



R2E relocation & shielding

LS1 preparation

Anne Laure Perrot EN/MEF- LE

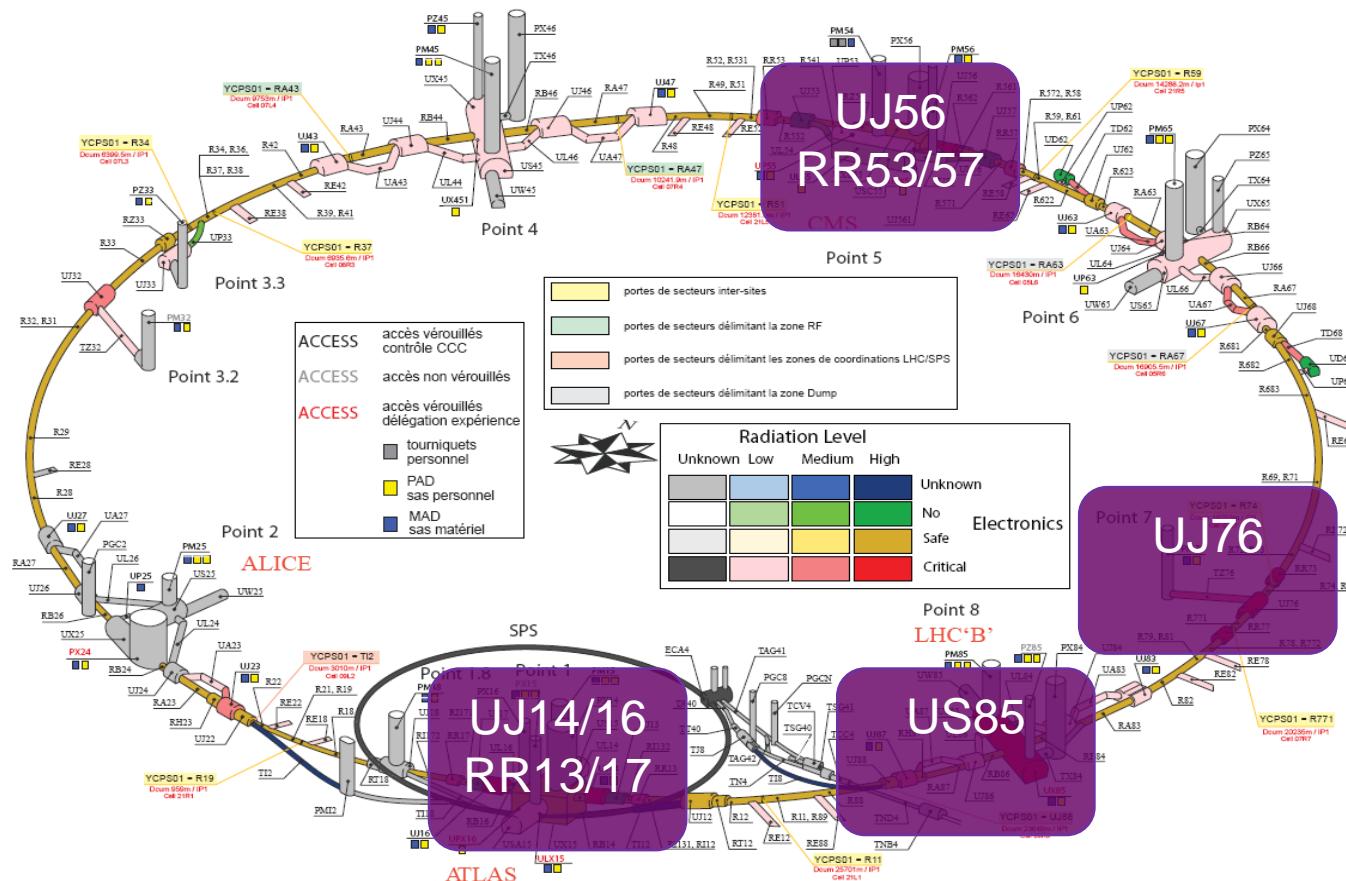
Discussion with OP colleagues, 5th July 2012

