

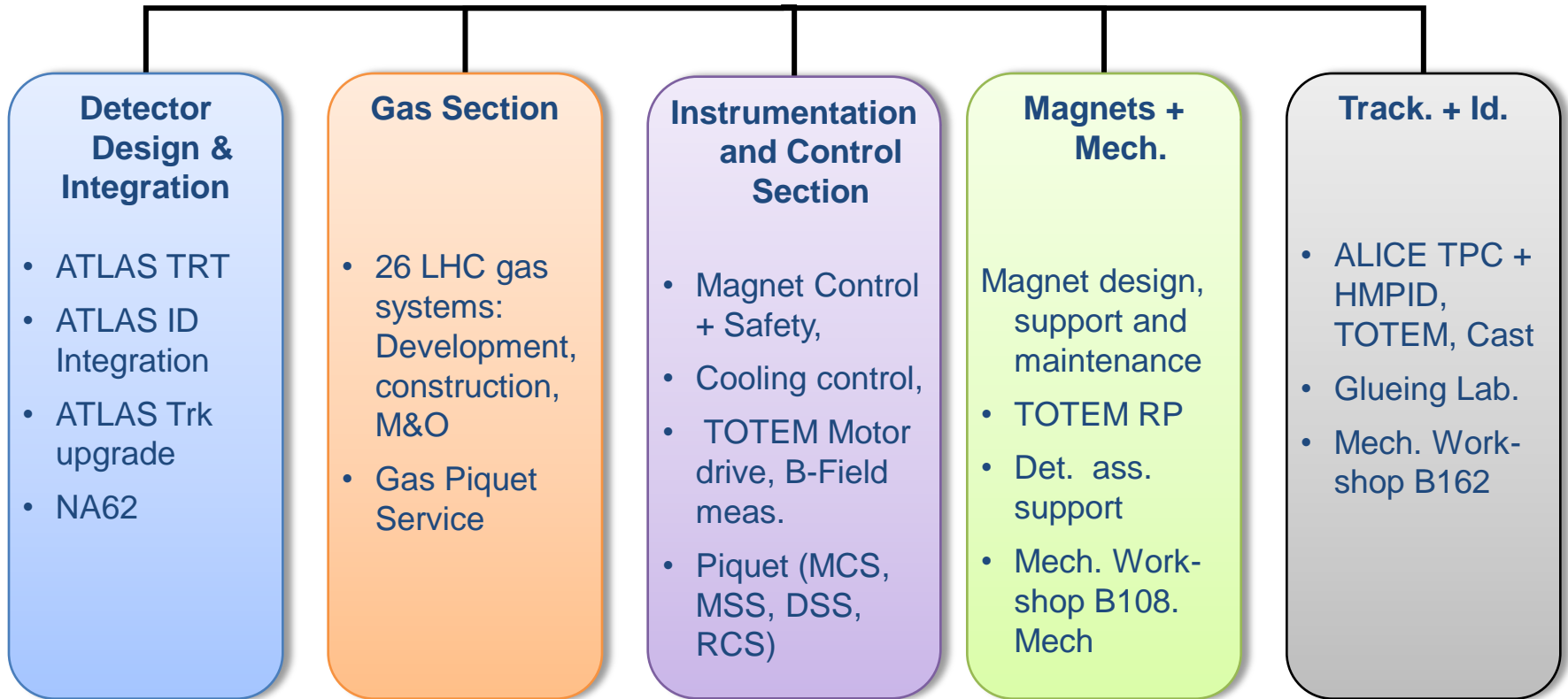
PH-DT

Detector Technologies

- The Groups DT1 and DT2
- $DT > (DT1 + DT2)$ (Synergy ?)
- Structure and organization of DT
- Where am I ?
- Functions and names
- Work plan 08 / 09
- Discussion

DT1 Overviews of Activities:

47 staff + 2 fellows, 2 FSU (10 pers.)
12 projects, 4 services.



