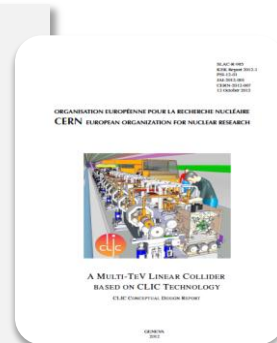


CLIC project 2012

The Conceptual Design Report for CLIC completed – presented in SPC, ECFA and numerous meetings and conferences, also providing basis for input to the European Strategy discussions

Volume 1: The CLIC accelerator studies (<https://edms.cern.ch/document/1234244/>)

- Feasibility studies and Performance studies for the accelerator implementation; demonstrations of drive beam performance, two beam acceleration, breakdown and gradient of RF components, luminosity performance (emittances, alignment and stability), CE and site



Dear all,

In order to get a printed copy of the report "A Multi-TeV Linear Collider based on CLIC technology" (CERN report 2012-007), I remind you that you should fill in, **before 20 December**, the form available here: <https://indico.cern.ch/confRegistrationFormDisplay.py/display?confId=206903>

With kind regards,

Alexia

- including timelines, schedules, a complete costing, power estimates and describing a possible staged implementation



2013:

Workplan for 2012-2016 well underway – most activities started. **CLIC workshop in January important.**

Resource situation:

- 2012-2013 as foreseen in 2011 when planning started
- Pressure at CERN from LHC (ultimately higher priority) and other ideas (priorities not always defined), difficulties for both material and personnel
- For collaborators also difficult in many cases to find local support to participate in a satisfactory way
- Important to have continued R&D support in European Strategy
- Important to continue to build collaborations between groups inside the CLIC project and towards users of similar technologies



Collaborators:



Signed new members:

The Hebrew University-Jerusalem (Israel-new)

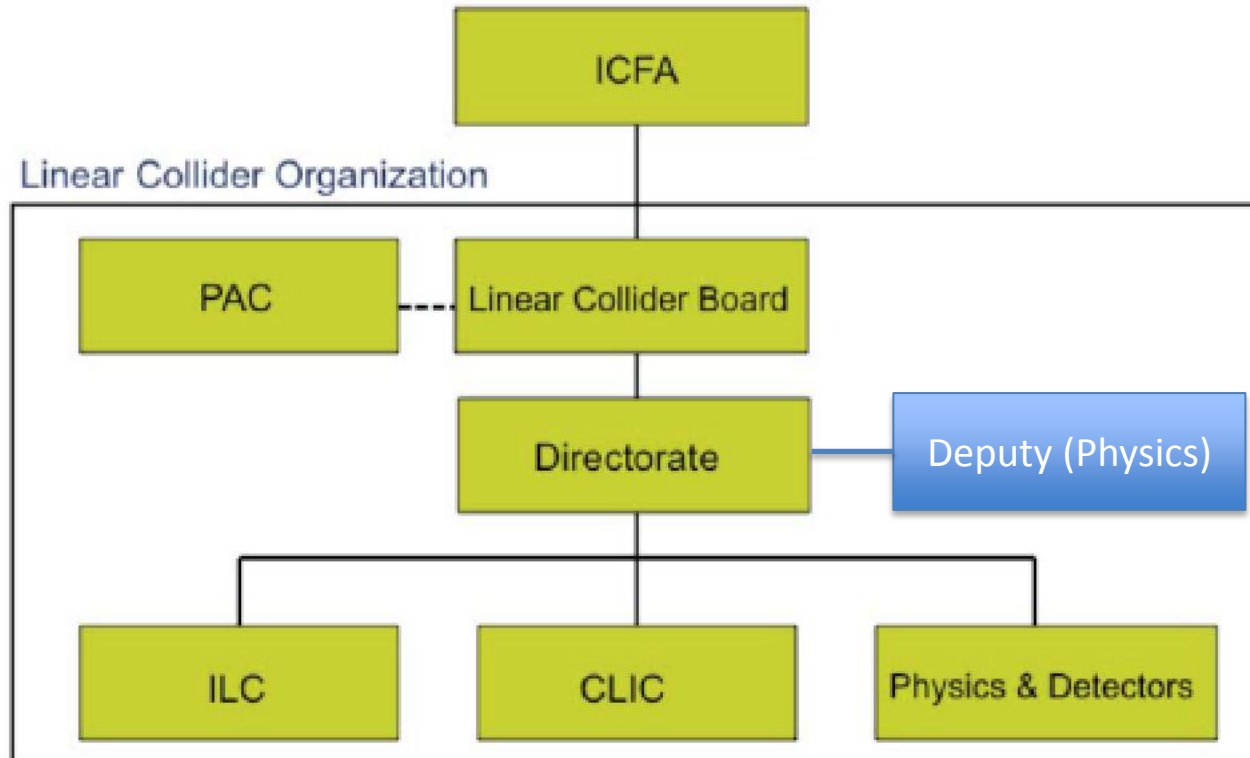
Vinca Institute Belgrade (Serbia)

