

Database Futures Workshop 6-7 June 2011

Engineering Requirements GS/ASE

- EDMS

- Several integrated Oracle DBs

- Around 65 Gb

- Mostly based on commercial tools

- 1.2 million documents

- 1.5 million files – 925 Gb (not in DB)

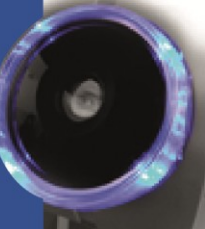
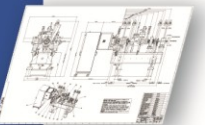
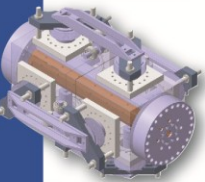
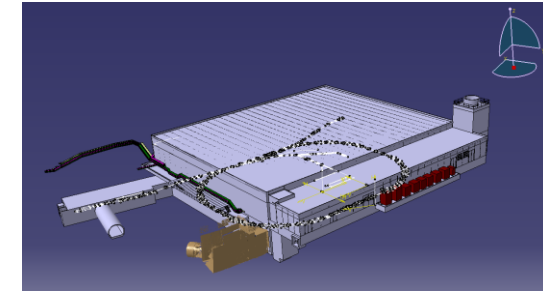
- 9'750 registered users; 4'000 active in 2011

- CMMS

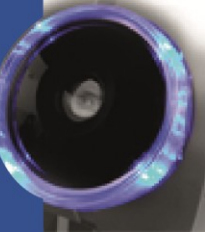
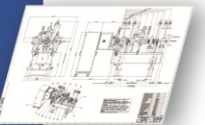
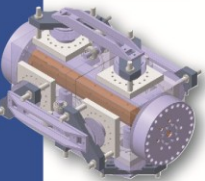
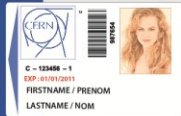
- Computerized Maintenance Management

- 680'000 assets

- 3.3 million work orders



- TIM
 - Technical Infrastructure Monitoring
 - Linked to the CERN Operation
 - 35 Gb
 - 90'000 monitoring points
 - 37'000 alarms
 - 2 million updates/day in the database



- Access Control Systems

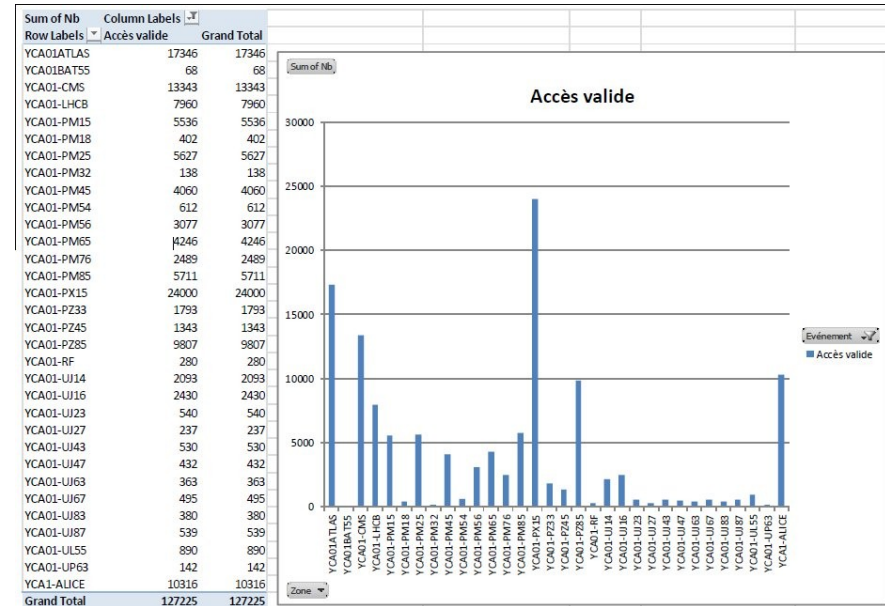
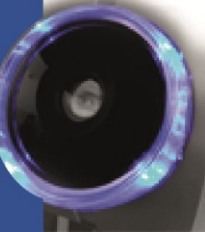
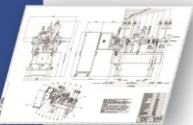
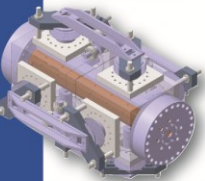
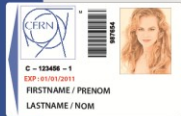
- Site Access

- PS, SPS, LHC Access

- Linked to beam operations

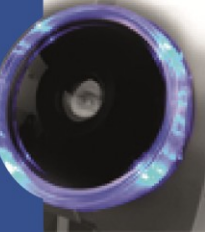
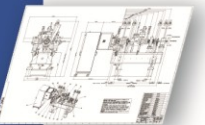
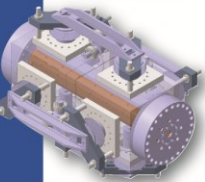
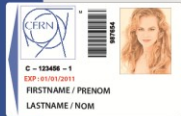
- Site and LHC Access Control Systems on Oracle

- 27 Gb

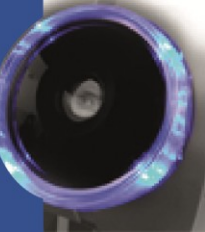
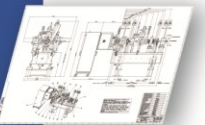
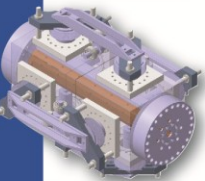


- EDMS, CMMS

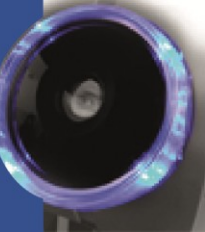
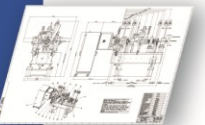
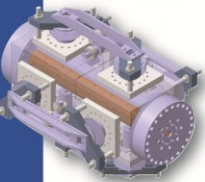
- Availability 24/24 365 days (no Xmas shutdown)
- A few hours of downtime however acceptable
- Dependency on the configurations certified by the applications suppliers
 - Sometimes unrealistic
- We are on the « General Purpose » instance
 - Not really a problem

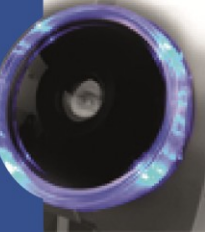
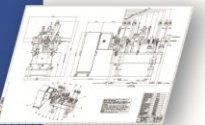
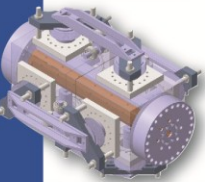


- TIM, Access Control
 - Availability 24/24 365 days
 - A few hours of downtime however acceptable
 - But strongly linked to the operation of the machines
 - This especially concerns major upgrades
 - Such as migration to 11g



- Special case for new systems around the Site Access
 - Key distributors, electronic locks, car sharing, car plate readers, restaurant cards
 - Most of the suppliers are working with MS SQL Server
 - Our 1st choice is to work with the Oracle version
 - We are sometimes forced to work with SQL Server
 - Lack of proper interfaces (Web services)
 - Even if limited to the minimum, gateways between oracle and SQL Server are required.
 - SQL Server Support in IT ?





Thank you for your attention !

Questions ?