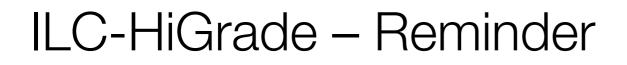


ILC-HiGrade 3rd Scientific Meeting

E.Elsen



ILC-HiGrade, 3rd Scientific Meeting, DESY, Nov 22, 2010





- ILC-HiGrade is the Preparatory Phase project of the European Commission to work towards the realisation of the **International Linear Collider**.
- The project is one of 30+ projects on the ESFRI list (via C.E.R.N. Council strategy) technically mature to be constructed.
- It addresses
 - a key technical component that affects the cost, i.e. SRF gradient with a goal of running the ILC at 31.5 MV/m
 - the formation of governance and financial structures in Europe that enable the realisation of the project. The European Commission recognises that this is a process with global implications

ILC-HiGrade – Brief Account of Reporting

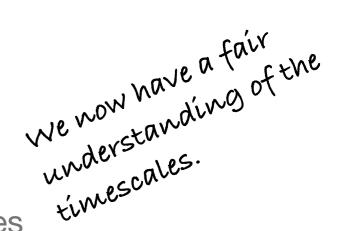
- Start of project Feb 1, 2008
- Kick-off meeting, Aug 29, 2008
- End of 1st Reporting Period: Jan 31, 2009
 - Report was submitted ... and accepted
 - Financial statement accepted after long debate
- End of 2nd Reporting Period: Jan 31, 2010
 - Report was submitted and processing held by delays in first report – expect answer soon
- End of 3rd Reporting Period: Jan 31, 2011
 - Proceeding according to established procedure;
 i.e. Work Package Reports required





ILC-HiGrade: Plans for Spending Profile

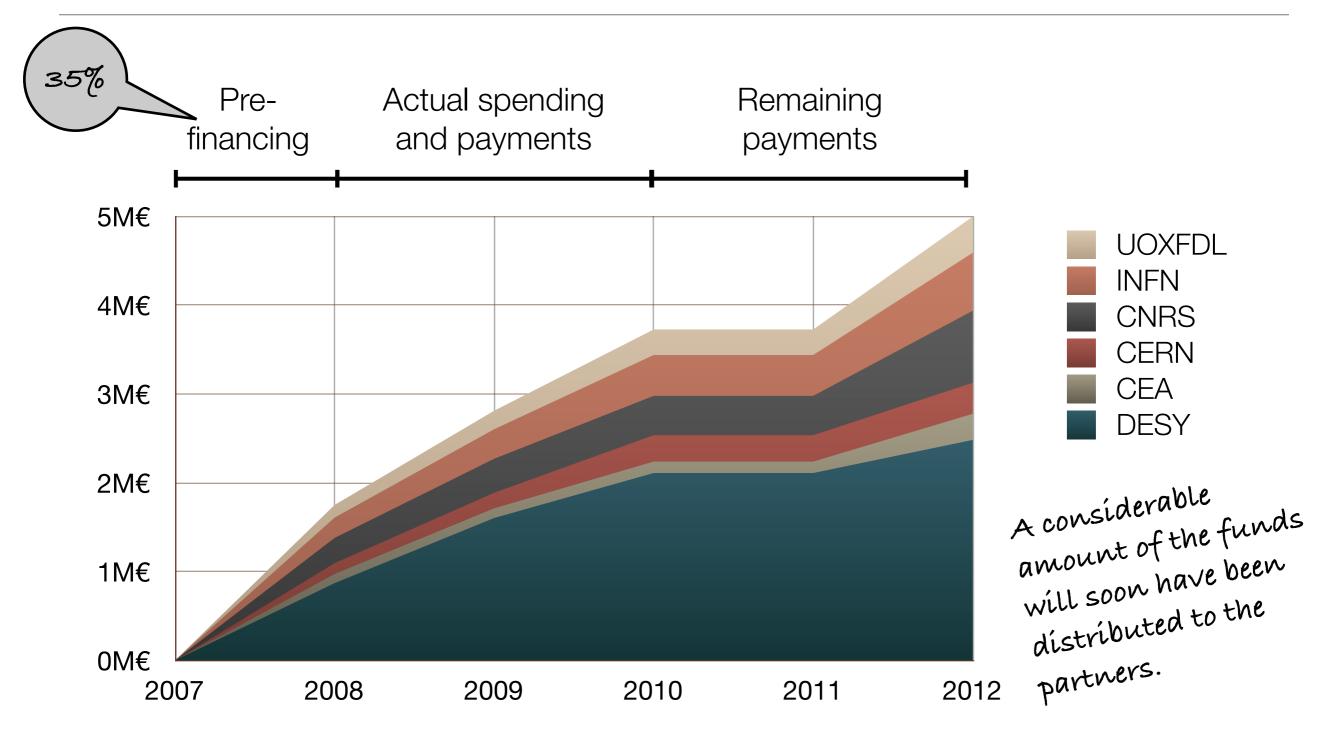
- Overall budget: 5 M€
 - Flat spending profile
 - Key investments in cavities à la European XFEL
 - purchase only towards the end of the contract
 - Consequently most of the expenditure went into preparation for the cavity purchase and quality control – but not everywhere



