

LHCOPN operations Presentation and training CERN's session II

Welcome, introduction and objectives of the session

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CERN, 2009-06-16

- Many thank to CERN and Edoardo for hosting and arranging this meeting
 - After this session ALL sites will have been trained!
 - Beware of room for tomorrow
- Agenda and all materials of the session are here:
 - <http://indico.cern.ch/conferenceDisplay.py?confId=58448>

Tuesday 16 June 2009

14:00	Start of the meeting
14:00	Welcome, introduction and objectives of the session (15')
14:15	Goals and general overview of operational model (1h15')
15:30	Tea break (15')
15:45	Presentation of tools supporting LHCOPN operational model, tests and handling (1h00')
16:50	Conclusion of day 1 (10')
17:00	End of the day

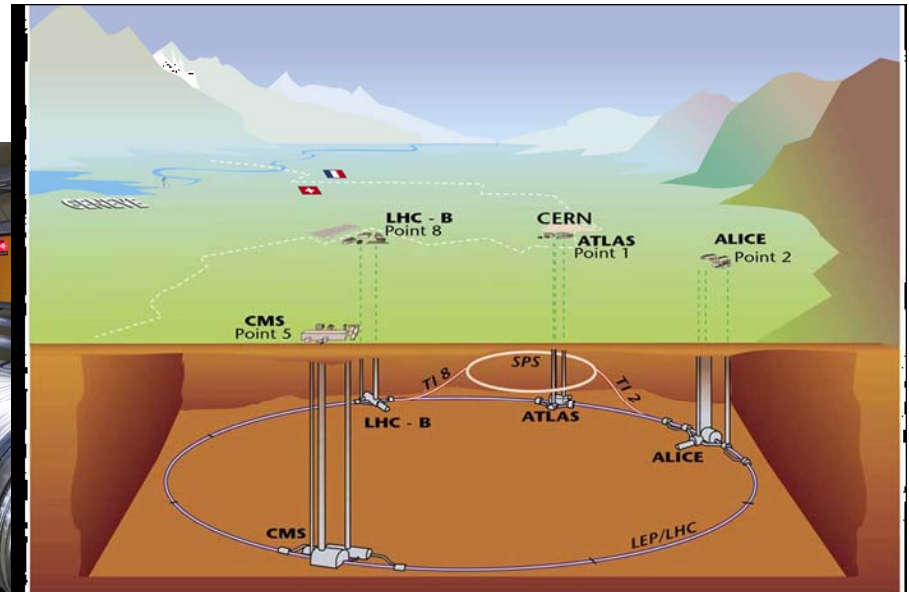
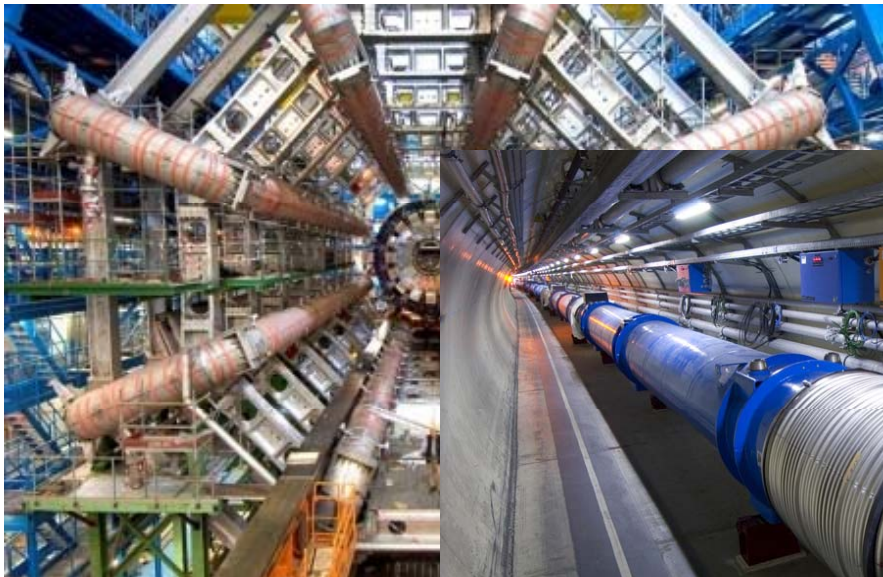
Wednesday 17 June 2009

