

# Report from



Kiyotomo Kawagoe  
March 9, 2022

Most of slides were shamelessly taken from Ties's presentation at general ILD meetings

# ILD-ET stand on recent developments

Dear ILD member

All of us have followed the dramatic events in the Ukraine over the last few days. We are shocked by the events and the totally unnecessary and unprovoked war. Our thoughts are with all the people who suffer from this war.

In ILD we work together peacefully with people from many different countries. The impact these events will have on science and on our international model of doing science together can only be imagined at this moment.

The ILD ET

Ties Behnke/ Karsten Buesser/ Jean Claude Brient/ Keisuke Fujii/ Mary-Cruz Fouz/ Frank Gaede/ Daniel Jeans/ Kiyotomo Kawagoe/ Jenny List/ Wataro Ootani/ Graham Wilson/ Filip Zarnecki

# ILD: a collaboration



DESY and German universities are ordered to freeze ties with Russian institutes immediately  
No access to DESY and its services (computing, network, etc)  
No publication is allowed with co-authors of Russian institutes  
We know that many Russian colleagues are against the war  
Hope to keep connection with individual researchers

# CERN council yesterday (March 8, 2022)

<https://home.cern/solidarity-ukraine>

The main points of the Council's Resolution are:

- the strong condemnation of Russia's invasion of Ukraine,
- that Russia's Observer status to the Council is suspended
- and that new collaborations with Russian institutes will not be undertaken.

Collaboration between CERN and the Russian scientific community on ongoing projects is maintained, for the time being

# ILD: a collaboration



- ILD as a collaboration is functioning (so far)
- Great work is done in simulation/ analysis/ hardware
  - Strong connection with the hardware R&D groups (LCTPC, CALICE, FCAL, ...)
- Most work is multi-purpose work

# The ILD organization

## ILD Executive Team (ILD-ET)

**Spokesperson:** Ties Behnke

**Deputy spokesperson:** Kiyotomo Kawagoe

**Physics coordinator:** Keisuke Fujii (deputy Filip Zarnecki)

**Technical coordinator:** Mary-Cruz Fouz (deputy Karsten Buesser)

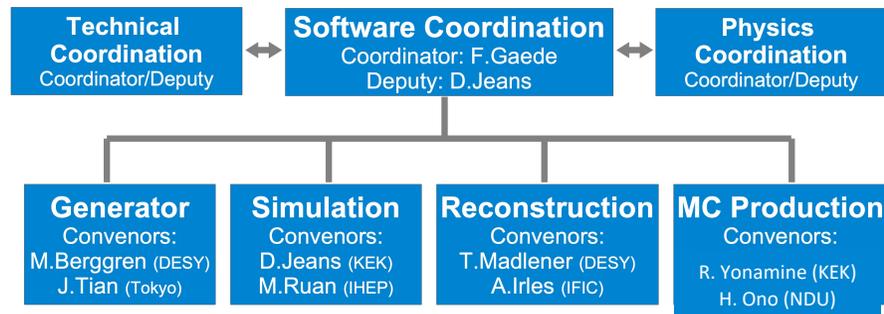
**Software/ reconstruction coordinator:** Frank Gaede (deputy Daniel Jeans)

