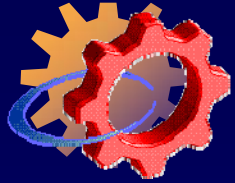


Very Forward Detectors

Workshop on beam position
monitoring and detector alignment



FP420 BPM workshop Scope

☀ **Scope:**

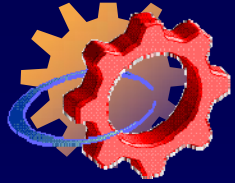
- assess adequate technology for FP420 requirements

☀ **Criteria:**

- accuracy, resolution, acquisition speed (b-b)
- Concept of alignment monitoring and detector positioning
- Development time/cost

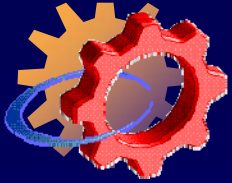
☀ **Resources:**

- i.e. available experts for mechanical layout, integration, electronics

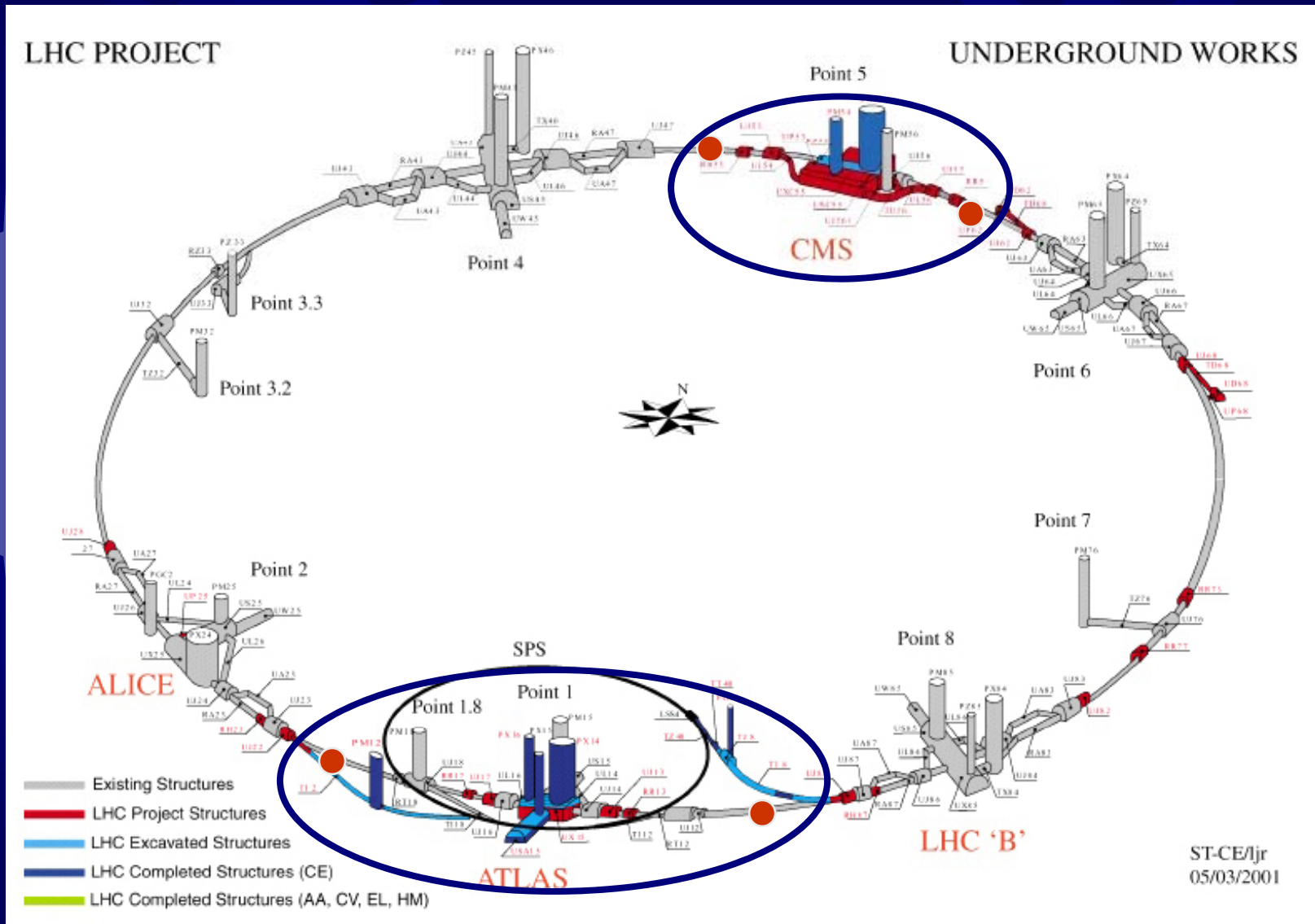


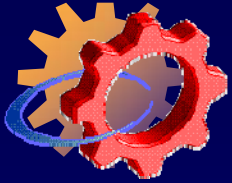
Workshop structure

- ✦ FP 420 Requirements
 - Alignment requirements
 - detector Alignment
 - moving beam pipe
- ✦ Alignment strategies of other movable LHC detectors
 - FP 220 Alignment requirements
 - TOTEM Alignment
 - LHCb-VELO
- ✦ Beam Position Monitors
 - BPM design
 - Signal Processing for BPMs
 - DESY experience with BPMs and moving beampipes
- ✦ Discussion and conclusions

