

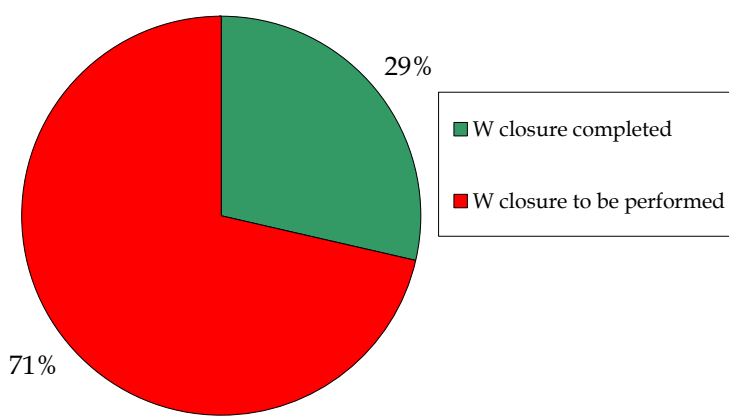
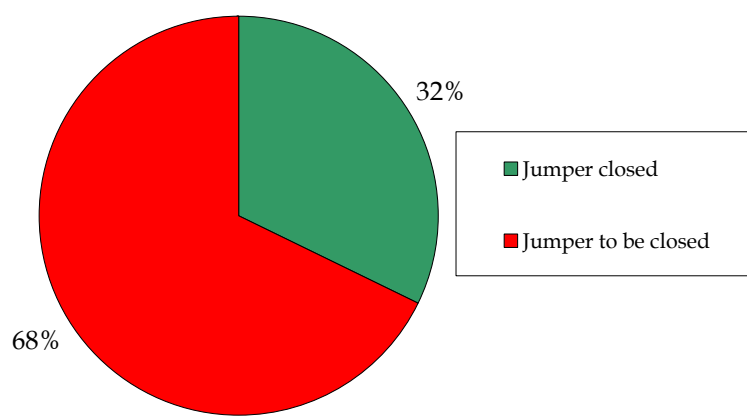
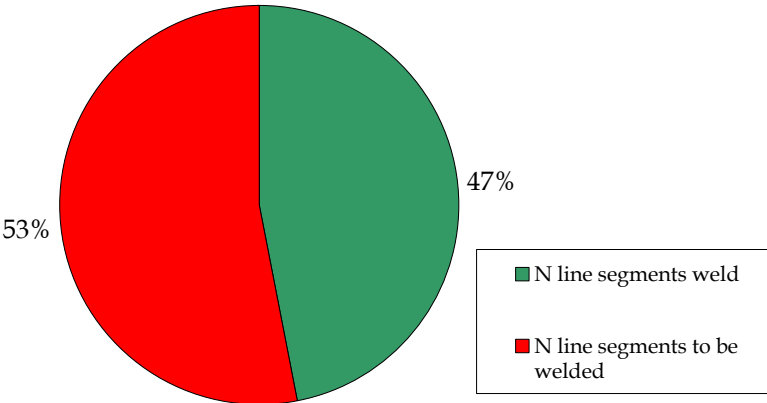