FSU PH01
(S108)

FSU PH02
(S107)

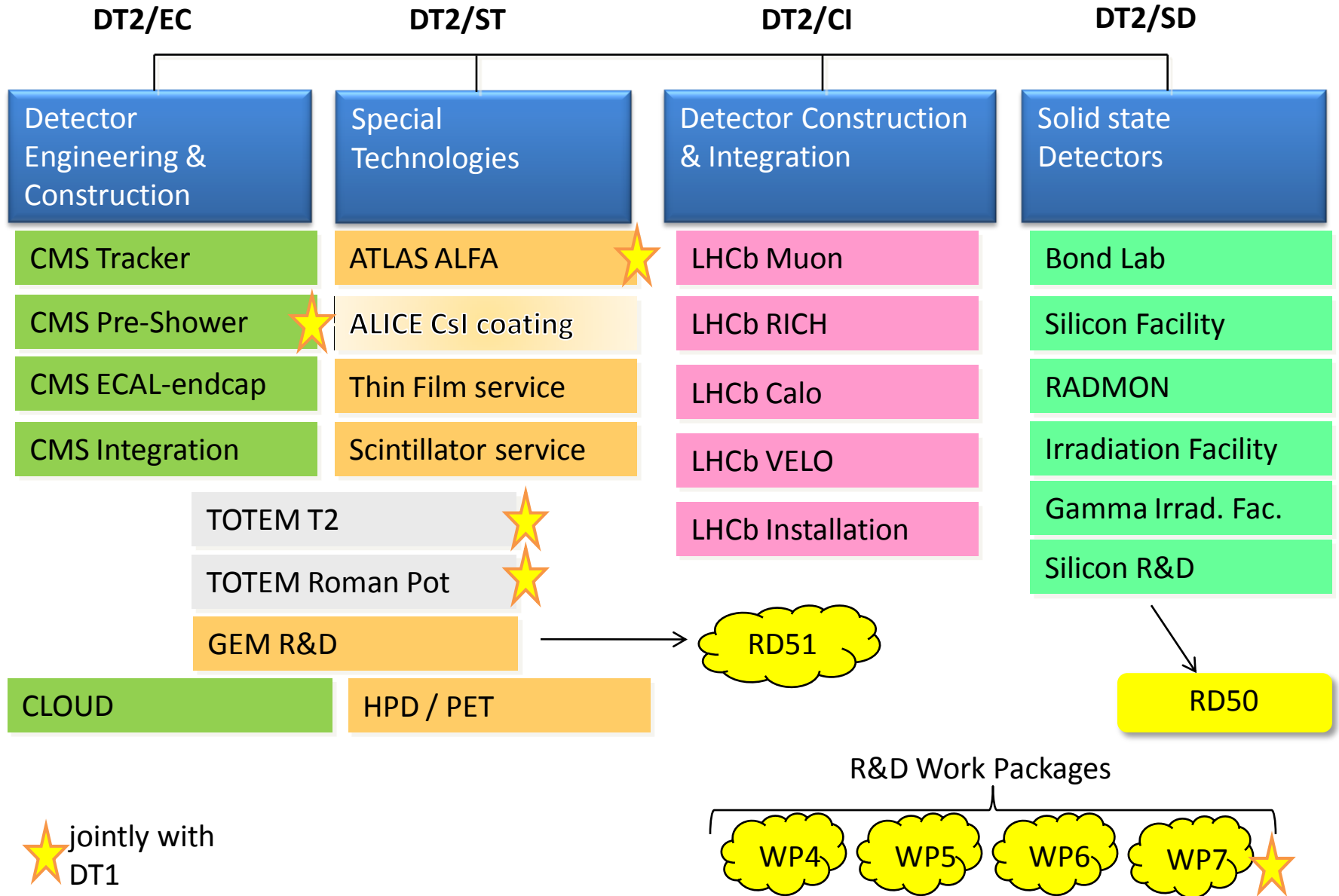
R&D Work Package



DT2 Overviews of Activities:

30 staff + 8 students/fellows

14 projects, 7 services, 3 R&D lines

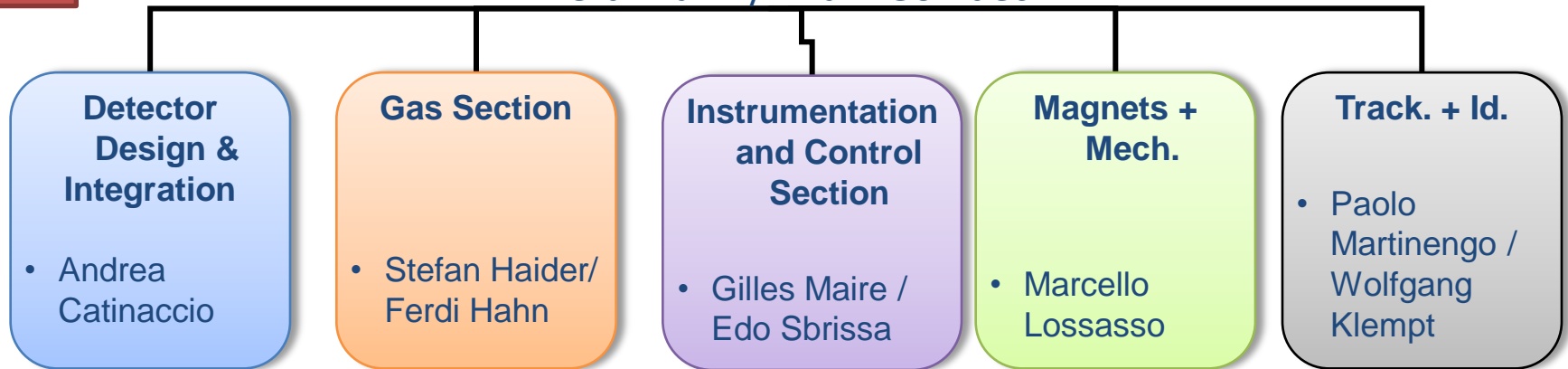


Before talking about the new structure and names ...

I would like to thank the current group and section leaders for excellent work during a couple of tough years

DT1

Ferdi Hahn / Allain Gonidec



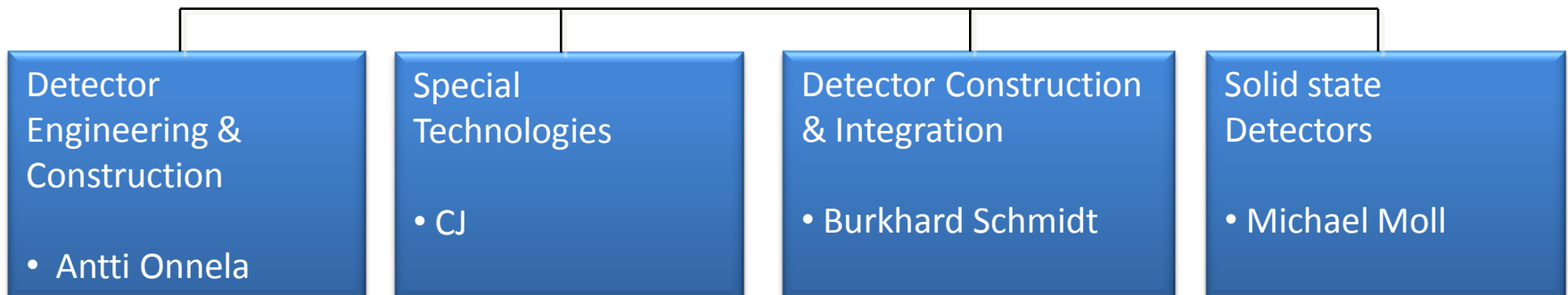
DT2

DT2/EC

DT2/ST

DT2/CI

DT2/SD



$DT > (DT1 + DT2)$ (Synergy ?)

Original estimates: $DT1 (45) + DT2 (30) = 75$ staff

Today: DT is expected to have 82 staff

But several will retire very soon!