 Have to make sure that we are ready for the arrival of the cavities and the funds are properly used

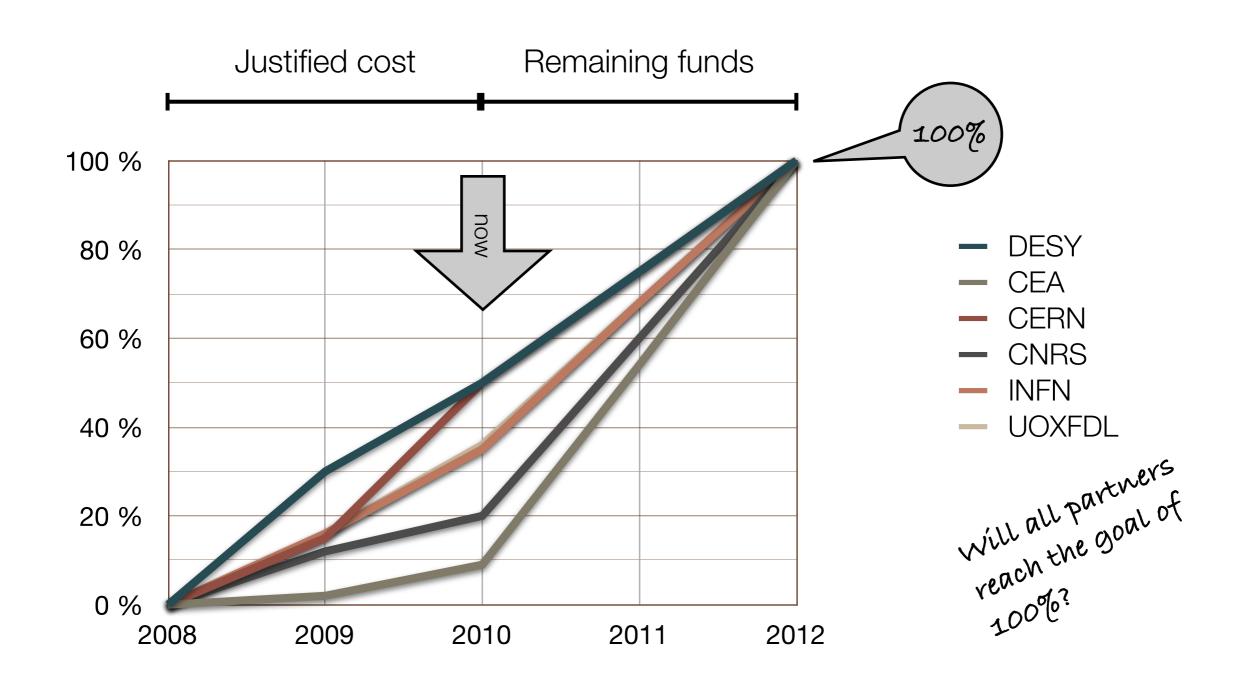


Financing Profile



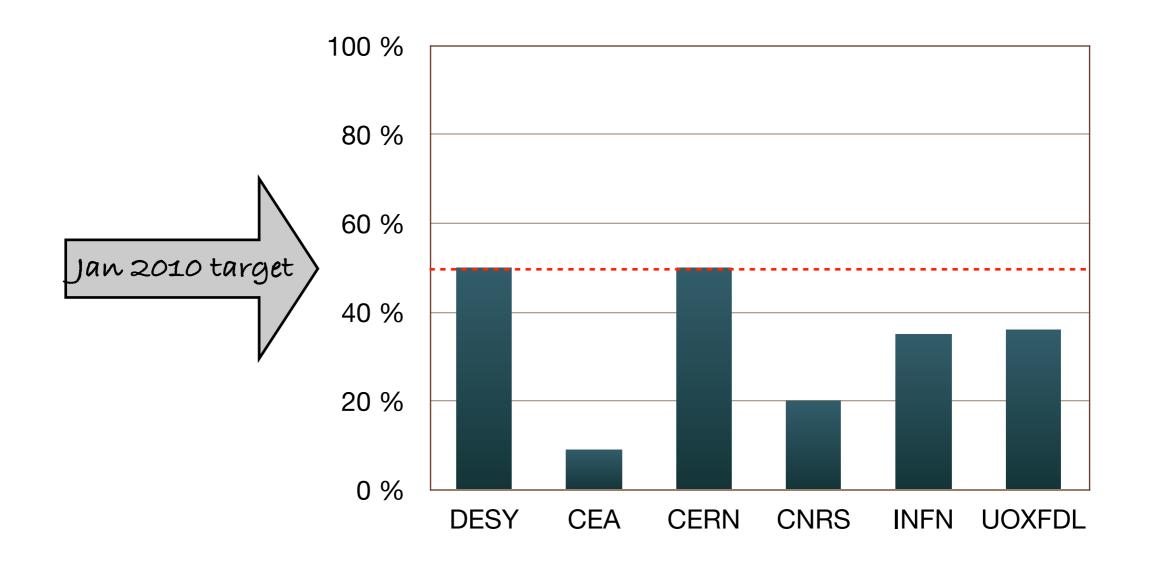


Fraction spent by Institute





Status after 2nd Reporting Period





- WP1: Management of the Consortium
- WP2: Integration and optimization of the European contribution within the global GDE organization as the ILC project moves through the GDE Engineering Design Phase
- WP3: Ensure that the characteristics and importance of the ILC, and its place within the world of science and research, is widely disseminated to the peoples of the European Union, and their governments
- WP4: Investigate features and develop possible schemes of governance for the ILC, exploiting expertise of CERN (LHC) and DESY (HERA) in international projects
- WP5: Prepare and investigate possible European sites for ILC construction
- WP6: Investigate and monitor the production process that yields high-gradient cavities with high yield. Establish the process in industry
- WP7: Optimization of the coupler conditioning at reduced cost
- WP8: Demonstrate suitability of tuner design in tests. Establish a cost-effective tuner production



Work	Work package	Type of	Lead	Person	Start	End	
Package	title	activity	beneficiary	months	month	month	Coordinator
No							
WP1	Management	MGT	1	48	1	48	DESY
WP2	Coordination of European GDE Activity	COORD	6	74	1	48	Oxford
WP3	Dissemination and Outreach	COORD	6	88	1	48	Oxford
WP4	Governance	SUPP	6	87	1	48	Oxford
WP5	ILC Siting in Europe	SUPP	1	42	1	48	DESY
WP6	Cavities	RTD	1	148	1	48	DESY
WP7	Couplers	RTD	4	54	1	48	LAL
WP8	Tuners	RTD	5	30	$\sqrt{1}$	48	Milan