In preparation:

Tartu (Estonia-new), Alba (Spain), Sandia National Lab (US), METAS (Switzerland)

KVI Groeningen (the Netherlands) – not clear

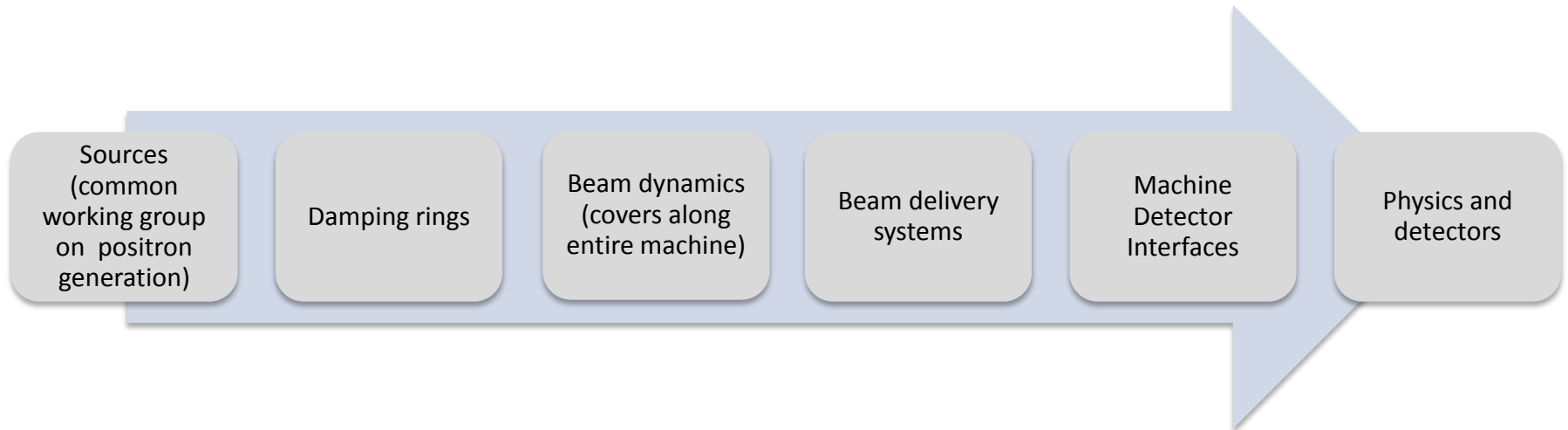
Numerous updates and changes



LCB European Members confirmed in PECFA – CERN DG,
 Dubna DG, DESY ReDir, LeDiberder and Rivkin
 Detector and Physics not converged

- Strongly support the Japanese initiative to construct a linear collider as a staged project in Japan
- Prepare CLIC machine and detectors as an option for a future high-energy linear collider at CERN
- Further improve collaboration between CLIC and ILC machine experts
- Move towards a “more normal” structure of collaboration in the detector community to prepare for the construction of two high-performance detectors
- Question: Can this work (physics, resources, timescales, community, as roadmap) and be done coherently ?

Many common problems and solutions even though the basic core acceleration methods differ, and the parameters to be achieved by the systems below differ – in some cases leading to different solutions



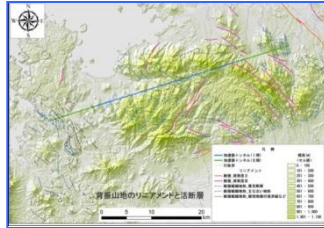
In addition common working groups on: Cost and Schedule, Civil Engineering and Conventional Facilities – and a General Issues Working Group

Three general actions:

- Move (for some of these groups) towards more genuine combined working group in order to optimize resources and maximize exchange of experiences
- Further development of common work in the area of Detector and Physics
- Increased help across the borders of ILC/CLIC wrt implementation planning for the two projects – inside a common overall organization

Japanese Sites

- Japanese Mountainous Sites -



SEFURI

Site-B



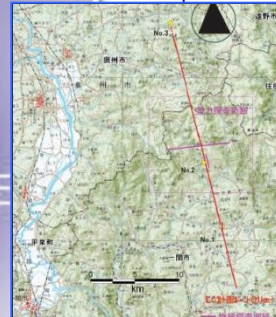
KYUSHU district

Site-A

KITAKAMI



TOHOKU dist



Tokyo

- GDE-CFS group visited two sites, Oct., 2011.
- GDE EC visit in Jan. 2012.



ILC Plan in Japan

(After the discovery of a Higgs-like particle)

- Japanese HEP community proposes to host ILC based on the “staging scenario” to the Japanese Government.
 - ILC starts as a 250GeV Higgs factory, and will evolve to a 500GeV machine.
 - Technical extendability to 1TeV is to be preserved.
- It is assumed that one half of the cost of the 500GeV machine is to be covered by Japanese Government. However, the share has to be referred to inter-governmental negotiation.