

Americas Workshop on Linear Colliders

12-16 May 2014

Fermilab, Batavia, Illinois, USA

www.linearcollider.org/awlc14



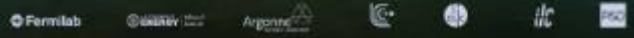
The Americas Workshop on Linear Colliders is the next in the series of regional linear collider workshops held around the world. The purpose of the workshop is the continued development of the physics case, and advancing detector and accelerator designs for a high energy linear electron-positron collider. The workshop will consist of plenary and parallel sessions as well as reviews of the collaborations involved in the development of linear colliders.

Workshop location
Fermilab, Batavia, Illinois, USA
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Workshop location
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ILC Status from Japan

[Atsuto Suzuki](#)

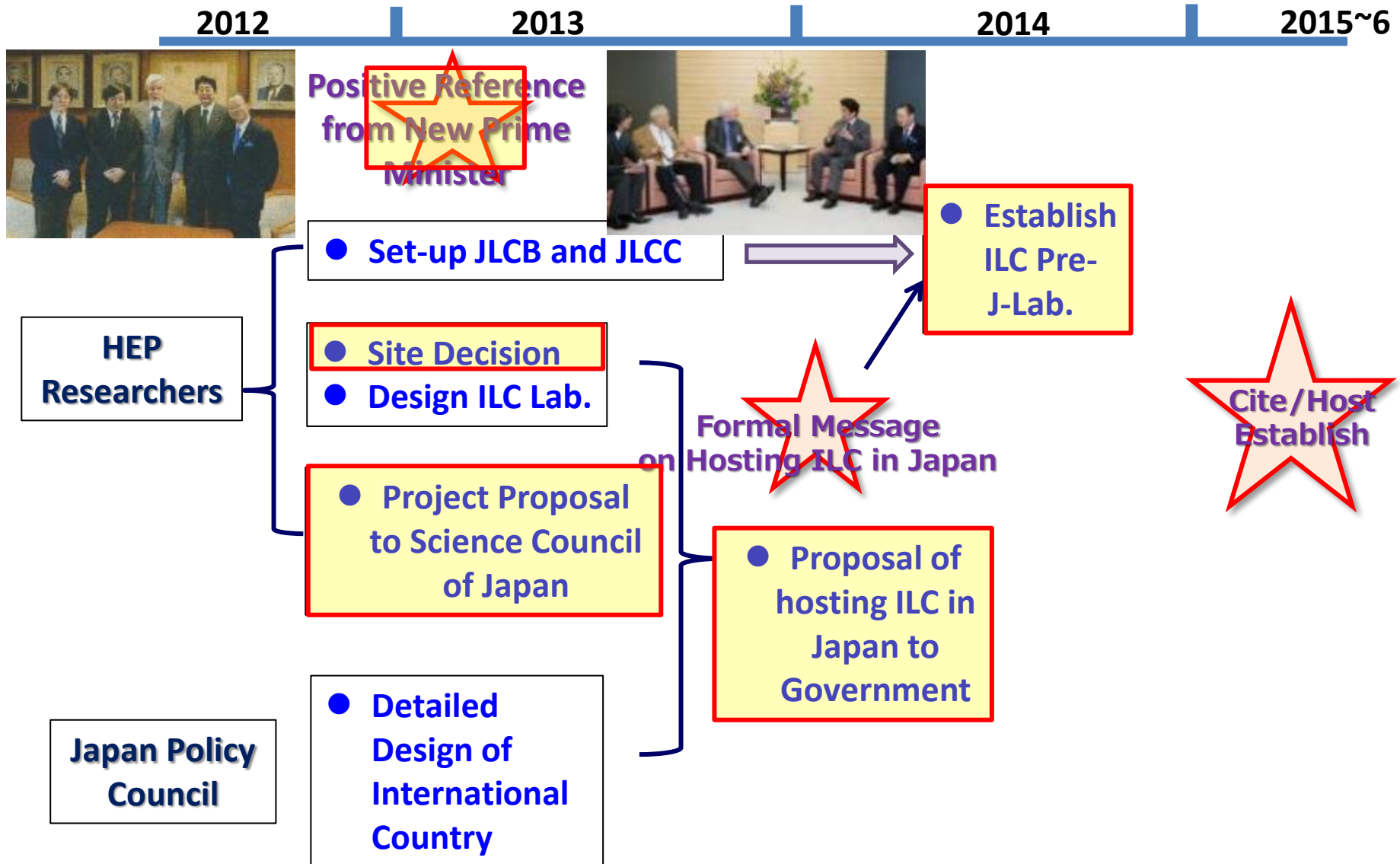


INTER-UNIVERSITY RESEARCH INSTITUTE CORPORATION
HIGH ENERGY ACCELERATOR RESEARCH ORGANIZATION

1. Toward ILC Construction : Japanese Activities

Action Plan in 2012

*at European Strategy Meeting
Dec. 11, 2012*



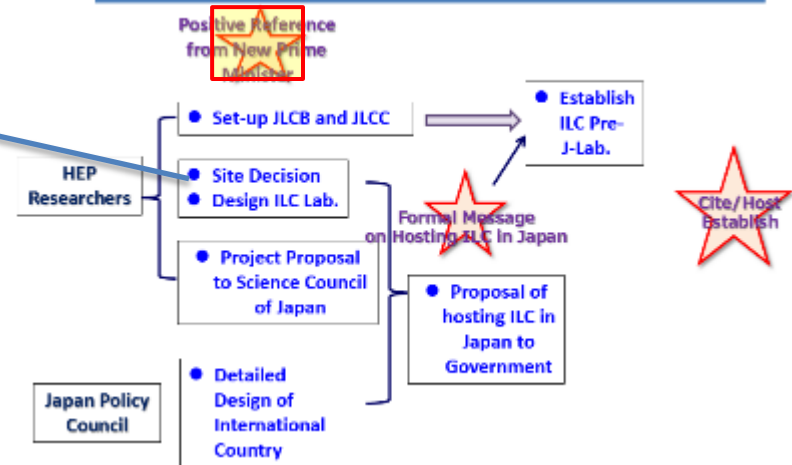
- Site Decision
- Design ILC Lab.

January, 2013

Site Evaluation Committee

- Technical Evaluation Committee
- Socio-Environmental Evaluation Committee
- International Evaluation Committee

2012 | 2013 | 2014 | 2015~6



August, 2013

A site chosen by the Japanese HEP community

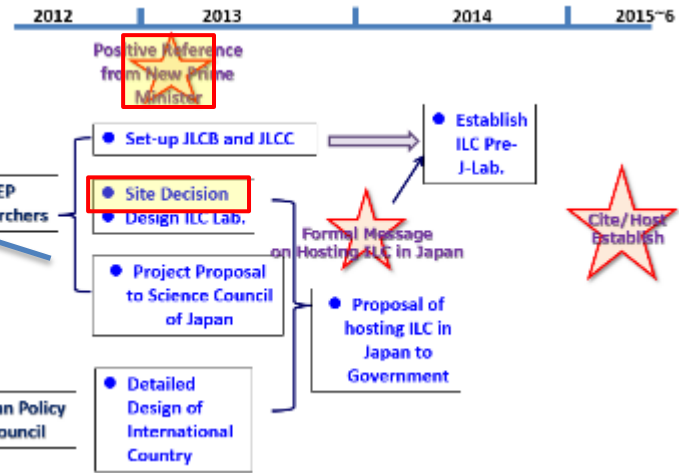
- Japanese Mountainous Sites -



In August 2013, the Japanese site evaluation committee by scientists and experts in Japan recommended the Kitakami-site as a candidate for ILC. Internal Review Committee concluded that the proposed site is in good geological conditions.

