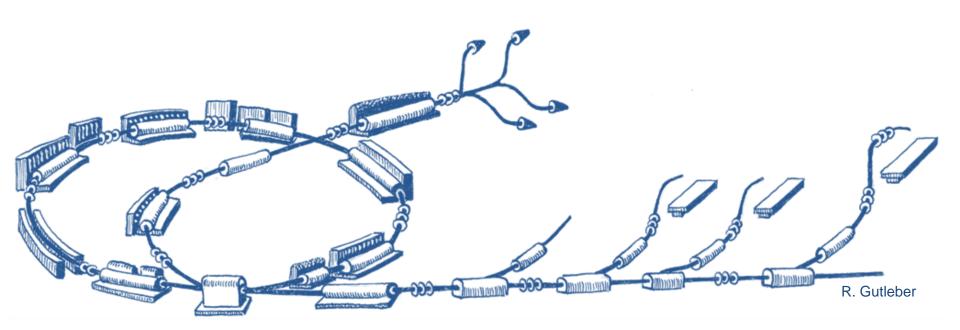


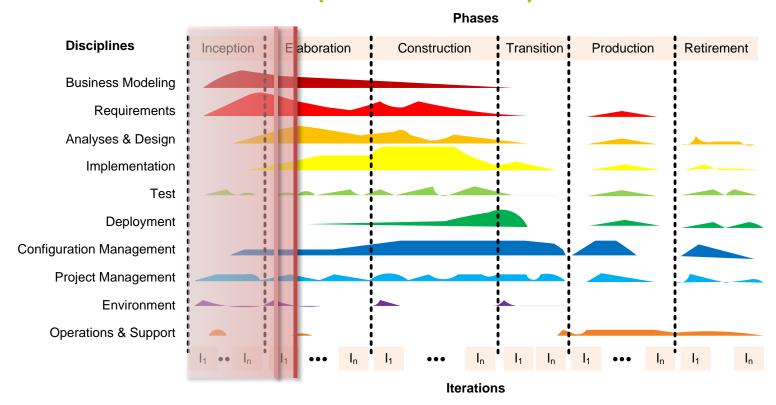
WP CO

Column Status and Progress
October 7th, 2010
Johannes Gutleber





Current Phase (Elaboration)



- Focus on requirements, architecture, design
- Prototype implementation and technology evaluation
- Prepare development setup



Goals for 2010 (Reminder)

- Complete architecture and implementing first components
- Complete and MTS design and demo core functionality
- Complete PCC design and demo core functionality
- Make PCO FED ready for production
- Elaborate ProShell design and API skeleton
- Demonstrate use of RMS, database filler, PVSS filler
- Have development infrastructure (HW, SW) operational