Contents

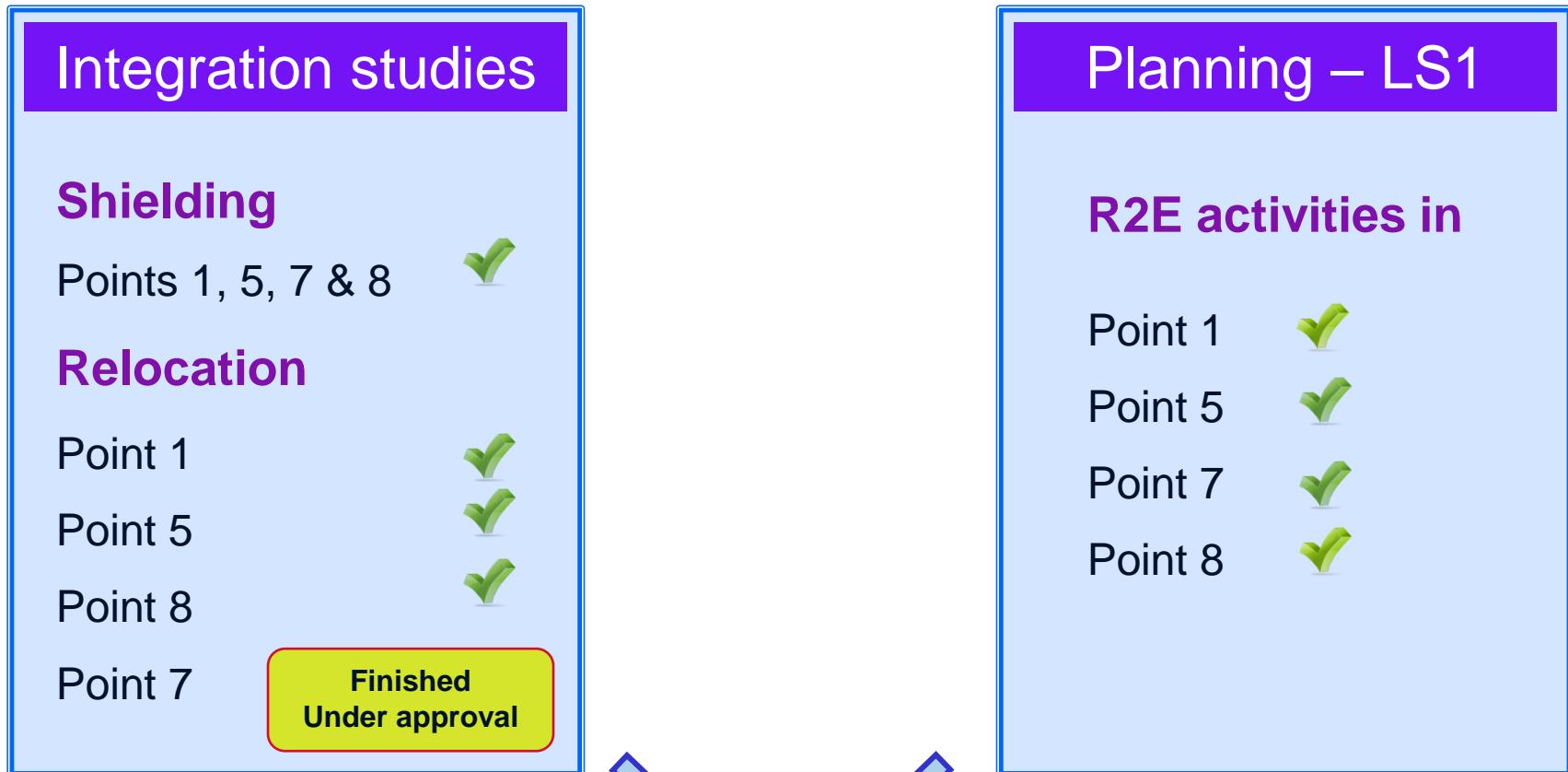
1. R2E shielding & relocation: status of activities
2. LS1 provisional schedule
3. Implementation & worksite organisation
4. Manpower request

