

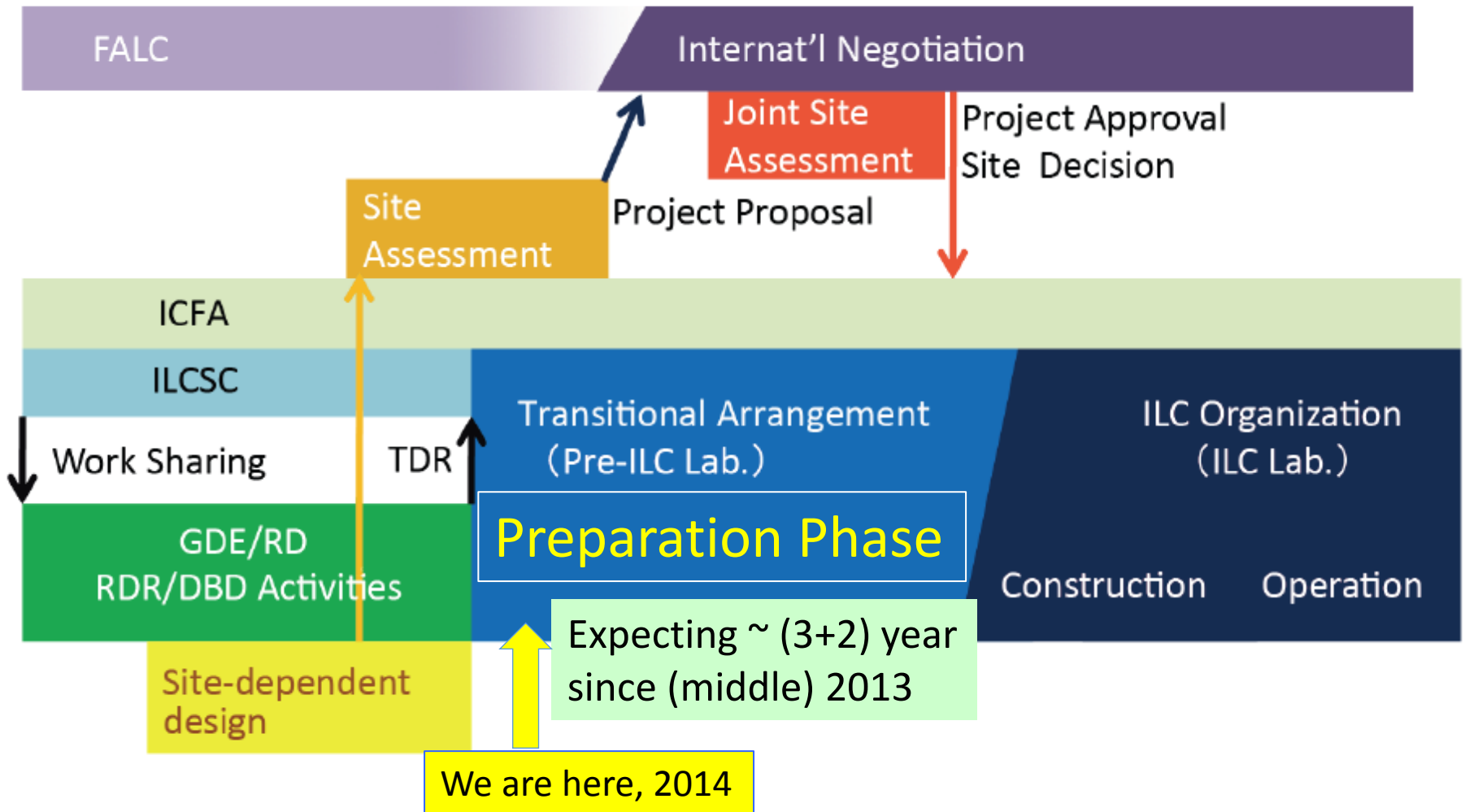
The Situation in Japan

Yasuhiro Okada, Executive Director, KEK

ILD meeting 2014

September 7, 2014, Oshu-city, Iwate, Japan

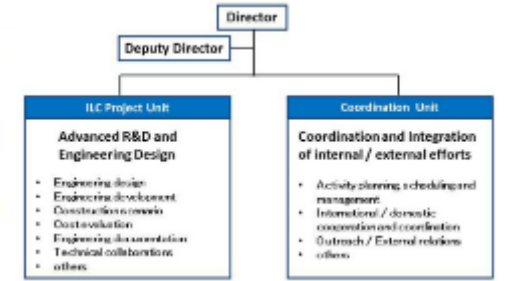
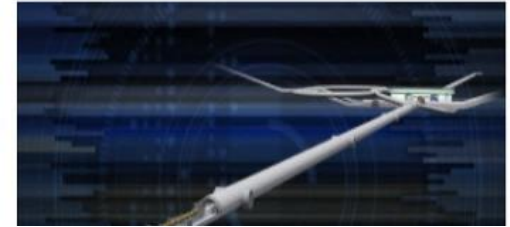
ILC Time Line: Progress and Prospect



ILC Status

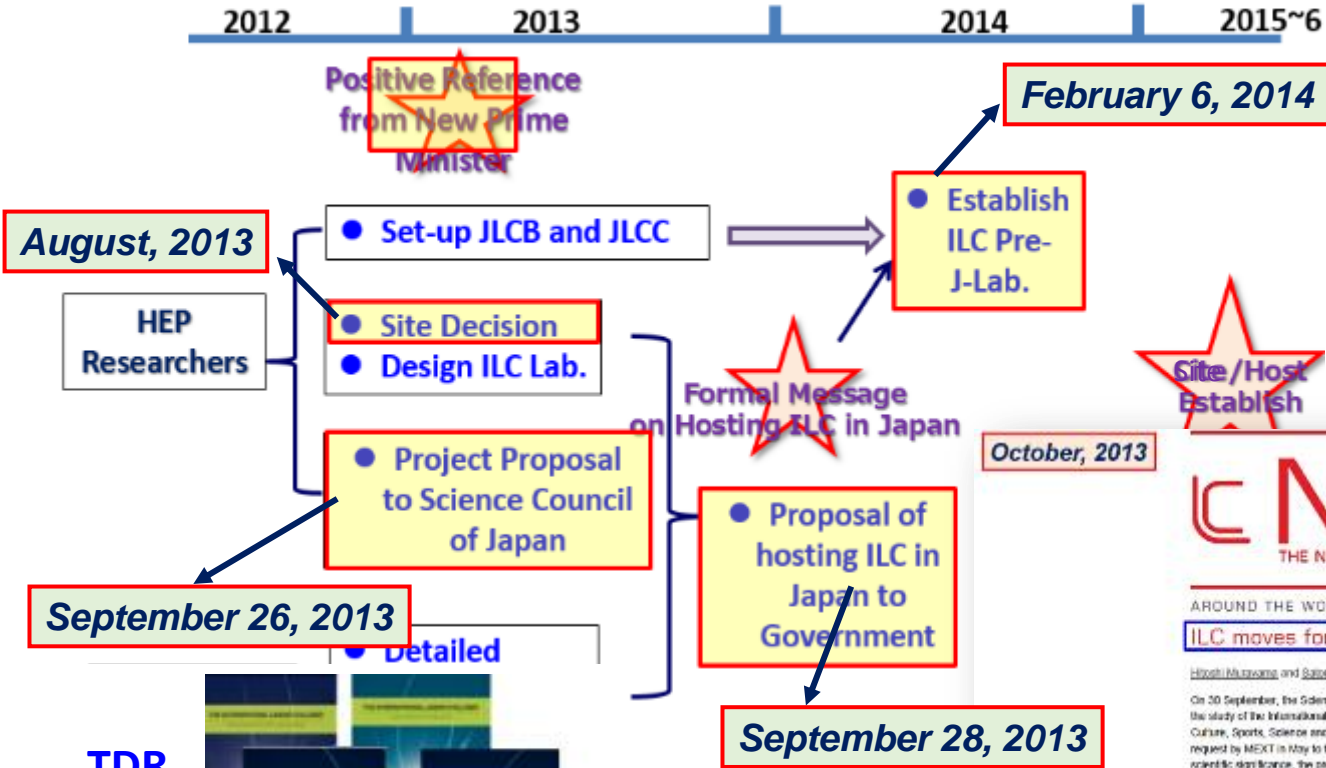
A.Suzuki, May 2014

From KEK: KEK sets up Planning Office for the International Linear Collider



Action Plan in 2012

at European Strategy Meeting
Dec. 11, 2012



Site/Host Establish



ILC moves forward in Japan

Hiroyuki Murayama and Satoko Yamashita | 10 October 2013

On 30 September, the Science Council of Japan (SCJ) submitted the report on the study of the International Linear Collider to the Ministry for Education, Culture, Sports, Science and Technology (MEXT). This was a response to the request by MEXT in May to the council to examine the ILC project including its scientific significance, the project's position in particle physics and in the whole of science, the significance of the project being hosted in Japan and the possible challenges the project will face.

