

Status of ILC Project in Japan

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Situations about ILC

Domestic (inside Japan)

- The planning office for the ILC has been setup in KEK. In my understanding this office is intended to be a precursor to evolve into an international office that eventually becomes an ILC pre-lab.
- An ILC TF and an expert panel have been formed in MEXT, our funding agency, and an official review process has just begun, which will produce a report by the end of JFY2015. Positive results from the processes will be the key to the project approval.

International

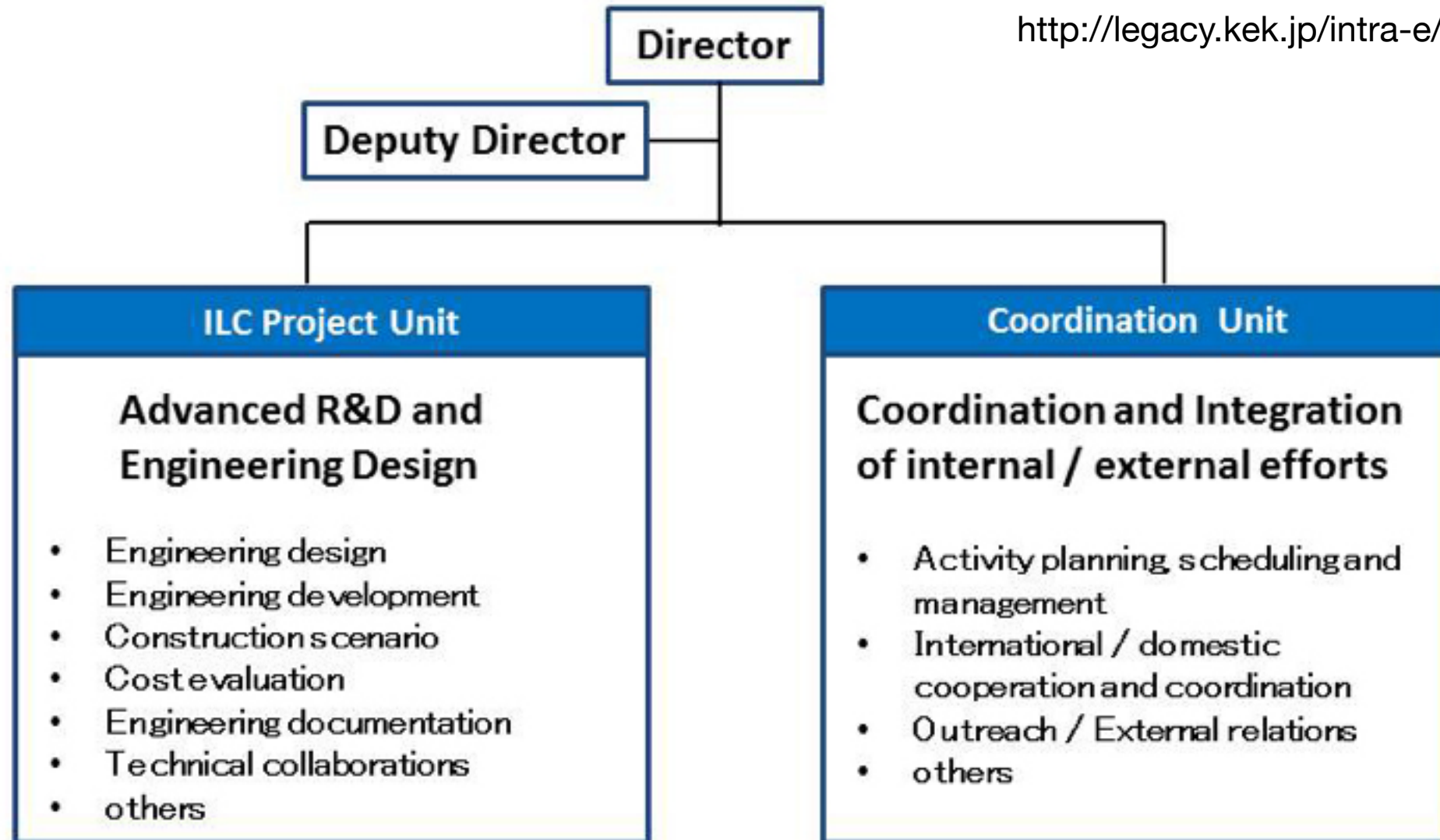
- With TDR/DBD completed, ILCSC/GDE/RD finished its role and a new organization, LCB/LCC, started.
- Towards the realization of the ILC project, LCC will optimize the staging scenario, promote industrialization and further R&D for cost reduction, and develop site-dependent design of the ILC facility. In parallel it will start international negotiations with potential partners as well as to strengthen outreach efforts.
- Detector concept groups are now re-optimizing the detector designs towards the proposal call expected just after the project approval (2016?), while continuing R&Ds for individual detector components to develop their engineering designs.