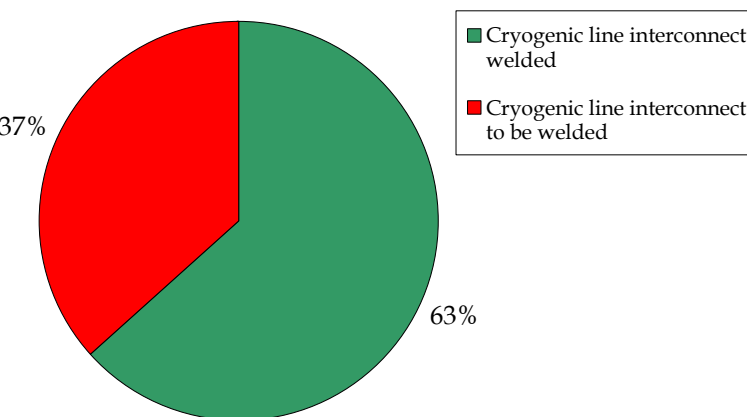
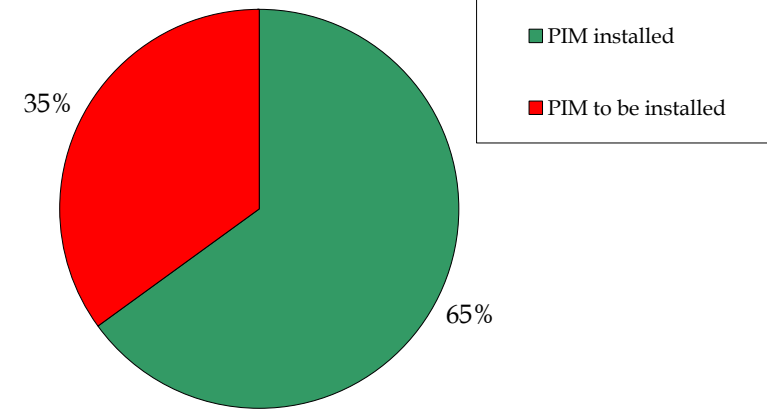
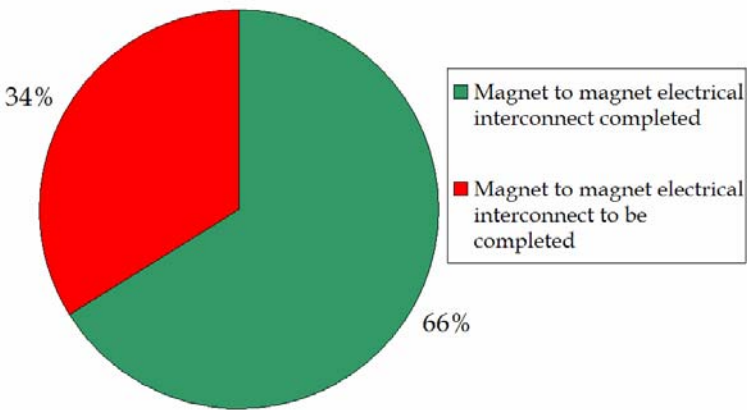
Report on LHC arc interconnect

