

Paradigm shift in process

International project: Initiated as a project of a laboratory with a limited international participation, a total of O(10~20%) of the accelerator, like HERA (started as a DESY project) and LHC (started as a CERN project). This fraction may become larger but the ultimate ownership remains with the initiator.



Our usual approach



Global project: Starts and evolves as a collaborative project of partner countries who make **collective decisions on all aspects of the project**, such as the scheme for cost and responsibility sharing, project organisation, and host and site location. The **ownership is shared among the partners**.



ILC

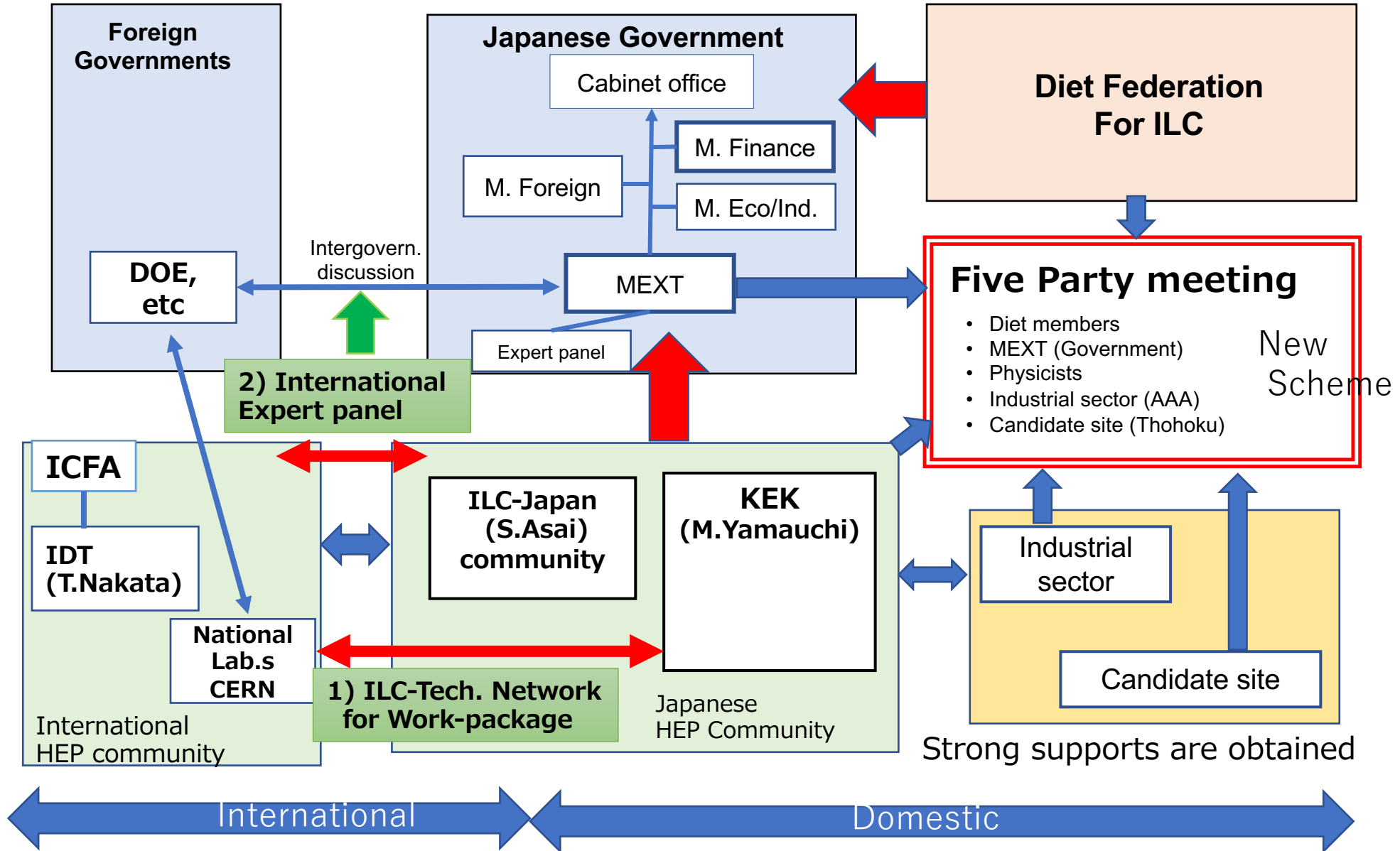


SKA



ITER

Promotion scheme of ILC / relation of Stakeholder



ILC Promotions in World-Wide with IDT

ILC-Technology Network to implement the most urgent work-packages in advance.