● Project Proposal to Science Council of Japan

Review by Japan Science Council

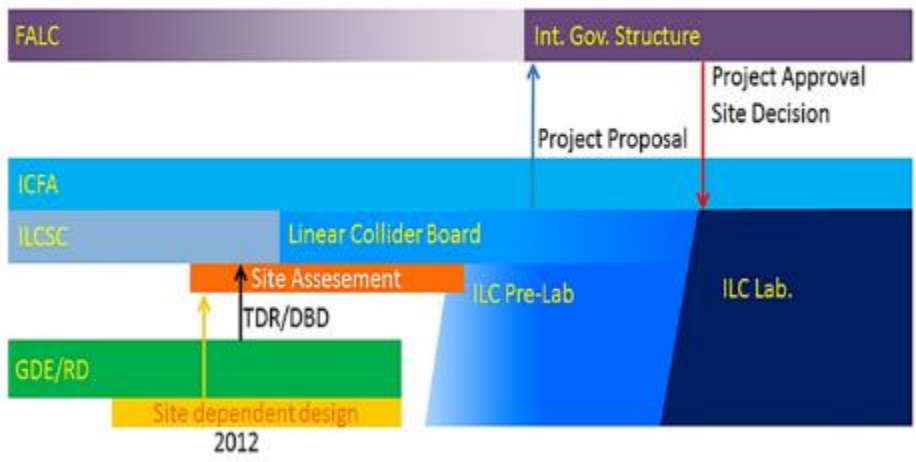


September 26, 2013

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

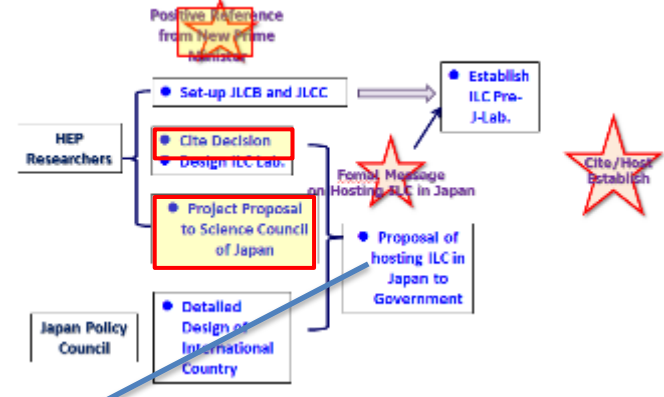
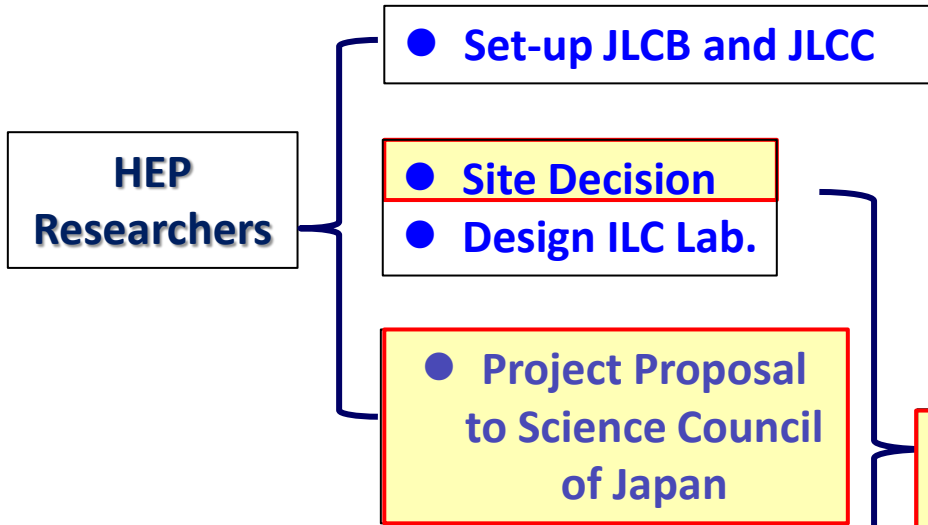
It is essential to start investigating the reliability on hosting the ILC in Japan, taking 2~3 years.

Possible Time-Sequence of Processes toward Realization



next-generation large-scale particle accelerator. ...ing, University of Tokyo Prof. Yasuhiro Ie, head of the panel ...ollider (ILC) project, said at a press conference that there are ... before the panel gives the green light. ... for such a ... concerns ... 1,000 ... ed to cost 630 billion to 830 billion yen, half of which Japan is ... exists proposed to build the linear collider in either the Kitakami ... or the Sefuri mountains in southwestern Japan. (2013/08/06-23:28)

our understanding:
"go-sign" of ILC pre-Lab.



Formal Message on Hosting ILC in Japan

Proposal of hosting ILC in Japan to Government

September 28, 2013

Formal message on starting diplomatic negotiations of the ILC project by Japanese government

TDR



October, 2013

NEWSLINE

THE NEWSLETTER OF THE LINEAR COLLIDER COMMUNITY

AROUND THE WORLD

ILC moves forward in Japan

Hitoshi Murayama and Satoru 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,



Image: Rey.

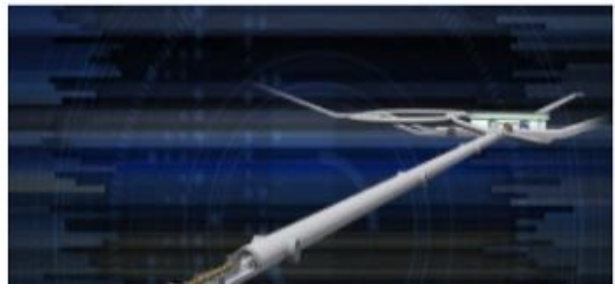
On 2 October, Minister of MEXT said that the government will create a working group of advisors with specialists from various fields which will review the possible issues on the realization of the ILC in Japan.

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

➔ **Establish ILC Pre-J-Lab.**

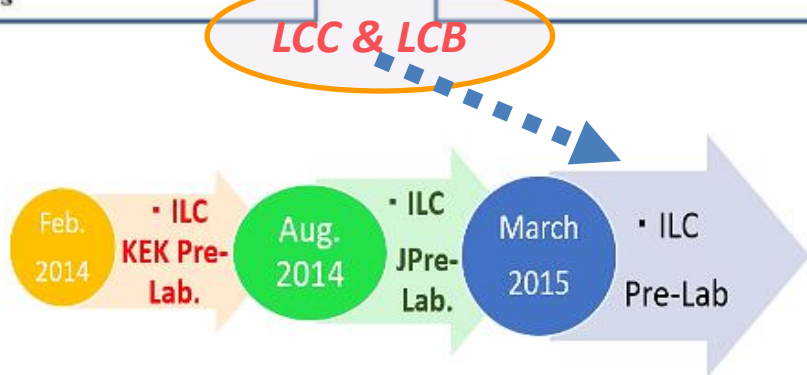
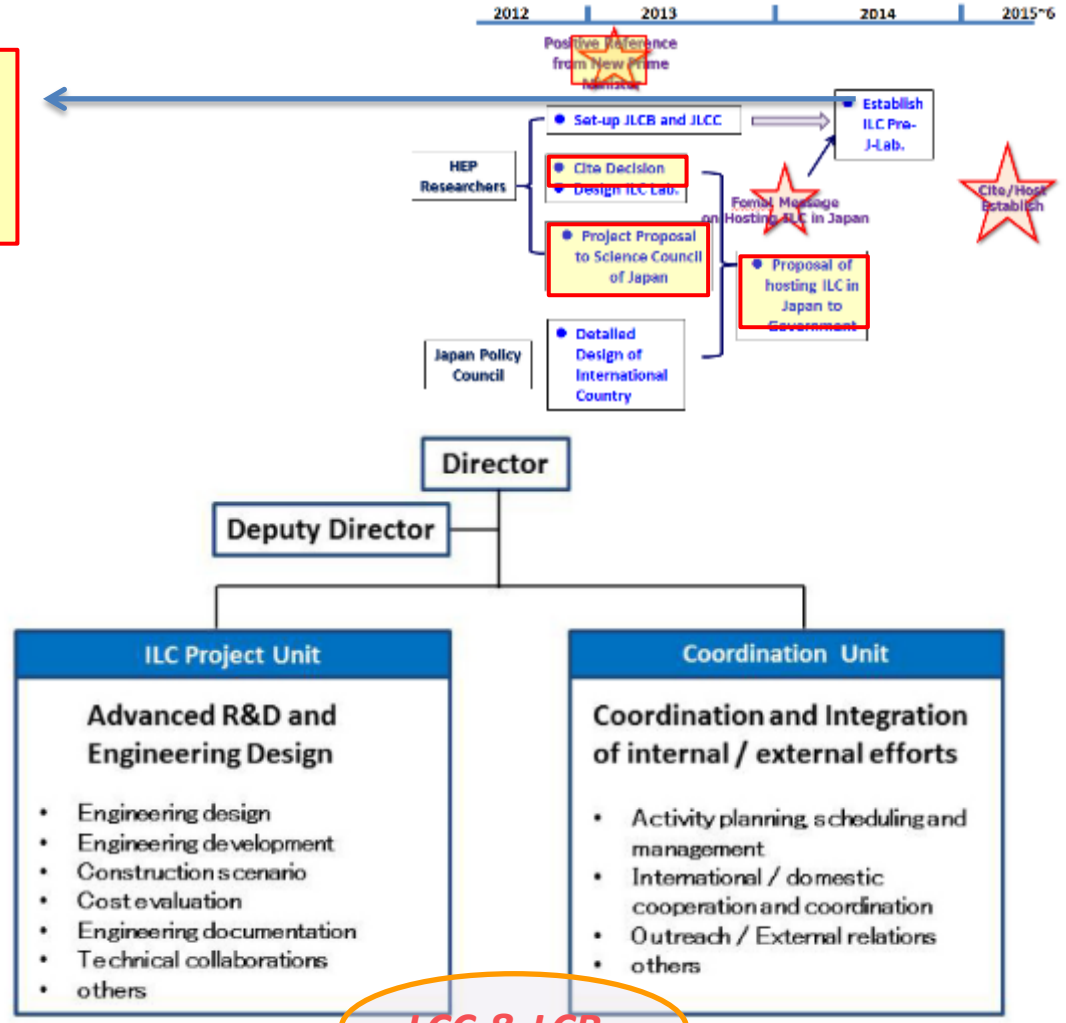
February 6, 2014