Explanation: Most of the ALICE technical team has been transferred to DT

PERINI Diego	mechanical engineer
TAUREG Hans	physicist
LABBE Jean-Claude	} technicians
DENARIE Charles-Henri	
ANSTETT Didier	
BOUVIER Philippe	
IJZERMAN Peter	

Mark Hatch, a mechanical engineer from ATLAS is also joining DT

More people could follow in coming years (LHC, CMS ...)

GL: C. JORAM

DGLs: F. Hahn (Resource Coordinator), A. Onnela (Glimos)

Projects Office		Detector Infrastructure		Technologies and Physics		Engineering & Mechanics 1		Engineering & Mechanics 2	
Andrea Catinaccio		Ferdinand Hahn		Christian Joram		Diego Perini		Hans Danielson	
2	BAULT Christophe Daniel	BERGSMA Felix	BAECHLER Joachim	ALBRECHT Erich	PEREZ GOMEZ Francisco				
3	DAVID Eric	BOURGEOIS Nicolas	D'AMBROSIO Carmelo	CANTIN Bernard	BEN ROMDHANE Mahdi				
4	LENOIR Philippe	BRAEM Andre	DAVENPORT Martyn	CHADAJ Bernard	BENDOTTI Jerome				
5	ONNELA Antti Tero Olavi	CARRIE Patrick	GYS Thierry	DELATTRE Michel	BODE Alain				
6	PINTUS Ronald	COSSEY PUGET Francoise	KLEMP Wolfgang	DUMPS Raphael	BRUNEL Bernard				
7	RANGOD Stephane	D'AURIA Andrea	MARTINENGO Paolo	FERRAND Andre	CHARRA Patrick				
8	WERTELAERS Piet	DAVID Claude	MOLL Michael	FRAISSARD Daniel	DIXON Neil David				
9	HATCH Mark	DE MENEZES Louis-Philippe	ROPELEWSKI Leszek	KOTTELAT Luc-Joseph	FOLLEY Adrian				
10		DERONT Laurent	SCHMIDT Burkhard	KRISTIC Robert	GARNIER Francois Andre				
11		FORTIN Richard Georges	CAPEANS Maria Del Mar	LESENECHAL Yannick	GIUDICI Pierre-Ange				
12		GLASER Maurice	TAUREG Hans	LOOS Robert	DE OLIVEIRA Antonio				
13		GUIPET Antoine		MULON Jose	LANCON Philippe				
14		HAIDER Stefan		PIEDIGROSSI Didier	NOEL Jerome				
15		MAIRE Gilles		VAN BEELEN Jacob Bastiaan					
16		MCGILL Ian		DENARIE Charles-Henri					
17		MERLET Frederic		ANSTETT Didier					
18		OLESEN Gert		BOUVIER Philippe					
19		PAVIS Steven		IJZERMAN Peter					
20		PONS Xavier							
21		RAVAT Sylvain							
22		REY-MERMIER Roland							
23		SBRISSA Edo							
24		SCHNEIDER Thomas Hans							
25		VAN STENIS Miranda							
26		WASEM Albin							
27		LABBE Jean-claude							

Projects Office	
1	Andrea Catinaccio
2	BAULT Christophe Daniel
3	DAVID Eric
4	LENOIR Philippe
5	ONNELA Antti Tero Olavi
6	PINTUS Ronald
7	RANGOD Stephane
8	WERTELAERS Piet
9	HATCH Mark



- Mechanical Designs
- Structural Calculations
- Project planning and follow-up
- Quality Assurance

Detector Infrastructure	
1	Ferdinand Hahn
2	BERGSMA Felix
3	BOURGEOIS Nicolas
4	BRAEM Andre
5	CARRIE Patrick
6	COSSEY PUGET Francoise
7	D'AURIA Andrea
8	DAVID Claude
9	DE MENEZES Louis-Philippe
10	DERONT Laurent
11	FORTIN Richard Georges
12	GLASER Maurice
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14	HAIDER	Stefan
15	MAIRE	Gilles
16	MCGILL	Ian
17	MERLET	Frederic
18	OLESEN	Gert
19	PAVIS	Steven
20	PONS	Xavier
21	RAVAT	Sylvain
22	REY-MERMIER	Roland
23	SBRISSA	Edo
24	SCHNEIDER	Thomas Hans
25	VAN STENIS	Miranda
26	WASEM	Albin
27	LABBE	Jean-Claude