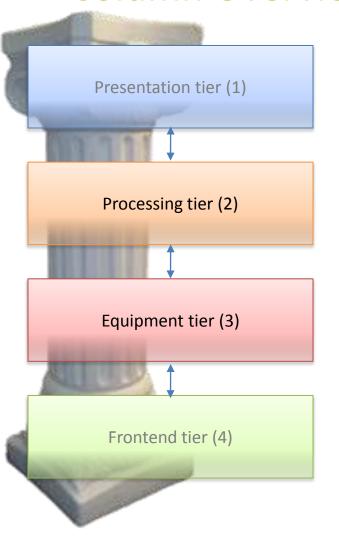




MACS COLUMN 2010



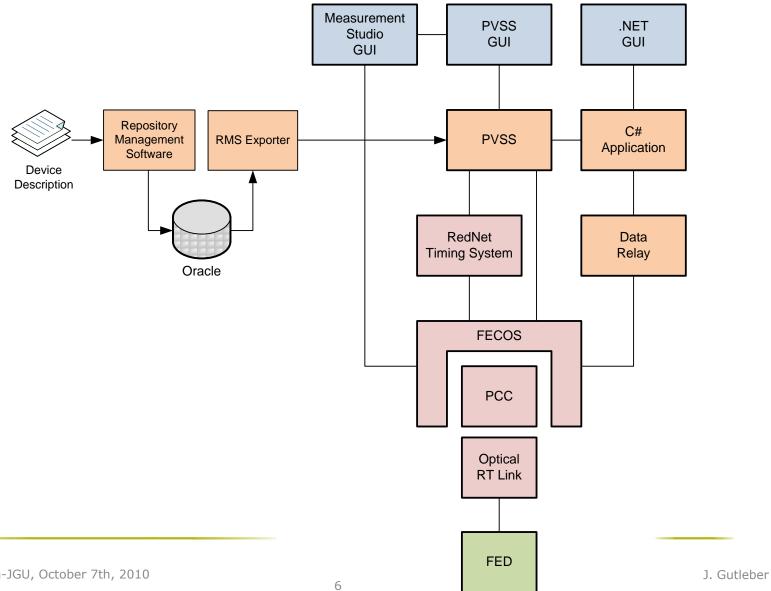
Column Overview



- Functional vertical cut through the control system architecture for
 - confirming technology choices
 - Refining the design
 - Improving project cost/time estimate
 - Providing users with a working infrastructure skeleton
- To be replicated for each subsystem
- Leads to a scalable system
 - In terms of performance
 - In terms of management