SCJ pointed out obvious issues with international projects, such as cost sharing, its governance model, and availability of leadership and personnel. Therefore,



On 2 October, Minister of MEXT said that the government will create a working group of advisors with specialists from various fields which will review the possible issues on the realization of the ILC in Japan.

In December, 0.5 M\$ requested by MEXT was approved in the fiscal year 2014 budget. Even though the amount is small, it is symbolic that the Japanese government for the first time allocates a "preparatory budget" for the ILC as an official project

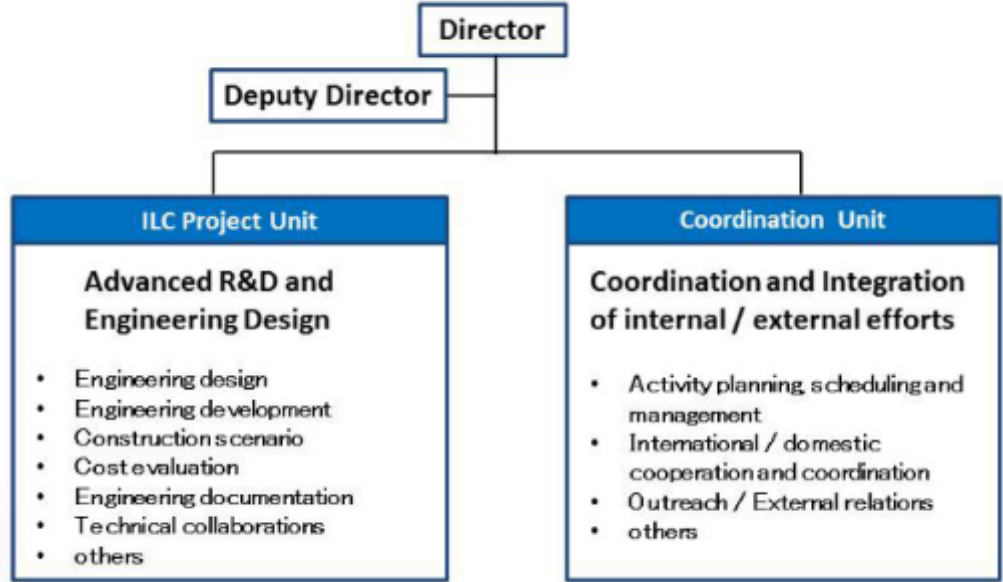
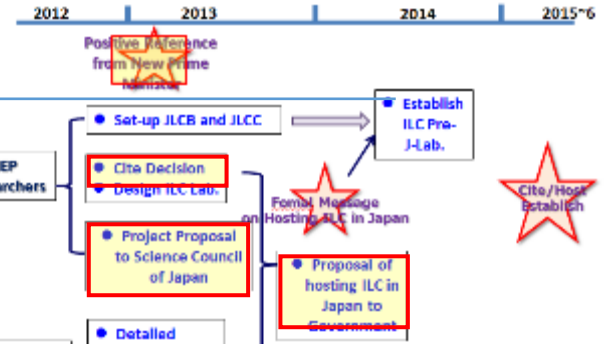
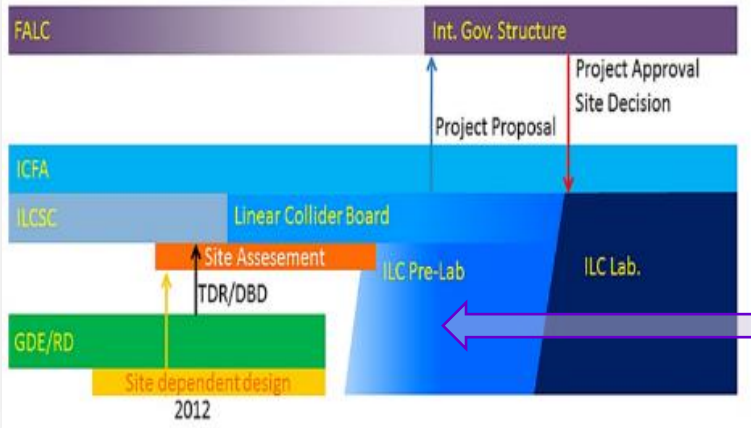
February 6, 2014

● **Establish ILC Pre-J-Lab.**

From KEK: KEK sets up Planning Office for the International Linear Collider



Possible Time-Sequence of Processes toward Realization



ILC preparatory office in KEK:
 The ILC preparatory office in KEK takes a lead of the ILC related activities formally for a while, instead of the government. Once the government makes a decision on hosting the ILC in Japan, the ILC preparatory office should evolve into the global system, inviting the **LCC** and **LCB**.

Report on the International Linear Collider Project Science Council of Japan

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

In parallel, it is necessary to have discussions with the research institutes and the responsible funding authorities of key countries and regions involved outside of Japan, and to obtain clear understanding of the expected sharing of the financial burden. All of

Japan Needs Years to Make Decision on ILC Building: Science Council Panel

Tokyo, Aug. 6 (Jiji Press)--Members of a Science Council of Japan panel agreed in principle Tuesday that Japan should spend several years to examine the significance of leading the proposed international project to construct a next-generation particle accelerator.

After the day's closed-door meeting, University of Tokyo Prof. Yasuhiro Ie, head of the panel reviewing the issue, said that there are uncertain elements to be removed before the panel gives the green light.

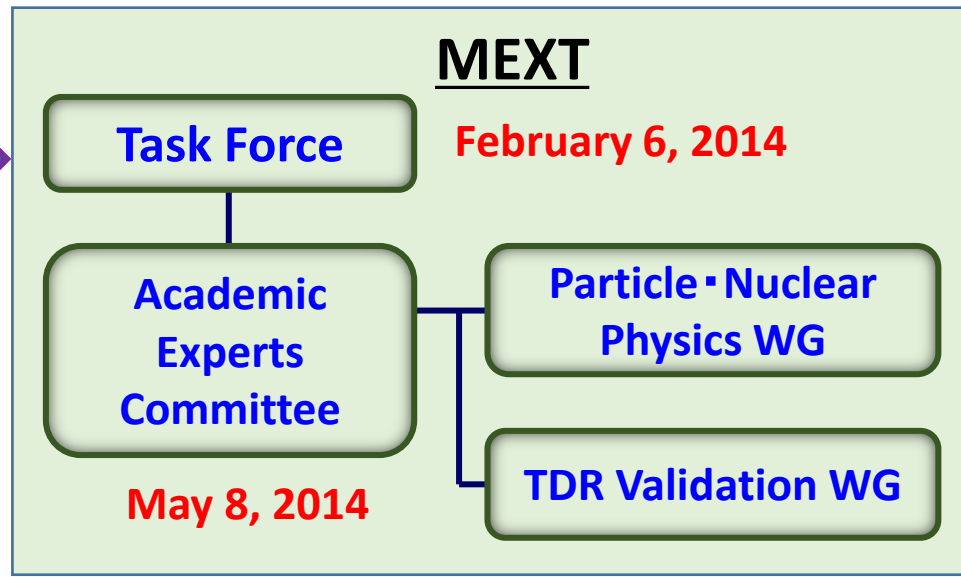
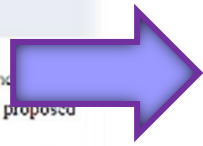
"It is yet to be known if the Japanese public will appreciate huge government spending for such a basic scientific study despite Japan's severe fiscal condition," Ie said. He also expressed concerns about possible cuts in outlays for other research field and difficulty securing more than 1,000 scientists and technicians for the project.

The ILC construction is estimated to cost 630 billion to 830 billion yen, half of which Japan is asked to put up.