- Gas Systems
- Instrumentation and Controls, Magnets
- Thin Film & Glass
- Silicon Facility
- Irradiation Facilities

Technologies and Physics

1	Christian Joram	
2	BAECHLER	Joachim
3	D'AMBROSIO	Carmelo
4	DAVENPORT	Martyn
5	GYS	Thierry
6	KLEMP	Wolfgang
7	MARTINENGO	Paolo
8	MOLL	Michael
9	ROPELEWSKI	Leszek
10	SCHMIDT	Burkhard
11	CAPEANS	Maria Del Mar
12	Taureg	Hans

- Development of detectors and components
- project management

Engineering & Mechanics 1

1	Diego Perini	
2	ALBRECHT	Erich
3	CANTIN	Bernard
4	CHADAJ	Bernard
5	DELATTRE	Michel
6	DUMPS	Raphael
7	FERRAND	Andre
8	FRAISSARD	Daniel
9	KOTTELAT	Luc-Joseph
10	KRISTIC	Robert
11	LESENECHAL	Yannick
12	LOOS	Robert
13	MULON	Jose
14	PIEDIGROSSI	Didier
15	VAN BEELEN	Jacob Bastiaan
16	DENARIE	Charles-Henri
17	ANSTETT	Didier
18	BOUVIER	Philippe
19	IJZERMAN	Peter



- Engineering
- Construction
- Infrastructure
- Operation/Maintenance (P2, 5 and 8),
- workshops (B17, 166)

Engineering & Mechanics 2

1
2
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6
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8
9
10
11
12
13
14

Hans Danielsson

PEREZ GOMEZ Francisco

BEN ROMDHANE Mahdi

BENDOTTI Jerome

BODE Alain

BRUNEL Bernard

CHARRA Patrick

DIXON Neil David

FOLLEY Adrian

GARNIER Francois Andre

GIUDICI Pierre-Ange

DE OLIVEIRA Antonio

LANCON Philippe

NOEL Jerome

- Engineering
- Construction
- Infrastructure
- Operation/Maintenance (P1 + PS / SPS)
- Workshop (B108)

GL: Christian Joram

Deputies:

Ferdinand Hahn / Antti Onnela

'Resource Coordinator'

- Budgets
- Space
- Planning APT

Safety Linkman
Workshops

Secretariat

Veronique Wedlake (50 or 100 %)
NN (50%) ?

Kate Ross will stop working for DT
(full time for PH department (1 May))

B166.

Office / lab space

New colleagues from ALICE move to B16. Offices ~available.

Designers should work together in Project office (25-R-028).
Space for ~4 designers + 2 engineers.

Later in 2008 / 09 removal of individual people possible
depending on project attribution.

Mechanical workshops

We keep all existing workshops operational !

- B166 high precision mechanics, CNC milling machine, CNC turning machine being ordered, 'controlled' access for all projects
- B162 mainly to support ALICE and LHCb M&O
- B108 mainly to support ATLAS M&O and magnets team.
- B187 scintillator workshop
- B3 Workshop specialized on glass and ceramic machining
- B20 small workshop, R. Dumps

One/two responsables per workshop. Antti Onnela will be in charge of all workshops (equipment, conformity, safety, problems...)

Work plan 08 / 09

Rule 1: All current projects continue with the current manpower composition.

Completion / commissioning of LHC projects has highest priority.

Rule 2: Whenever possible, manpower becoming available shall be used to help completing LHC projects.

We have several LHC projects where installation is only foreseen in 08 / 09:

- CMS ECAL endcap
- CMS preshower
- TOTEM T2
- TOTEM RP
- ATLAS ALFA

There is a need for extra manpower already now.

