

The next steps – focusing points

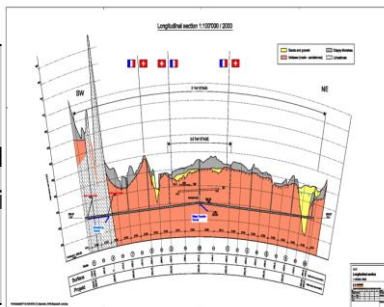
In order to achieve the overall goal for 2016 the follow four primary objectives for 2011—16 can defined:

These are to be addressed by activities (studies, working groups, task forces) or work-pac developments, prototyping and tests of single components or larger systems at various p

Define the scope, strategy and cost of the project implementation.

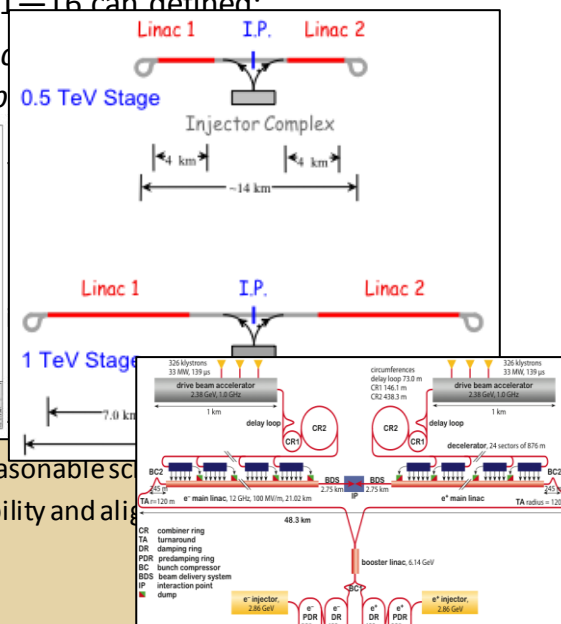
Main input:

- The evolution of the physics findings at LHC and other relevant d
- Findings from the CDR and further studies, in particular concerni
implementation.
- A Governance Model as developed with partners.



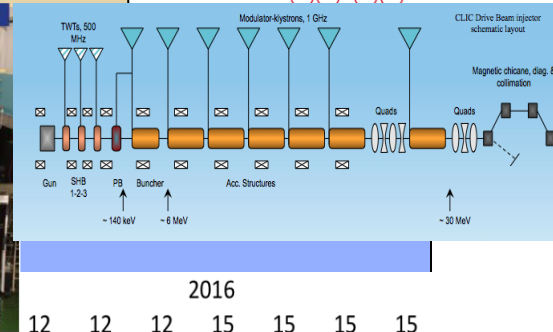
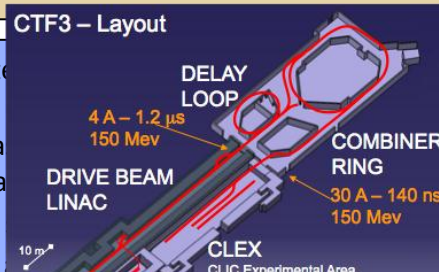
Define and keep an up-to-date optimized overall baseline design that can achieve the scope within a reasonable scope

- Beyond beam line design, the energy and luminosity of the machine, key studies will address stability and alignment, phasing, stray fields and dynamic vacuum including collective effects.
- Other studies will address failure modes and operation issues.