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



February

Tsukuba, ~~January 2014~~ 2014. KEK, Japan's High Energy Accelerator Research Organization, has set up a Planning Office for the International Linear Collider. The office will be headed by Atsuto Suzuki, Director General of KEK, and will oversee a broad range of activities required for realisation of the ILC, in addition to the ongoing efforts.



Report from ILC Planning Office, KEK March 2014

1. Progress in Japan

- Started cost estimation case studies depending on the energy-upgrade scenarios based on the TDR.
- In planning to precede investigation of the fraction of in-kind contributions and common funds in the cost estimation case studies. Referring the LHC construction in which the contribution from the Japanese industry was made in similar framework. The study is needed to be made, at first, by scientist. Created information material that explains the physics output of the ILC as a staged project (Appendix 1).
- Case studies of the necessary manpower and its cost will now begin.
- Begin preparation of information material explaining the technology applications, economic effects, and impact on the education and civil life.
- Advanced Accelerator Association Promoting Science and Technology (AAA): Large-scale Projects Working Group is collecting information about the applications of accelerator technology around the world and the potential of applications of the ILC technology. Technology Working Group started investigation of improving the energy efficiency during the operation (via reduced energy consumption and energy recovery). Board meeting decision to begin study to make AAA into an incorporated association.
- Ramping up efforts by researchers to gain further understanding from other fields.
- The Federation of Diet Members for the ILC is holding board meetings, in which lawmakers, bureaucrats, and scientists share information and exchange opinions about the domestic and international situation. The Federation is approaching the Prime Minister and MET Minister as needed. Plans for further diplomatic visits by lawmakers to the United States and European countries.
- Domestic candidate site: In Tohoku, preparations are ongoing toward an environmental impact assessment, creation of a framework for accepting the project, and enhancing the regional cooperation. ILC Asia-Kyushu Promotion Council (ILC-AKPC) has not accepted the result of the site evaluation. The Federation of Diet Members for ILC has asked to present explicit appeal for possible missteps in the scientific evaluation. Particle physicists (both theory and experiments) at Kyushu University and Saga University have signed letters agreeing with the result of the site evaluation and requesting constructive discussion. Experts in various fields such as geology, sociology, and physics at Kyushu University and Saga University formed a committee and will report in April. Further efforts will be considered taking into account this report.

2. International communication

- United States:** The Particle Physics Project Prioritization Panel (P5) will report in May.
- The Federation of Diet Members for the ILC has delivered a letter to the US Cabinet, Department of State, and the Department of Energy (Mr. Kenji Kosaka's visit in January). Cooperation among the executive members for the Federation and MENT Minister. (Appendix 2)
- MENT Minister, Mr. Hakubun Shimomura, met DOE Secretary, Dr. Ernest Moniz, to discuss the ILC project (during Mr. Shimomura's visit in January). (Appendix 3)
- Comment by DOE Secretary, Dr. Ernest Moniz, and Science and Technology Adviser to the Secretary of State, Dr. E. William Colglazier: "ILC is regarded as an important project"
- Worldwide:** International Committee for Future Accelerators is investigating the organization and management of the International Laboratory for the ILC, facilitating the discussion between the governments, and setting up a framework for the international detailed engineering design.
- India:** Enthusiastic about the ILC technology for applications in energy utilization and strongly interested in joining.
- China:** Expressed support for the ILC. Plans to ask the government to support 5% of the construction cost. The Institute of High Energy Physics (Beijing) has also announced an independent concept of a circular collider with a circumference of 50-70 km.

Appendix 1

Phase II Roadmap of Collaborative Strategy for ILC Experiment

| Category | Item | 2014/1 | 2014/2 | 2014/3 | 2014/4 |
|-----------------|-----------------|--------|--------|--------|--------|
| ILC Experiment | ILC Experiment | ○ | ○ | ○ | ○ |
| | ILC Experiment | ○ | ○ | ○ | ○ |
| | ILC Experiment | ○ | ○ | ○ | ○ |
| | ILC Experiment | ○ | ○ | ○ | ○ |
| ILC Accelerator | ILC Accelerator | ○ | ○ | ○ | ○ |
| | ILC Accelerator | ○ | ○ | ○ | ○ |
| | ILC Accelerator | ○ | ○ | ○ | ○ |
| | ILC Accelerator | ○ | ○ | ○ | ○ |
| ILC Detector | ILC Detector | ○ | ○ | ○ | ○ |
| | ILC Detector | ○ | ○ | ○ | ○ |
| | ILC Detector | ○ | ○ | ○ | ○ |
| | ILC Detector | ○ | ○ | ○ | ○ |

Appendix 2

Federation of Diet Members for the ILC

Letter to the US Cabinet, Department of State, and the Department of Energy

January 15, 2014

The Honorable Secretary of State, United States of America, Washington, DC 20520

The Honorable Secretary of Energy, U.S. Department of Energy, Washington, DC 20585

The Honorable Secretary of State, United States of America, Washington, DC 20520

The Honorable Secretary of Energy, U.S. Department of Energy, Washington, DC 20585

The Honorable Secretary of State, United States of America, Washington, DC 20520

The Honorable Secretary of Energy, U.S. Department of Energy, Washington, DC 20585

Dear Secretary of State, Secretary of Energy, and Secretary of State:

We are pleased to inform you that the Federation of Diet Members for the ILC has delivered a letter to the US Cabinet, Department of State, and the Department of Energy on January 15, 2014.

The letter expresses our strong support for the ILC project and our hope that the US government will support the ILC project.

We are grateful for your kind response and hope that the US government will support the ILC project.

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Meeting with the US Department of Energy

Appendix 3

MENT Minister, Mr. Hakubun Shimomura, met DOE Secretary, Dr. Ernest Moniz, to discuss the ILC project (during Mr. Shimomura's visit in January). (Appendix 3)

Comment by DOE Secretary, Dr. Ernest Moniz, and Science and Technology Adviser to the Secretary of State, Dr. E. William Colglazier: "ILC is regarded as an important project"

Worldwide: International Committee for Future Accelerators is investigating the organization and management of the International Laboratory for the ILC, facilitating the discussion between the governments, and setting up a framework for the international detailed engineering design.



Meeting with the US Department of Energy

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.