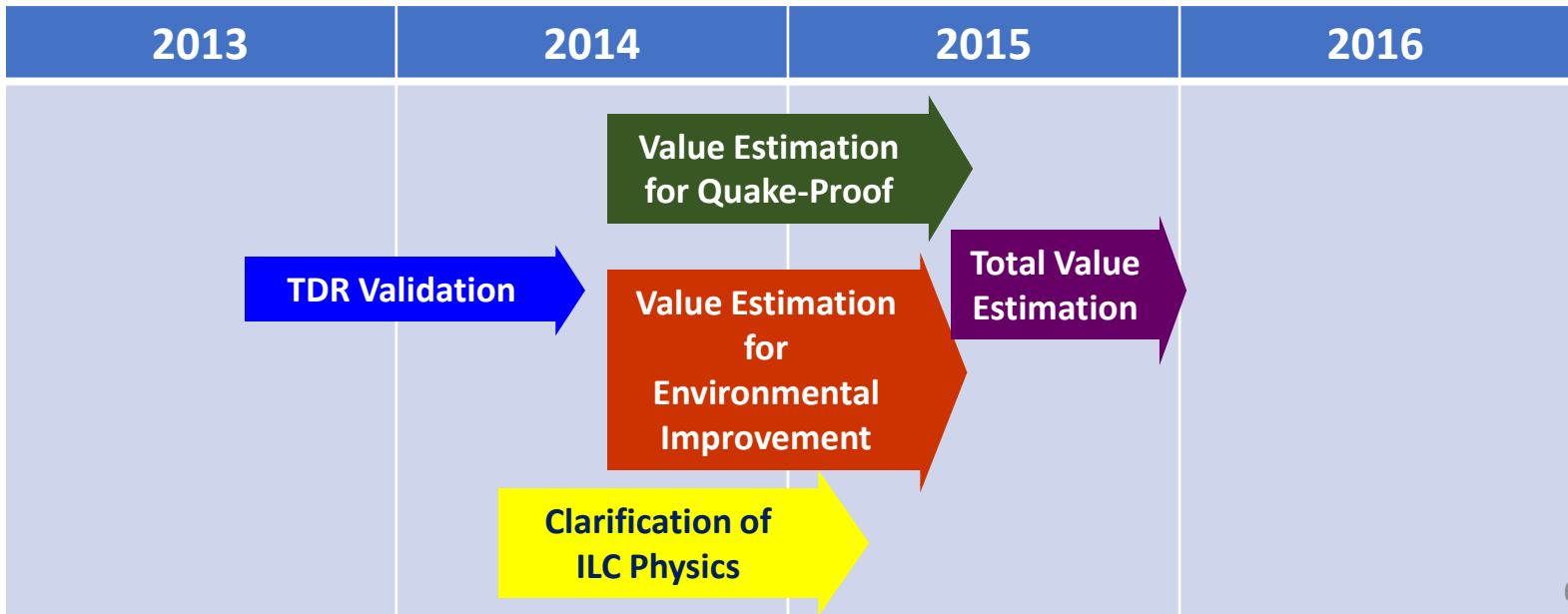
An international group of physicists proposed to build the linear collider in either the Kitakami mountains in northeastern Japan or the Sefuri mountains in southwestern Japan.

(2013/08/06-23:28)

Review by Science Council of Japan

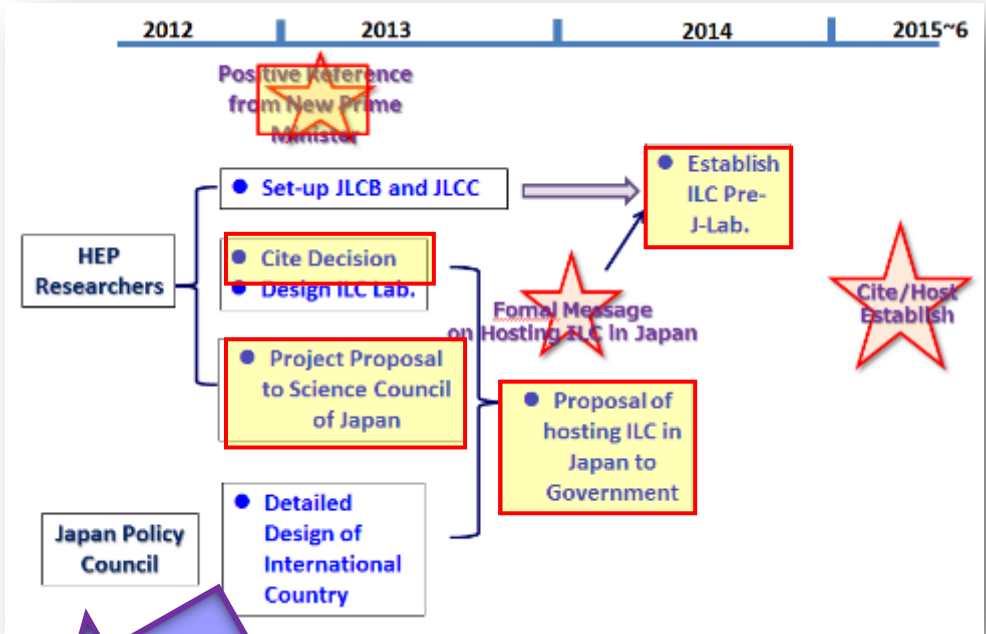


Review Issues



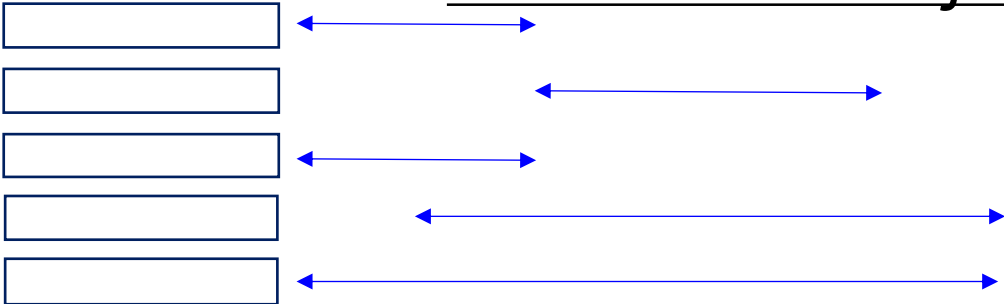
Action Plan ~~toward~~ before Construction in 2014

2012



2014

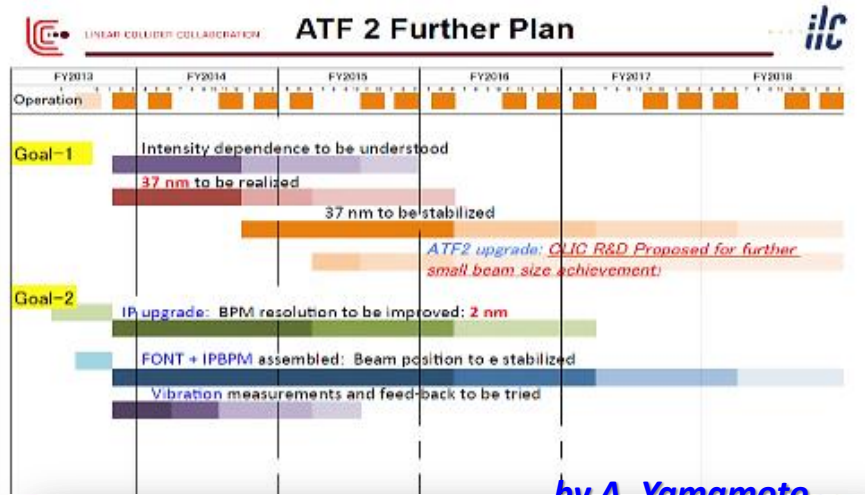
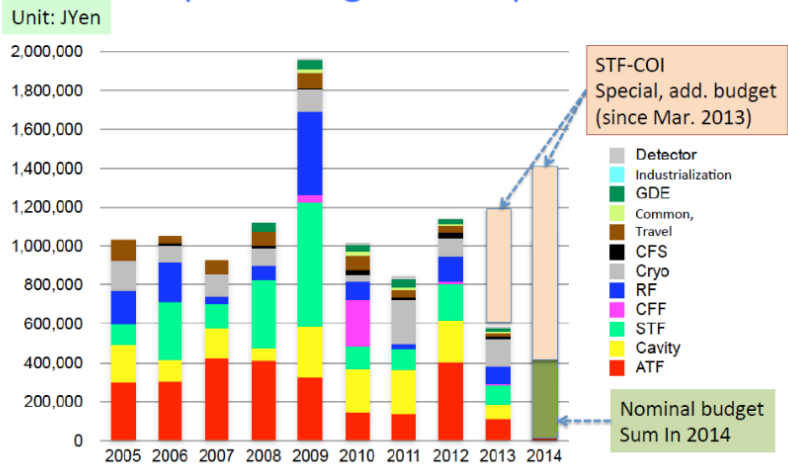
Further Action Plan before Construction



