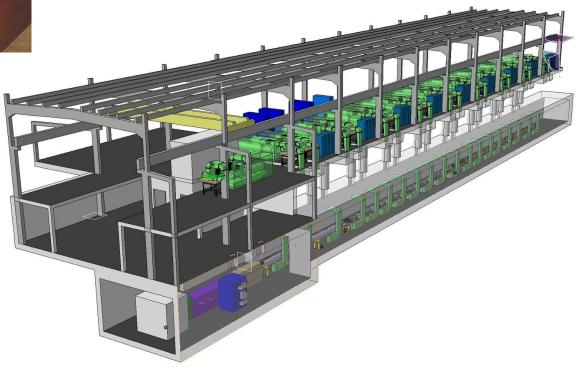


Linac4 Summary

CCDTL Meeting 14.06.2010



4 Progress in civil engineering

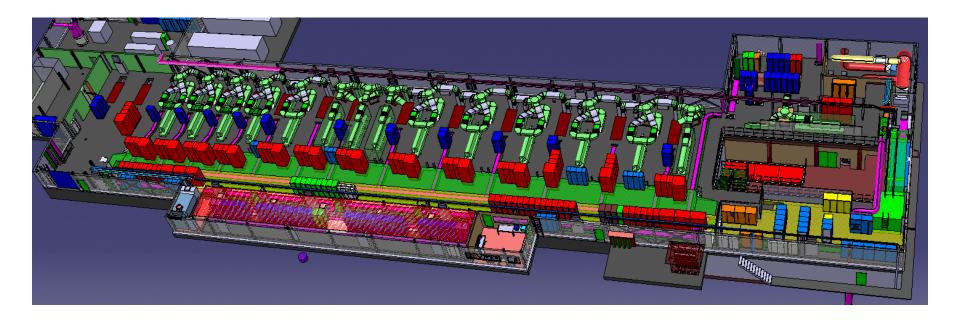










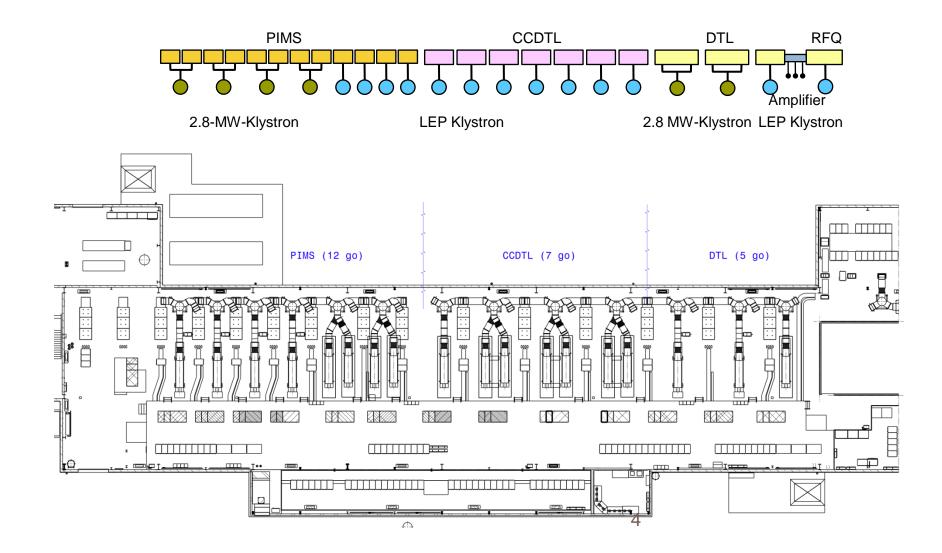


Integration almost completed:

