

IDT-WG2 report

KEK / IDT-WG2 Shin MICHIZONO (KEK)

- ILC Cost Update
- LC Vision meeting (Jan. 8-10): <https://indico.cern.ch/event/1471891/>
 - I reported ILC Technology Network on Jan.9.
- European Strategy Input
- Next IDT-WG2: I propose March 4 (6 weeks later)

ILC Cost Update

Review of the updated ILC cost

The ILC cost was estimated at the time of the Technical Design Report in 2013 for the baseline machine at 500 GeV centre of mass energy¹ and in 2018 for 250 GeV centre of mass energy² as a staged machine. In May 2024, the Executive Board (EB) of the ILC International Development Team (IDT) decided to update the ILC cost with a goal to complete the work by the end of January 2025.

The updated cost shall be reviewed by an external review committee composed of

- Reinhard Brinkmann (DESY)
- Jie Gao (IHEP)
- Philippe Lebrun (CERN)
- Norbert Holtkamp (SLAC), Observer
- Tor Raubenheimer (SLAC)
- Lenny Rivkin (EPFL and PSI), *Chair*.

<https://linearcollider.org/wp-content/uploads/2024/09/IDT-EB-2024-001.pdf>

The committee is requested to provide a report to the IDT-EB, based on the information presented by the ILC Cost-update Taskforce, on the following three points:

1. Appropriateness of the method applied for the cost estimate,
2. Quality and amount of information,
3. Validity of the estimated costs and uncertainties.

To facilitate the review process, a remote introductory meeting of the review committee will be held in early November 2024, where the procedure being applied in the cost update process will be explained. The main review meeting, in hybrid mode at CERN, will be held on 19th and 20th of December 2024, and submission of a written report by the committee by around January 17th 2025 is desired.

European Strategy Input

Status of the IDT

-Activities of the International Development Team (IDT)-
LC Vision Community Event 2025
Geneva, Switzerland, 8-10 January 2025

Tatsuya Nakada
EPFL, Switzerland
Chair of the IDT Executive Board

4) IDT work Towards the European Strategy

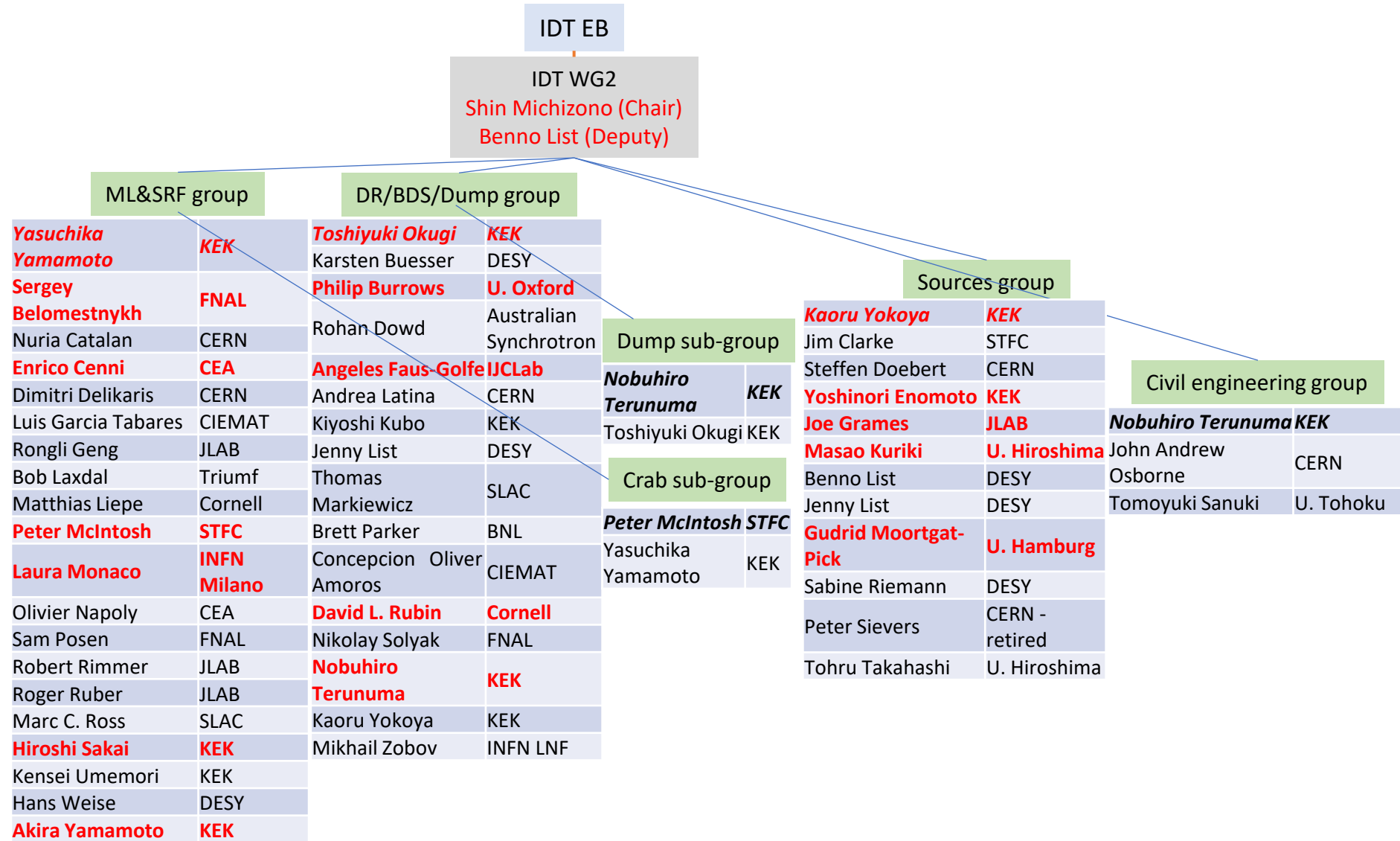
The ILC 250 GeV cost was estimated in 2017. IDT recognises the needs of an updated cost for the European Strategy Discussion. **The updated cost is now being reviewed by an international experts.** → Detail p 10 notation by H. Yamamoto

The IDT will prepare a document (20 p) to be submitted with the following contents:

- 1) General introduction
- 2) Status of the ITN work → Prepare a draft with the help of WG2 steering members.
- 3) Updated ILC cost for the 2024 cost.
- 4) Japanese community plan for the ILC (in collaboration with ILC-Japan) and some documents for detail and continues to provide necessary information in the strategy discussion process.

The IDT will follow the LC vision discussion where WG2 and WG3 activities will naturally provide inputs.

IDT-WG2



Those in red are Steering members.