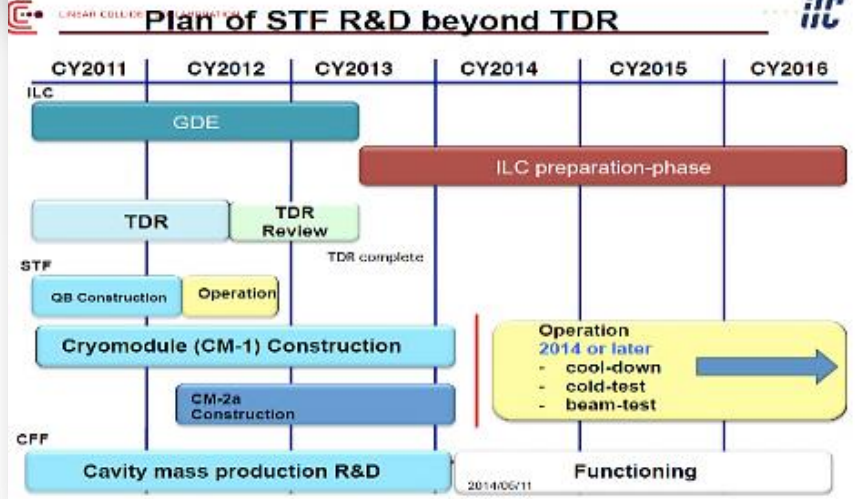
**Engineering R&D
Schedule
(LCC-PreLab)**



KEK ILC Related Budget (M&S) Profile,
(excluding Salaries)



by A. Yamamoto



Further Action Plan before Construction

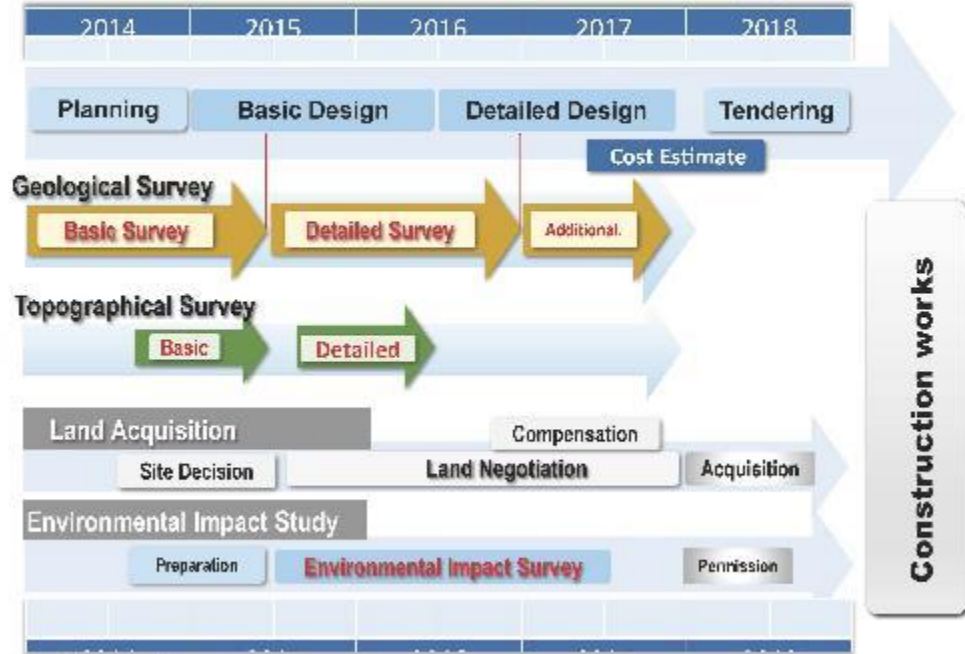
2014	2015	2016	2017	2018
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Engineering R&D Schedule (LCC-PreLab)

Pre-construction Schedule (LCC-PreLab)

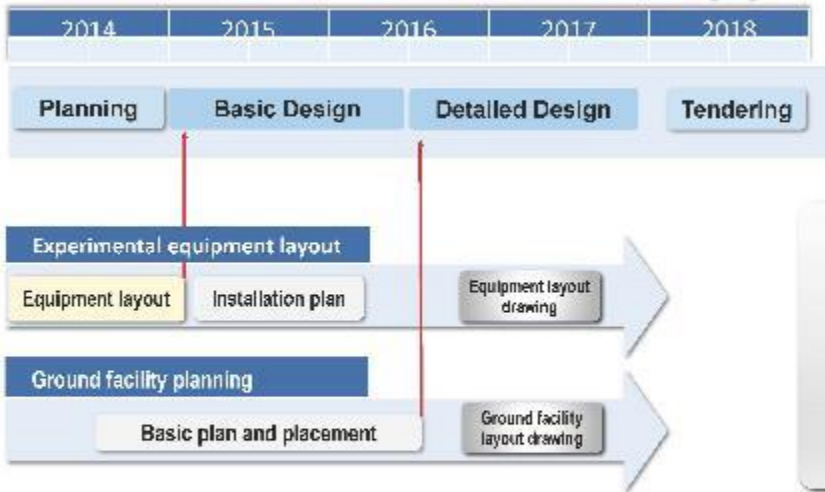


Pre-Construction Schedule (1)



courtesy Mike Harrison.

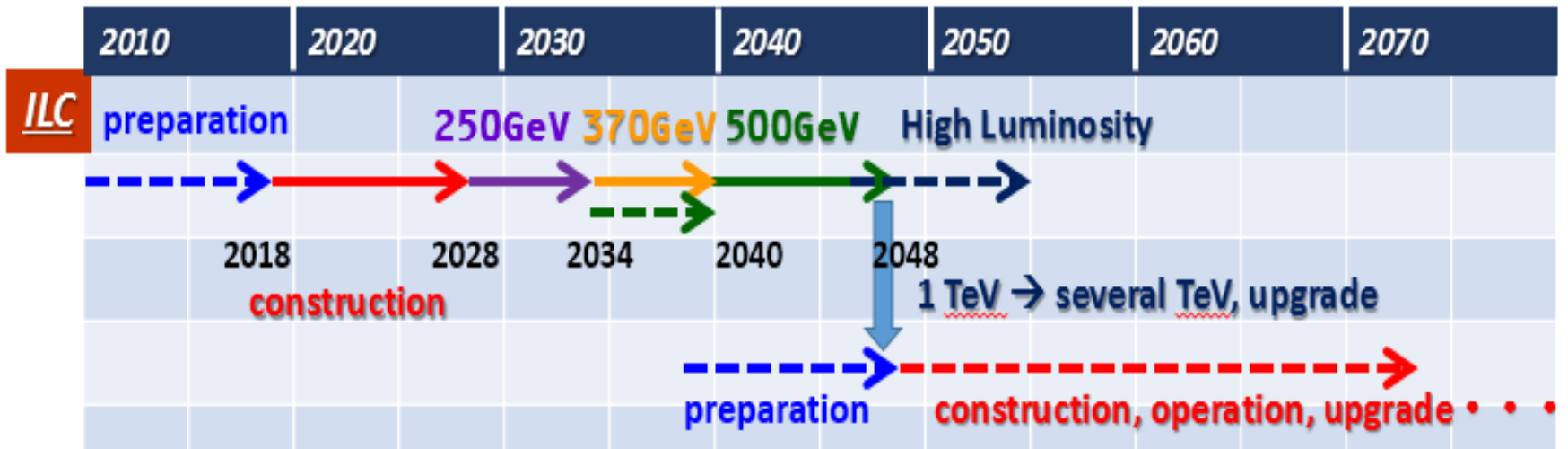
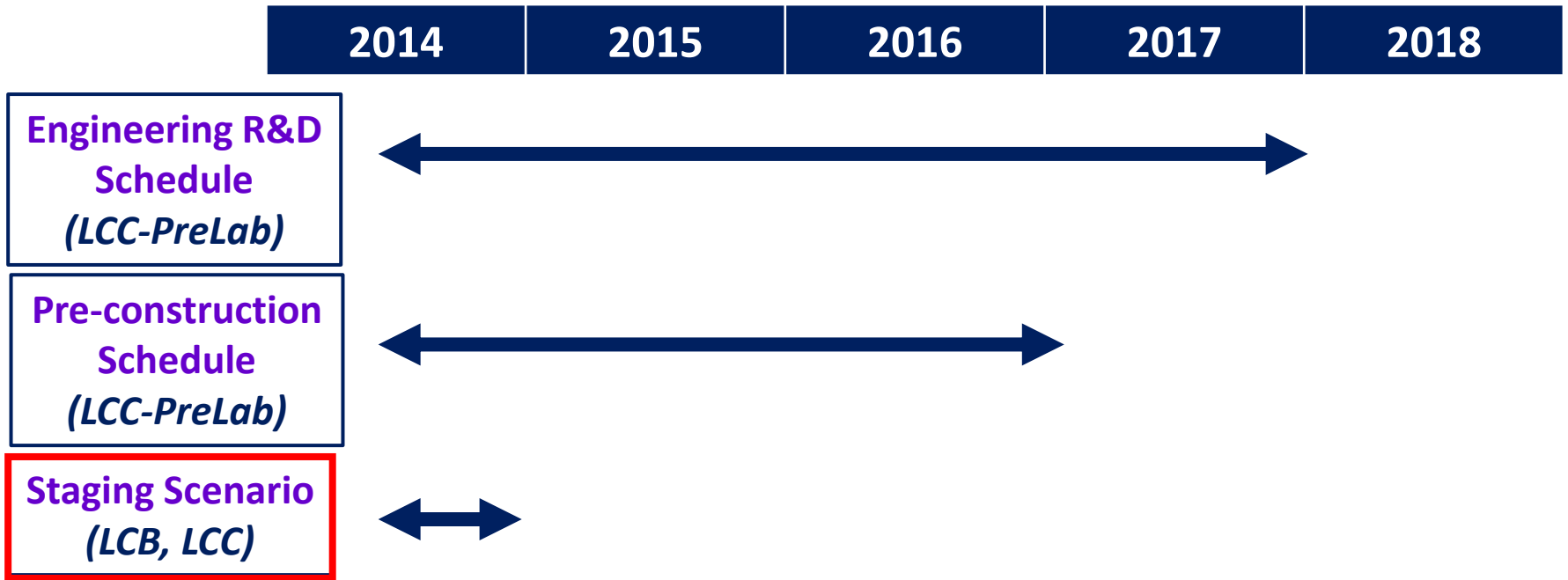
Pre-Construction Schedule (2)



