

Second Joint
ALICE, ATLAS, CMS & LHCb workshop on

DAQ @ LHC

Beat Jost, David Francis, Frans Meijers, Niko Neufeld, Pierre Vande Vyvre

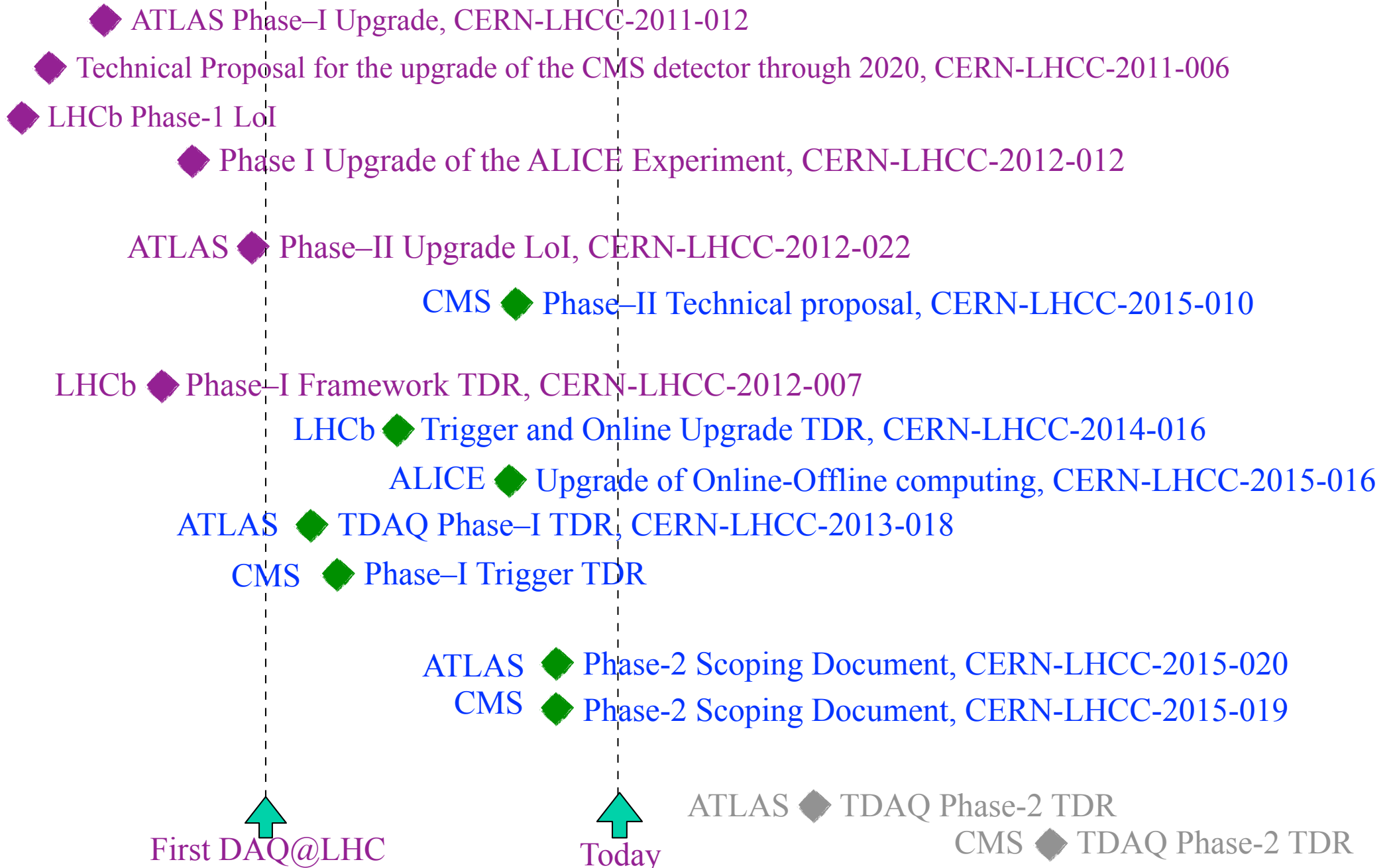
- A few organisational points ... Petya
- Aims of workshop
- Agenda overview



Second DAQ @ LHC: Introduction

- Technical scope of the workshop
 - All aspects of Data Acquisition for LHC experiments
- Anticipated audience
 - Contributors to the DAQ and HLT infrastructure of the LHC experiments
 - ALICE: 16
 - ATLAS: 39
 - CMS: 25
 - LHCb: 11
 - Other: 13
- Assumption
 - Participants have a working knowledge of the DAQ systems of the LHC experiments
- Aim at providing a forum to:
 - Share experiences on operating data acquisition systems at the LHC
 - Share vision(s), ideas and plans for the evolution of these systems
 - Exchange ideas and status of ongoing R&D
 - Explore scope for synergies
- Go beyond what is offered in existing conferences
 - More detailed technical exchange across experiments
 - Bring colleagues working on similar topics together
 - More discussion of a technical nature ... this is your role

Second DAQ @ LHC: Introduction



Second DAQ @ LHC: Introduction

- Agenda overview
 - No programme committee beyond DAQ project leaders
 - i.e. all the agenda shortcomings are the fault of the project leaders
 - Similar overall “look and feel” to first DAQ@LHC
 - Run 2 Systems
 - Topical presentations on evolutions/upgrades made in LS1
 - Status of the designs of Run 3 systems
 - R&D towards Run 3
 - Control, Monitoring and Data analytics
 - Status of the designs of Run 4 systems
 - R&D towards Run 4
 - Session titles not matching session content ... don't panic :-)
 - The view of CERN/IT view on selected topics
 - Presentations on specific topics from:
 - CERN/IT, CERN/BE, JCOP & Openlab
 - Invited technical presentations from industry
 - Interesting technologies appearing ... major impact on the way we think about upgrading our systems
 - Many ad-hoc “vendor” meetings at CERN, but present to relatively small communities
 - Intel, Seagate, IBM & Arista

Second DAQ @ LHC: Introduction

- Agenda summary

	a.m.		p.m.	
Tuesday	Run 2 systems	Changes in LS1	Intel	Changes in LS1
Wednesday	Run 3 systems	R&D for Run 3	IBM and Seagate	R&D for Run 3
Thursday	Control, Monitoring and data analytics	R&D for Run 3/4	Arista	Run 4 systems

- Run 2 ~5 hrs
- Phase-1 (i.e. Run 3) ~8 hrs
- Phase-2 (i.e. Run 4) ~3 hrs
- Company technology presentations ~3 hrs
- Discussion ... this depends on you ~x hrs
 - o i.e. ask questions

Second DAQ @ LHC: Introduction

Enjoy your Second DAQ @ LHC Workshop

Beat, Frans, Pierre, Niko & David

