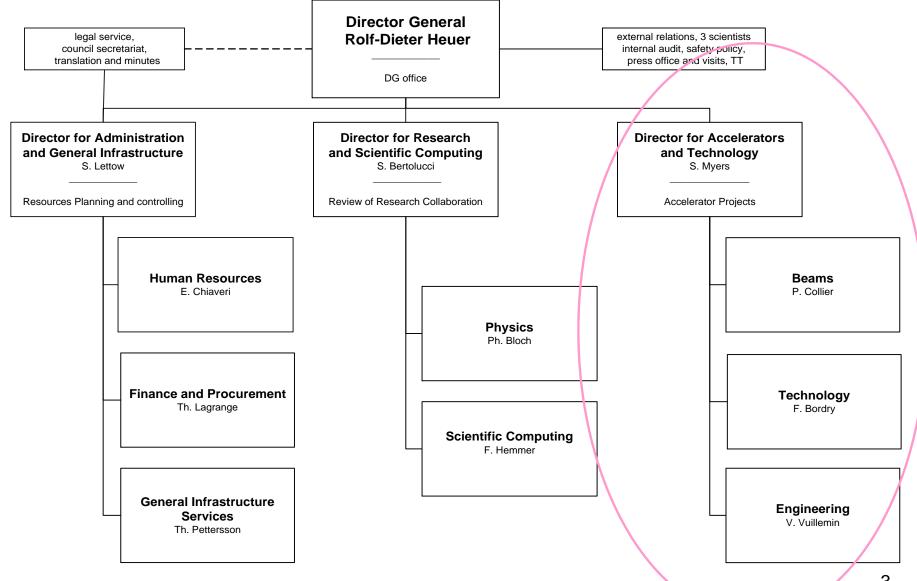
Accelerator Sector Restructuring

First Meeting 11th November 2008

AGENDA

- Mandate of Sector (S. Myers)
- Goals and "Methodology" of Restructuring (S. Myers)
- Dissemination of Information (S. Myers)
- Questions and Discussion
- Departments; mandates, groups and group mandates
 - Beams (P. Collier)
 - Engineering (V. Vuillemin)
 - Technology (F. Bordry)
- Questions and Discussion

The Future CERN structure (my understanding)



Brief Mandate

From the Green Paper to the Council (Sept 2008)

"The Director for Accelerators and Technology will be responsible for the operation and exploitation of the whole accelerator complex, with particular emphasis on the LHC and for the development of the new projects and technologies This area will comprise the new departments Beams, Engineering, and Technology. The emphasis in the next few years is clearly on the operation, exploitation, and further development of the LHC....."

Goals of Restructuring

The present structure of the accelerator and technical departments has been geared for the construction phase of the LHC. The new structure has, as primary objective, the optimisation of the operational performance of the LHC and the other experimental facilities.

Goals (Prioritized)

- 1. Facilitate maximization of the operational performance of all accelerators with priority for LHC
- 2. Make more effective use of existing staff by
 - 1. Elimination of duplication
 - 2. Identification/elimination of activities with reduced importance
 - 3. Identification/establishment of new activities which are needed for the operation of the LHC
 - 4. Re-grouping of activities with enhanced synergy (activity and time synergy)

Goals of Restructuring

The new structure should pay particular attention to LHC upgrades and future new projects.

The exercise will also permit a better balance of the scientific and technical responsibilities in each of the new departments

Methodology

An analysis has been made of the major scientific activities in the present departments (AB, AT, and TS)
Compiled a list of activities needed for the new structure
These activities were distributed within the three new departments

My Guidelines

- Departments of around 350-400 staff
- 5-8 groups
- (a group will be devoted to one or more of the activities)
- One deputy group leader, one deputy department head

Each new department is not totally identifiable with the old departments (AB, AT, and TS will no longer exist!)

Each new department is an equal partner in contributing to the operational efficiency of the accelerators

Activities in the
Accelerator
Sector and
possible (according
to me) grouping

			Departn	nents	
Activity	Changes	Beams	Technology	Engineering	Site
Accelerator Access	✓	3		3	3 (?)
Accelerator Controls	\checkmark	1			
Accelerator Operations		1			
Accelerator Physics	\checkmark	1			
Beam feedback		1			
Beam Instrumentation		1			
Beam Transfer		3	3	3	
Civil Engineering	\checkmark			2	2
Collimation	\checkmark	3	3	3	
Cooling & Ventilation				1	
Cryogenics			2	2	
Electrical Engineering				1	
Electronic Modules	\checkmark		2	2	
Experimental Support	\checkmark	2		2	
Facilities Management	\checkmark				1
Industrial Controls	\checkmark	3	3	3	
Injection/Extraction		2	2		
Machine Interlocks & Protection	\checkmark	2	2		
Magnet Measurements	\checkmark		1		
Manufacturing	\checkmark			1	
Normal Magnets	\checkmark		1		
Power Converters	\checkmark	3	3	3	
Radio-Frequency (CLIC included)		3	3	3	
Shutdown Work	✓	3	3	3	
Site Access	\checkmark				1
Supra Magnets	\checkmark		1		
Surface Treatment	✓		2	2	
Survey and Alignment	\checkmark	3	3	3	
Targets & Dumps	✓	3	3	3	
Transport				1	
Vacuum	 ✓ 	3	3	3	