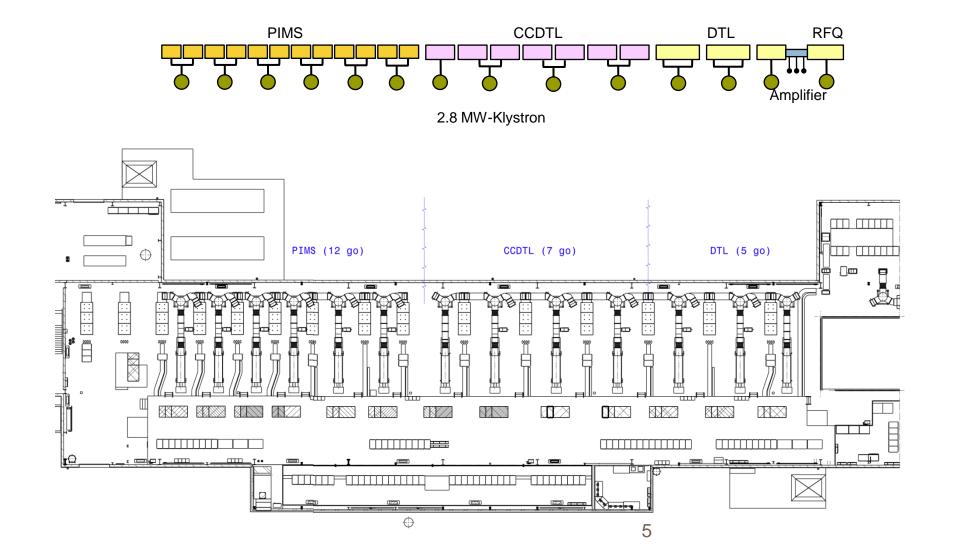
- Defined RF distribution layout (still open which CCDTL will remain on a single klystron)
- In the tunnel, added water manifolds and RF reference line.

- being finalised position of emergency equipment (emergency stops, smoke detectors, fire extinguishers, etc.)