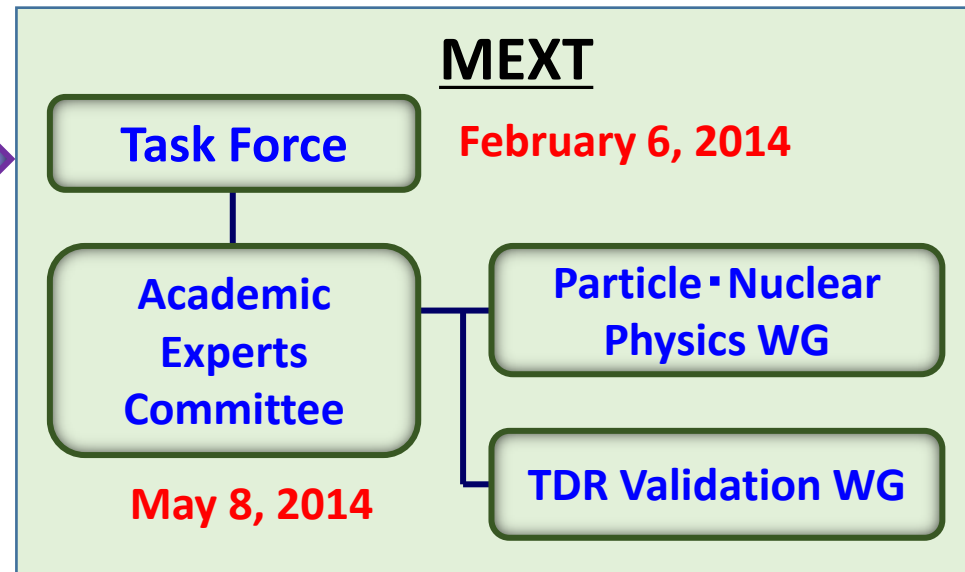
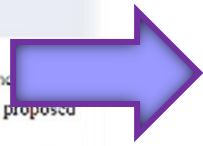
"It is yet to be known if the Japanese public will appreciate huge government spending for such a basic scientific study despite Japan's severe fiscal condition," Ie said. He also expressed concerns about possible cuts in outlays for other research field and difficulty securing more than 1,000 scientists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

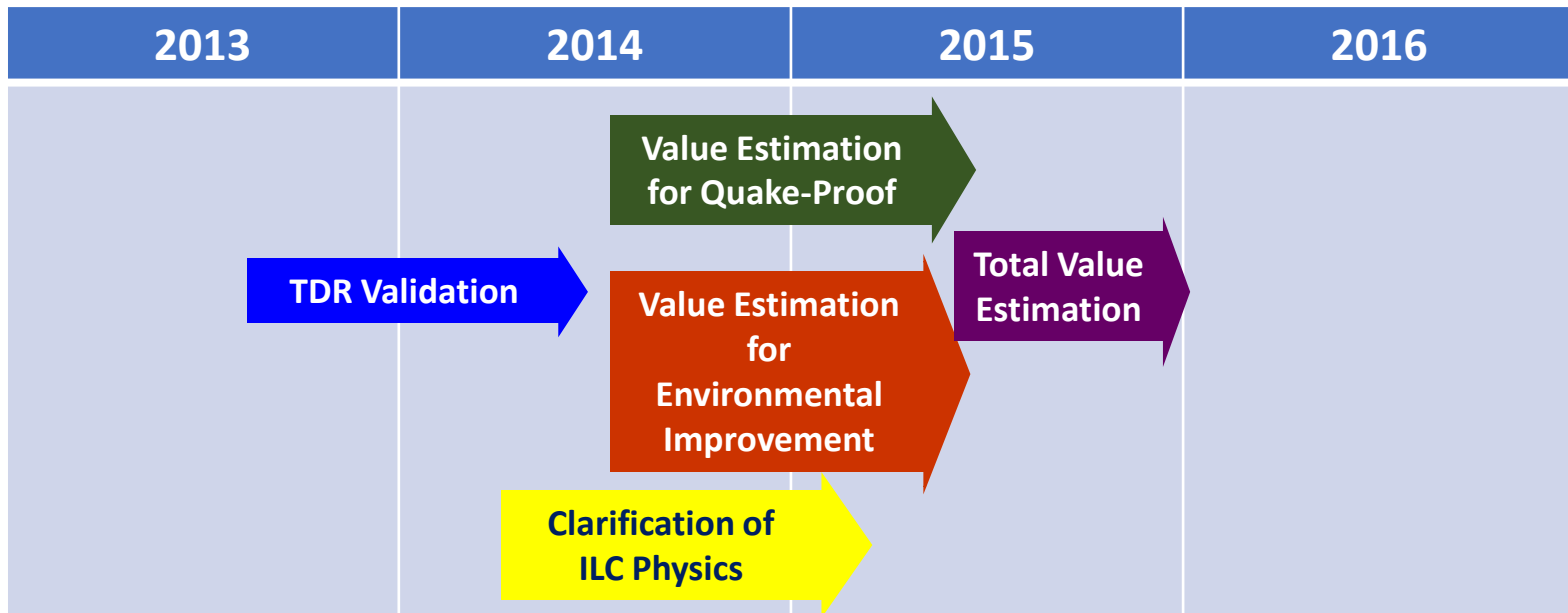
An international group of physicists proposed to build the linear collider in either the Kitakami mountains in northeastern Japan or the Sefuri mountains in southwestern Japan.

(2013/08/06-23:28)

Review by Science Council of Japan

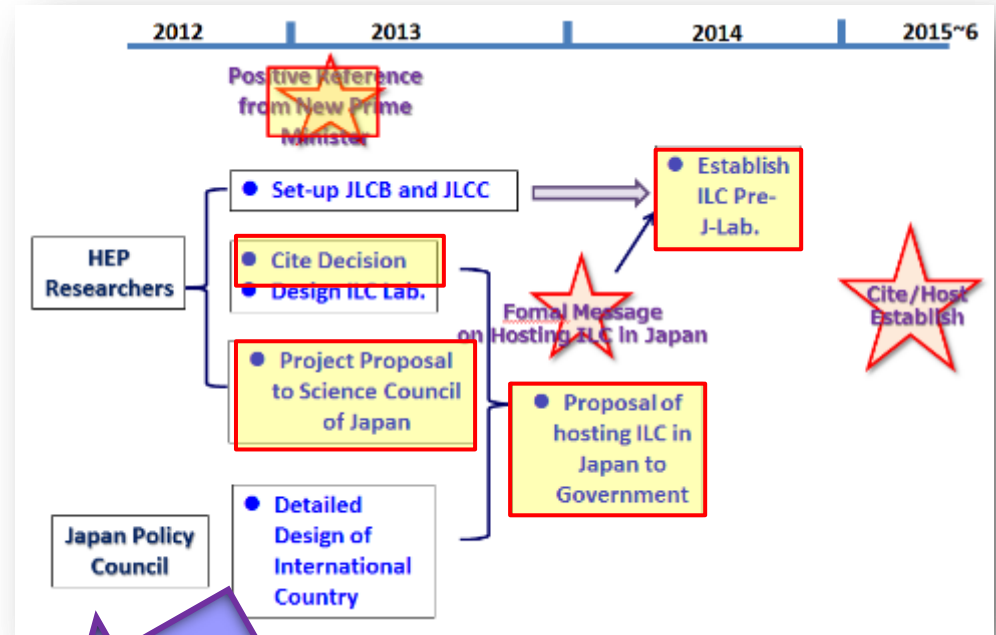


Review Issues



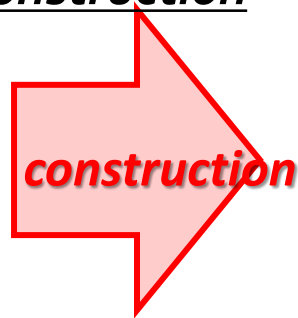
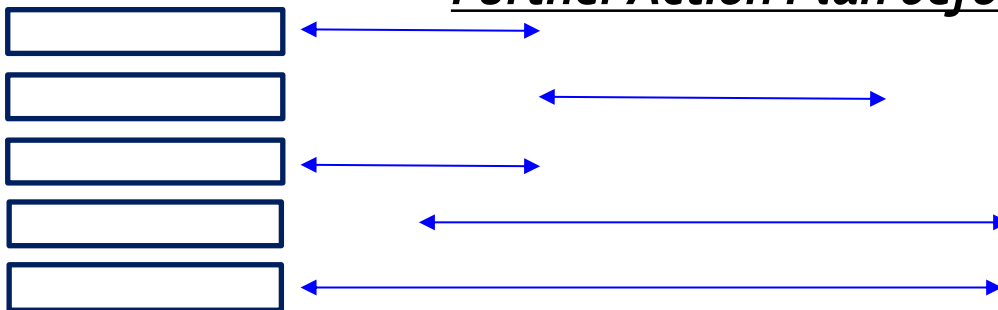
2. Action Plan ~~toward~~ before Construction in 2014