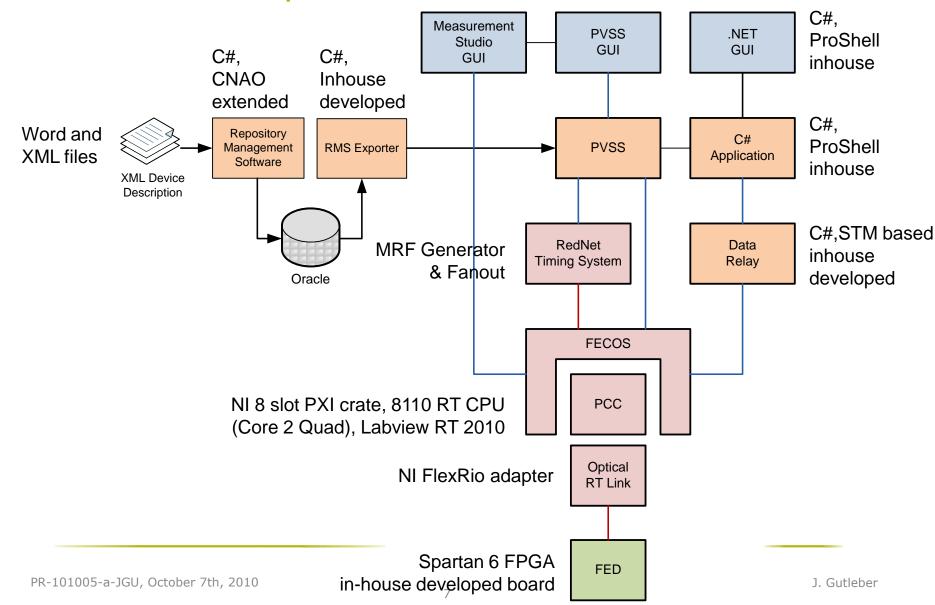


Column Scope





Column Scope





STATUS REPORT



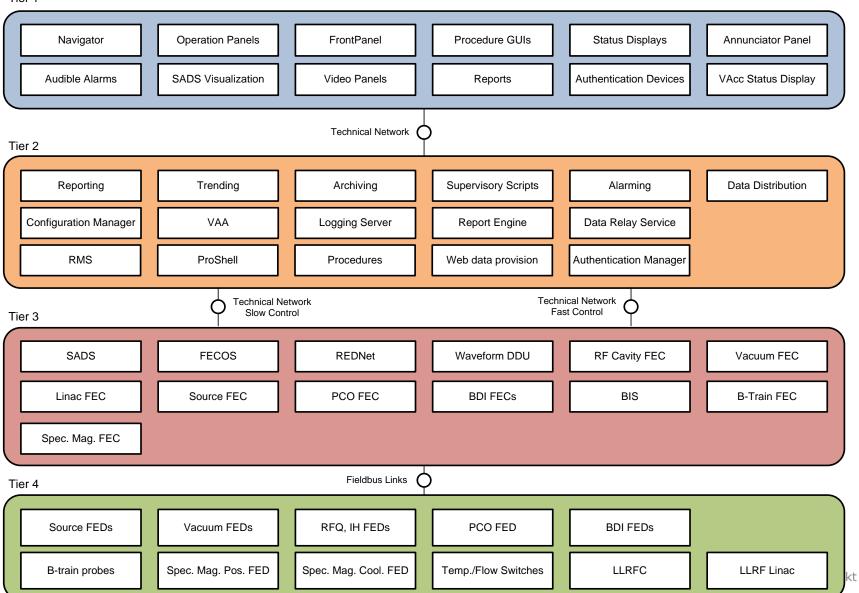


Plan Adaptations

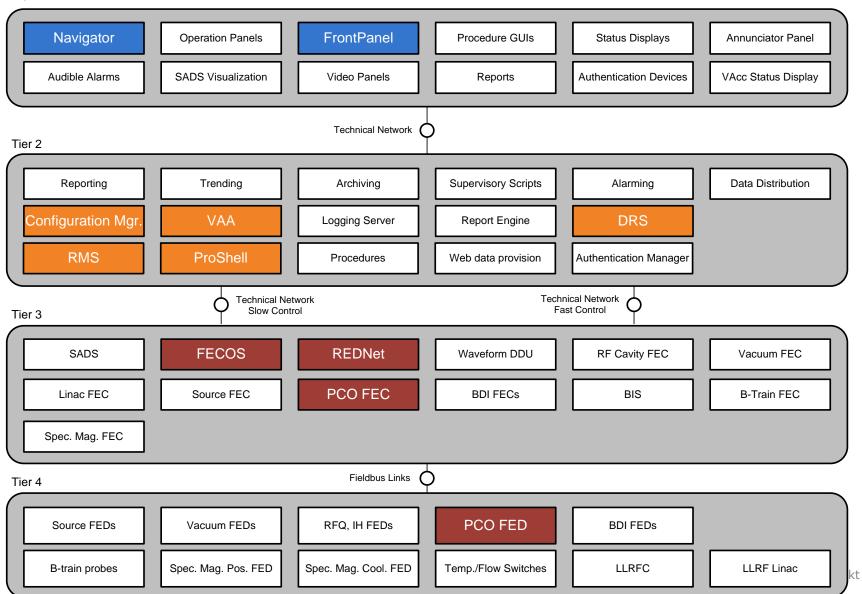
- Provide FECOS earlier than foreseen (January 2011)
 - Beam Diagnostics and Instrumentation
 - Suppliers to implement with FECs with the framework
- SADS postponed
 - lack of manpower
- ProShell
 - Provide showcase earlier than foreseen (January 2011)
 - ProShell design slowed down due to lack of manpower
- Beam Interlock System technology evaluation
 - slowed down due to lack of manpower