**Elected members of the ILD executive Team:**

Jean-Claude Brient, Jenny List, Wataru Ootani, Graham Wilson

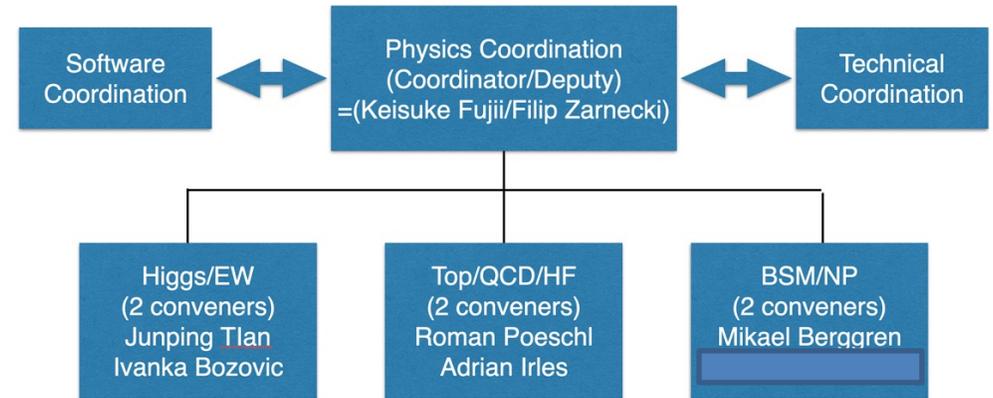
**ILD Institute Assembly Chair:** Daniel Jeans

## Software



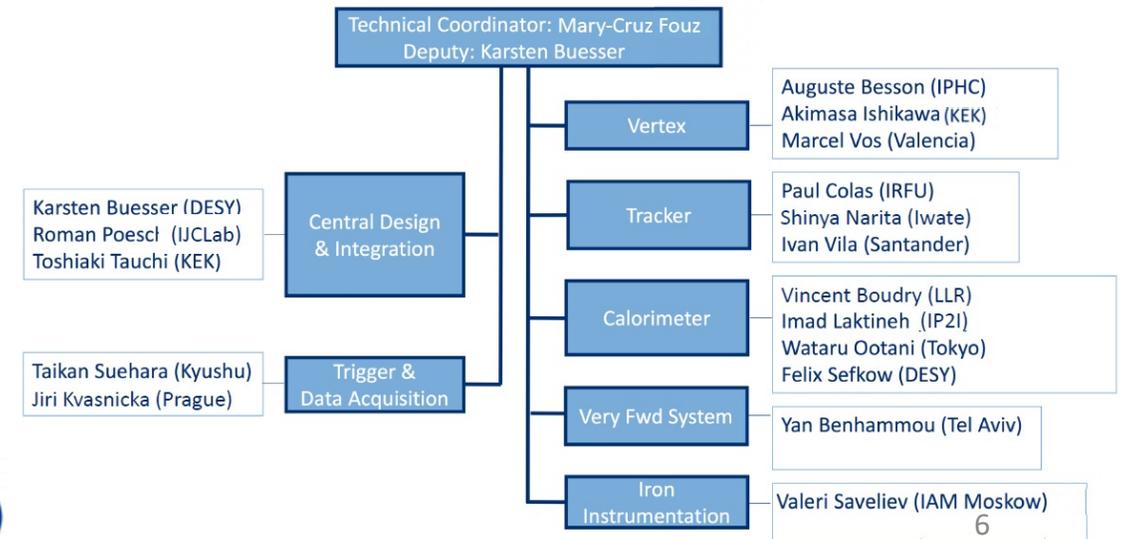
Report from ILD

## Physics



## ILD technical convenors

## Detector



# ILD: reaching out to the community

Software/ Simulation	HEP Software collaboration Key4HEP	Future HEP projects, running project,
Analysis	CEPC, CLIC, FCC, ...	Generic application to future and running projects
Hardware	CALICE/ LCTPC/ FCAL/ ...	All future HEP projects