2012



2014

Further Action Plan before Construction



2014

2015

2016

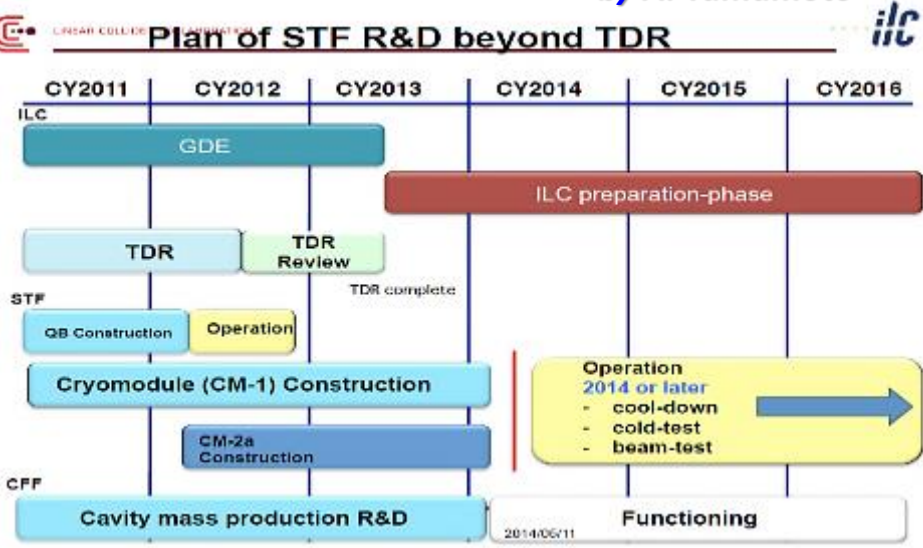
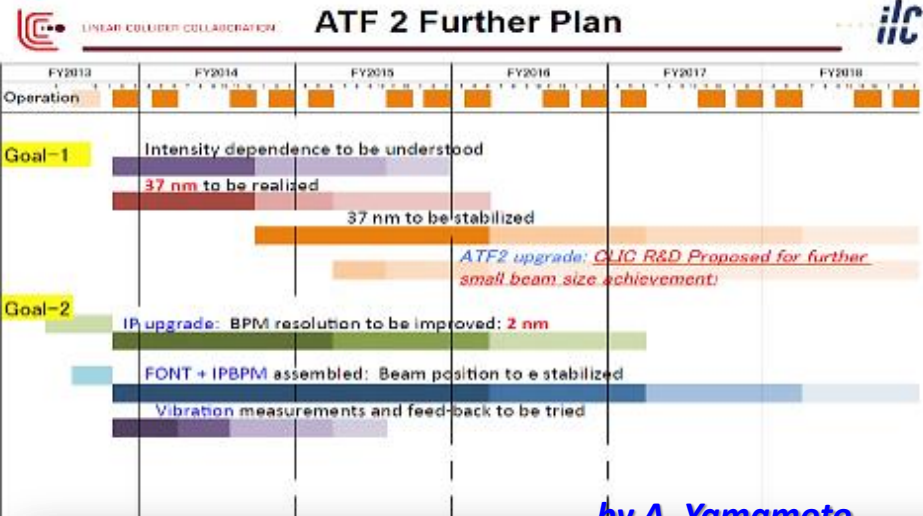
2017

2018

Engineering R&D Schedule (LCC-PreLab)



Expense Account for Preparatory Phase



ILC 建設準備・年次計画 2013

| 区分 | 内容 | 人員/物件費 | 1年目 | 2 | 3 | 4 | 5 | 年次合計 | 合計 |
|-------|----------------------------------|---------|---|-----------|-----------|-----------|-----------|------------|------------|
| ① | 加速器 システム設計 | FTE: 25 | 150,000 | 150,000 | 150,000 | 1,500,000 | 1,500,000 | 750,000 | 19,850,000 |
| | EDMS データベース整備 | --- | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 100,000 | |
| | 要素詳細設計 製作・量産化技術準備 (SCRF空洞二重化技術等) | 25 | 150,000 | 150,000 | 150,000 | 150,000 | 150,000 | 750,000 | |
| | 製作・量産化技術準備 (SCRF空洞二重化技術等) | --- | 250,000 | 400,000 | 700,000 | 1,200,000 | 1,500,000 | 4,000,000 | |
| ② | 検出器 システム設計 | 10 | 50,000 | 60,000 | 50,000 | 60,000 | 60,000 | 300,000 | 1,900,000 |
| | 技術開発/検証 | --- | 250,000 | 300,000 | 300,000 | 400,000 | 400,000 | 1,600,000 | |
| ③ | 輸送 計算詳細設計 | 5 | 30,000 | 30,000 | 30,000 | 30,000 | 30,000 | 150,000 | 2,400,000 |
| | 土木建築詳細設計 | --- | 250,000 | 500,000 | 500,000 | 500,000 | 500,000 | 2,250,000 | |
| ④ | 安全 放射線、高圧ガス、一級安全設計 | 3 | 18,000 | 18,000 | 18,000 | 18,000 | 18,000 | 90,000 | 190,000 |
| | 安全設計 | --- | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 100,000 | |
| ⑤ | 環境 アセスメント | 2 | 12,000 | 12,000 | 12,000 | 12,000 | 12,000 | 60,000 | 160,000 |
| | 環境アセスメント | --- | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 100,000 | |
| ⑥ | 運営 国際協力、研究所整備 | 5 | 30,000 | 30,000 | 30,000 | 30,000 | 30,000 | 150,000 | 450,000 |
| | 国際協力、研究所整備 | --- | 20,000 | 20,000 | 50,000 | 100,000 | 100,000 | 300,000 | |
| FTE 計 | | FTE:100 | 600,000 | 600,000 | 600,000 | 600,000 | 600,000 | 3,000,000 | 24,950,000 |
| 物件費計 | | --- | 1,790,000 | 2,250,000 | 4,520,000 | 6,250,000 | 7,060,000 | 21,950,000 | |
| 年合計 | | | 23.3 28.8 52.0 68.3 76.6 249.5 M\$ | | | | | | |