Construction works

progress currently limited by funding

Further Action Plan before Construction



Further Action Plan before Construction

2014	2015	2016	2017	2018
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Engineering R&D
Schedule
(LCC-PreLab)

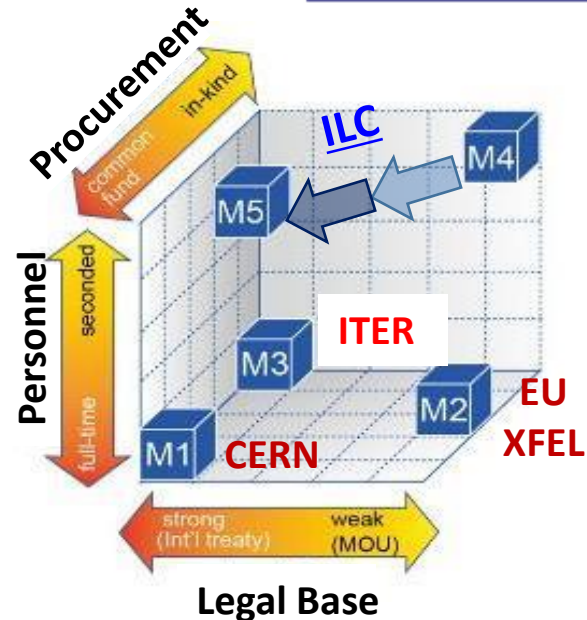
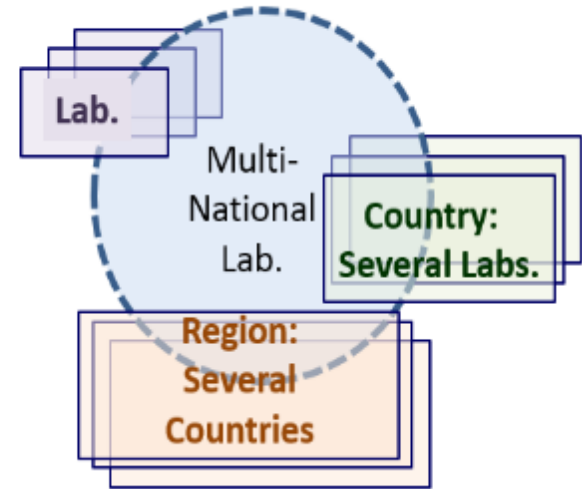
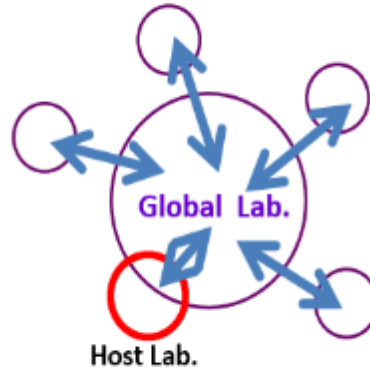
Pre-construction
Schedule
(LCC-PreLab)

Staging Scenario
(LCB, LCC)

Lab Design: Organization,
Structure (LCB, LCC)

LCB WG (Feb. 2014~)
PIP & PDG

Possibility 2 : Multi-National Lab.



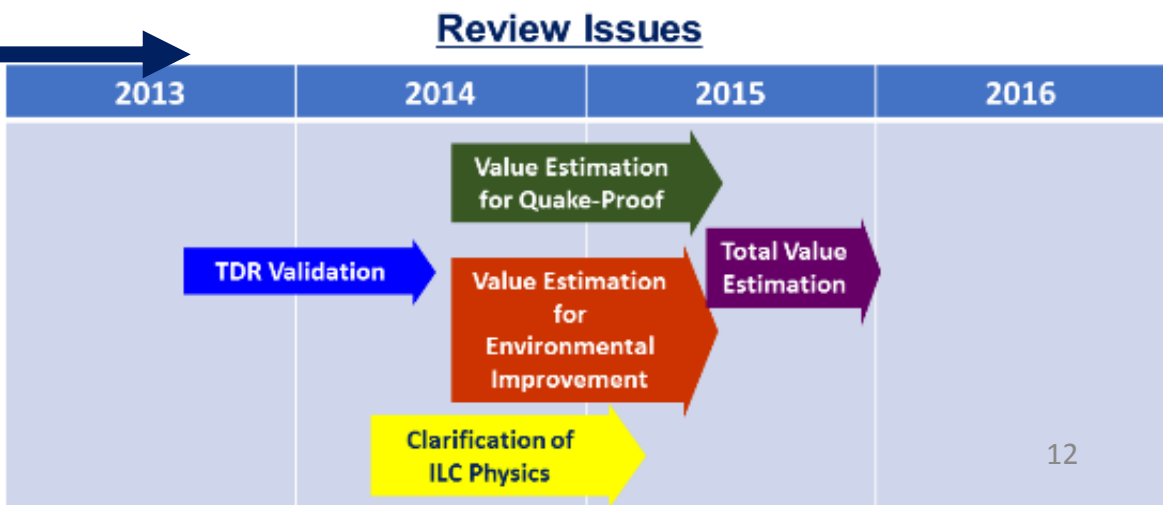
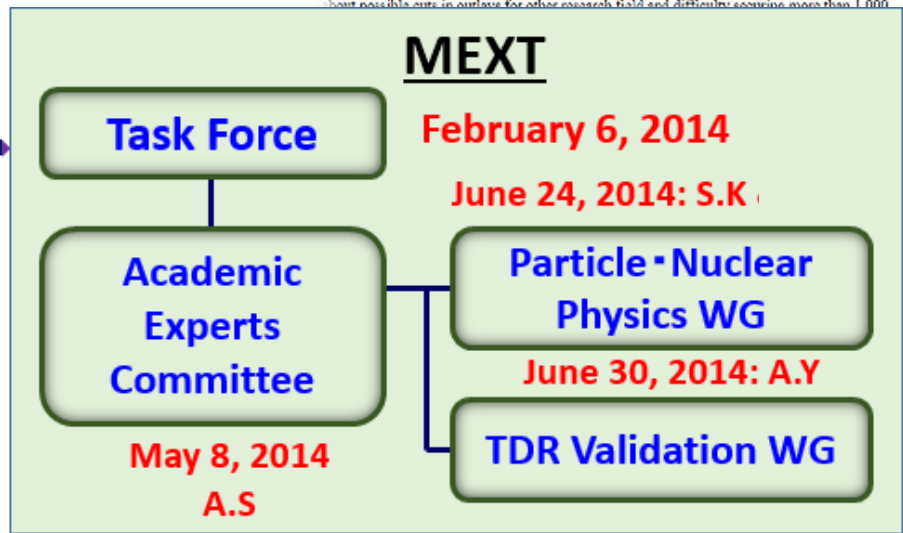
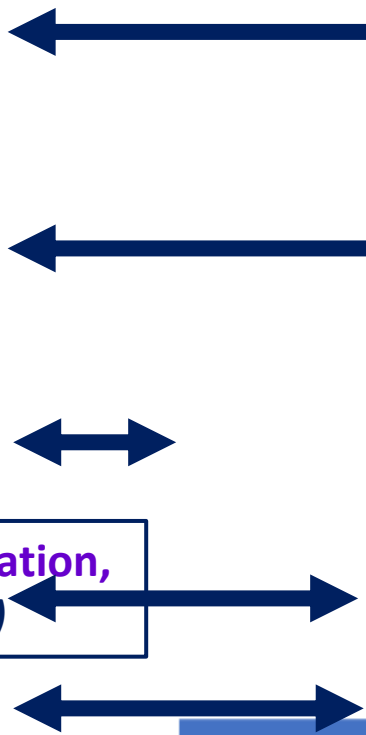
Further Action Plan before Construction