Central contributions to European Strategy update

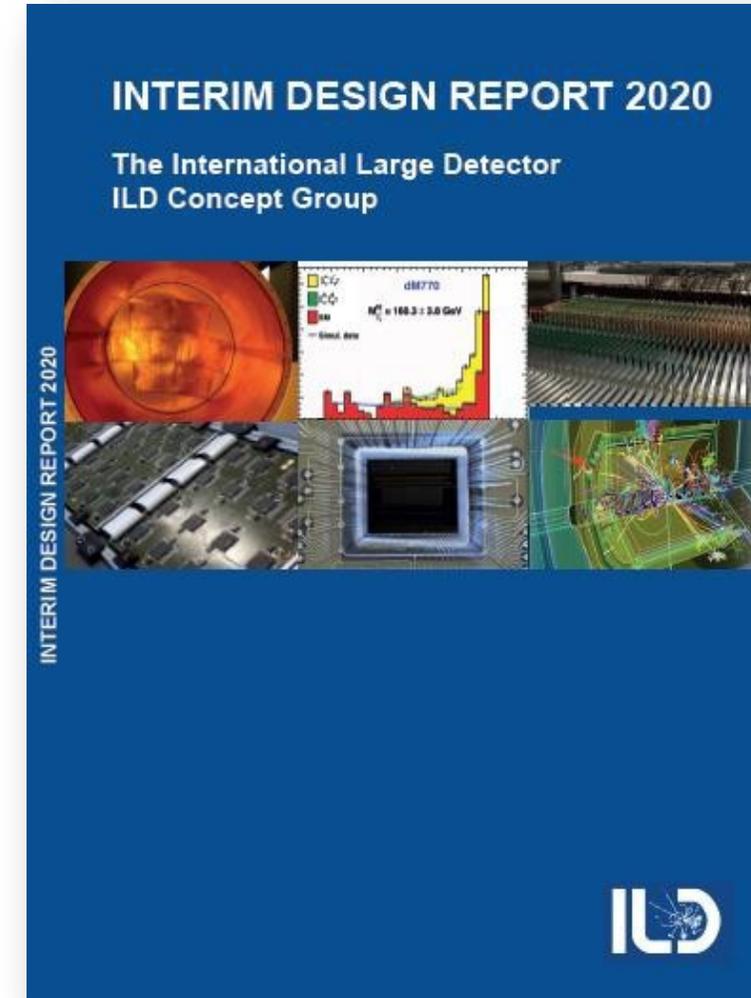
Central contributions to Snowmass process

Central contributions to the preparations of the MEXT panel

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# ILD @ ILC

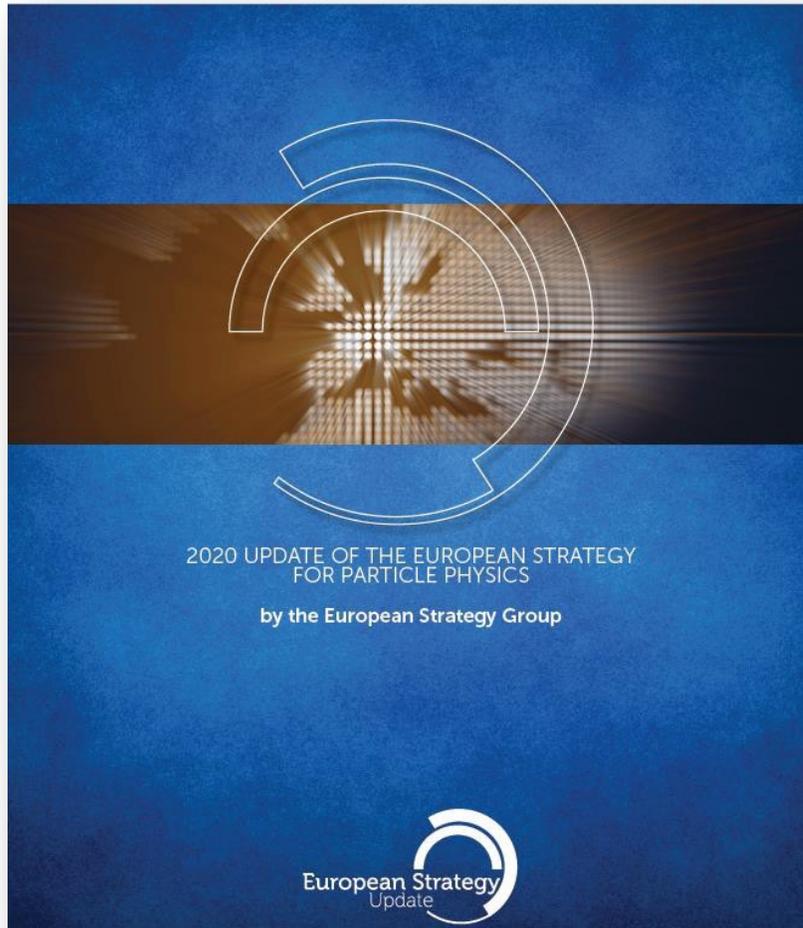
- The state of ILD@ILC has been summarized in the ILD-IDR
  - Electronically published under e-Print: [2003.01116](https://arxiv.org/abs/2003.01116)
    - Update of the detector layout
    - Update on future directions of technologies for ILD
    - Updated of the implementation strategy
    - Update on the site integration
    - Updated on the costing
- Inputs to Snowmass 2021 whitepaper
- Without a clear direction how, where and when ILC is being realized, it is difficult to argue the next steps in ILD
- We need to develop a strategy how to continue ILD