- ① Accelerator ② Detector ③ CFS ④ Safety
- ⑤ Environment ⑥ Management

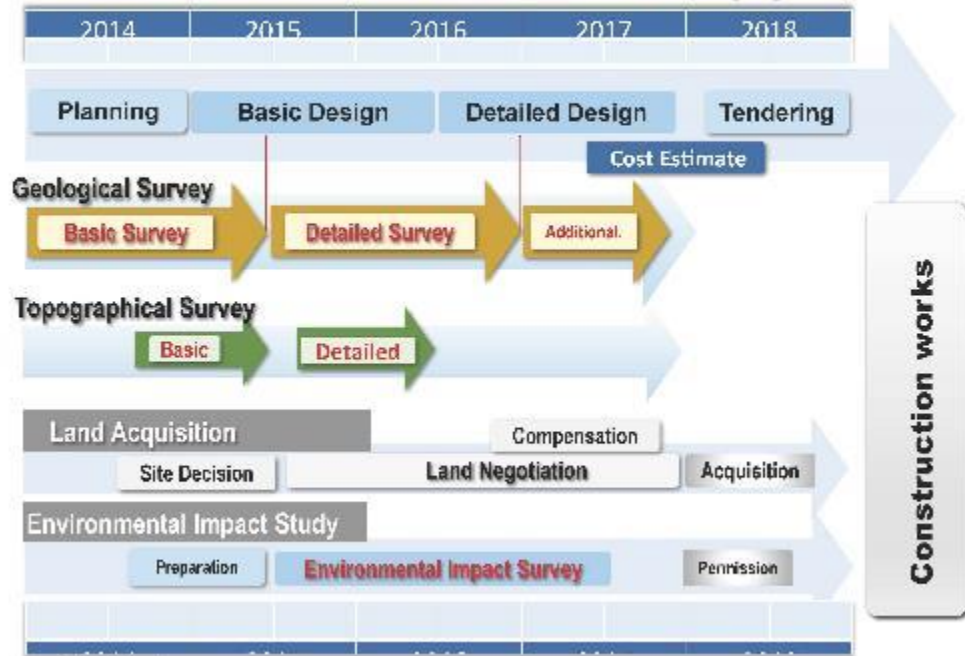
Further Action Plan before Construction

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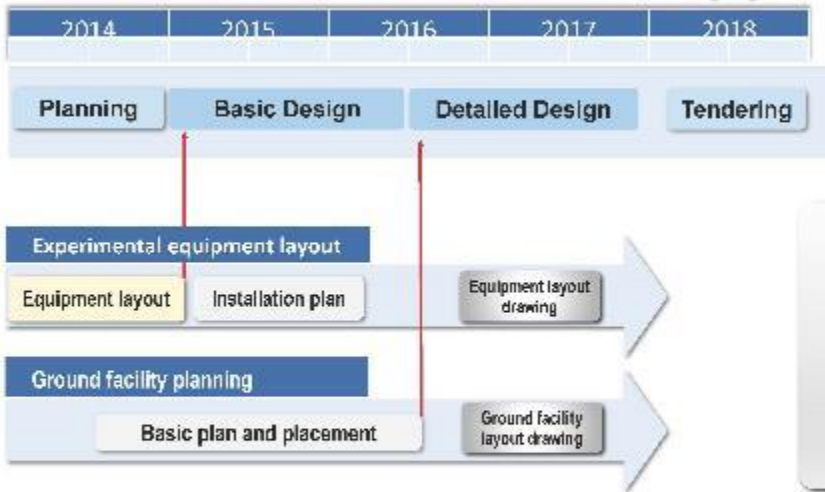
Engineering R&D Schedule (LCC-PreLab)

Pre-construction Schedule (LCC-PreLab)

Pre-Construction Schedule (1)



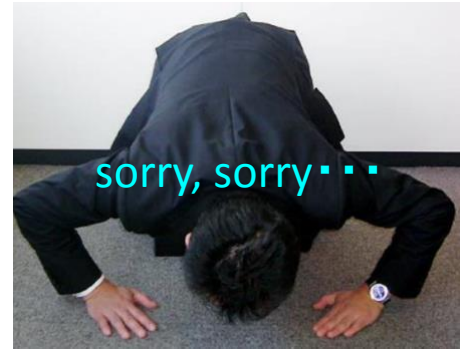
Pre-Construction Schedule (2)



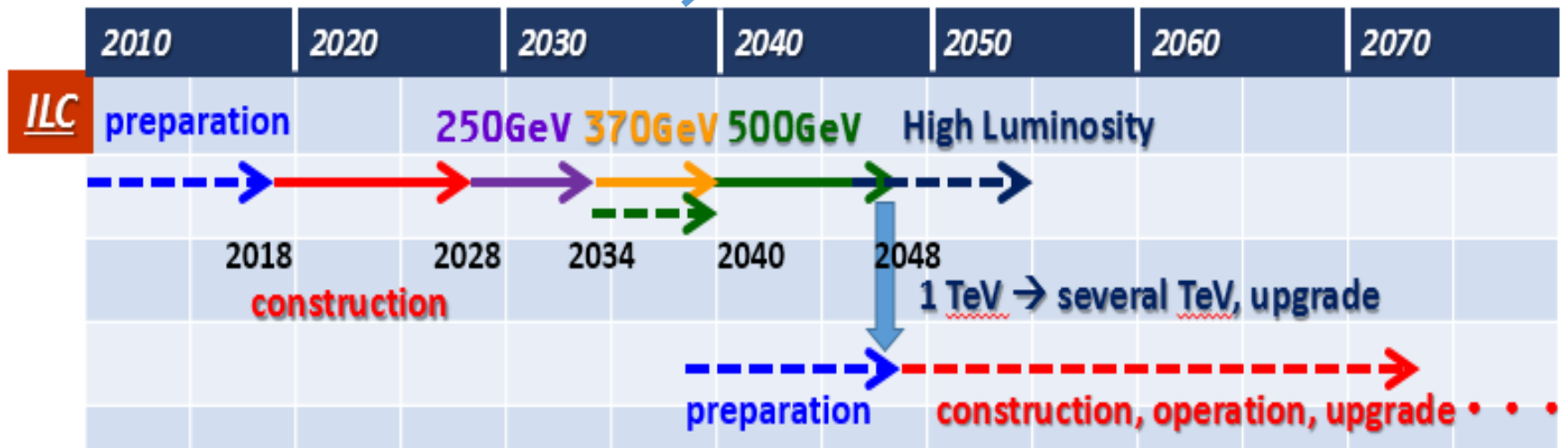
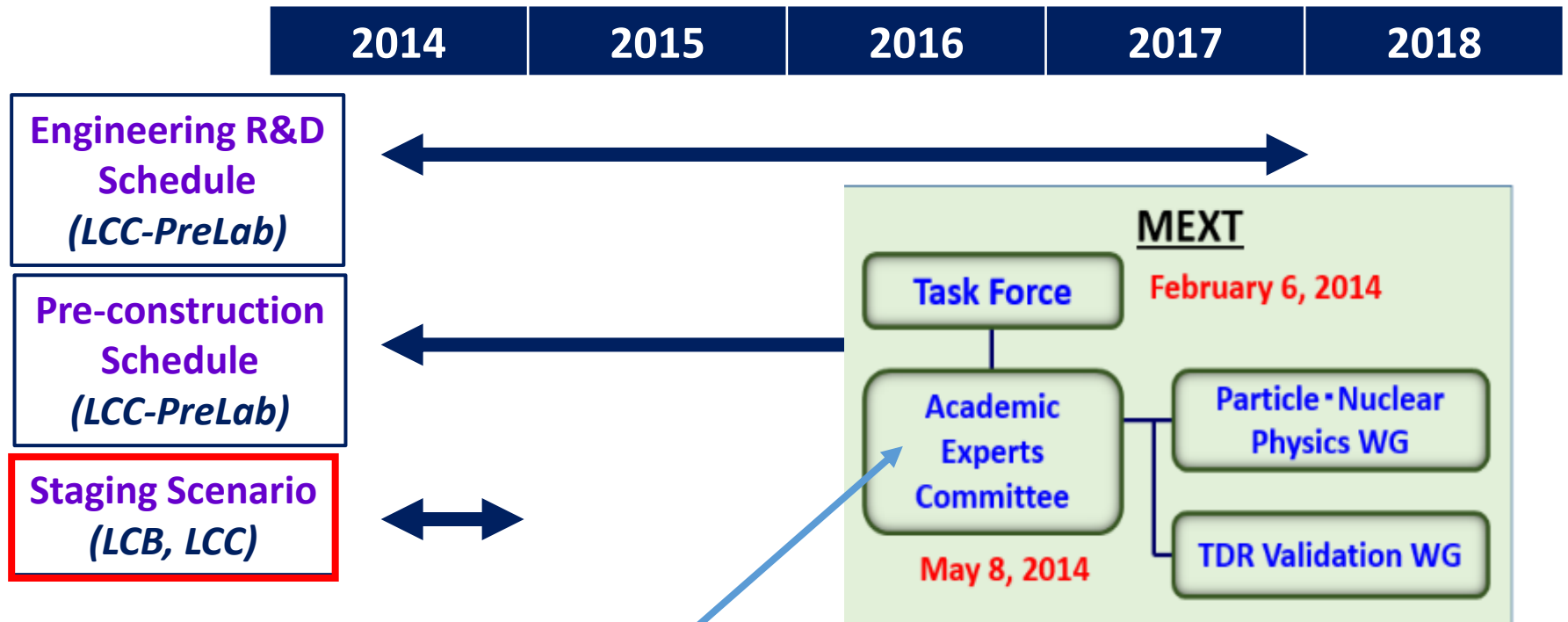
courtesy Mike Harrison.