09:00	Start of the day
09:00	Detailed practical implementation and usage (1h15')
10:15	Coffee break (15')
10:30	Use cases and best practices around processes and tools (1h00')
11:30	Round table of sites (feedbacks on tools and processes and confidence into using them on-sites) and conclusion (30')
12:00	End of the meeting

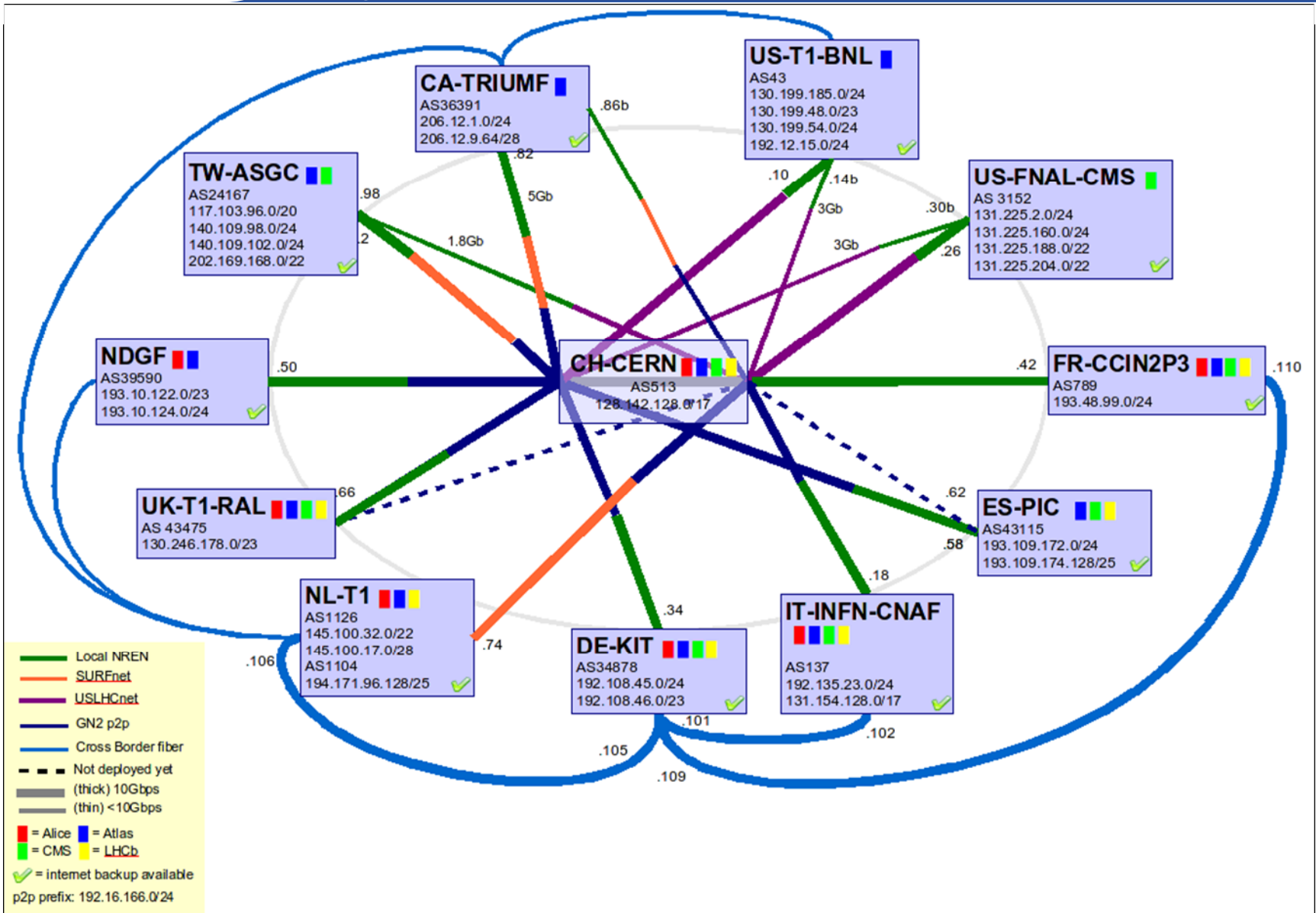
- **Presenting what is in mind on operating LHCOPN**
 - Tools, processes etc.
 - “““Training”””
- **See how you are confident and comfortable into successfully implementing LHCOPN related processes in your site**
- **Retrieve feedbacks to trigger improvement processes**
 - There are possibilities for improvement!
 - This is still fourth round of review
- **Session is flexible, drive it with what you need**
 - Site's needs, shifters need etc.
 - Help me avoiding making something too annoying