Japan Needs Years to Make Decision on ILC Building: Science Council Panel

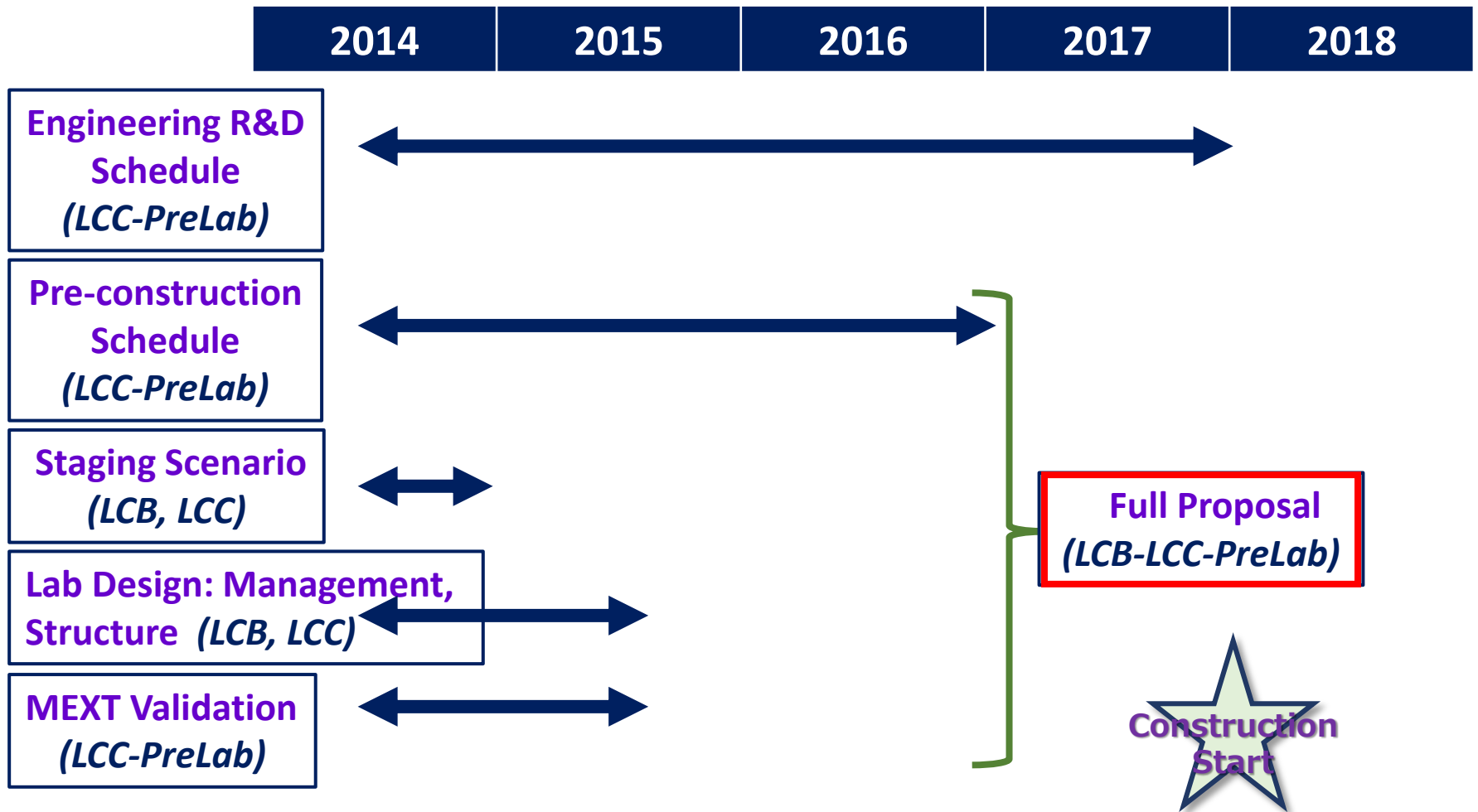
Tokyo, Aug. 6 (Jiji Press)—Members of a Science Council of Japan panel agreed in principle on Tuesday that Japan should spend so much money to construct a next-generation large-scale particle accelerator. After the day's meeting, the panel reviewing the international linear collider (ILC) project, said at a press conference that there are uncertain elements to be removed before the panel gives the green light. "It is yet to be known if the Japanese public will appreciate huge government spending for such a basic scientific study despite Japan's severe fiscal condition," he said. He also expressed concerns about possible cuts in outlays for other research fields and difficulty securing more than 1,000



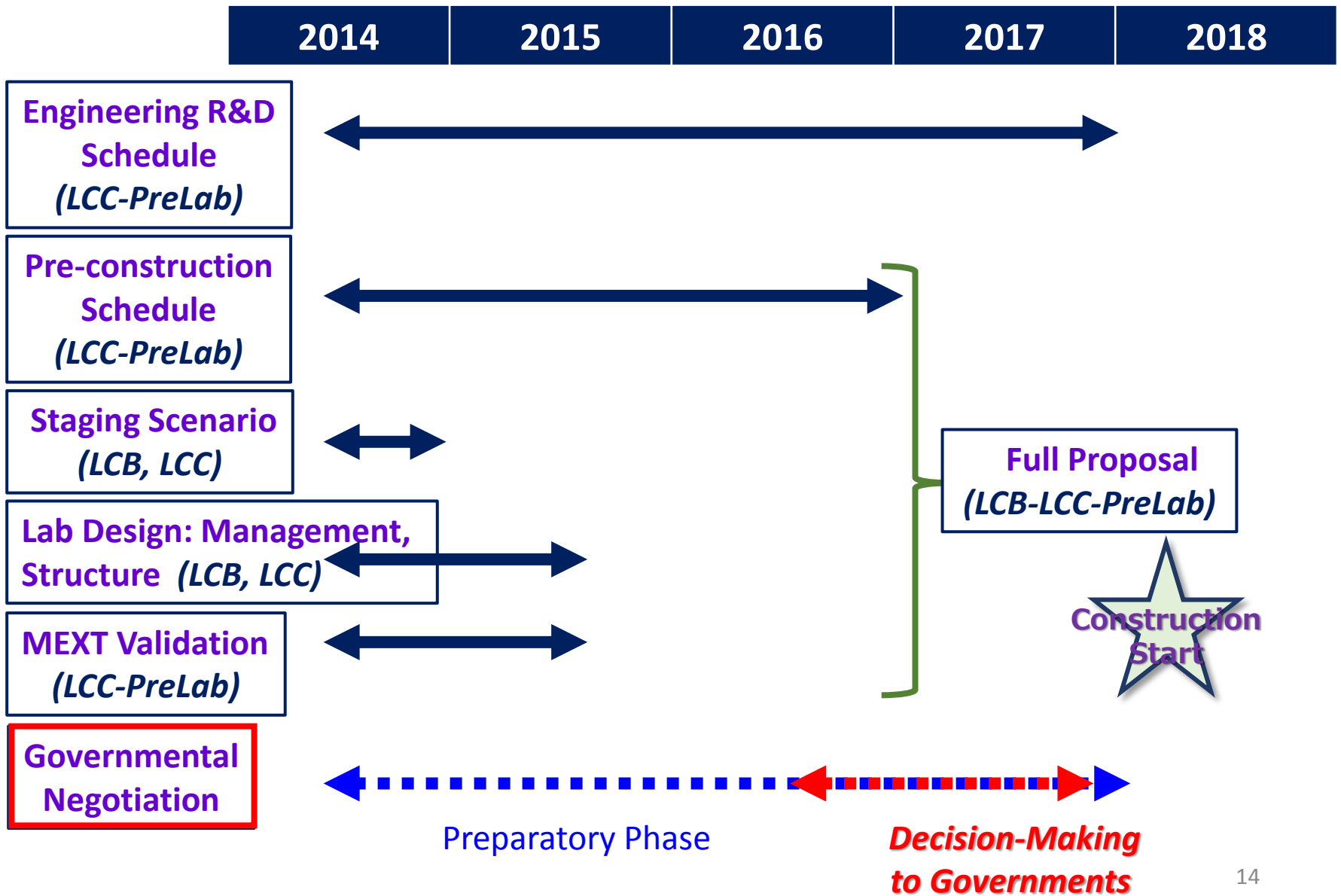
- Engineering R&D Schedule (LCC-PreLab)
- Pre-construction Schedule (LCC-PreLab)
- Staging Scenario (LCB, LCC)
- Lab Design: Organization, Structure (LCB, LCC)
- MEXT Task Force (LCC-PreLab)**



