

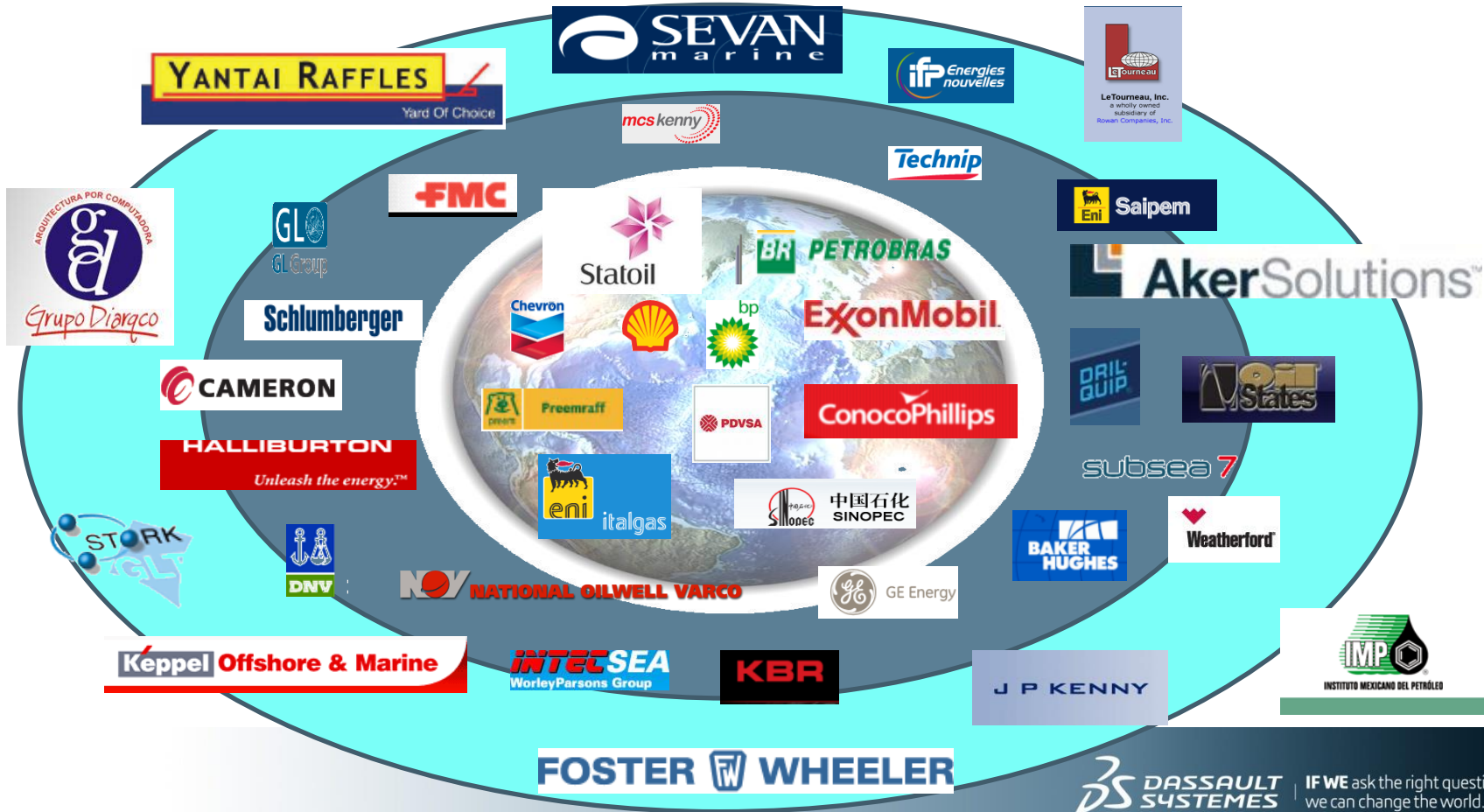
**3DEXPERIENCE**

*Taking offshore engineering  
design to the next level*

Harald Gunnerød  
Business Development Executive  
Oil and Gas



# DS in Oil & Gas Industry (OO/EPC/EQT/R&D)



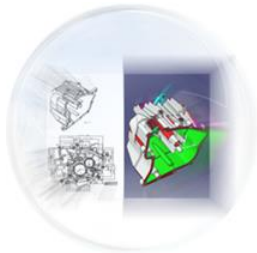
# Our 3DEXPERIENCE Platform

A powerful set of solutions  
for the oil and gas  
industry



# Progress of design

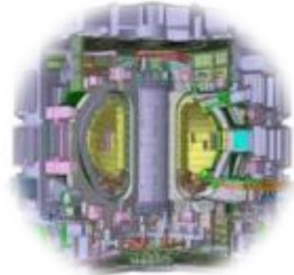
## 3D Design



CAD

1980's

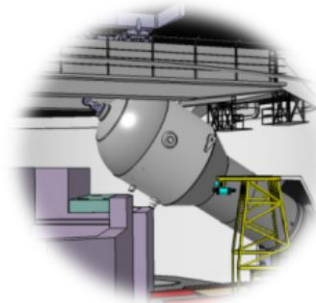