WLCG: Worldwide Large Hadron Collider Computing Grid

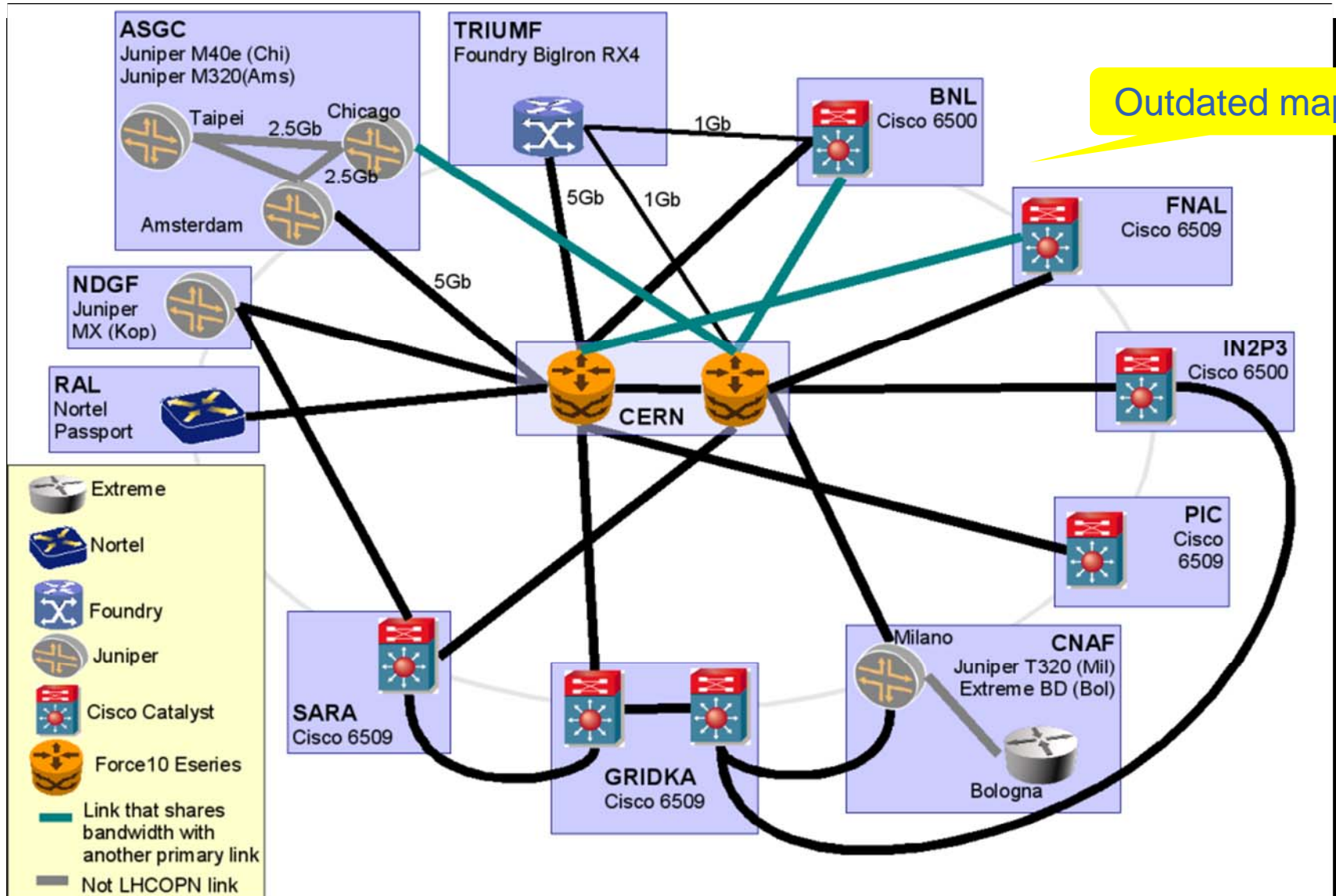
- Goal: Analysing LHC data – 15 PB/year
- Federating several international Grid projects into achieving that
 - EGEE, OSG...
 - Tiers model: 1 T0 - 11 T1s - 50 T2s