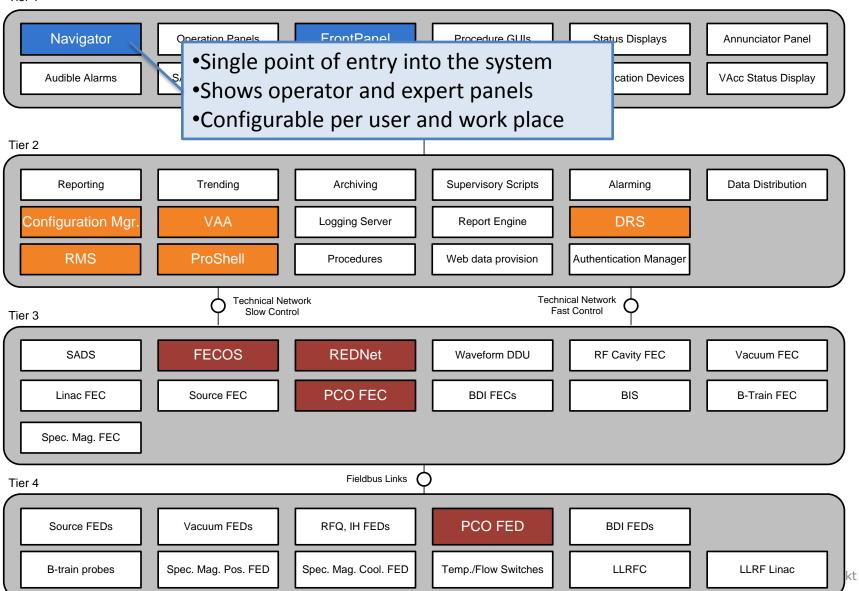
Architecture Overview



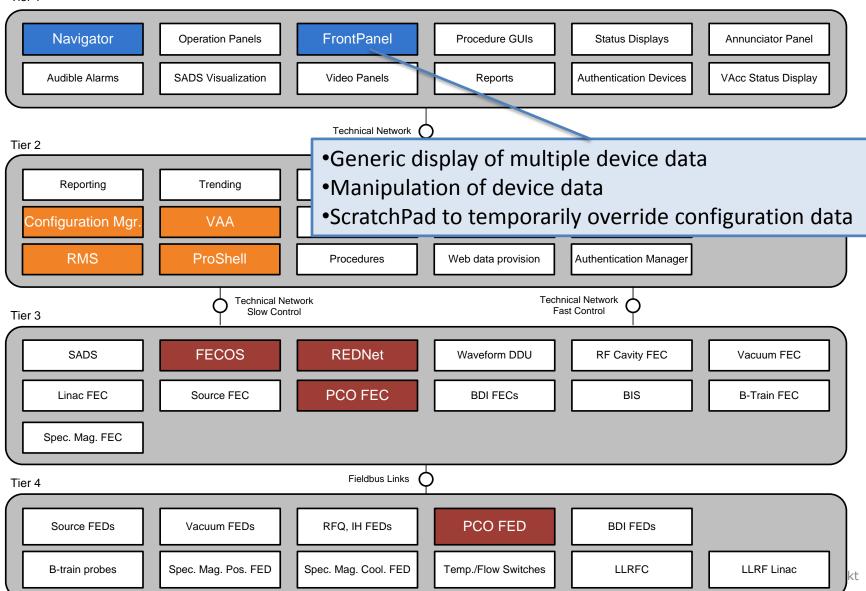




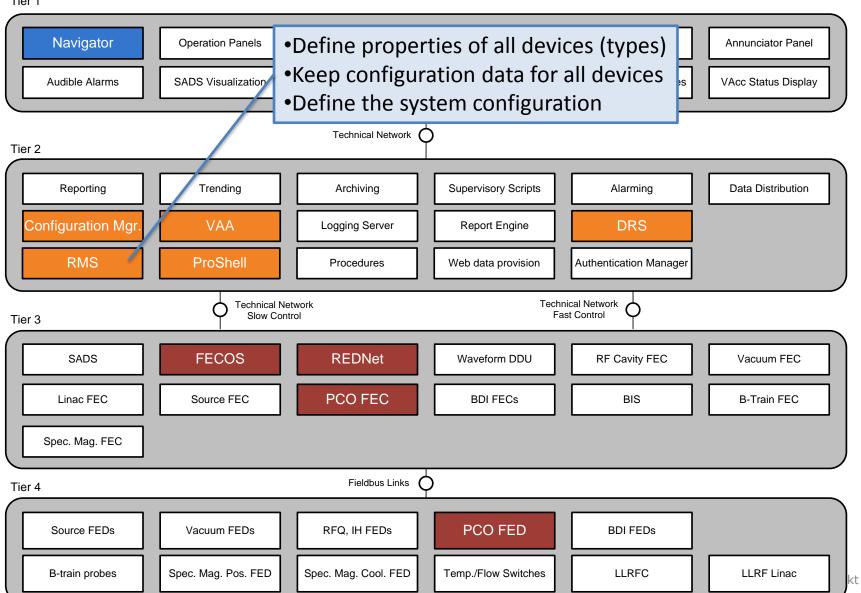




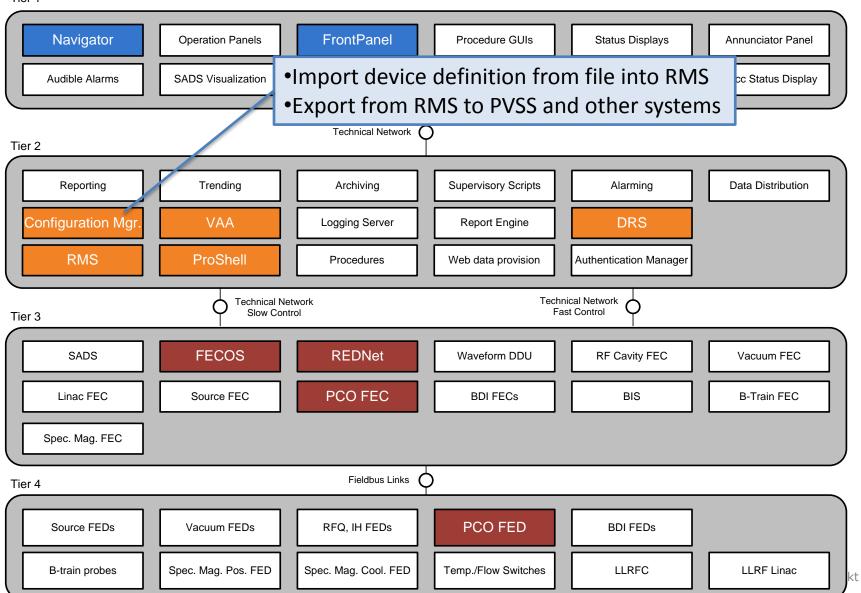




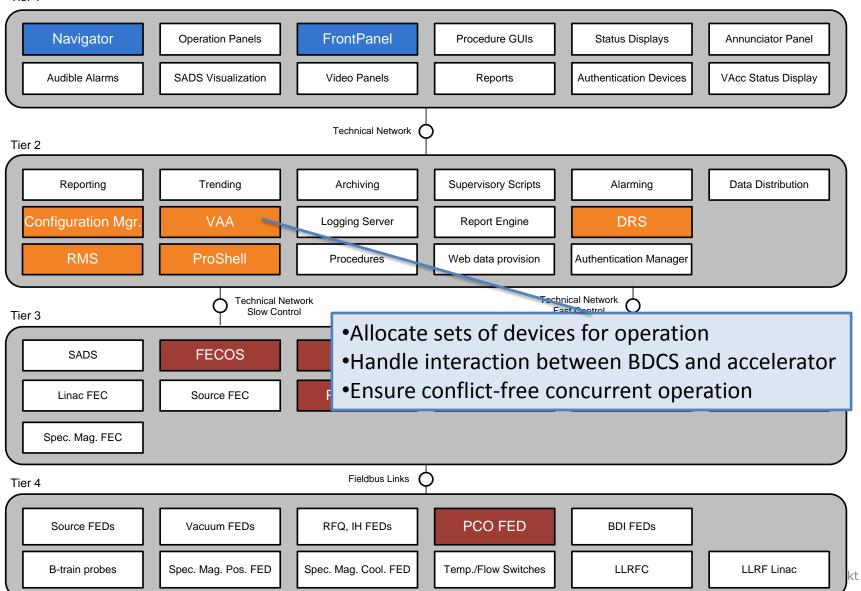




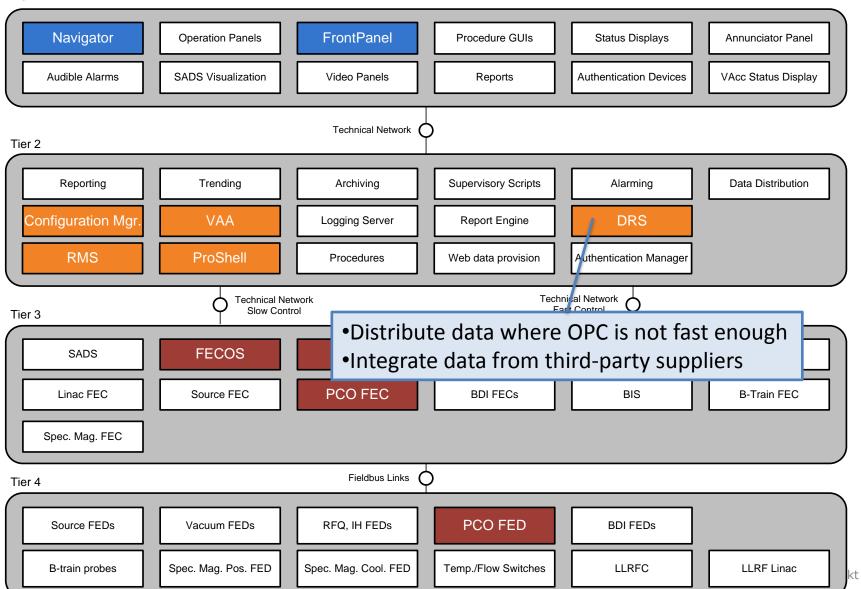