## Digital Mockup



CAD/PDM

1990's

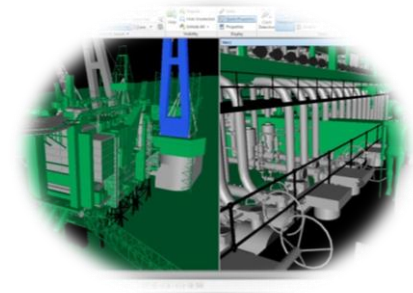
## Product/Project Lifecycle Mgmt



PLM/LCI

2000's

A working model  
connected to all data



3DEXPERIENCE

2010's

# Design tools/CAD – Two schools of thought

## 3D CAD

Machinery, planes, cars, buildings



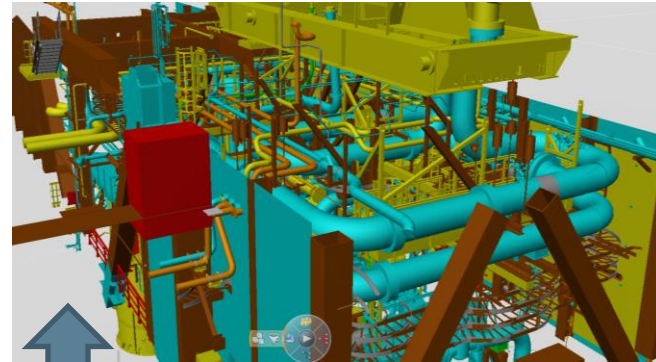
File based



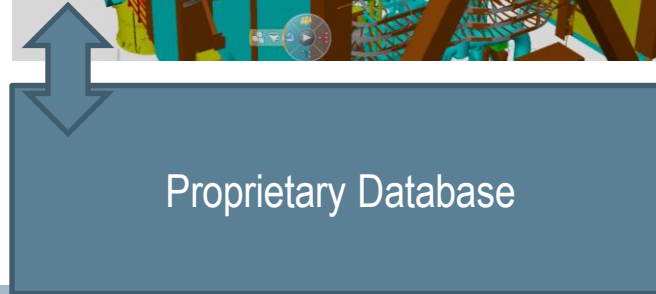
Production Drawings  
BOM

## 3D Plant design

Production Plants, Refinery, Oil Platforms



P&ID ?



