Collaboration - Information consolidated in PLCS format

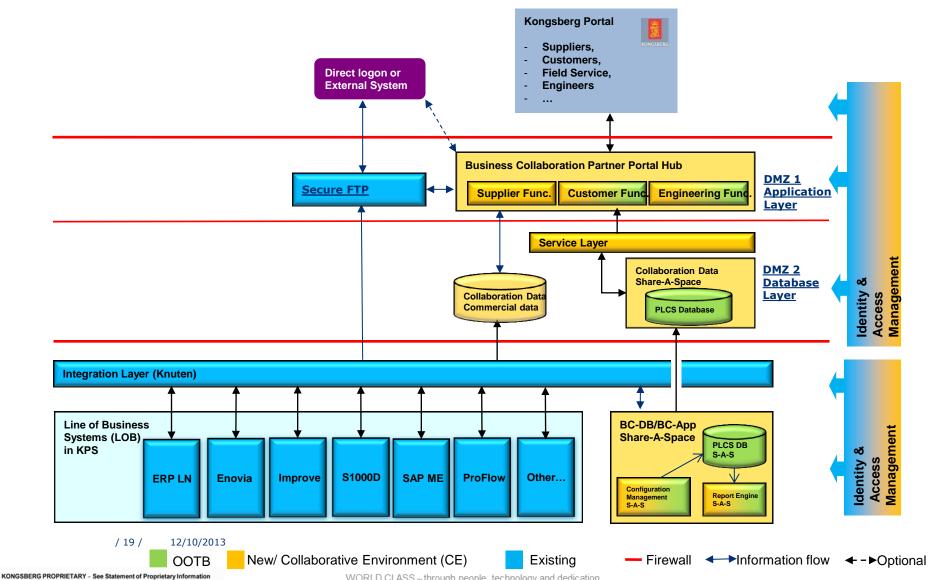




Business Collaboration – Vision



Implementation in steps

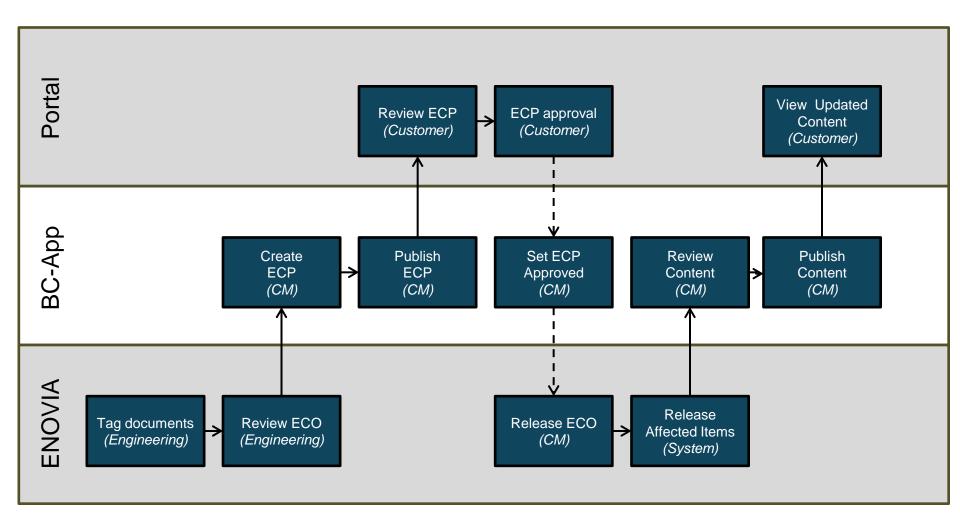


BC Application (BC App)





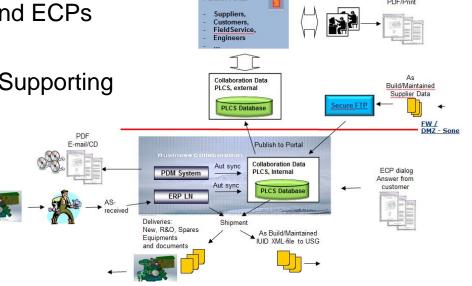
Main Flow





BC-App

- Integration between ERP LN and Collaboration DB
- Integration between Enovia and Collaboration DB
- CM functionality
 - ECR
 - Affected Parts and documents, Attachments, link to ECOs
 - ECO
 - Affected Items, link to ECRs and ECPs
 - ECP
 - ECOs, ECRs, Affected Items, Supporting documents, history
 - Supplier Baseline



