

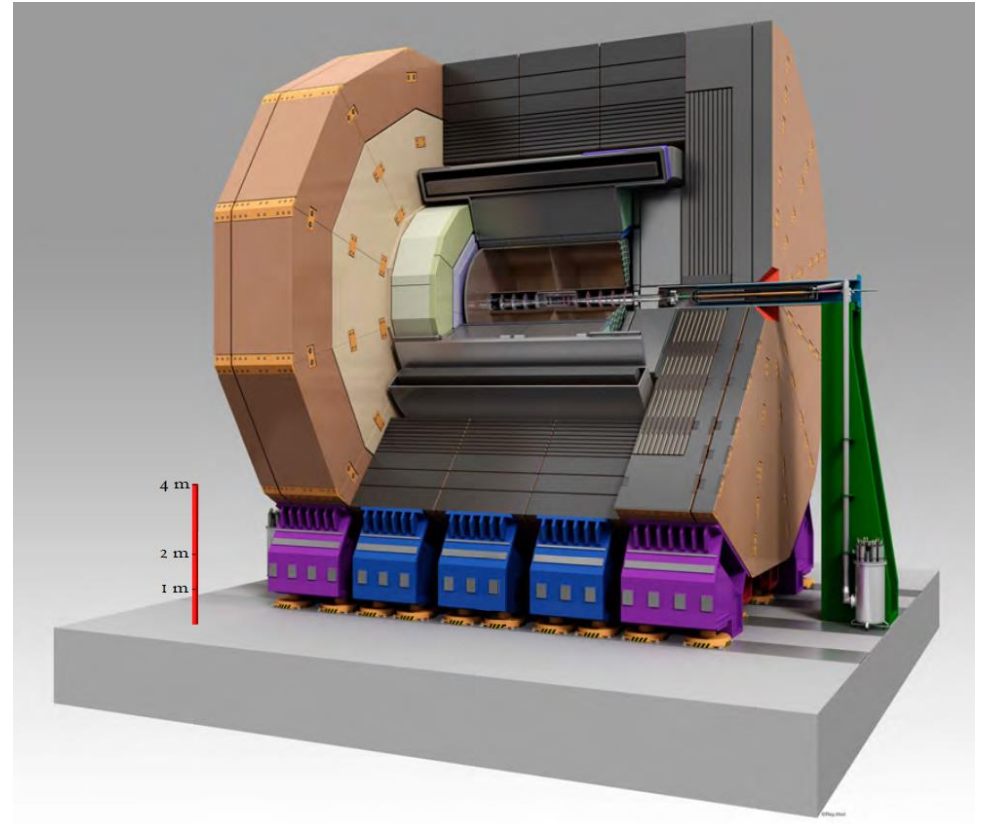


Quo Vadis ILD

Ties Behnke

3.6.2021

ILD meeting virtual



The last in person ILD meeting



KEK, 2019

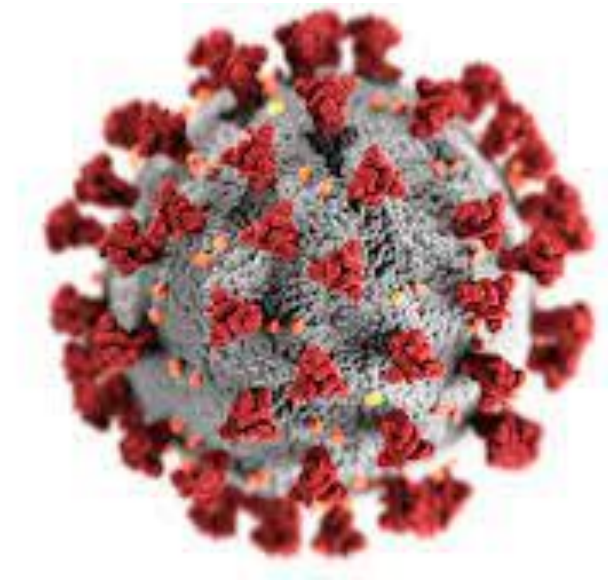
European Strategy not yet known

Structure of ILC effort after 2020 not known

International situation unclear



ILD Meeting 2020



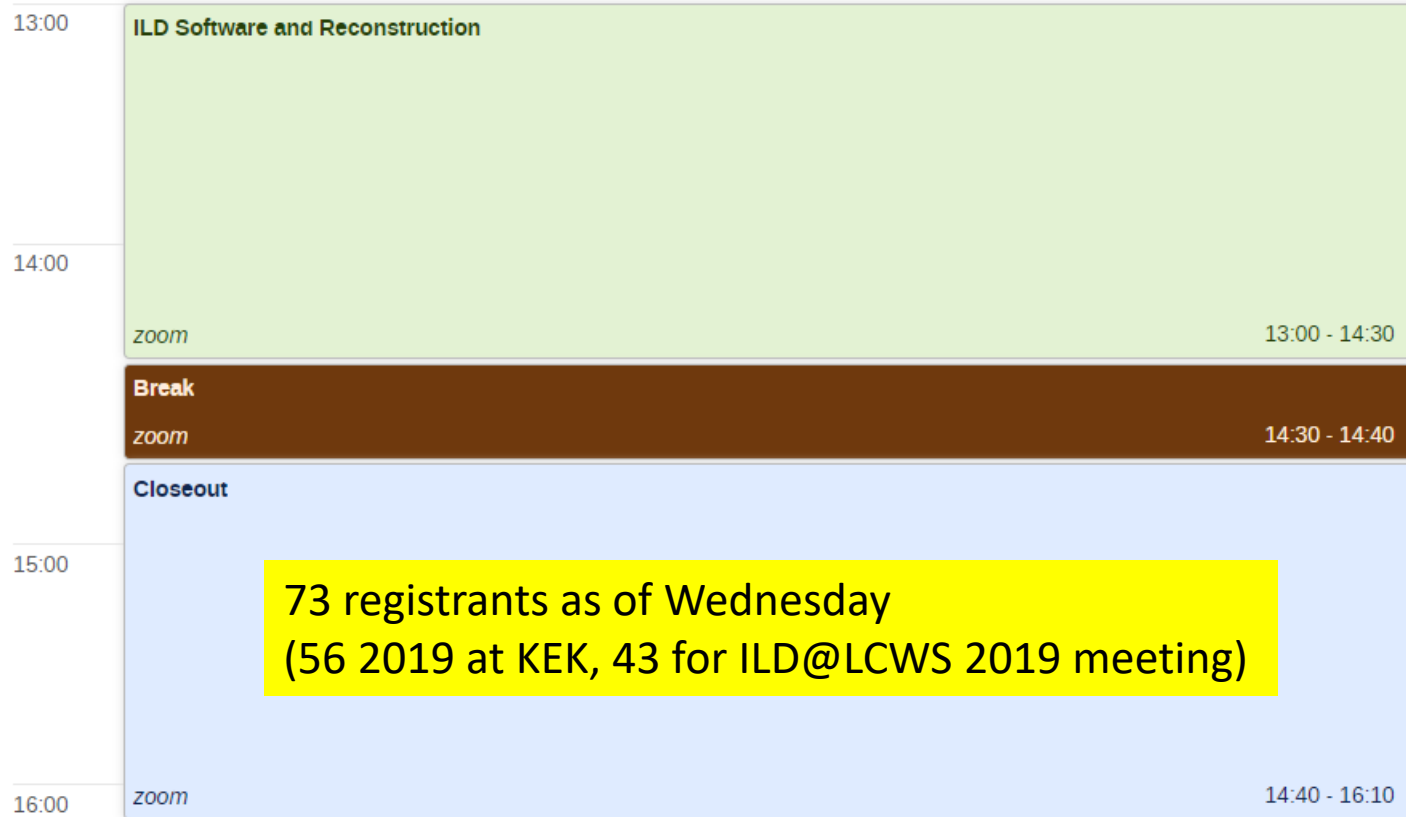
ILD Meeting 2021



13:00	Introduction <i>zoom</i>	13:00 - 13:25
14:00	ILD detector <i>zoom</i>	13:25 - 14:50
15:00	Introduction <i>zoom</i>	14:50 - 15:15
	Break <i>zoom</i>	15:15 - 15:25
16:00	ILD Analyses <i>zoom</i>	15:25 - 16:55

The ILD concept

ILD Meeting 2021



The Global Situation



- European Strategy update has been published and “approved” by council
 - Higgs factory key priority
 - Feasibility study of FCC key priority
 - Accelerator and Detector R&D
- US expresses interest in ILC: seems to stay strong
- Community re-organizes in form of the IDT hosted by KEK, led by T. Nakada
- Snowmass process delayed, but globally re-triggered interest in feasibility studies of Higgs factories etc .

The European Situation



- ESU provides a frame, but no assurance: implementation?
- Position of many European Governments towards ILC remain guarded
- CERN strengthens the FCC study, terminates the CLIC study except for accelerator R&D into CLIC, detector group for CLICDP is desolved
- Support for R&D projects remain weak throughout Europe
- Strategy processes for Detector and Accelerator are ongoing

The ILD Situation



December 2020	
08 Dec	ILD group meeting
November 2020	
10 Nov	ILD group meeting
October 2020	
13 Oct	ILD group meeting
September 2020	
01 Sep	ILD group meeting
June 2020	
30 Jun	ILD group meeting
02 Jun	ILD group meeting
May 2020	
27 May - 14 Jun	ILD confirmation of Ins
12 May	ILD group meeting
May 2021	
11 May	ILD group meeting
April 2021	
06 Apr	ILD group meeting
April 2020	
07 Apr	ILD group meeting
March 2021	
02 Mar	ILD group meeting
March 2020	
03 Mar	ILD group meeting
February 2021	
09 Feb	ILD group meeting
February 2020	
04 Feb	ILD group meeting
January 2021	
12 Jan	ILD group meeting