- M&O and shutdown work in the LHC experiments: for gas systems, magnets, DSS, RCS quite well defined, but not yet for the detectors.
- Our task for the coming months: Discussions/negotiations with the experiments. → Define M&O work by DT on detectors and infrastructure.

New projects, still 2nd priority

Detector upgrade activities

- LHCb VELO replacement
- CMS TRK
- ATLAS TRK
- ALICE HMPID
- TOTEM T1

In the long and slow process of being defined. Meetings /discussions.

New detectors

- NA62
- CLOUD

So far, marginal DT involvement. Requires decision by CERN top management and collaborations.

2nd priority...

PH R&D Work packages

- WP 4 Si-detectors, RD50
- WP 5 Gas detectors, RD51
- WP 6 Connectivity
- WP 7 Irradiations/material studies

We have started to invest resources (several fellows and students, ~600 kCHF in 2008).

We need also technicians!

Engineering R&D,

- cooling technologies (e.g. based on CO₂), (composite materials).

Discussions DT/CMS/ATLAS. Work package proposal being drafted. What, who, when, how many CHF? Intend to organize a workshop at CERN in 2009.

3rd priority

Non-core activities

X-HPD, AX-PET, scintillator studies

Resources must mainly come from outside CERN. Should not extend 10-20% of a person's time.

Jobs in DT (= group internal mobility)

- Technical support of p/n irradiation facility in PS area, 50-75%, versatile mechanical technician.
- Technical support for PH DSO, ~50% (2 x 25%).
- Technical support for WP5 / RD51, ~50%. Gas detector construction, assembly, testing, setting up a permanent test beam zone.
- Safety technician in PH safety office. Cat. C, Good English/French. Admin. + technical work. Requires extra training. Position would be in PH/DI group.

Meetings

DT2 had in the last 3 years about 20 'Science-techno tea' meetings. Typically 30 participants, even though time was not attractive: Fri, 16:00.

Phys/Eng/Tech talked about their projects.

We would like to continue this, keeping focus on group projects and technical subjects. Format may change a bit.

Consider DT science-techno tea as complement to PH Detector seminar (which will be re-activated this year).

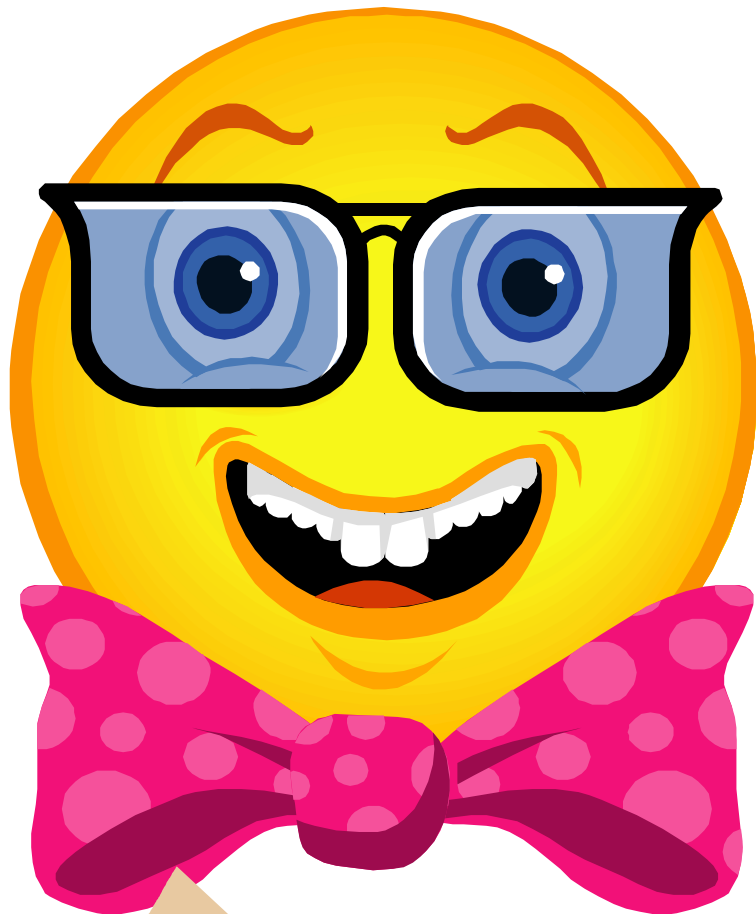
Real group meetings: not very often (1-2 x per year), whenever needed.