Areas of the LS1 mitigation activities

Main critical areas today considered



Status of the mitigation activities



All integration & planning sequences are finished

Groups involved during LS1

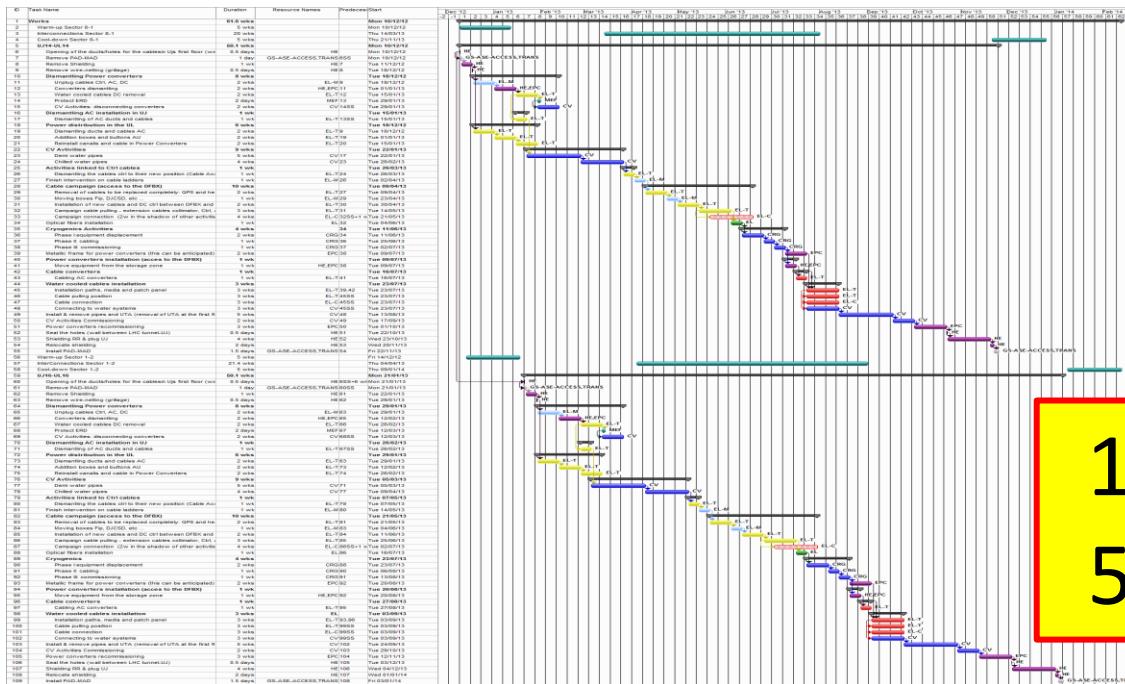
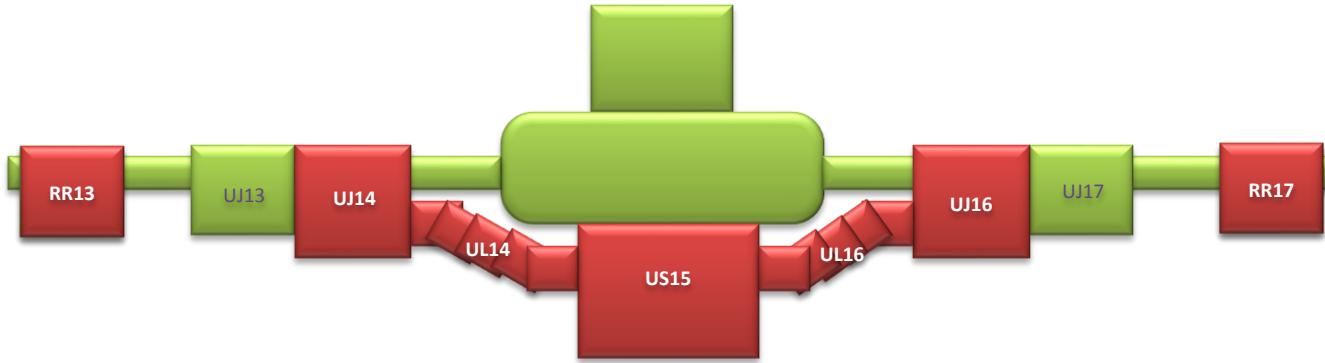
	Equipment / activity
BE/APB	survey eqpt.
BE/BI	BTV, BLM
BE/CO	timing & remote-reset WorldFip
DGS/RP	RAMSES
EN/CV	cooling/ventilation eqpt
EN/EL	electrical eqpt & cabling activity
EN/HE	eqpt. transport shielding inst.
EN/STI	collimator control eqpt
GS/ASE	fire/ODH access
GS/SE-CEP	duct activities
IT/CS	ethernet
TE/CRG	cryogenics eqpt
TE/EPC	power converters
TE/MPE	QPS* PIC* current leads heaters BIS WIC
TE/VSC	vacuum eqpt