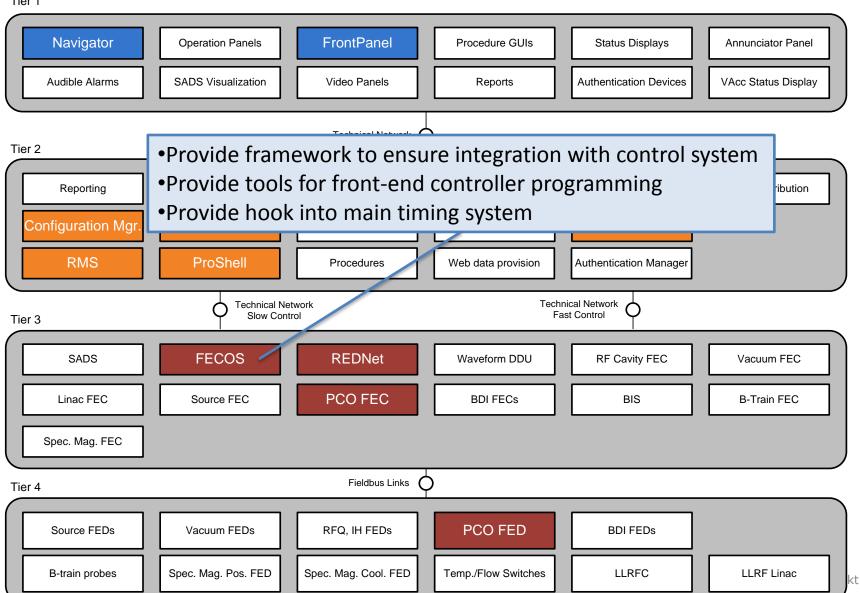




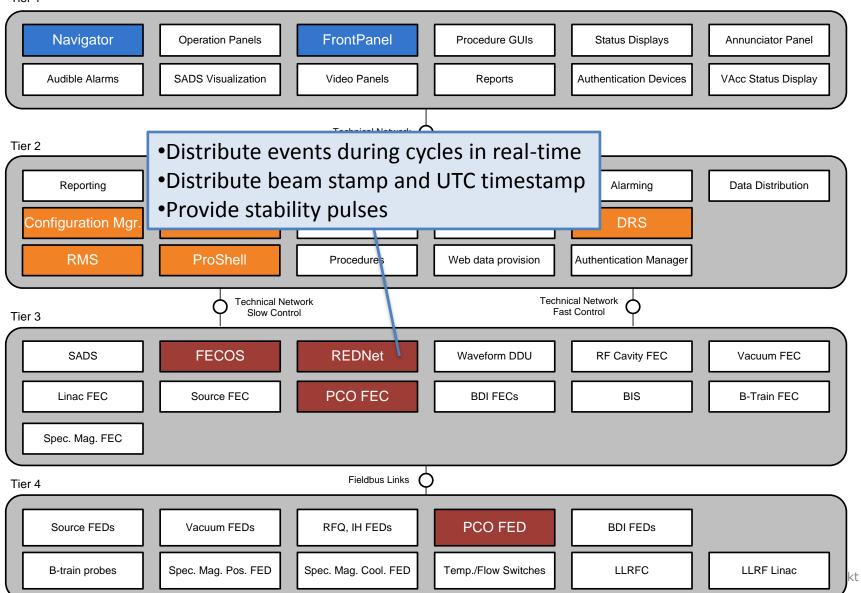




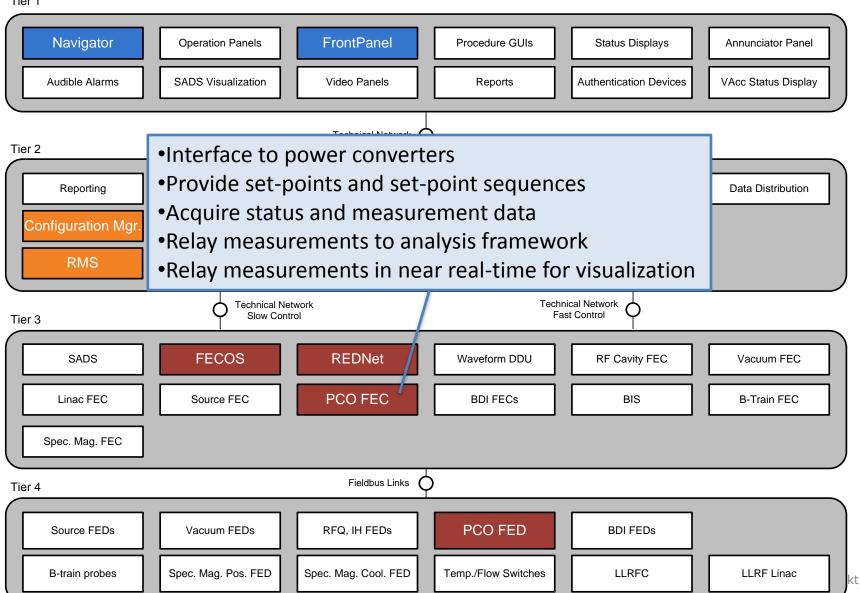




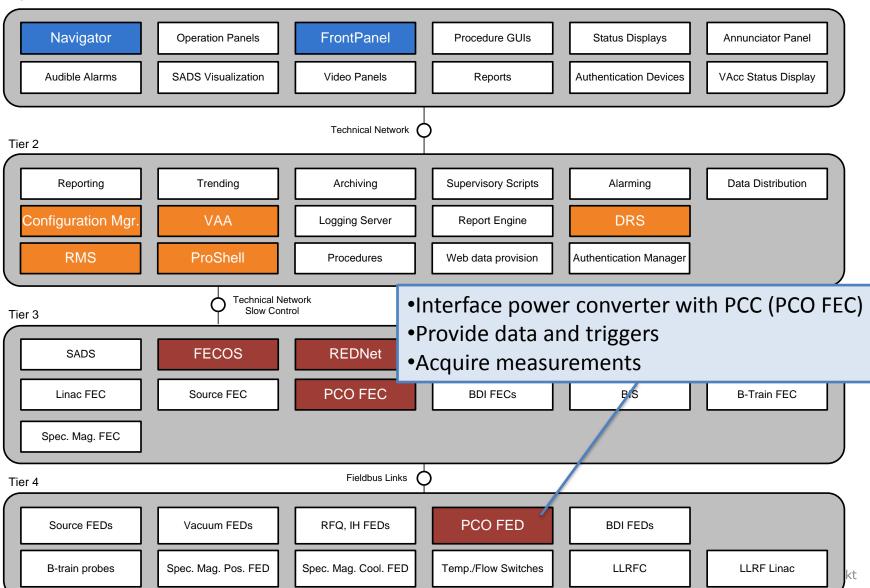






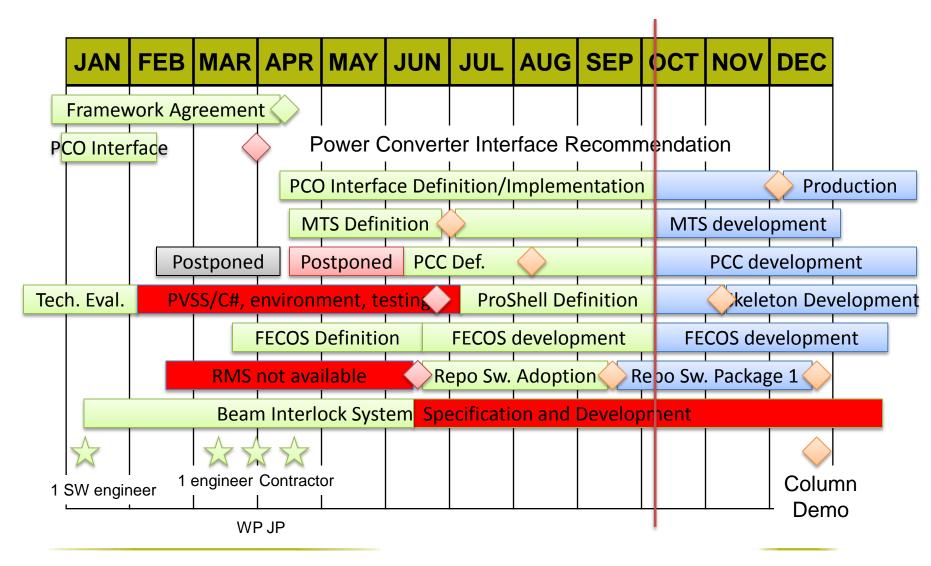








Column Time Frame 2010









- Ahead of Time
 - FECOS development and documentation
- In Time
 - Main Timing System
 - Power Converter Controller
 - Power Converter Controller real-time link
 - ProShell development
- Behind Schedule
 - Beam Interlock System
 - Using RMS (database entry, integration of GUI in PVSS)
 - ProShell design



- Presentations should clarify where we are
 - Identify showstoppers
 - Where do we lag behind
 - Where are we in time
 - Where are we doing well!
- Identify synchronization points with other WPs
 - What are WP plans
 - Where do they stand
 - Need to elaborate common schedule