Construction works

progress currently limited by funding



Further Action Plan before Construction



Further Action Plan before Construction

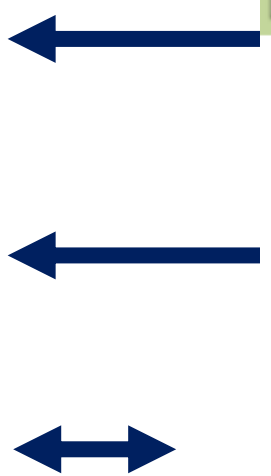
| | | | | |
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| 2014 | 2015 | 2016 | 2017 | 2018 |
|------|------|------|------|------|

Engineering R&D Schedule
(LCC-PreLab)

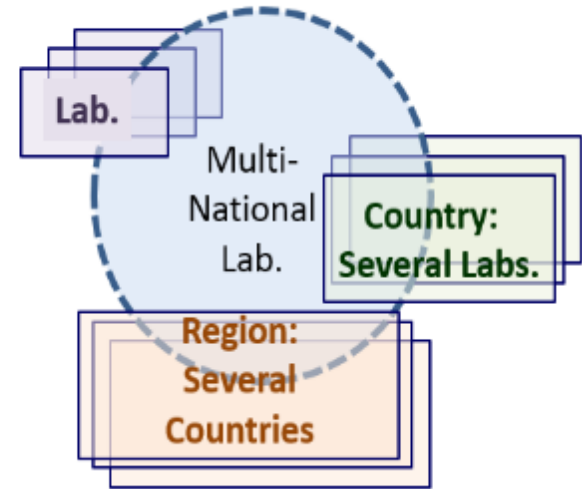
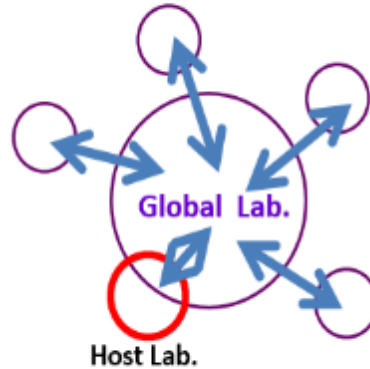
Pre-construction Schedule
(LCC-PreLab)

Staging Scenario
(LCB, LCC)

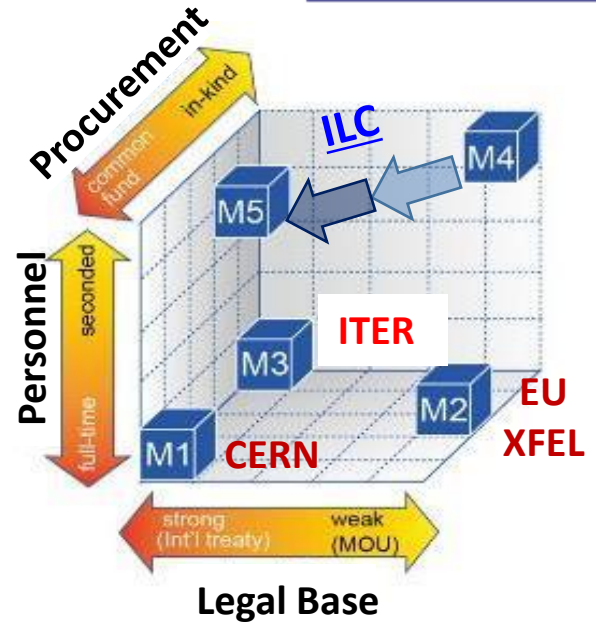
Lab Design: Organization, Structure (LCB, LCC)



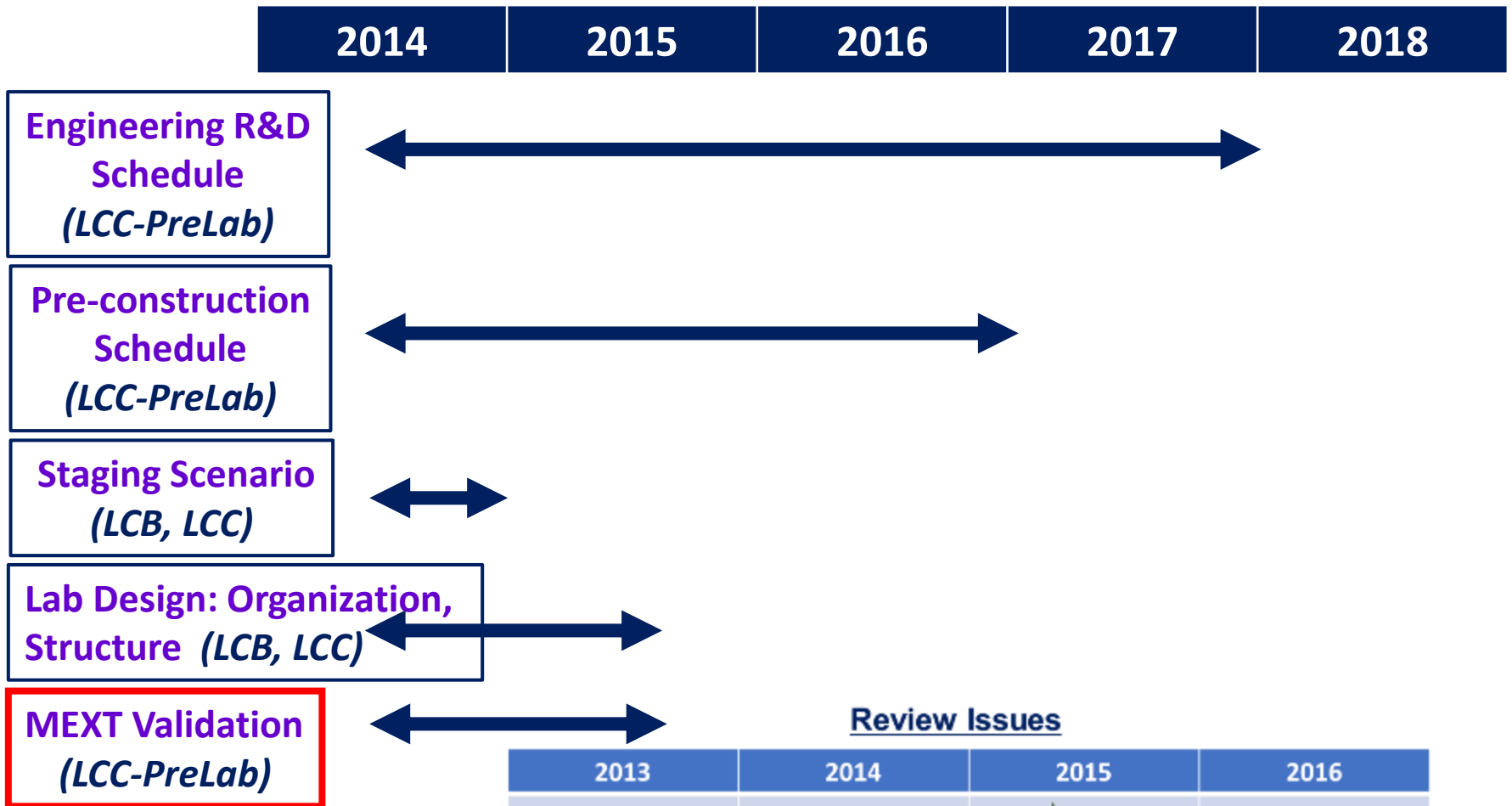
Possibility 2 : Multi-National Lab.