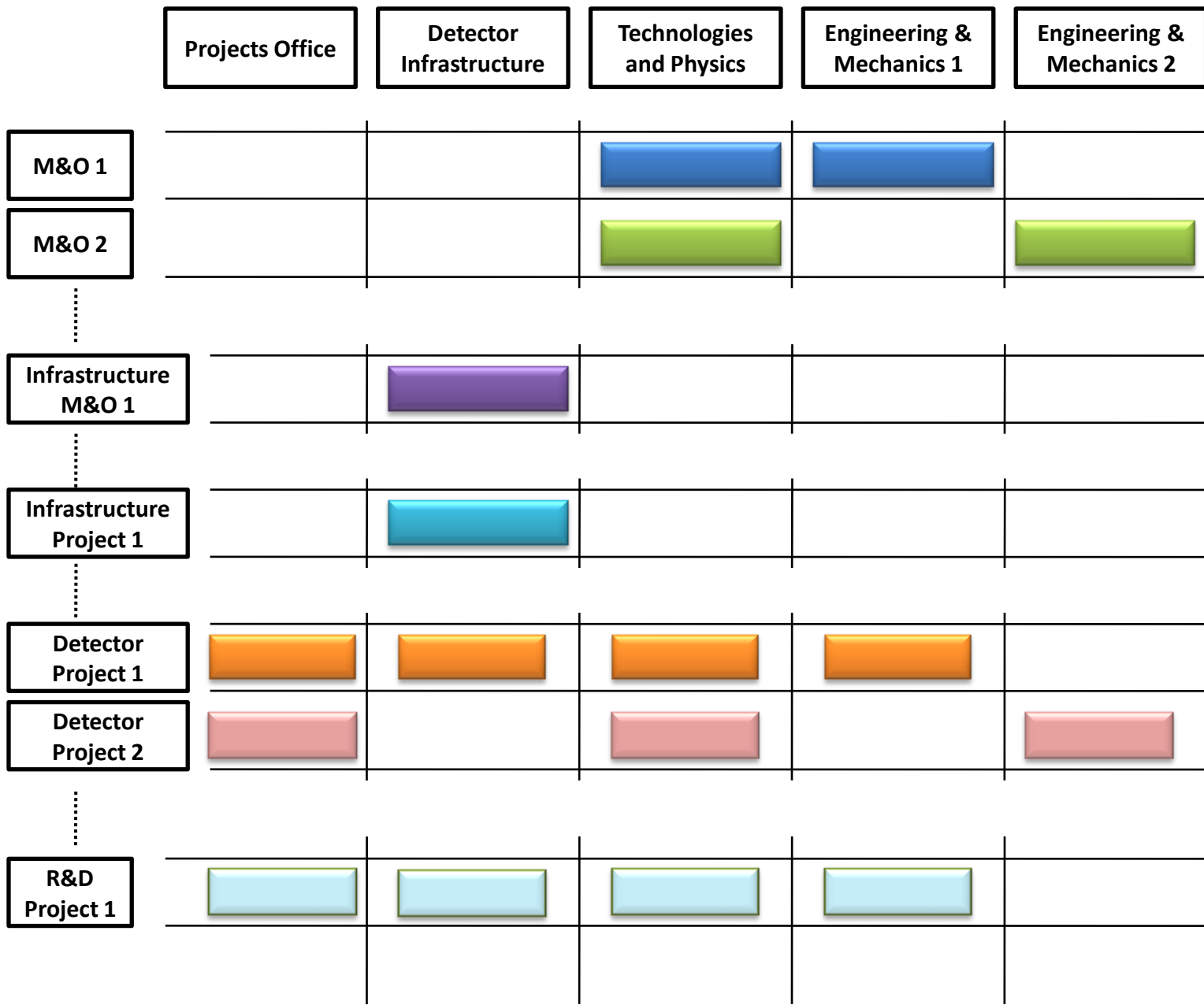


Cr!