Action Plan before Construction



Further Action Plan before Construction

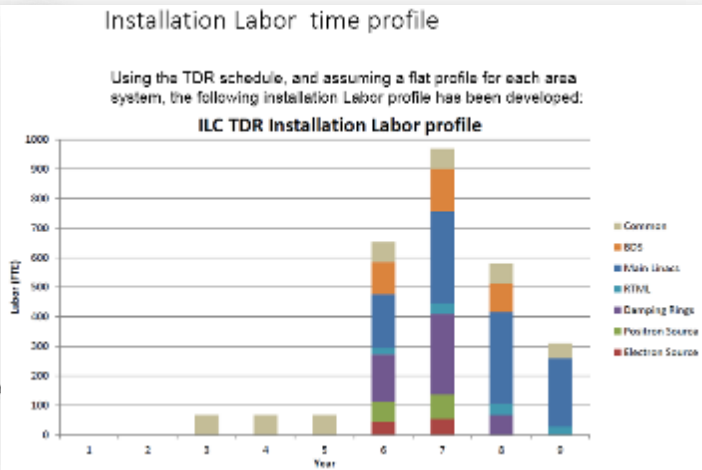
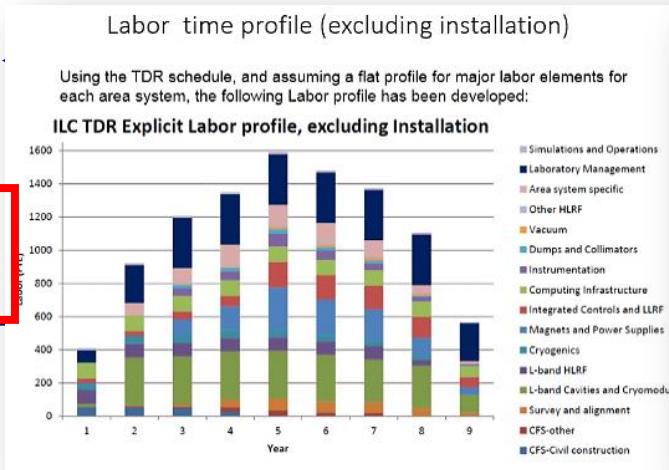


Action Plan before Construction

2014	2015	2016	2017	2018
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Governmental
Negotiation

Site-Dependent Value
(LCC-LCB-PreLab)