	Total			571			
					7)		

Number will be larger



Work Packages – Change of Coordinators

Work Package	Title	Coordinator	Lead Institute	
WP1	Management	Elsen	DESY	
WP2	GDE Coordination	Foster N.Walker	UOXF.DL	
WP3	Dissemination	Foster P.Royole-Degieux. & B.Warmbein	UOXF.DL	
WP4	Governance	Foster	UOXF.DL	
WP5	Siting	Bialowons J Osborne	DESY	
WP6	Cavities	Aderhold L. Lilje	DESY	
WP7	Couplers	Lacroix	LAL	
WP8	Tuners	Pagani	INFN	

ILC-HiGrade and EC interest



- Preparatory Phase of a project refers to "preparing its realization"
 - The EC is encouraging stakeholders to participate and held a series of meetings
 - ECRI2010 Conference on RI in Barcelona
 - ILC-HiGrade represented in poster session





Next Preparatory Phase

• There is a new call Implementation of common solutions for a cluster of ESFRI infrastructures in the field of Physics and Analytical Facilities for which the proposals are due in a few days.

• It addresses primarily projects that are ready for implementation.

• led to **CRISP** proposal (coordinated by ESRF)

• ILC-HiGrade enters

• at a small scale (~100k€)

via synergy with XFEL cavity QA

Conclusion



- ILC-HiGrade plays a key role in preparing the ILC in Europe
 - Visibility in European Strategy which is to be revisited by 2012
 - ILC-HiGrade stands for the highest possible gradient in a cavity manufactured according to the European XFEL recipe
- This meeting will expose particularly
 - the progress in governance and outreach and include the aspects of European siting
 - the progress in SRF
- We will have to develop the mechanisms of reaching that goal beyond the duration of ILC-HiGrade; the project ends in January 2012