P. Fessia On behalf of all the teams
involved

AT-MCS AT-MEL AT-VAC

Summary

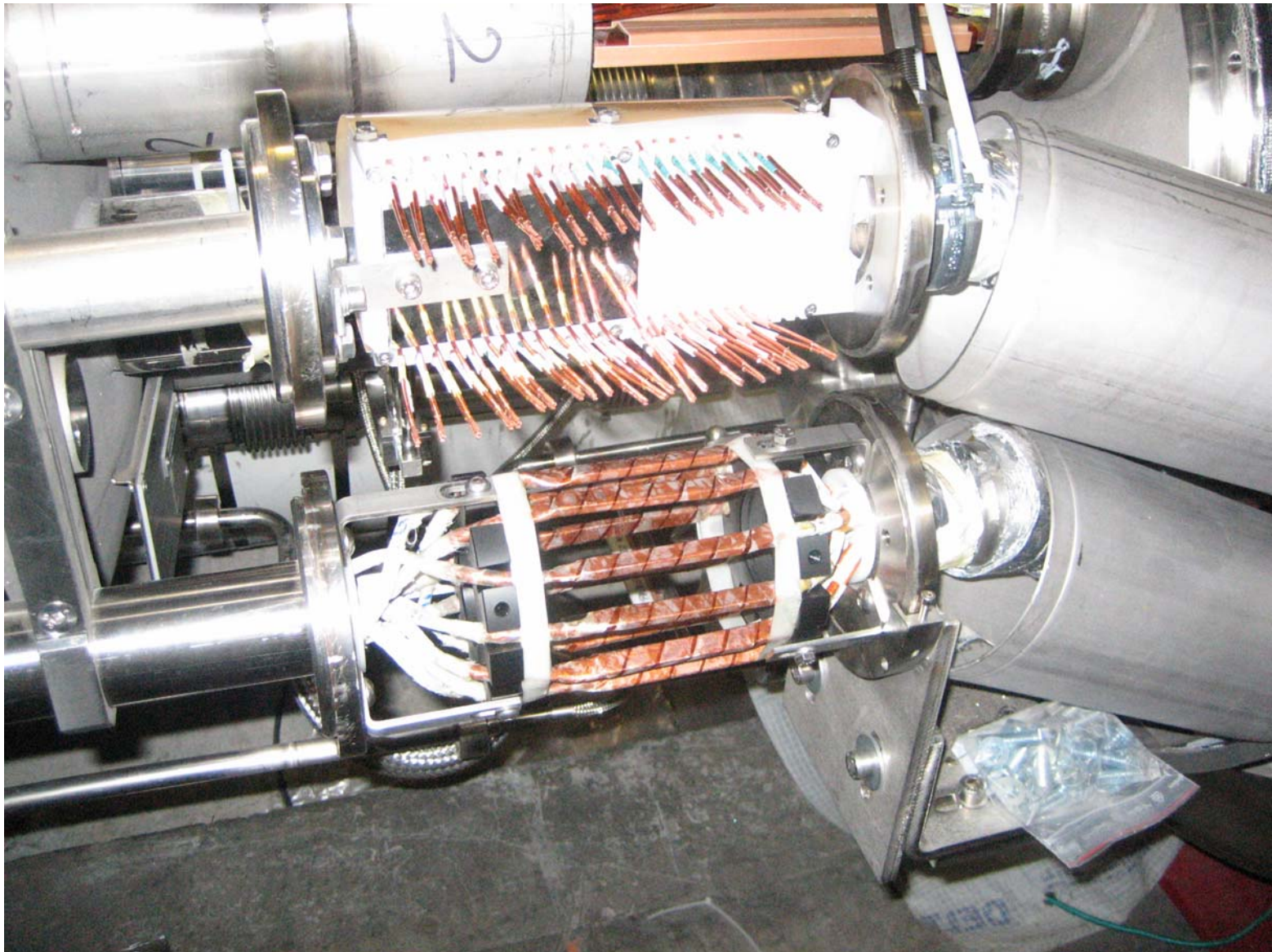
- LHC interconnect a a glance
- Closure resume
- Sector detail
- Pending issues