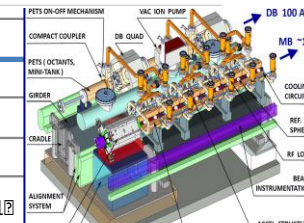
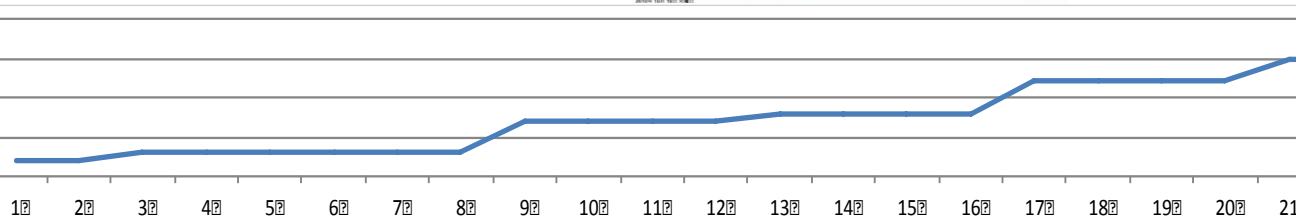
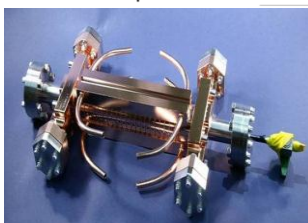
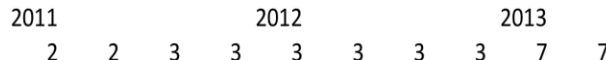


Identify and carry out system to the project implementation.

- The priorities are the mea stability, RF power genera (other system tests to be (technical work-packages



number of rf ports





Work-packages

		Name	WP Holder
General	CLIC-001	CLIC General	S. Stupnes
Parameters and design Daniel Schulte	BPH-BASE BPH-SIM BPH-FEED BPH-BCKG BPH-POL BPH-MP BPH-MDI BPH-SRC E BPH-SRC P BPH-DR BPH-RTML BPH-ML BPH-BDS BPH-DRV	Integrated Baseline Design and Parameters Integrated Modelling and Performance Studies Feedback Background Polarization Machine Protection & Operational Scenarios Machine-Detector Interface (MDI) activities Main beam source, e- Main beam source, e+ Damping Rings Ring-To-Main-Linac Main Linac - Two-Beam Acceleration Deam Delivery System Drive Beam Complex	D. Schulte A. Latina D. Schulte (interim) D. Schulte (interim) - M. Jonker L. Gatignon S. Doebert Y. Papaphilippou A. Latina D. Schulte (placeholder) R. Tomas B. Jeanneret
Experimental verification Roberto Corsini	CTF3-001 CTF3-002 CTF3-003 CTF3-004 CLIC-001 BTS-001 BTS-002	CTF3 Consolidation & Upgrades Drive Beam phase feed-forward and feedbacks TBL+, X-band high power RF production & structure testing Two-Beam module string, test with beam CLIC 0 drive-beam front end facility (including Photoinjector option) Accelerator Beam System Tests (ATF, Damping Rings, FACET,...) Sources Beam System Tests	F. Tecker P. Skowronski S. Doebert - S. Doebert R. Tomas -
Technical Developments Hermann Schmickler	CTC-001 CTC-002 CTC-003 CTC-004 CTC-005 CTC-006 CTC-008 CTC-011 CTC-012 CTC-013 CTC-014 CTC-015 CTC-016 CTC-017	DR SC Wiggler Survey & Alignment Quad Stability Two-Beam module development Warm Magnet Prototypes Beam Instrumentation Beam Disposal (post-collision line & dumps) Controls RF Systems (1 GHz klystrons & DB cavities, DR RF) Powering (Modulators, magnet converters) Vacuum Systems Magnetic stray Fields Measurements DR Extraction System Creation of an "In-House" TBA Production Facility	P. Ferracin H. Mainaud K. Artoos G. Riddone M. Modena T. Lefevre E. Gschwendtner M. Draper E. Jensen (placeholder) S. Pittet C. Garion S. Russenschuck M. Barnes F. Bertinelli (placeholder)
X-band Technologies Walter Wuensch	RF-DESIGN RF-XPROD RF-XTESTING RF-XTESTFAC RF-R&D	X-band Rf structure Design X-band Rf structure Production X-band Rf structure High Power Testing Creation and Operation of x-band High power Testing Facilities Basic High Gradient R&D	A. Grudjev, I. Syratcev G. Riddone S. Doebert E. Jensen (placeholder) S. Calatroni
Implementation studies Philippe Lebrun		Civil Engineering & Services Project Implementation Studies	J. Osborne P. Lebrun