15 groups
involved in the R2E
mitigation activities

R2E LS1 Provisional Schedule

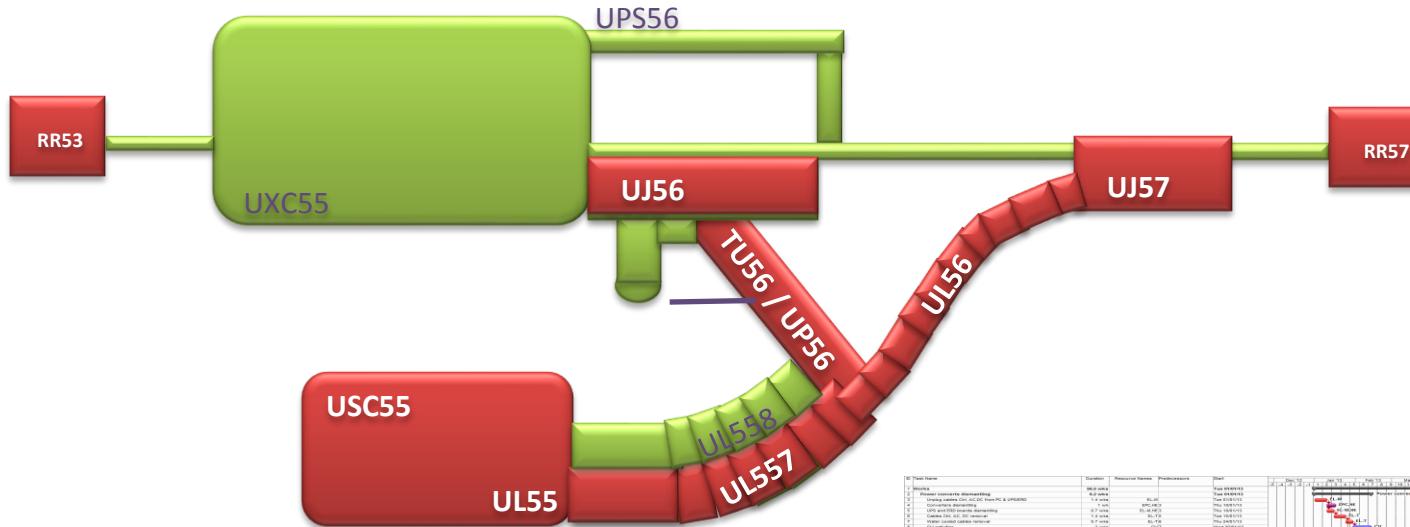
Work by M. Barberan (EN/MEF)