Partner Portal

Business Benefits

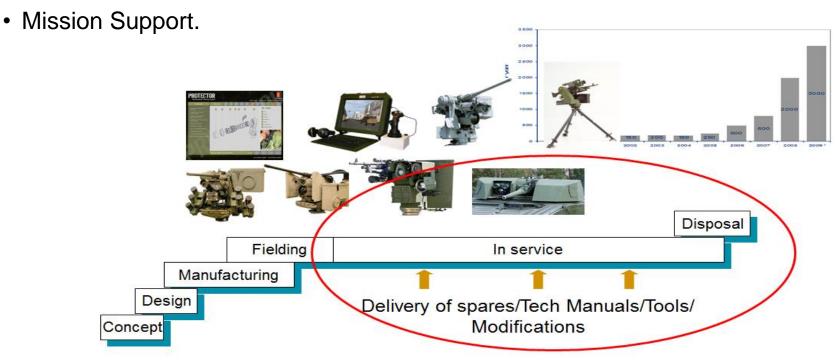




Business Benefits

Will Grow!

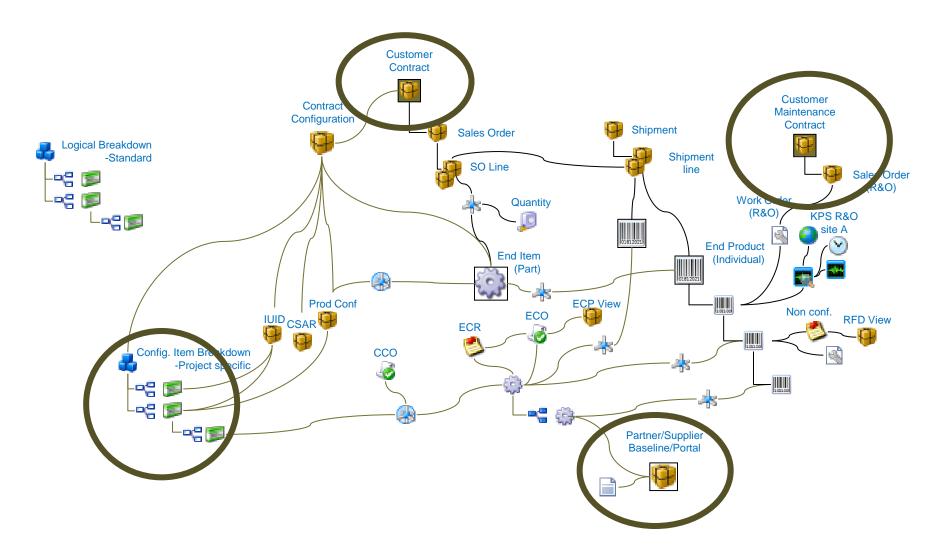
- Change management/Status accounting.
- Performance Based Agreements



2000 2005 2010 2015 2020 2025 2030 2035 2040



Business Benefits



KONGSBERG

Business Benefits

Partner/Suppliers Baseline/Portal Information Scope

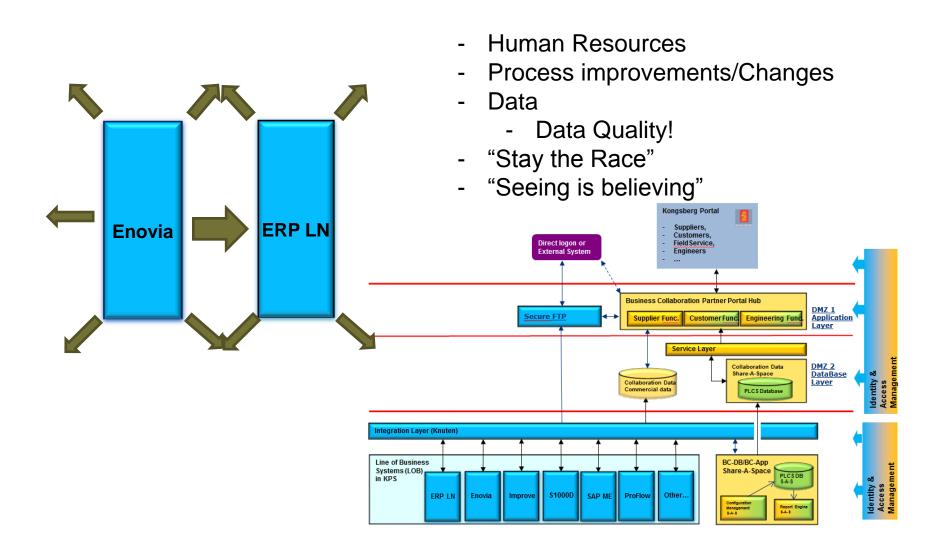
- The information published to the Partner/Supplier Portal should be similar to what is currently contained in Technical Data Packages extracted from Enovia:
 - All Parts with BOM
 - Key characteristics (attributes, status etc.)
 - "Part Specification" documents
 - "Reference Document"
 - "Product Process"
- The Portal will not contain
 - ITAR restricted info
 - SW
 - Complete set of native files

Lesson Learned



Lesson Learned





Questions?