- Consideration on productivity



Closures

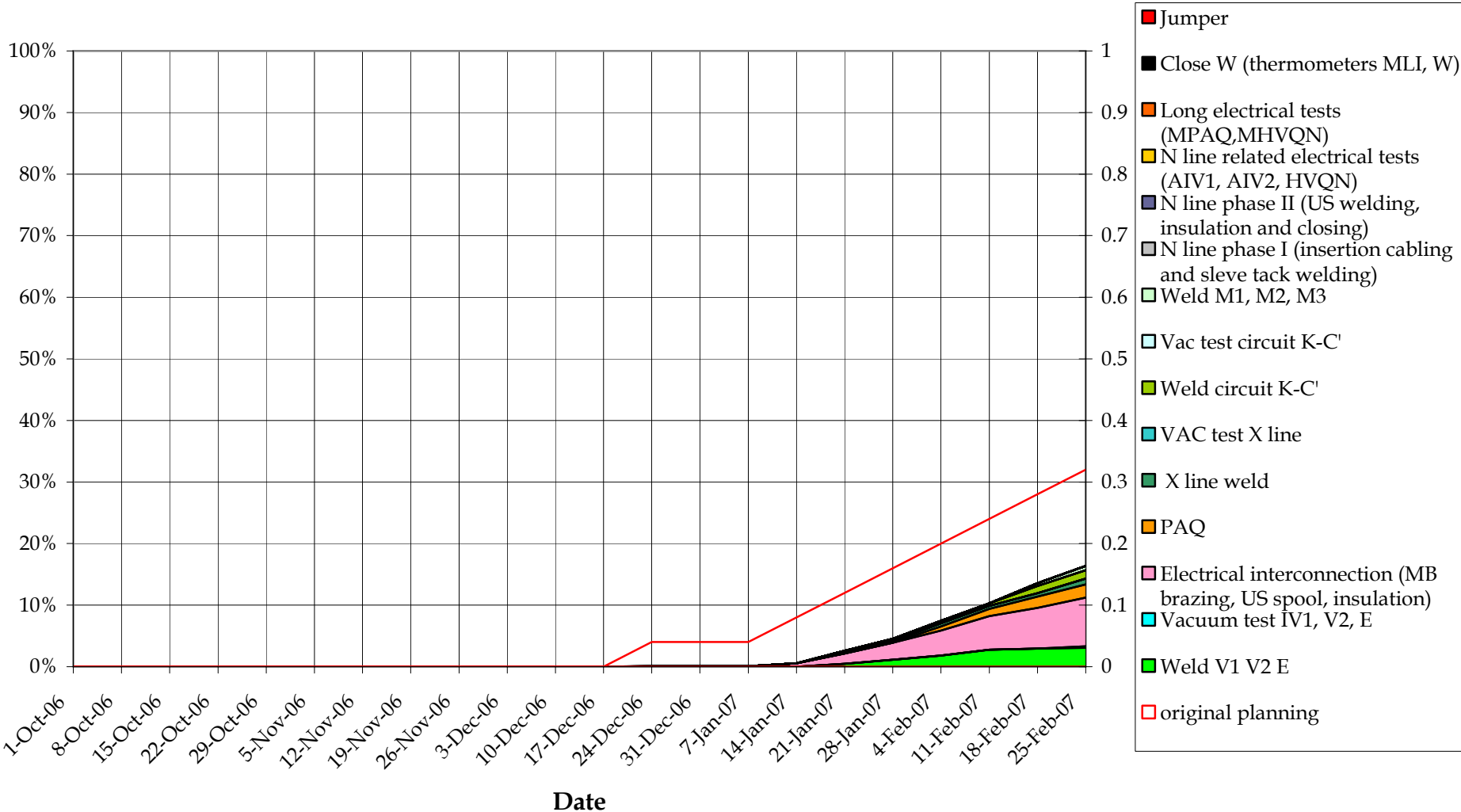
Sector	IC closed	Vacuum sector delivered for test	Accepted	Repaired
4-5	176	10	5	3
8-1	82	4		
3-4	15			