Planning Office for the ILC

Jan. 6, 2014: **KEK**

KEK set up the Planning Office for the International Linear Collider, hoping that it serves as a precursor for an international planning organization for the ILC.

<http://legacy.kek.jp/intra-e/info/2014/020617/>



The role of the coordination unit includes preparation for inputs requested from MEXT

The coordination unit requested the ILC group of Institute of Particle and Nuclear Studies of KEK to provide, among other things, information on a possible **detector cost sharing model** and necessary **human resources** for preparation, construction, and operation of the detectors, including their **time profile**.

MEXT's ILC Review

May 27, 2013: **MEXT → SCJ**

The Research Promotion Bureau of the Ministry of Education, Culture, Sports, Science, and Technology (MEXT) requested Science Council of Japan (SCJ) for deliberation of the ILC project from academic point of view.

Sep.30, 2013: **SCJ → MEXT**

SCJ submitted a recommendation regarding ILC to MEXT.

http://www.scj.go.jp/ja/info/kohyo/pdf/Report%20on%20ILC_Executive%20Summary.pdf

The Committee suggests that the government of Japan should (1) secure the budget required for the investigation of various issues to determine the possibility of hosting the ILC, and (2) conduct intensive studies and discussions among stakeholders, including authorities from outside high-energy physics as well as the government bodies involved for the next two to three years. Before making the final decision of whether the ILC should be hosted in Japan, the issues and concerns described in this document should be fully investigated and a clear vision for solutions needs to be provided. They include the whole profile of project cost for the construction, operation, upgrades and decommissioning, as well as prospect for cost-sharing among the countries involved. Also included are the issues related to human resources and management/operation organization.

Oct., 2013: **Japanese HEP community**

Japanese HEP community filed a petition for the Japanese government to invite the ILC to Japan. → **ILC became a project officially recognized by the government.**

May 8, 2014: **MEXT**

An **Expert Panel** including external members under **MEXT's ILC TF** started the official review process! → Report due by the end of JFY2015.

MEXT's ILC Review

MEXT's ILCTask Force

Expert Panel (2014-5-1 → 2016-3-31: extensible if needed)

1. Strategy for particle physics research at ILC taking into account other related projects
2. Project cost and its international sharing
3. Necessary human resources / personal in construction and operation periods
4. Domestic organization
5. Social influence of ILC
6. Other issues concerning ILC