Timetable

Registration

Registration Form

List of registrants

Portable Computers
registration

CERN regular shuttle
timetable

Thursday, November 3, 2011

09:00 - 10:00	Work-package planning plenary session Location: Council Chamber Material: All workpackages with names of responsible
10:00 - 17:00	Implementation Studies - Civil Engineering & Services - Project Implementation Studies Convenor: Philippe Lebrun (CERN) Material: Work-packages
10:00 - 17:00	X-band Technologies - X-band RF structure Design (RF-DESIGN) - X-band RF structure Production (RF-XPROC) - X-band RF structure High Power Testing (RF-XTESTING) - Creation and Operation of X-band High power Testing Facilities (RF-XTESTFAC) - Basic High-Gradient R&D (RF-R&D) Convenor: Walter Wuensch (CERN) Material: Work-packages
10:00 - 17:00	Technical Developments - DR SC wigglers (CTC-001) - Survey & Alignment (CTC-002) - Quad stability (CTC-003) - Two-Beam module development (CTC-004) - Warm Magnet Prototypes (CTC-005) - Beam Instrumentation (CTC-006) - Beam Disposal (post-collision line & dumps) (CTC-007) - Controls (CTC-008) - RF Systems (10Hz klystrons & DB cavities, DR RF) (CTC-009) - Powering (Modulators, magnets converters) (CTC-013) - Vacuum Systems (CTC-014) - Magnetic stray Fields Measurements (CTC-015) - DR Extraction System (CTC-016) - Creation of an "InHouse2 TBA Production Facility (CTC-017) Convenor: Dr. Hermann Schmickler (CERN) Material: Work-packages
10:00 - 17:00	Experimental verification - CTF3 Consolidation & Upgrades (CTF3-001) - Drive Beam phase feed-forward and feedbacks (CTF3-002) - TBL - X-band high power RF production & structure testing (CTF3-003) - Two-Beam module string, test with beam (CTF3-004) - CLIC 0 drive-beam front end facility (including Photoinjector option) (CLIC0-001) - Accelerator Beam Systems Tests (ATF, Damping Rings, FACET, etc.) (BTS-001) - Sources Beam System Tests (BTS-002) Convenor: Roberto Corsini (CERN) Material: Work-packages
10:00 - 17:00	Parameters and Design - Integrated Baseline Design and Parameters (BPH-BASE) - Integrated Modeling and Performance Studies (BPH-SIM) - Feedback (BPH-FEED) - Background (BPH-SCKG) - Polarization (BPH-POL) - Machine Protection & Operational Scenarios (BPH-MP) - Machine Detector Interface (MDI) activities (BPH-MDI) - Main beam source, e- (BPH- SRC E) - Main beam source, e+ (BPH- SRC P) - Damping Rings (BPH-DR) - Ring-To-Main-Linac (BPH-RTML) - Main Linac- Two-Beam Acceleration (BPH-ML) - Beam Delivery System (BPH-BDS) - Drive Beam Complex (BPH-DRV) Convenor: Daniel Schulte (CERN) Material: Work-packages

Friday, November 4, 2011

09:00 - 10:30	Plenary session (Summary per activity) 1h30' (BE Auditorium Meyrin)
10:30 - 11:00	Coffee Break
11:00 - 12:30	Plenary Session (Summary per activity) 1h30' (BE Auditorium Meyrin)
12:30 - 13:30	Lunch
13:30 - 16:30	Collaboration Board meeting See corresponding page on Indico: https://indico.cern.ch/conferenceDisplay.py?confid=156026 Convenor: Ken Peach (University of Oxford (GB)) Material: CB agenda