- Despite the difficult situation:
continued activities in ILD, regular group meetings with contributions
- Publication of the Intermediate Design Report IDR
- Re-election of the ILD management structures in 2021

ILD Meeting 2021



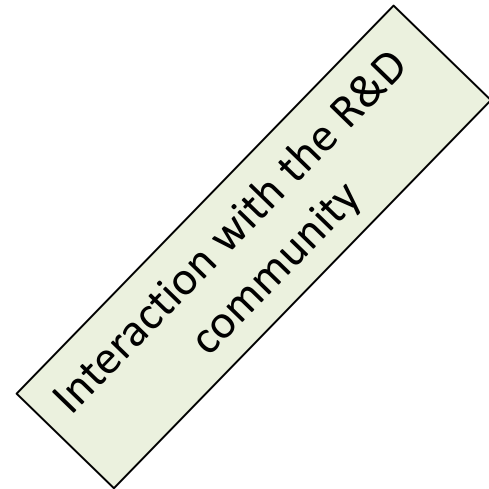
- The new management team presents itself and the teams
- Discussion of the plans for the next 2 (few) years
- Discussion of the status of the different ILD parts and sub-systems
- Discussion of the global situation and the right way forward

What should we do?



Understand ILD and ILC

- Study the science case for the ILC with ILD (see physics group discussion)
- Shape the global discussion on science at a Higgs factory and beyond
- Understand and optimize our current detector
- Study and explore ways to improve the current layout
 - Timing
 - Geometrical optimization
 - Refinements of algorithms and methods
 - ...



What could we do?



Explore “crazy” ideas, be bold

- After 10 years of development of ILD, shall we fundamentally change the way we do things?
- Are there crazy new technologies we might want to use?
 - Quantum computing/ Sensing/ Devices?
 - Totally new detector technologies?

How should we do this?



- Develop a strategy within ILD: we have the right people and the right structures
- Continue to work very closely with the R&D groups, support them in their Quest for funding, interact with them
- Attract new groups and people into ILD

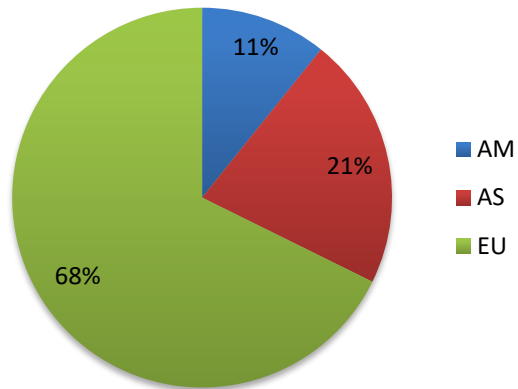
The Collaboration



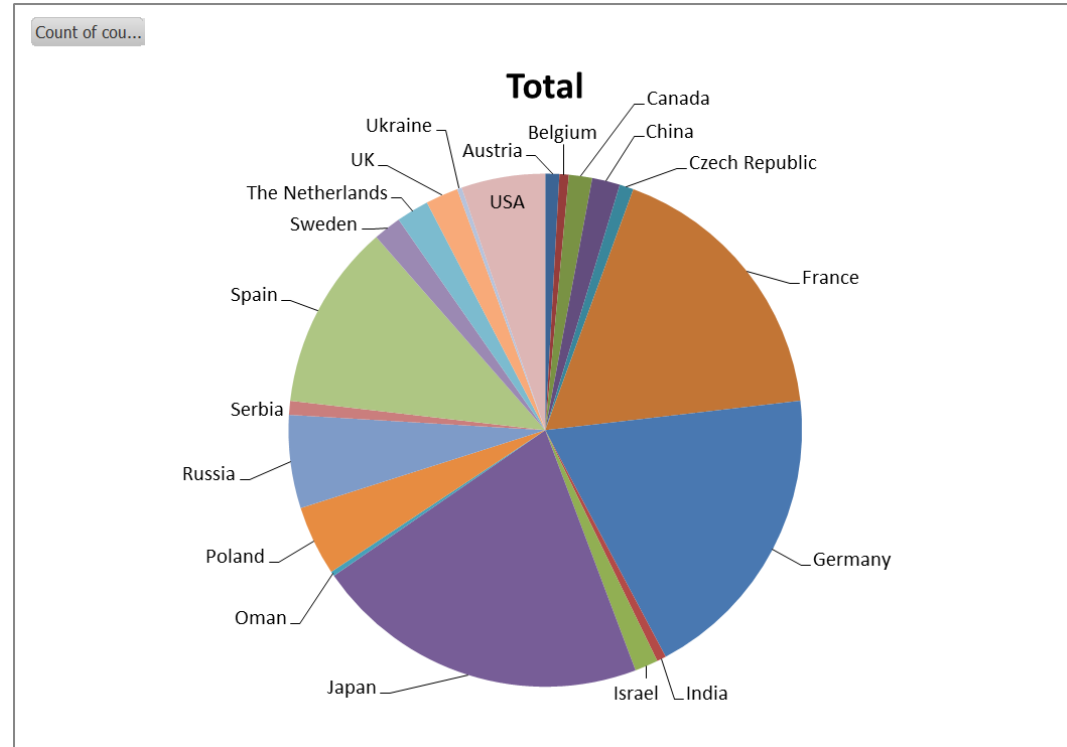
Result of recent membership confirmation:

- 65 institutes confirmed ILD membership
- 8 institutes did not confirm
- Several new requests

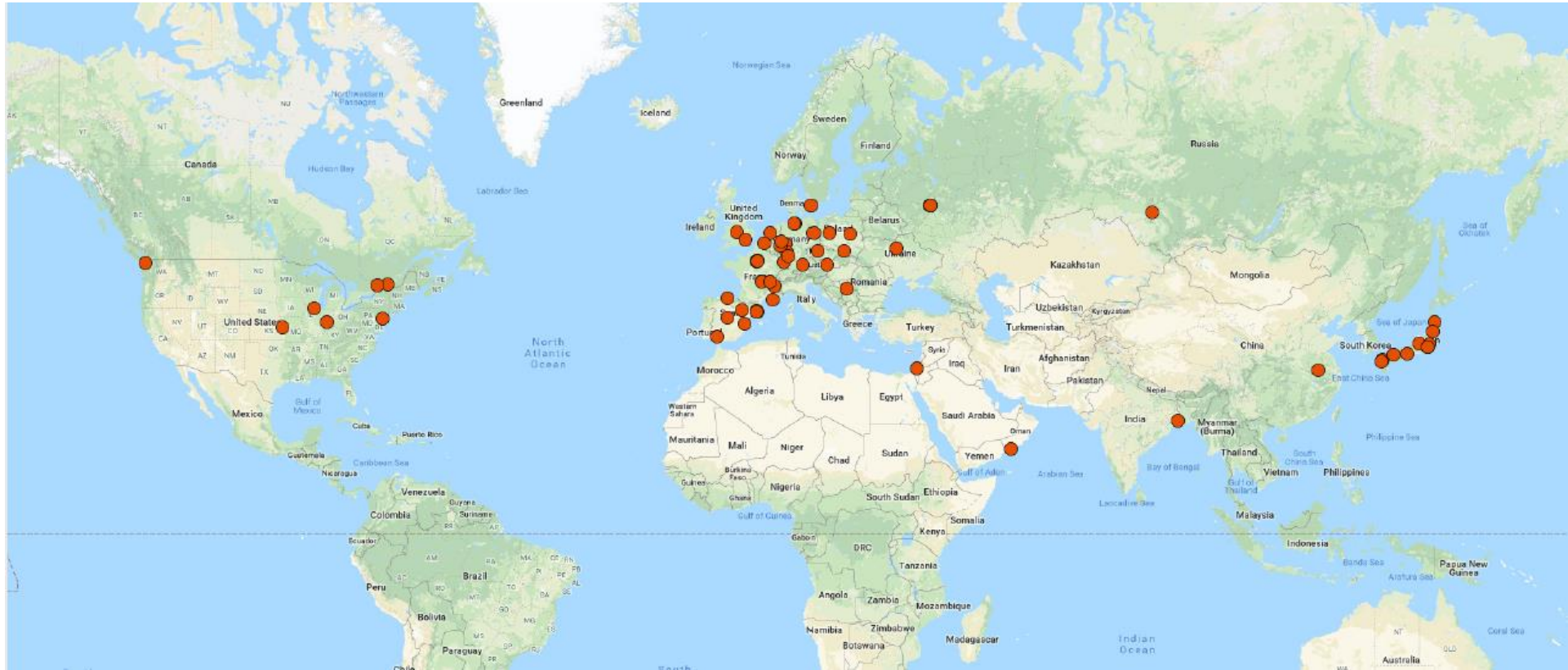
institutes per region



Daniel started a new round



ILD around the world



ILD Collaborative Tools



ILD Web page: <http://www.ilcild.org>

- Transition to new server has happened
- Content is still marginal
- Help is very welcome to fill the WEB page and to continue to improve the logic

ILD confluence page <https://confluence.desy.de/display/ILD/ILD>

- Overall useful system, intensely used by some groups
- Problem of access for the complete ILD group is still not solved