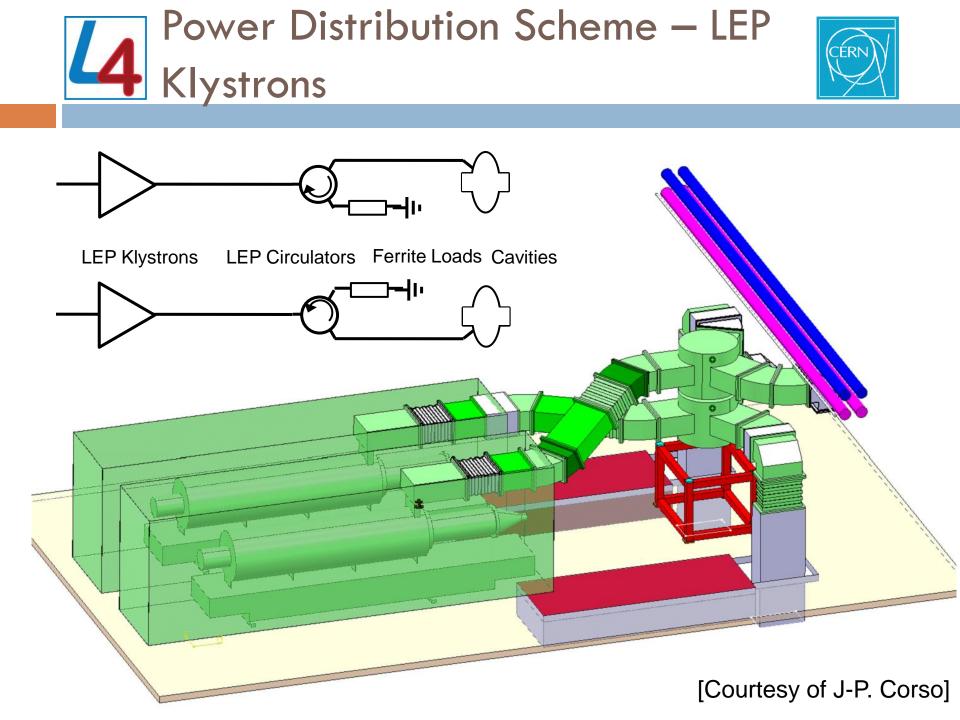






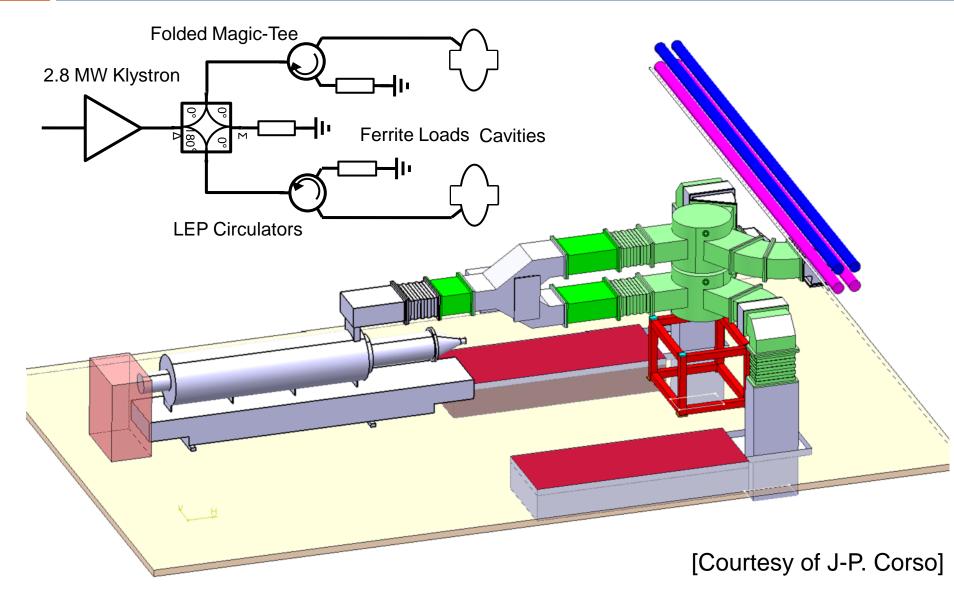


CERN







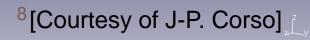


4 Waveguide Connections

- Determine:
 - Waveguide length to Cavities
 - Number and Type of Bends

Config for the

- Derive Phase Difference
- 3-Post Phase Shifter
 - Being built



4 Linac 4 – Status April 2010

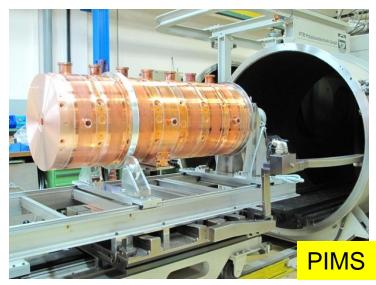


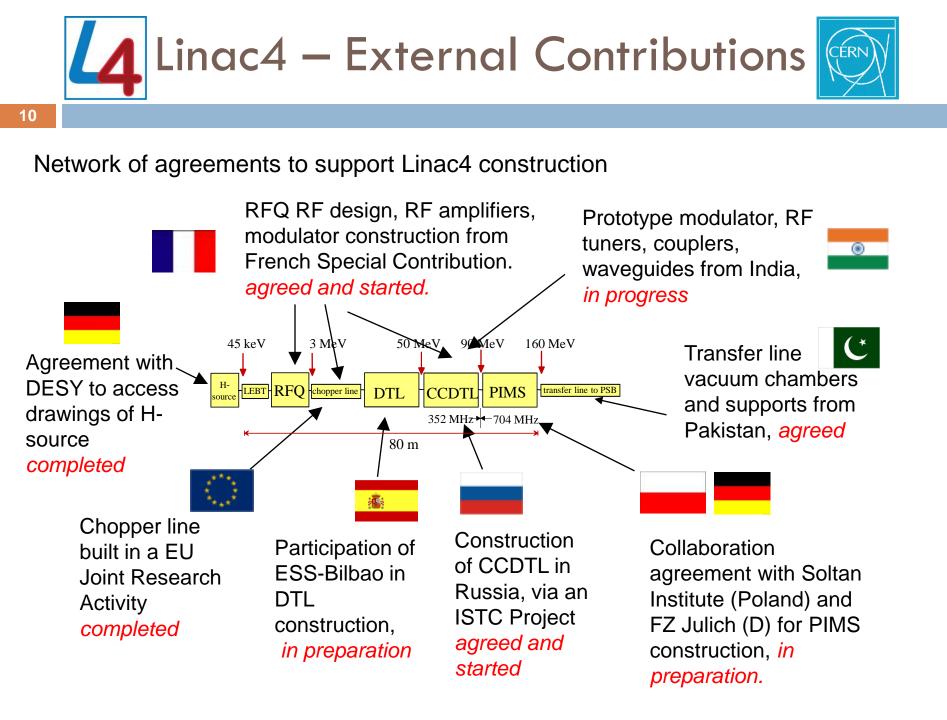
- Ion source assembled, improving intensity.
- RFQ in construction, 1st module (of 3)
 brazed.
- DTL prototype tested, machining of Drift Tubes will start this month in Spain. Tanks will be machined in industry from September.
- CCDTL