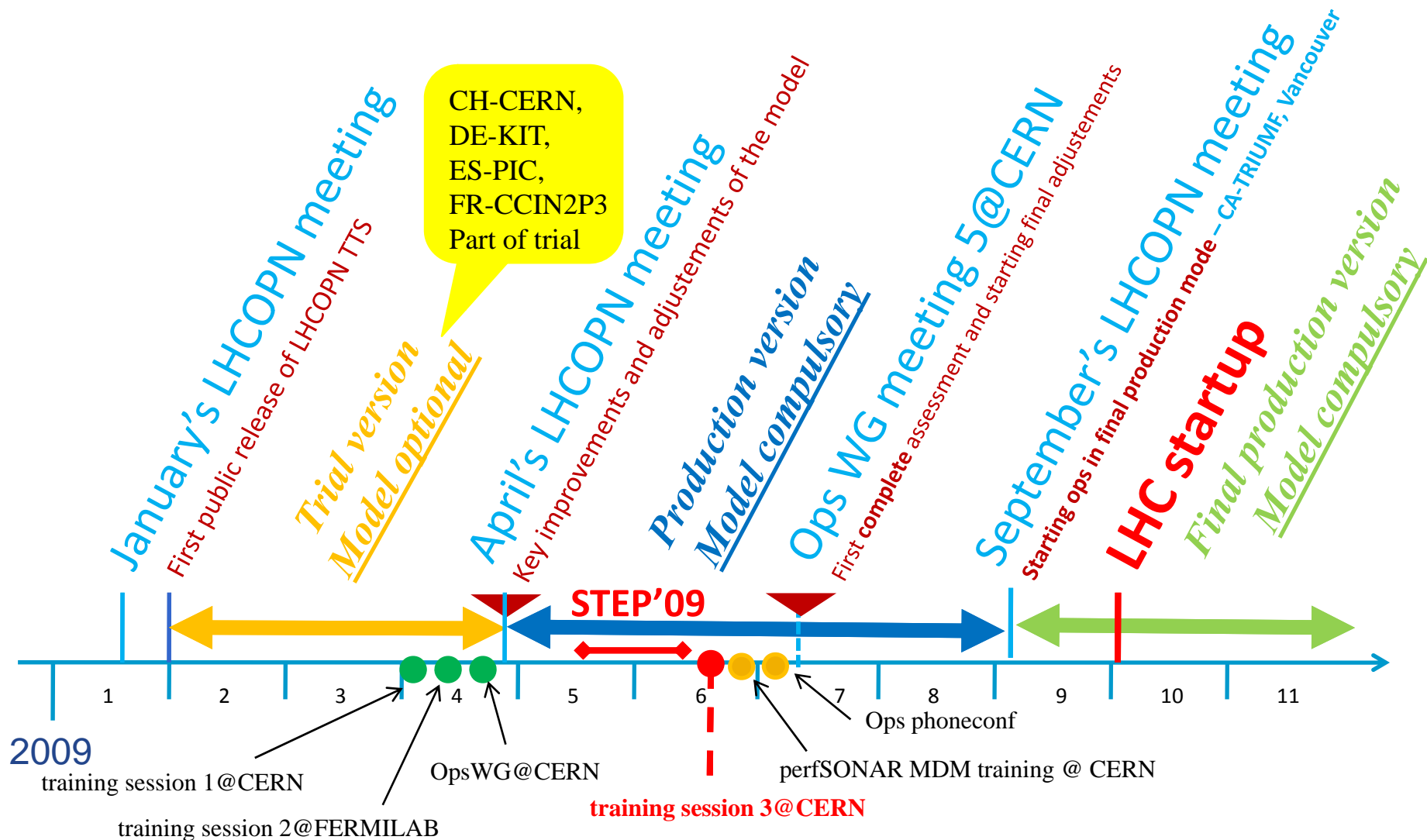
- **To much traffic expected between T0/T1s to be carried by generic IP**
- **Quality of service needed: CERN has a limited buffering ability**
- **Dedicated network built: The LHCOPN**
 - Aiming to sustain T0/T1 traffic
 - T1-T1 traffic allowed, but should not disturb T0-T1 exchanges
- **Made of stitching lightpaths provided by NRENs**
 - Often 10Gb links
 - Overseas ones are very complicated
 - Ending on sites: T0 and T1s