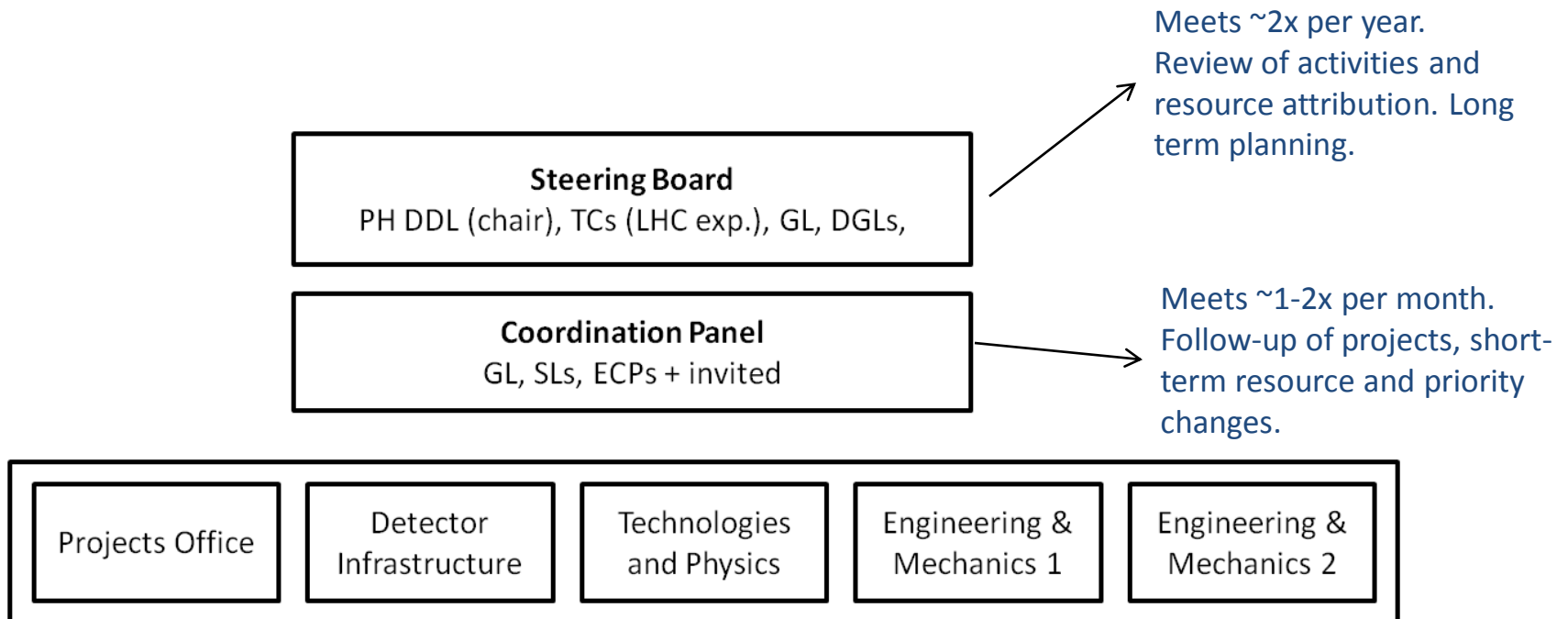
Back-up



DT group will represent ~20% of PH total staff.

It will be the main resource in PH for detectors and their infrastructure.

→ We need to involve Department and LHC experiments in its management.



- DT project leaders for every project.
- Experiment Contact Persons (ECP) ensure a permanent and direct link to the LHC experiments.