POINT 1

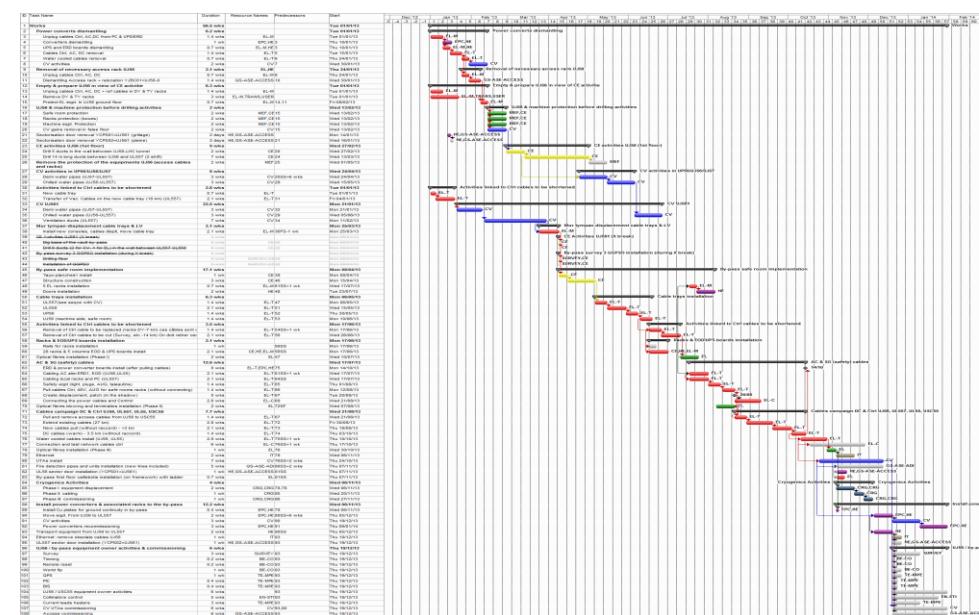


10 groups involved
56 weeks activities

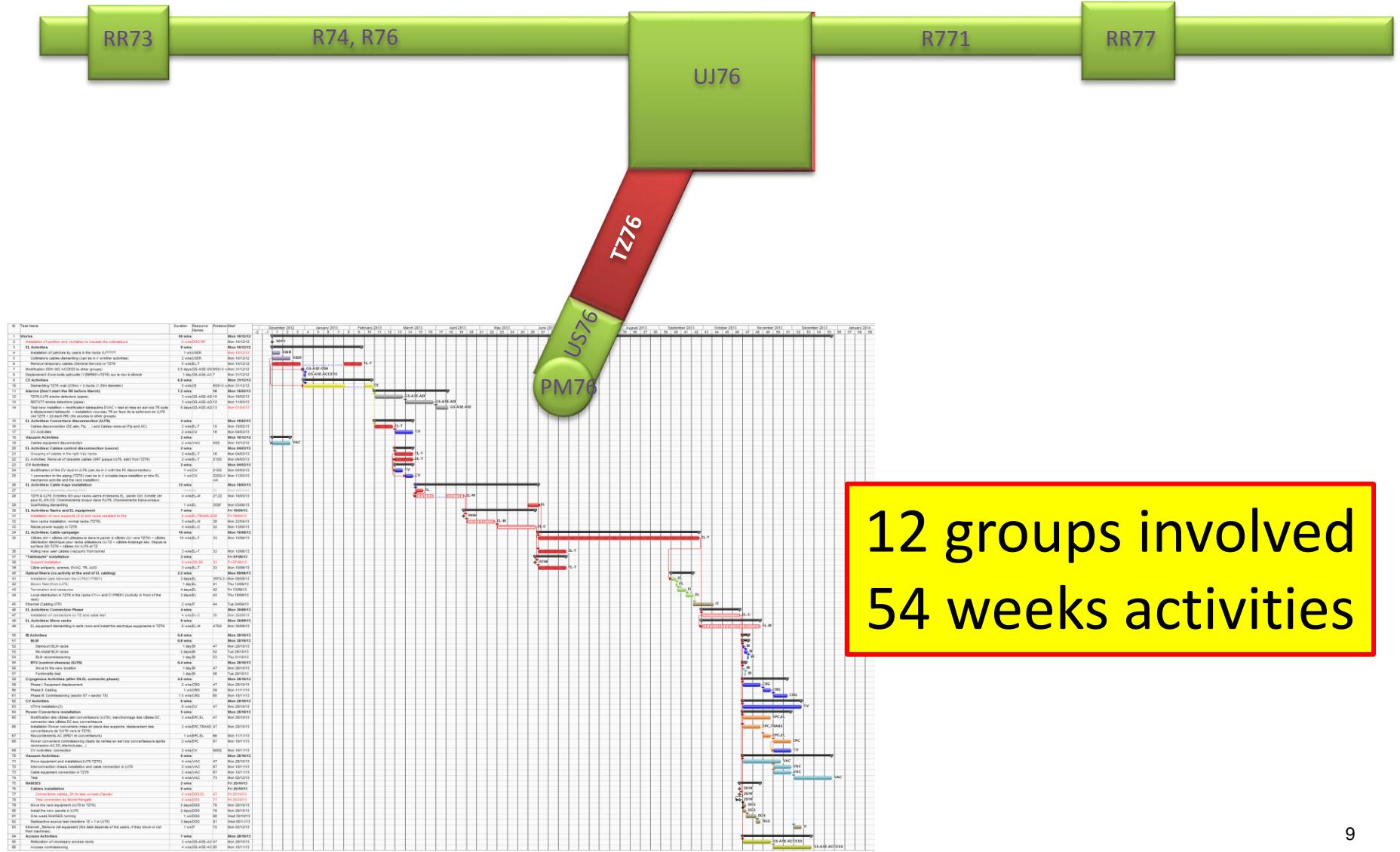
POINT 5



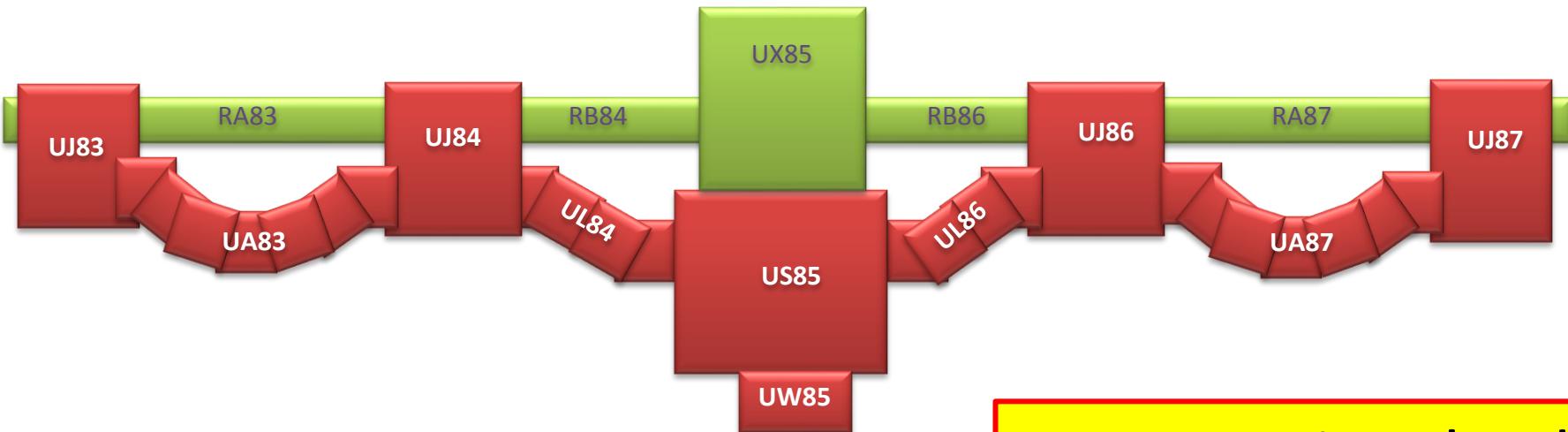
12 groups involved
57 weeks activities



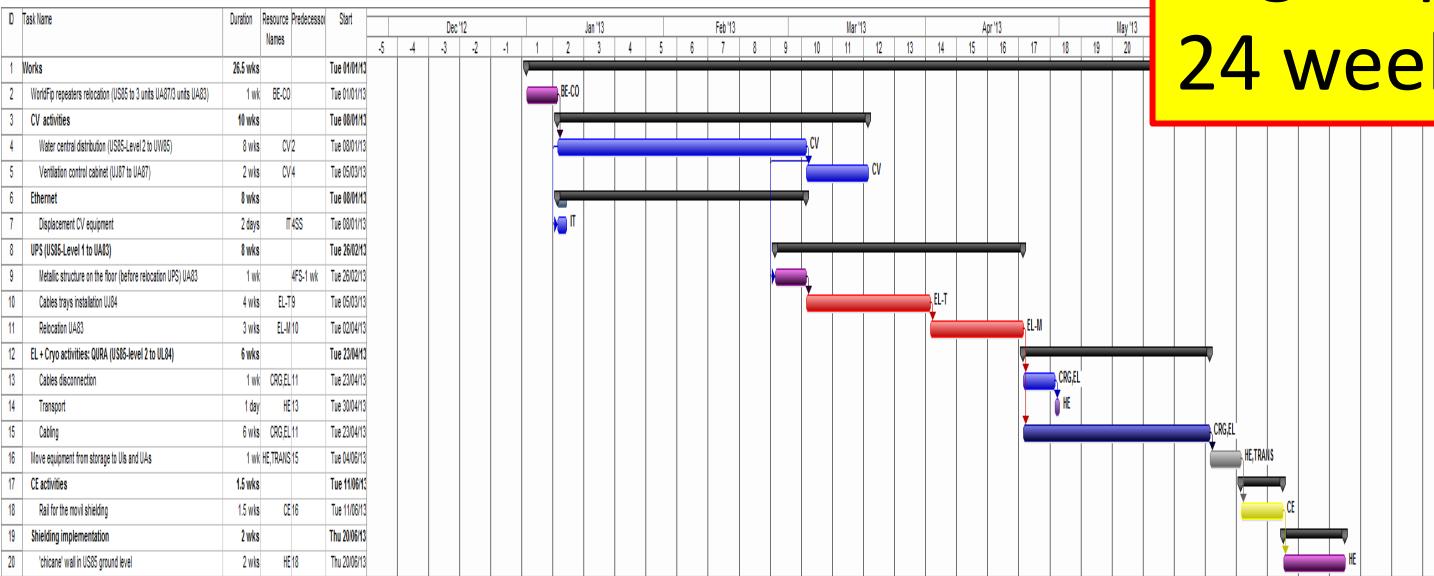
POINT 7



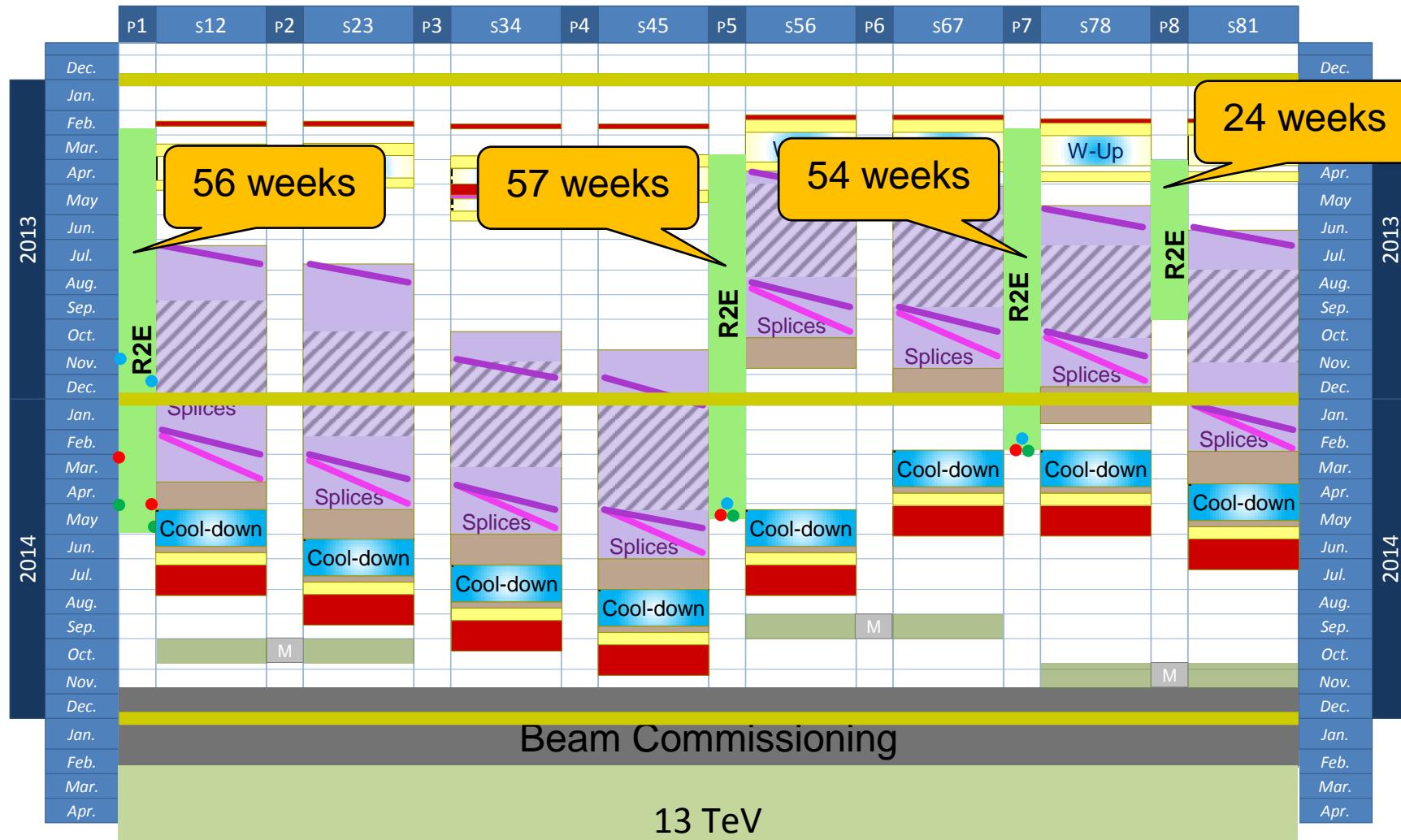
POINT 8



7 groups involved
24 weeks activities



R2E LS1 Provisional Schedule



Courtesy of K. Foraz

R2E relocation & shielding Web Site

The screenshot shows a web browser window titled "R2E Web Site". The address bar displays the URL: https://espace.cern.ch/MEFactivitiesforR2E/R2E_home/Home.aspx. The page content is for the "General Information" section of the "R2E shielding and relocation activities" site. The left sidebar has a red arrow pointing to the "Planning" link, which is highlighted with a red box. The main content area features a large "R2E" logo and the heading "General Information". A subtext states: "This site contains general information regarding R2E, the EN/MEF mandate for R2E and the participants of the "R2E shielding and relocation activities"- meetings." At the bottom right, there is a contact email: Dorothea.Pfeiffer@cern.ch.