Beams Department

Beams	Totals Combining present staff (2009 FTEs)	Origin (present structure)	Staff from AB	Staff from TS	Staff from AT	Staff from IT	Open Posts
Accelerator and Beam Physics	59.2	AB-ABP, TS-SU, +	38.0	21.0	1.0		1.0
Beam Instrumentation	58.9	AB-BI	58.0				2.0
Controls	52.7	AB-CO	51.0				1.0
Operations	89.2	АВ-ОР	85.0				5.0
Radio Frequency	80.9	AB-RF	80.0				3.0
Administration, Safety and Resources	18.5	AB-ADM, AB-SU	20.0				
Head Office	1.0	AB	1.0				

Beams total

360.4

333.0 21.0

1.0



Engineering Department

Engineering	Totals Combining present staff (FTEs)	Origin (present structure)	Staff from AB	Staff from TS	Staff from AT	Staff from IT
Manufacturing	76	TS-MME	0	76	0	0
Cooling & Ventilation	50	TS-CV	0	50	0	0
Transport	29	TS-HE	0	29	0	0
Electrical Engineering	58	TS-EL	0	60	0	0
Tech Coord [Accelerators and Experimental Facilities]	59	AB-ATB-SBA +TS-LEA +AB- ABP-RTL +TS-ICC	26	32	0	0
Targets, collimators & dumps	33	AB-ATB-EET / IF / LPE / TCD + TS-LEA	31	2	0	0
Controls and electronics	45	AB-CO-IS + AB-CO-MA + IT-CO + TS-DEM	14	15	0	16
TOTAL	350		71	264	0	16
Admin and Head Office	22	TS-AS3 + TS-HDO		22		
Total with Admin and Head Office	372		71	286	0	16

Technology Department

Technology Department	Totals Combining present staff (FTEs)	Origin (present structure)	Staff from AB	Staff from AT	Staff from TS	Not from section
Superconductors/HTS - SC Magnet design - Magnetic Mesurements	51.9	AT-MCS-ML + AT-MCS-MDE + AT-MCS-SC + AT-MEI-SD + AT- MEI-MM ++AT-MEI-FP	0.0	49.9	0.0	2.0
Magnet integration and repairs- Warm Magnets	40.6	AT-MCS-CI + AT-MCS-MF+AT- MCS-MNC	0.0	41.6	0.0	-1.0
Machine Protection & ELQA & Quench protection	24.0	AT-MEI-TF+AT-MEI-PE+AB-CO- MI	7.0	15.0	0.0	2.0
Cryogenics	67.1	AT-CRG	0.0	67.1	0.0	0.0
Vacuum+CCS	69.5	AT-VAC and TS-MME-CCS	0.0	48.5	21.0	0.0
Injection/Extraction and Beam transfer	49.4	AB-BT	49.4	0.0	0.0	0.0
Power Converters	65.0	AB-PO	63.0	0.0	2.0	0.0
Total	367.5		119.4	222.1	23.0	3.0
ADM	13.3	AT-ADM	2.0	11.3		
TE DH and DHO	3.0		1.0	2.0	0.0	
Total with Admin and Head Office	383.8		122.4	235.4	23.0	3.0

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- Yet to be done
 - Projects management and organization
 - "Project Leaders

The new projects within the sector of Accelerators and Technology are the luminosity upgrade of LHC and the electron-positron linear collider CLIC. The respective project leaders are Lyndon Evans (UK) and Jean-Pierre Delahaye (FR) who will continue in their respective functions. Since both project leaders will reach retirement age within the next few years their respective successors will be nominated next year".

- J-P. Delahaye has committed to stay until at least mid 2010 for the completion of the conceptual design report including a preliminary performance report and a cost estimate. His successor may be named at the end of 2009. There are several valid candidates inside CERN and certainly several outside for this very high profile and very political job.
- Scientific Committee Structure
 - Sector wide
 - Departmental committees
- Safety

Dissemination of Information

 People present at this meeting should inform their staff and colleagues about what you learned today

Questions and Discussion