DS L5 6 KA completed



Sec 2-3

Sector 2-3 general advancement view 25-Feb-2007



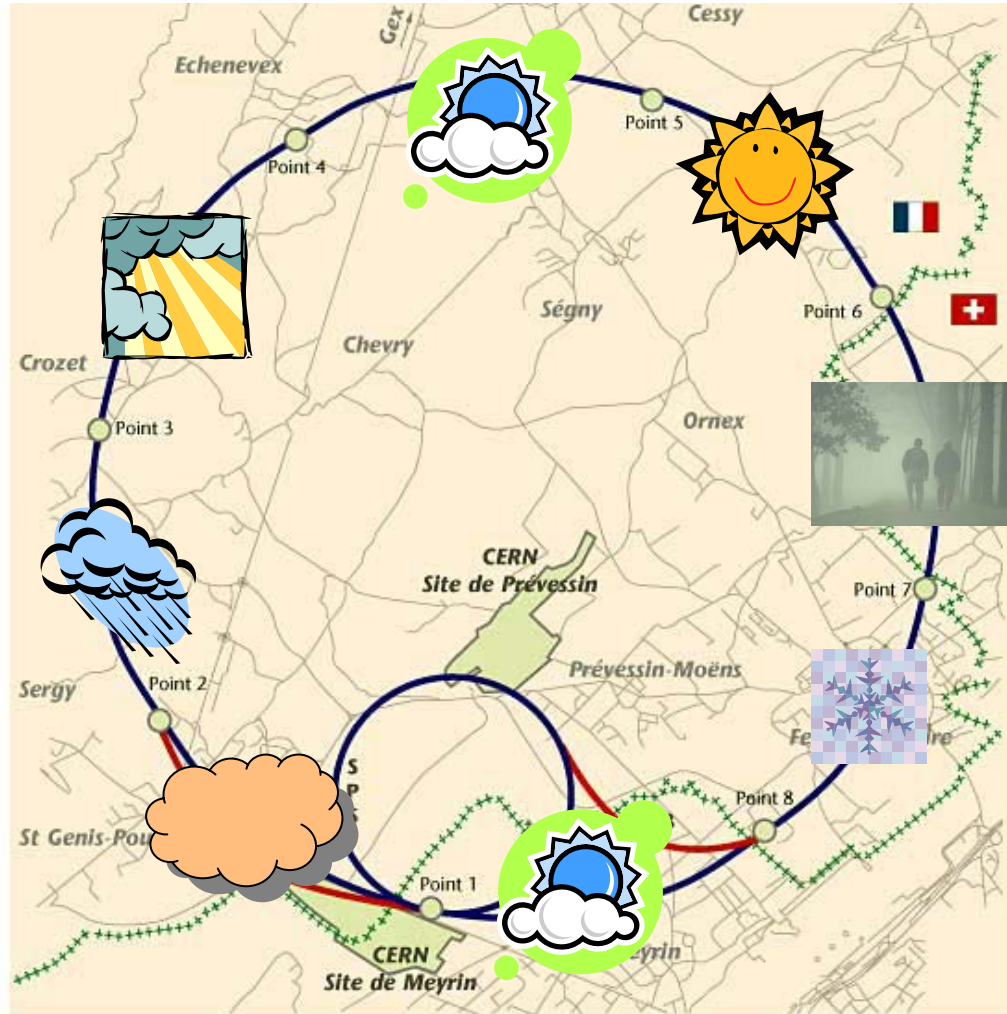
Sector 6-7

- Started in week 8
- At the moment the installation of PIM is on hold
- Brazing had an acceptable start
- Cryogenic line started last week

DS overview

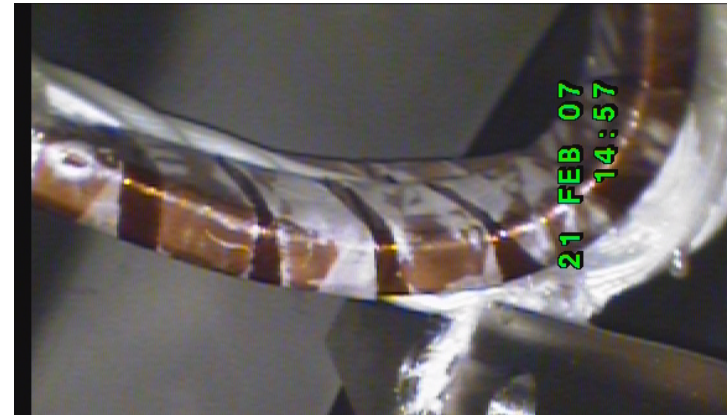
Sector	R	L
4-5	Line inserted, being cabled	Under completion (1 week after start ag IEG)
3-4	To be done by IEG, blocked because of problem in 10R3	Inserted, connection 6KA started
5-6	inserted	Not av
8-1	Rep DFBAP	Under completion
2-3	Not av	Not av
6-7	Not av	Not av
1-2	Not av	Not av

Meteo interconnect



SSS series 500 DF type possible general problem

- In sector 3-4 the PAQ in half cell 10R3 has put in evidence a short to ground in Q9R3 (SSS514). Endoscopic inspection shows contact between bus bar and spools with the extremity plate of 1st corrector magnet. Problem under current investigation