Proprietary Database

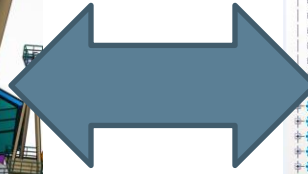
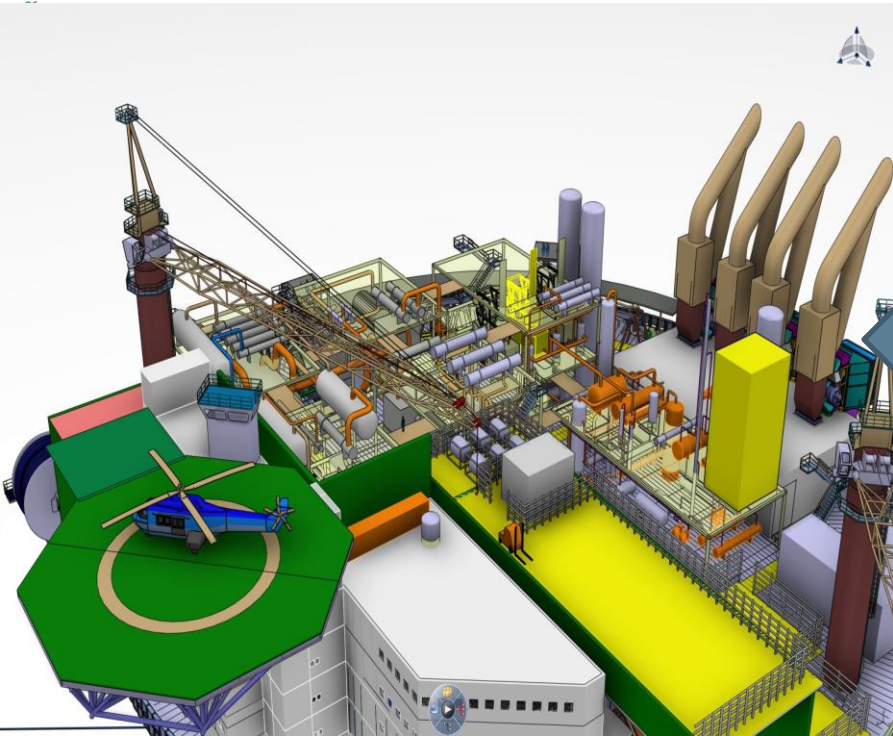
ISO  
MTO  
Spec Sh.



# Future Plant Design

Advanced 3D Design – Easy to use

Open and connected database



The screenshot displays the EPC software interface. The top window shows a 3D model view of a '35 - Gas Precompression rev A: PowerView'. Below this, a table lists plant items with columns for Item ID, Revision, Description, Classification, GBS, and Status.

Plant Items	Revision	Description	Classification	GBS	Status
35-CX101D_3507	A	35-CX101D_350724	2D Equipment		A1
35-KA101D	A		2D Equipment	FileSite	A1
35-VG101D	A		2D Equipment	FileSite	A1
PS-8301-1	A		Piping	FileSite	A1

The bottom window shows a dashboard with several charts and tables:

- Metrics:** 22 Issue(s) with a pie chart showing 4% Active, 19% Assign, 5% Create, and 18% Review.
- Requirements:** 9 Requirement(s) with a pie chart showing 50% Validate, 11% Approve, 11% Release, 11% Propose, and 11% Review.
- Change Requests:** 101 Change Request(s) with a pie chart showing 91% Review, 1% Evaluate, 5% Submit, 1% Withdraw, 1% Improvement, and 1% Approved.
- Business Items:** 0 Business Item(s) with a pie chart showing 0% Approved, 0% Review, 0% Release, 0% Reconsider, and 0% Release.

# The 3D Experience

– A working digital model connected to information

Requirements

Procurement  
(SAP)

Analysis

One source of  
Lifecycle  
information

Project Execution

Documents

Safety

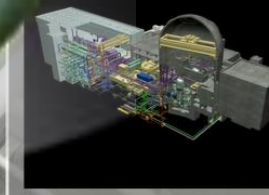
Drawings/P&ID

Process data



3D

V+R





# Analysis Software