The budget in Japan in JFY2023 ~ 9.7 hundred Million Yen: Factor 2 increases;

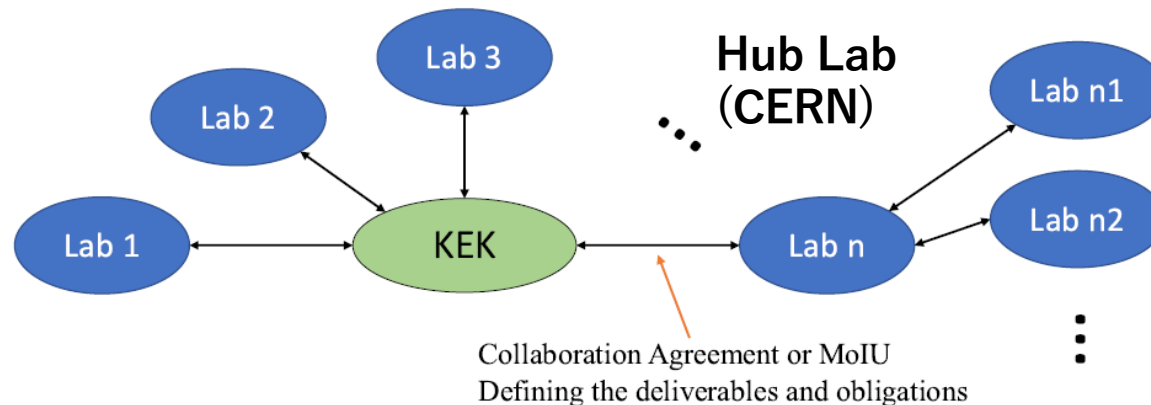
- The ITN is a network of the accelerator laboratories:
KEK, CERN, US National Labs. and Asian Labs...
(It will be launched by agreements between KEK and a partner laboratory
which define the deliverables and obligations)

Purposes

- Make international cooperation tighter / dependable @ Govern. level
- Improve the reliability and completeness of ILC technology
- Potential for application of ILC Technologies

Status

- In Europe, CERN plays a coordinating role(Reported to Council in March).
Main contracts for flow of funds will be made between CERN and KEK, and subsequent contracts between CERN and European labs in the cases where money flow is needed.
In June we starts between KEK and CERN/European National Labs.
- Delegations have so far visited management of the three US laboratories and discussed their possible participation in the ITN. We also subsequently visited the US DOE in January 2023 to make a proposal for the collaboration with the US laboratories by expanding the existing US-Japan Cooperation Program. We are currently awaiting a response from DOE/P5 **(P5 Recommendation for R&D ILCTN is crucial)**
- Asian scientists/Labs will join the ITN.
A group of accelerator scientists in Korea is already exploring the possibility of participation.



ILC Promotions in World-Wide with IDT 2

International Expert Panel

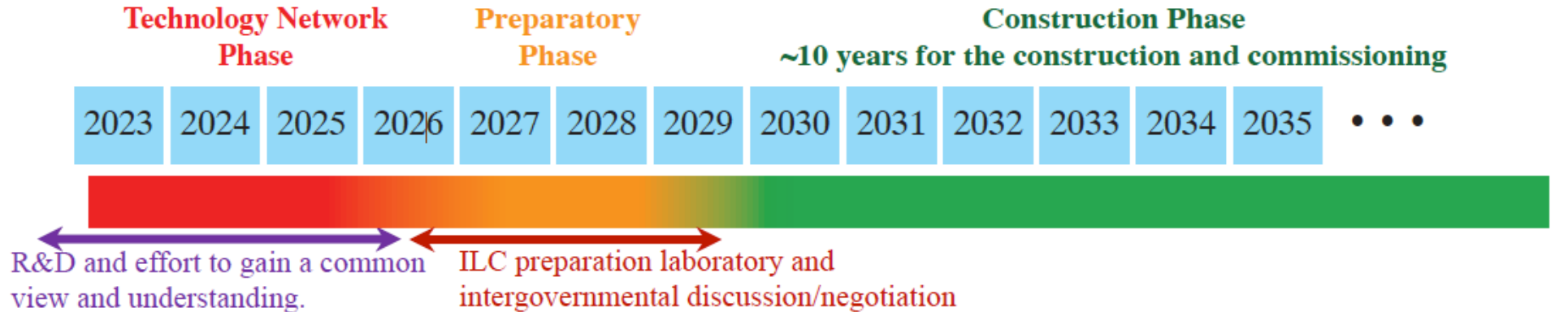
Established by the IDT and is composed of researchers with extensive experience in international collaborations and channels of dialogue to national governments.

Move forward with [the political process for](#)

- [Establishing regular interactions](#) among partner government authorities.
- [Developing a common view](#) on how to proceed with a global project, applicable to ILC.

A forum of government authorities/agencies of ITN participating laboratories is being setup, where the IDT International Expert Panel interacts to foster common discussion. The goal is to arrive at [the ILC Preparatory Phase, i.e.](#) final work for the construction readiness and intergovernmental discussion/negotiation for realisation.

Timeline / Step-by-Step ILC promotion



- Technology Network Phase responds to the recommendations by the MEXT Expert Panel.
- ITN work packages are two to **four years**.
- MEXT funding programme for ILC-accelerator R&D is planned for five years.
- For **entering the Preparatory Phase**, interested government authorities, **not only Japanese but also European and US**, must become **ready to discuss ILC specific matters**.
- Given ITN, the **Preparatory Phase could be less than the four years** in the Pre-lab proposal for the accelerator and site-related work.
- **P5 discussion** in the U.S. and **FCC Feasibility Study** at CERN will impact the timeline.