Tunnel Security

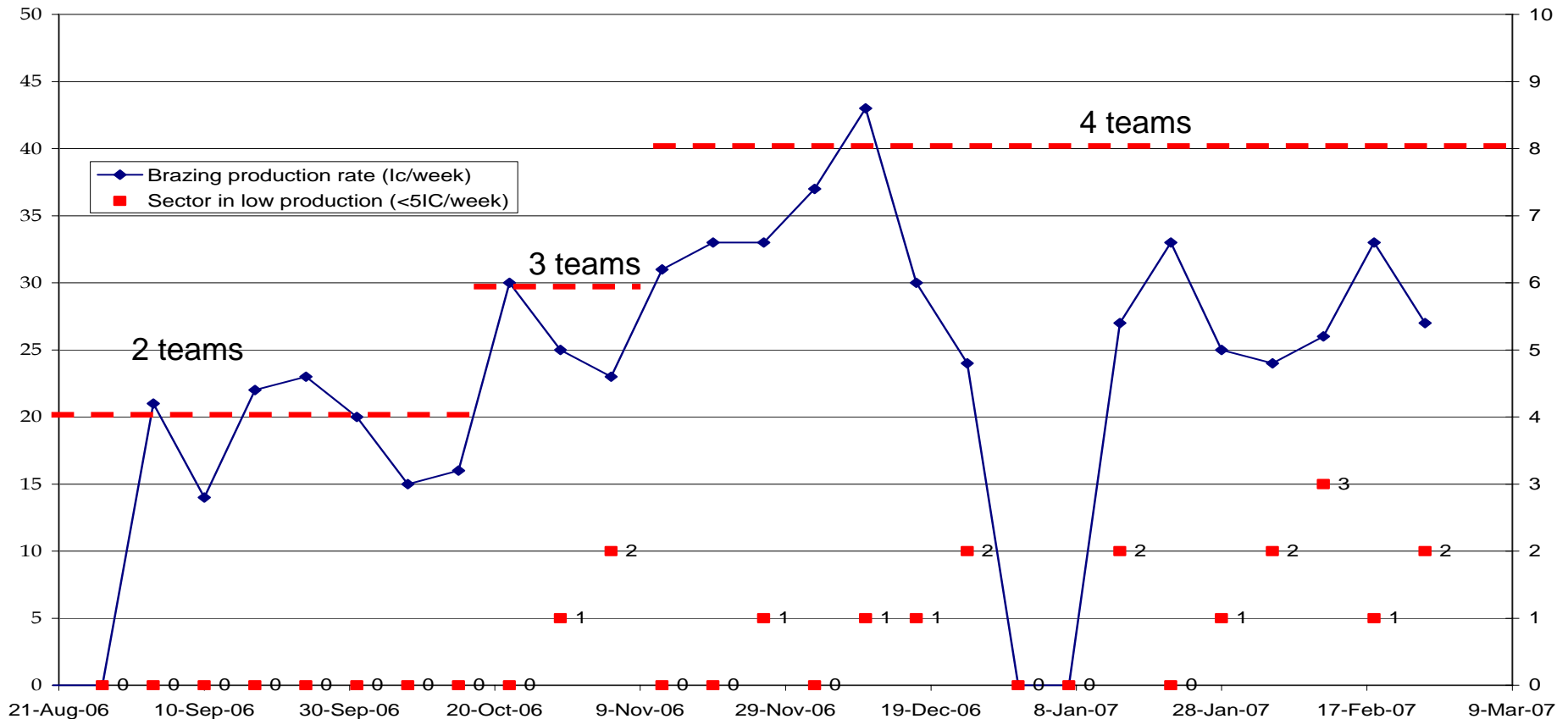
- Several cases of burglary have occurred especially around point 2 and 6 causing important losses of material and time
- For the 1st time we were faced to a probable sabotage act against a brazing machine
- Necessity to reinforce tunnel security to avoid possible act against the LHC



Other issues

- Protection of PIM: a reinforced procedure to prevent shocks on the PIM has been developed and is being tested in the present days. Aim reduce number of NCR impacting sector closures
- Cleaniness during brazing and following operations: new procedure is under development to improve cleaninesss during brazing and following cleaning operation to reduce risk of contaminaton of welding lips
- Components: overall inventory of components available to complete LHC interconnect work has been completed, putting in evidence the necessity to place few orders to avoid possible activity stoppage

Effect of workflow, ncr and missing units on prod rates



end 4-5	end 4-5			tail 4-5	tail 4-5	tail 4-5	end 3-4			tail 3-4	tail 3-4	tail 4-5	tail 4-5	end 5-6	tail 3-4
	start 5-6						start 2-3			tail 8-1		tail 3-4	start 6-7		end 5-6
												tail 8-1			

Conclusions

- Sector 4-5 and 3-4 are affected by 3-4 weeks of delay
- Sector 5-6 is on plan
- Sector 2-3 presents 4 weeks of delay that will be difficult to recover
- Displacements of teams are equivalent to loss in productivity
- The scheduled duration (master planning) of 20 weeks for sectors 6-7 and 1-2 is not achievable with the present boundary condition
- Increase of tunnel security is necessary to avoid possible acts against the machine