Courtesy of Edoardo Martelli – CERN – 2009-05-14



- **“It is a dedicated link part of the network specifically put in place to allow distribution of data from T0 to T1s”**
- **Not able to carry T0→ T1 traffic = Definitely Not a LHCOPN link**
 - Even if T1-T1 link!
- **Internal links**
 - Links with both end in same site which could have strong impact on the LHCOPN



- **perfSONAR MDM training**
 - June, 22nd
 - http://www.terena.org/events/details.php?event_id=1439
- **Ops phoneconf**
 - 2nd of July – 15:30 UTC
- **LHCOPN Ops WG meeting 5**
 - ~ First week of July, TDB
- **LHCOPN meeting - Vancouver**
 - 31 August/ 1st of September
 - <http://indico.cern.ch/conferenceDisplay.py?confId=59842>
- **Then LHCOPN ops in full production mode for LHC start-up**

	Trained	R/W Access to the twiki verified	Access to the TTS	Started Ops production mode	Review of twiki
CA-TRIUMF	2009-04-08	2009-04-30		2009-04-30	Started 2009-06-02
CH-CERN	2009-04-02	2009-02-04		2009-02-04	
DE-KIT	2009-04-02	2009-02-23		2009-02-23	
ES-PIC	2009-04-02	2009-02-04		2009-02-04	
FR-CCIN2P3	2009-04-02	2009-02-04		2009-02-04	
IT-INFN-CNAF	2009-06-16				
NDGF	2009-06-16		No access details		
NL-T1	2009-06-16				
TW-ASGC	2009-04-08	2009-06-03		2009-06-03	
UK-T1-RAL	2009-06-16				
US-FNAL-CMS	2009-04-08				
US-T1-BNL	2009-04-08	2009-05-27		2009-05-27	

Today:

1. **Goals and general overview of operational model**
2. **Presentation of tools supporting LHCOPN operational model, tests and handling**

Tomorrow – interactive:

3. **Detailed practical implementation and usage**
4. **Use cases and best practices around processes and tools**

Session ends with a round table