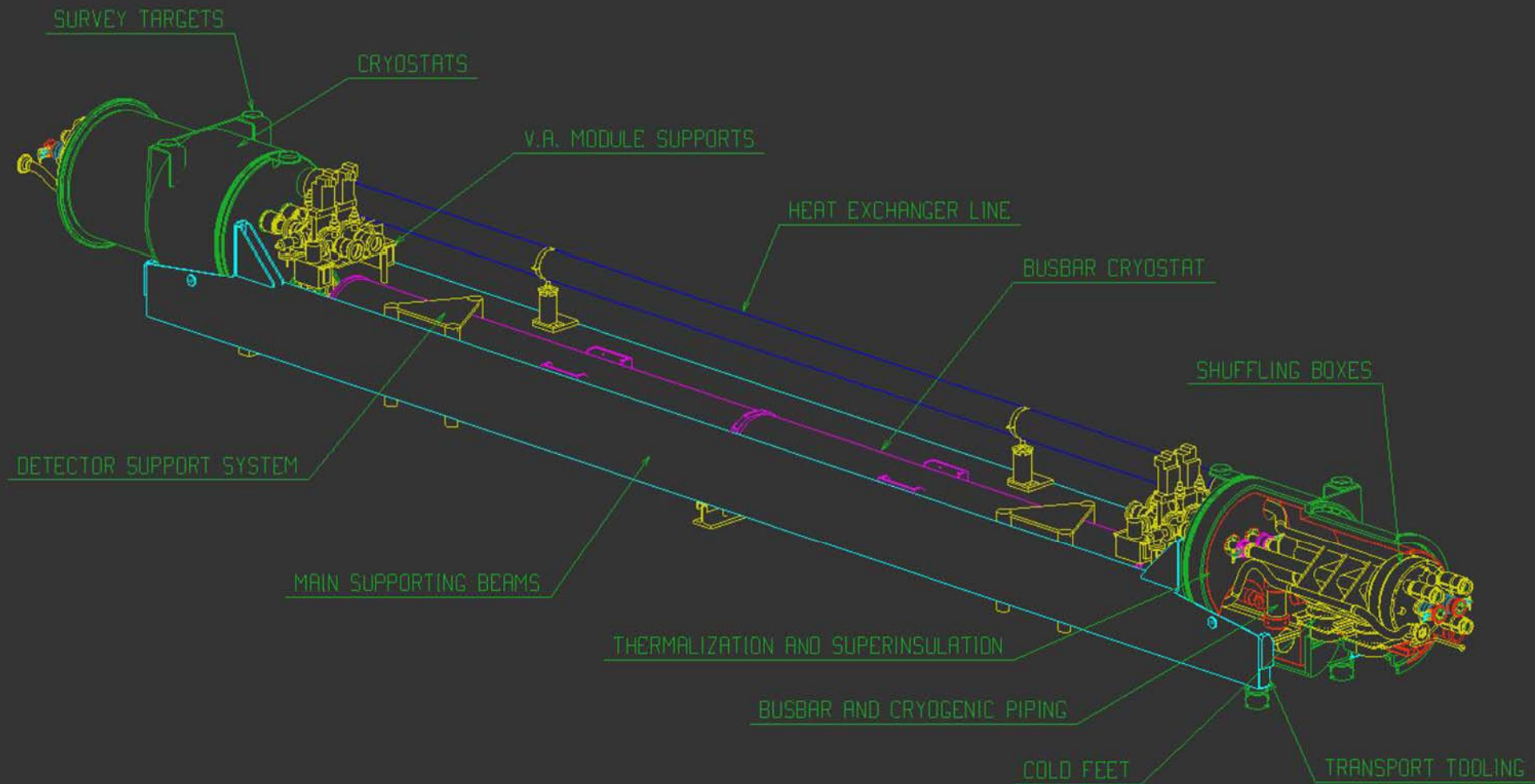


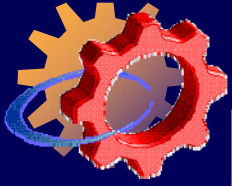
FP420 locations





Pre-design Version #3





Detector and moving pipe