# Report by the MEXT ILC committee

- MEXT committee had a series of six meetings since last summer
  - Original question: progress since the last review
  - Actually focus of discussion: prelab
- Main conclusions
  - Pre-lab will not receive funding
  - There might be some (smallish) line on accelerator R&D
- KEK news on the results of the panel: <https://www.kek.jp/en/topics-en/202202251335/>

# Elements of an ILD strategy



A. An electron-positron Higgs factory is the highest-priority next collider. For the longer term, the European particle physics community has the ambition to operate a proton-proton collider at the highest achievable energy. Accomplishing these compelling goals will require innovation and cutting-edge technology:

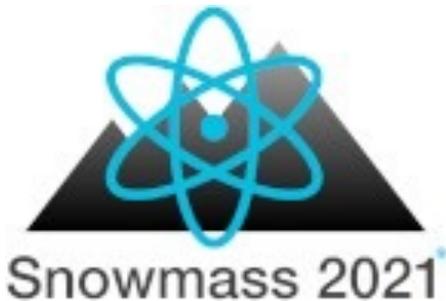
# After the Strategy

**ECFA**

European Committee for Future Accelerators

ECFA Workshops on e+e- Higgs/ EW/ Top

Factory <https://indico.cern.ch/event/1044297/>



Report from ILD

Broad community discussion on future directions for particle physics

Culmination meeting: Seattle, July 17-27, 2022

<https://indico.fnal.gov/event/22303/>

[Snowmass summary paper on ILC:](https://www.overleaf.com/project/5feb77d659085f27f0653fa4)

<https://www.overleaf.com/project/5feb77d659085f27f0653fa4>



# A Way towards an ILD Strategy I

## ILD community

- Organize a series of ILD meetings (typically 1-2 hours) to discuss
  - 1.3.2022: Experimentation at circular colliders
  - 22.3.2022: Experimentation at linear colliders
  - 5.4. 2022: Calorimeter R&D
  - 19.4.2022: Tracking R&D

# A Way towards an ILD strategy II

Define an ILD strategy group

- ILD Executive board (12 people)
- ILD conveners +WG conveners (physics +6, Software +4, technical +14)

Kickoff meeting of the strategy group: 2.3.2022

Draft report will be presented to the ET

ET will present the results to the ILD community

Final decision on “new” ILD strategy by ILD Institute Assembly

The new strategy is supposed to be made public, for example, at ECFA  $e^+e^-$  workshop (Oct 5-7, 2022)

# Conclusion

- The ILC project is not proceeding as rapidly as we have hoped
- ILD needs to re-invent itself
- We propose a approx. 6 month process to re-define the ILD strategy in view of the changed international situation
- ILD as a group has a lot to offer to the community
- Japanese institutes/researchers/students have had a significant presence in ILD for the ILC project.
- I hope that this will develop further in the future.