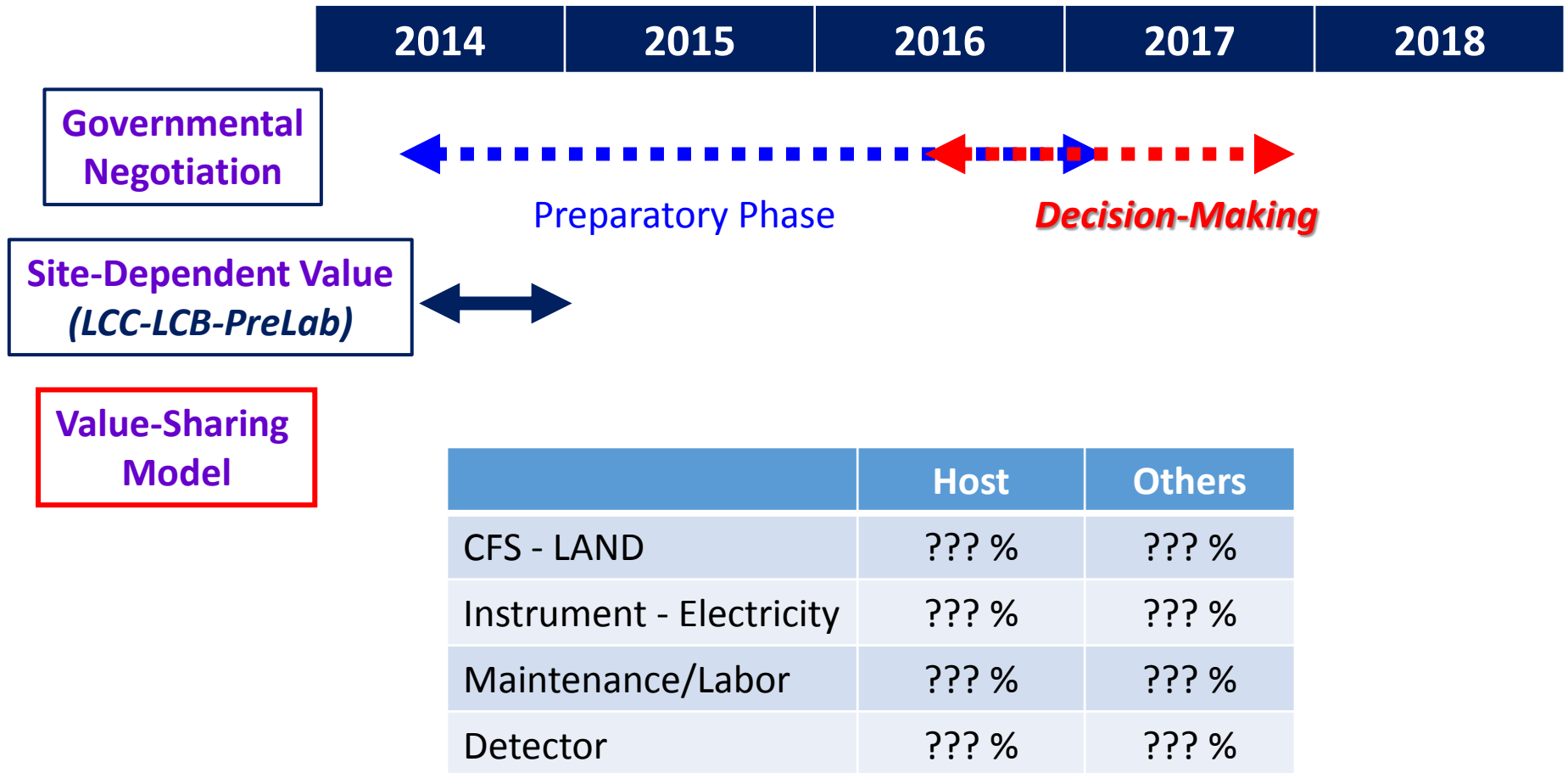


TDR Value Estimation

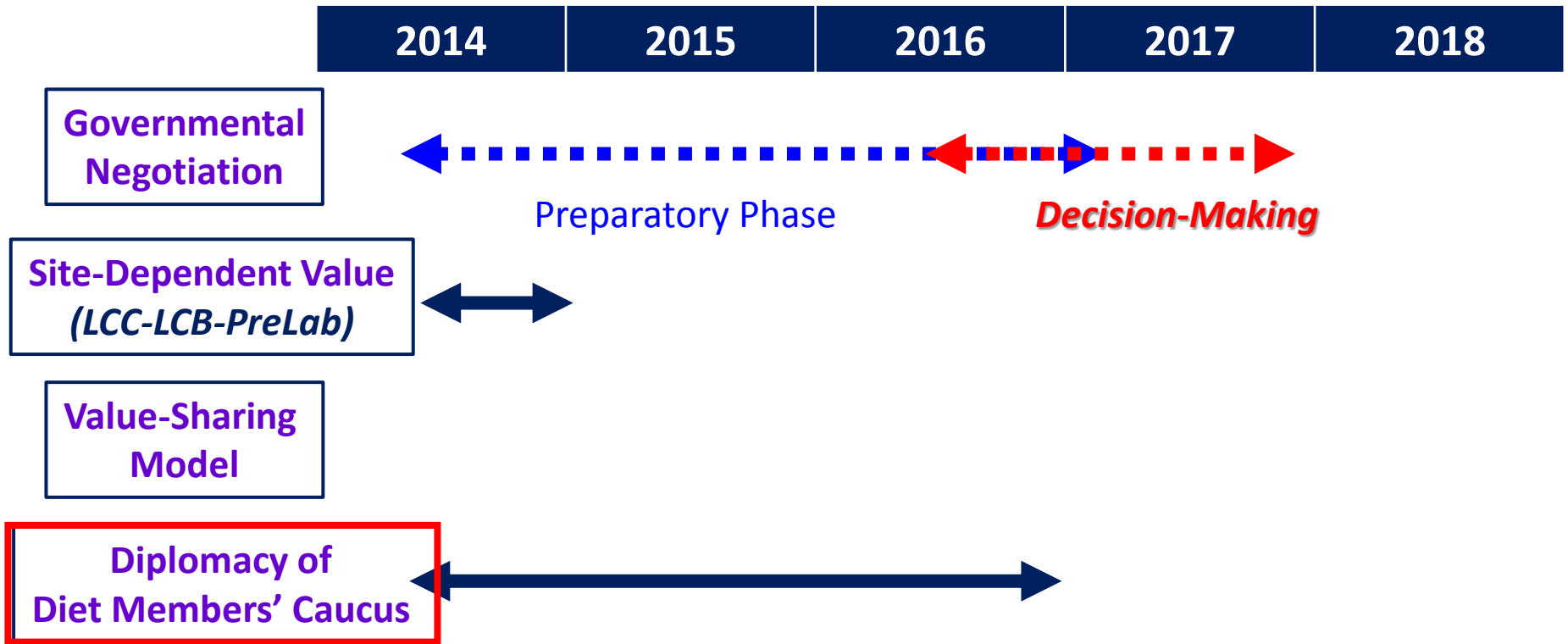
	Value Site specific (BILCU)	Value Shared (BILCU)	Value Total (Ratio)	Value Total (BILCU)	Value Prem.: 26% (BILCU)	Value converted (BJY)	Value Prem.: 26% converted (BJY)	Labor (M p-hr)	Labor Prem.: 24%
RDR-2007 Converted w/ 117 Y/5			(1)	6.31		739		24.4	
RDR-2012 (15% inflation)			(1.15)	7.27		877		24.4	
TDR-Averaged	1.50	6.28	(1.23)	7.78					
TDR-AS (ppp)	1.76 <small>(109/127Y/5)</small>	6.23 <small>(127Y/5)</small>	(1.26)	7.98	2.04	967*	251	22.9	5.5
TDR-AS (EX-a)	1.76 <small>(109/127Y/5)</small>	3.47 <small>(3.47US) (100Y/5)</small> 2.75 <small>(2.49GEu) (115Y/Eu)</small>	(1.26)	7.98		830	216	22.9	5.5

@ 100 JYen/USD
@ 115 JYen/Euro

Action Plan before Construction



Action Plan before Construction





Meeting of the U.S. – Japan
Science and Technology
Joint High Level Committee



April 30, 2013
Washington, D.C.

2nd Meeting in July, 2014



US-Japan Advanced Science and Technology Symposium

This symposium gathers US and Japanese leaders from policy makers for the field of science and innovation, academia and industry. With the International Linear Collider (ILC) as an example, the discussion will cover the US-Japan co-operation in science and technology, working together for innovation and the realization of economic growth as well as methods and policies for the development of scientific and technical human resources.



Federation of Diet Members for the ILC

Room 302 (Office of Takeo Kawamura)
Second Members' Office Building of the House of Representatives
2-1-2 Nagata-cho, Chiyoda-ku, Tokyo 100-8962, Japan

January 8, 2014

January 8, 2014

Report from ILC Planning Office, KEK
March 2014

The Honorable Ernest Moniz
Secretary, U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585
United States of America

Dear Dr. Moniz:

We, the Diet members of Japan, realize the International Linear Collider (ILC) from the House of Representatives of the policymakers in Japan.

The ILC is a global project, to be designed and realized by a worldwide cooperation of scientists and engineers. In Japan, for the first time ever, the government has allocated a budget for the coming Japanese fiscal year to investigate and examine the ILC project itself, which is in addition to the existing funding for the research and development. This has great significance in that the Japanese government has shown a vital interest in the ILC project.

The Science Council of Japan, from a scientific viewpoint. Despite the media's financial concern still remains, the concrete tasks for the realization of the ILC. The ultimate decision for Japan to host the ILC project rests with the Japanese government and the Diet. Both houses of the Diet are strongly in support of

We have reached the stage where we must now work together with other governments for the realization of the ILC. The Japanese government intends to perform concentrated investigations and address the major issues and arrive at a conclusion about hosting the ILC by the end of JFY2015.

The most important is the project. For this purpose, we are starting investigations abroad and is starting funding a partnership

government and scientists. Thus a strong involvement from the United States in the ILC project is indispensable for its realization. The United States has played and continues to play a central role in the worldwide efforts in designing and developing the key technologies for the ILC. These technologies and the people who have developed them are the linchpins for building the ILC. The Particle Physics Project Prioritization Panel (P5) commissioned by the DOE and NSF is regarded as very important to the Japanese government, particularly MEXT, who will be closely watching the discussions on P5. We hope to inform the key players in the P5 deliberations that these preparations are taking place.

The ILC is a global project, to be designed and realized by a worldwide cooperation of scientists and engineers. In Japan, for the first time ever, the government has allocated a budget for the coming Japanese fiscal year to investigate and examine the ILC project itself, which is in addition to the existing funding for the research and development. This has great significance in that the Japanese government has shown a vital interest in the ILC project.

We have reached the stage where we must now work together with other governments for the realization of the ILC. The Japanese government intends to perform concentrated investigations and address the major issues and arrive at a conclusion about hosting the ILC by the end of JFY2015.

Kenji Kosaka

Deputy Chair, Federation of Diet Members for the ILC
Member, House of the Councillors of Japan

Conversation on ILC between MEXT Minister Mr. Hakubun Shimomura and DOE Secretary Dr. Ernest Moniz

January 9, 2014



モニーツ米国エネルギー省長官を訪問し、国際リニアコライダー計画などについての会談を行いました。

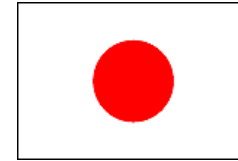
From Mr. Shimomura's HP

April 28, 2014



米国エネルギー省のモニーツ長官と会談しました。原子力、核セキュリティや国際リニアコライダー計画などについて意見交換しました。【秘書投稿】

A letter to reiterate the conversation regarding the ILC project in Japan was sent from Mr. Shimomura to Dr. Moniz in February 2014.



October 2012



March 2013



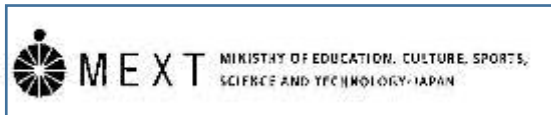
March 2013



April 2014

May 2014

Letter from



Federation of Diet Members for the ILC
Room 302 (Office of Takeo Kawamura)
Second Members' Office Building of the House of Representatives
2-1-2 Nagata-cho, Chiyoda-ku, Tokyo 100-8962, Japan

to

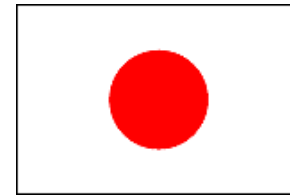
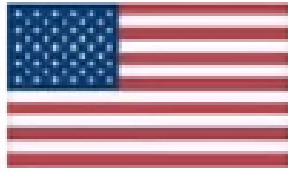
CERN DG

EU Government

June 2014

Meeting : France-Japan Friendship Diet Members' Caucus in Tokyo





July 2014

Meeting : US-Japan Friendship Diet Members' Caucus in Washington

7/22 Round Table Discussions with
米OSTP, DOE and Physicists



7/23 Discussions with
Holdren 大統領科学補佐官他



7/23 シンシア・ルミス
下院議員の補佐官

7/23 ランディー・ホルトグレイン
下院議員

7/23 ラッシュ・ホルト
下院議員



Summary

Action Plan before Construction