9

- PIMS prototype completed, being measured. High power tests in summer. Construction agreement with Poland-Germany being prepared.
- Design of dump, measurement lines and transfer line completed.
- Klystron contract signed (Thales + CPI).
- Orders for major components placed or in preparation.



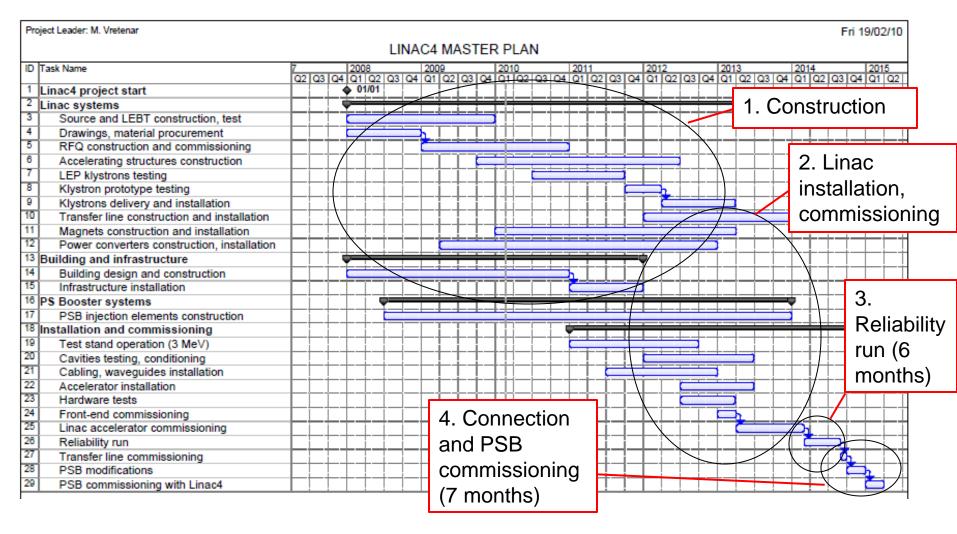




Linac4 master plan – 2010



11



GOAL: all usual beams available in the PSB at start-up 2015



12



<mark>10 m</mark>	onths?			
		8 months		
			8 months	
(in parallel)				
2013	2014	1	2015	2016
	(in pa		(in parallel)	8 months 8 months 8 months 8 months (in parallel)

Peak performance out of PS with Linac4





- □ LP-SPL and PS2 studies will stop at end 2011.
- HP-SPL will continue as a study aimed at neutrino physics. Material resources have been allocated, more problems for the manpower. Collaboration with ESS well established.
- Energy upgrade of the PS Booster to 2 GeV is now in the official CERN plan, as well as the SPS improvements for higher intensity.
- The CERN Council this Friday 18.6 will have to approve the new CERN plan...