LCC Physics WG

ILC physics case

ILC Parameter WG

Running scenarios

Particle and Nuclear Physics WG

Review ILC physics case, taking into account other HEP projects

TDR Evaluation WG

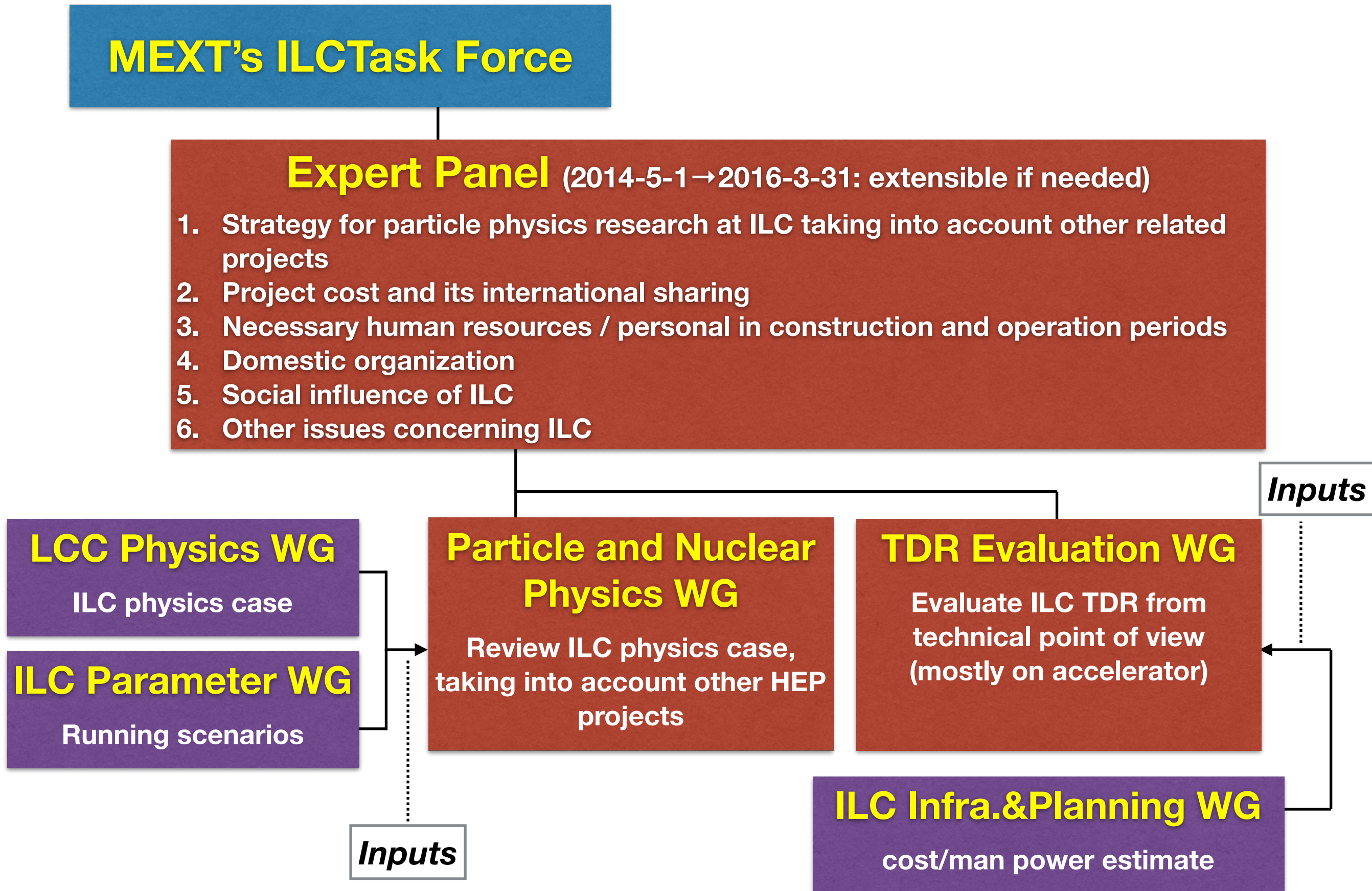
Evaluate ILC TDR from technical point of view (mostly on accelerator)

ILC Infra.&Planning WG

cost/man power estimate

Inputs

Inputs



Expected Short-term Schedule

June 24, 2014: **MEXT: 1st meeting of Particle and Nuclear Physics WG**

WG organizational matter; overview of particle physics: status of SM and physics beyond it; overview of ILC project with emphasis on ILC physics case; schedule as follows:

June 30, 2014: **MEXT: 1st meeting of TDR evaluation WG**

WG organizational matter; overview of ILC TDR; overview of ILC cost estimate; schedule, etc. Mostly about ILC accelerator.

Oct. 2014 ? : **MEXT: 2nd meeting of Expert Panel**

Discussions based on interim report from the two working groups?

Expected items to be reviewed

- Technical feasibility of proposed detector designs
- Cost estimate, timeline
- Task/Cost sharing model
 - If it is impossible to give a concrete answer at this moment, provide a convincing reason based on past experiences.
- Human resources
 - Provide convincing reasoning for their availability
- Time profile of the above two
- Organizational structure for project implementation
 - Role of ILC lab.
 - Role of KEK
 - Role of IPNS