https://espace.cern.ch/MEFactivitiesforR2E/R2E_home/Home.aspx

Implementation & worksite organisation

Implementation & worksite organisation

Organisation during the LS1 installation

Point coordinator
in charge

1. Day-to-day in-situ management & supervision

(rapidly react/solve problems of all nature as they occurred, direct contact with the groups supervisors, cleaning/ waste management)

2. Safety supervision

(sites managers to enforce safety and environment protection rules, 'VIC', follow the implementation of safety measures/procedures)

3. Integration: non conformities follow-up

(weekly reports, intermediate survey scans)

4. Material delivery & contracts: weekly follow – up

5. Planning: follow – up and adaptation

(detailed installation planning & critical path weekly updated, impact on/of the non R2E works)

6. Communicating

(periodical reviews of the activities, non conformities & planning)

Point coordinator
involved

Implementation & worksite organisation

Point coordinator activities

- In charge of one/two LHC Points (points 1 & 8, point 5, point 7) -> 3 persons needed
- Fluent in French (daily discussions in situ with firms personal)
- Before LS1:
 - Participation in R2E relocation meetings from September 2012 (Fridays 10h30-12h30, 2 meetings/month)
 - Visits in situ during TS3 (September) and Christmas break to get knowledge of the environment/ equipment to be relocated
 - be aware of the material delivery, storage, safety issues, installation procedures etc...
In other words....get knowledge of the work/activities
- During LS1:
 - see previous slide AND...
 - Daily organisation of in-situ status meeting with the group supervisors
 - Daily short report to Anne Laure (by phone)
 - Weekly report status to 'Friday meetings'

Manpower request

Ressources for the coordination & follow-up of the R2E mitigation activities

	2011 Manpower [FTE]	2012 Manpower [FTE]	LS1 Manpower [FTE]
Overall coordination – work package holder	0.8	0.8	0.8
Layout modifications and database management	0.1	0.1	0.1
Shielding (design, purchase, logistics)	0.5	0.25 (to 0.5)	0.25
Integration activities	2	1	0.5 to 1
Planning activities	0.2	0.2	0.2
Work supervisors in - situ			3



t.b.d.

Addendum

	Equipment / activity	Activity in Point 1	Activity in Point 4	Activity in Point 6	Activity in Point 5	Activity in Point 7	Activity in Point 8
BE/APB	survey eqpt.	-	-	-	✓	-	-
BE/BI	BTV, BLM	-	-	-	-	✓	-
BE/CO	timing & remote-reset WorldFip	✓ -	-	-	✓ ✓	✓ ✓	✓ ✓
DGS/RP	RAMSES	-	-	-	-	✓	-
EN/CV	cooling/ventilation eqpt	✓	-	-	✓	✓	✓
EN/EL	electrical eqpt & cabling activity	✓	✓	✓	✓	✓	✓
EN/HE	eqpt. transport shielding inst.	✓ ✓	-	-	✓ ✓	✓ done	✓ ✓
EN/STI	collimator control eqpt	✓	-	-	✓	-	-
GS/ASE	fire/ODH access	✓ ✓	-	-	✓ ✓	✓ ✓	done -
GS/SE-CE	duct activities	-	-	-	✓	✓	-
IT/CS	ethernet	✓	✓	✓	✓	✓	✓
TE/CRG	cryogenics eqpt	✓	✓	✓	✓	✓	✓
TE/EPC	power converters	✓	-	-	✓	✓	-
TE/MPE	QPS*	✓			✓		-
	PIC*	✓			✓		-
	current leads heaters	✓	-	-	✓	-	-
	BIS	-			✓		-
	WIC	-			-		✓
TE/VSC	vacuum eqpt	-	-	-	-	✓	-

Implementation & worksite organisation

Process towards LS1 installation

March 2012

integration and planning studies finished

(i.e. new locations= defined; activities= identified; works sequences= defined)



Planning/manpower

Merge the R2E LS1 planning
with the overall LHC LS1
planning



Estimate the real intervention
slots for each group



Finalise the manpower requests

Review November 2011

Finished by summer 2012

Material

All material requests identified



Contracts / material orders
launched vs delivery deadlines



Follow-up of the material
delivery



Documentation for installation

ECRs



Safety documentation
&
Installation procedur
&
Installation drawings

Review November 2011

Finished by Autumn 2012