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ber 2011 18:00

<https://indico.cern.ch/conferenceDisplay.py?confid=156004>



Example of WP

WP: Production- Workpackage leader: G.Riddone		Purpose/Objectives/Goals			Deliverables (incl. approx. resource estimate)		Schedule
Task 1: Construction of baseline accelerating structures	Test structures for statistical and long term high-power testing with all damping features and high power couplers (for SATS and Test modules in CLEX) è we have to make sure that we count all the structures. including those for the CLEX modules				3 generations of test structures, total quantity 48, total cost ~6 MCHF.		12 in 2013, 12 in 2014, 12 in 2015, 12 in 2016
Task 2: Supply of small series development prototypes and/or medium power test structures	Test structures for full features (4), wakefield monitor equipped (4), optimized high-power design (8), different machine energy optima (4), optimized process (8), develop DDS (2) and choke (2), compressor (2)				Typically 12 variants in series of 4 structures each, total quantity 40, total cost ~6 MCHF.		8 structures per year
Task 3: Supply baseline PETS (note: most PETS fabrication accounted elsewhere, e.g. TBL)	PETS for statistical and long term high-power testing				4 PETS, total cost 0.2 MCHF.		2 in 2013, 1 in 2014, 1 in 2015
Task 4: PETS for ON/OFF testing	PETS for on/ off test				2 generations 0.1 MCHF		
Task 5: Alternative fabrication method	Explore alternative fabrication methods				Structure fabricated with alternative procedure		2012-2016
Task 6: Baseline to pre-series development	Take the fully tested x band rf Systems and evolve their production techniques to an industrialized process						2015 onwards
Additional information or comments: could be link to more information							
Link to other WPs/activities: This WP is integrated to WPs CTF3-002, CTF3-003 and CTF3-004							
Key partners: already engaged (CEA-IRFU, HIP, Dubna-JINR, Greece, Spain) or potential (Greece, Pakistan)							
Estimated resources (needed):	2012	2013	2014	2015	2016	Total	
Material (kCHF)	3000	3000	3100	3300	3400	15800	
Personnel (FTE)	9	9	11	12	12	53	
Resource comment:							



Information needed (minimum)

Collaborators: general information and resource estimate									
Institute:	??? Institute of Physics								
Main contacts:	Names of resp. at your institute								
CERN responsible:	Walter Wuensch (in this example), and/or name of work-package leader								
Activity/work package/task:	X-band rf/high-gradient/task 2 fundamental studies (in this example)								
Technical subject:	Fundamental breakdown studies (in this example)								
Working arrangement:	Independent group working in ???, PhD student at CERN, frequent visits and common workshops, hardware at home, testing at CER, etc .. (to be detailed in discussions)								
Funding status:	Have secured funds 2012-13, applying for 2014-15								
Formal agreement:	CFT3 collaboration agreement, k-contract, protocol(annex) to CERN co-operation agreement, etc. Valid until April 2012, expired								
Expected resources		2012	2013	2014	2015	2016	Comment		
	Material budget [CHF at current rate]	50	40	110	110	80	whatever		
	Manpower at institute [FTEyears]	3.5	3.5	3.5	3.5	3.5	2 phd.students, 0.5 prof, 1 engineer		
	Manpower at CERN [FTEyears]	1	1	1	1	1	1 phd student		



14thCLIC/CTF3 Collaboration Board

chaired by Ken Peach (JAI)

Friday, November 4, 2011 from 13:30 to 16:30 (Europe/Zurich)
at CERN (To be defined)

Description

Participants P. D. Gupta; Kenneth Osterberg; Lenny Rivkin; Purushottam Shrivastava

Registration Want to participate? [Apply here](#)

Friday, November 4, 2011

- | | |
|---------------|---|
| 13:30 - 13:35 | Introduction by chairman 5'
Speaker: Ken Peach (University of Oxford (GB)) |
| 13:35 - 13:40 | Approval of minutes of previous meeting 5'
Speaker: Ken Peach (University of Oxford (GB)) |
| 13:40 - 13:45 | Matters arising 5'
Speaker: Ken Peach (University of Oxford (GB)) |
| 13:45 - 14:15 | Discussion on the CCB chair mandate, re-launch of CCB chair election procedure 30' |
| 14:15 - 14:45 | Update on the future LC organization 30'
Speaker: Steinar Stapnes (CERN) |
| 14:45 - 15:45 | WPs: summary of workshop, future plans and "Tour de Table" 1h0' |
| 15:45 - 16:15 | Status of the CDR 30'
Speakers: Dr. Hermann Schmickler (CERN), Lucie Linssen (CERN) |
| 16:15 - 16:30 | AOB 15' |