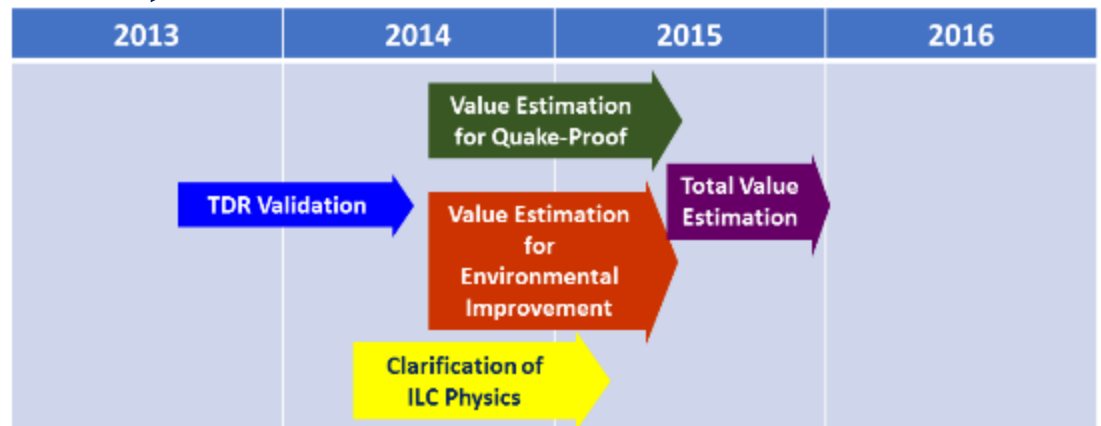
LCB WG (Feb. 2014~)
PIP & PDG



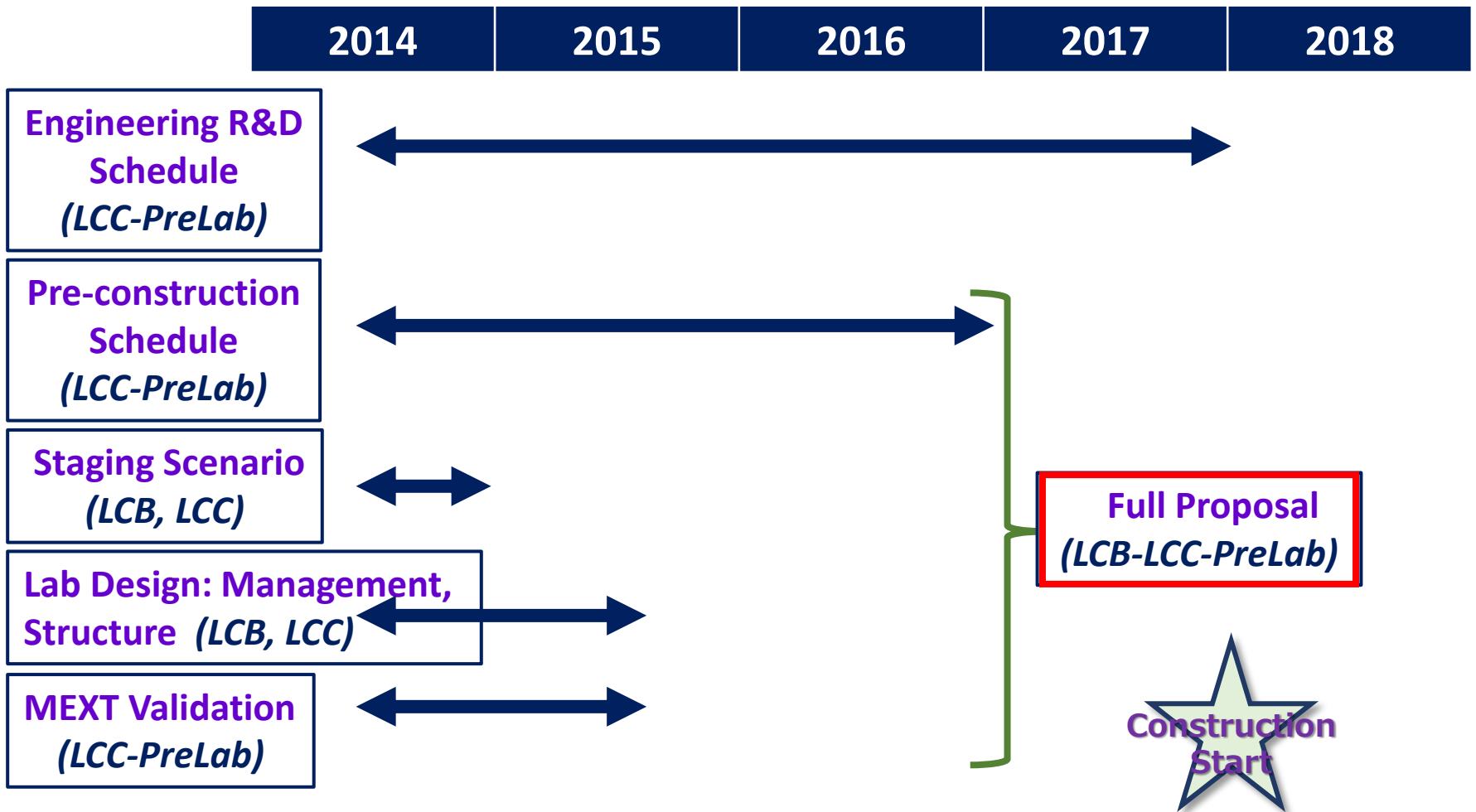
Further Action Plan before Construction



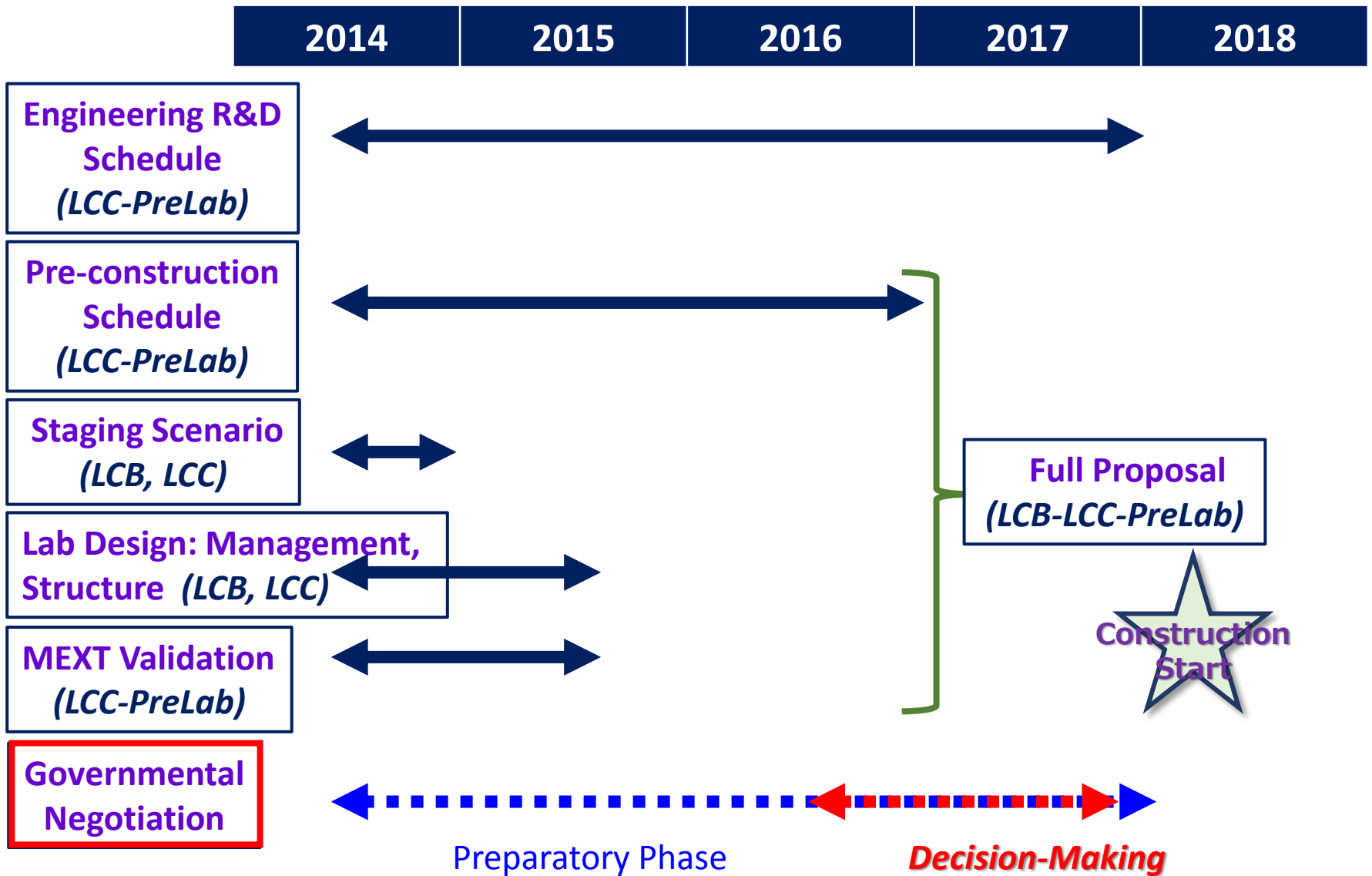
Review Issues



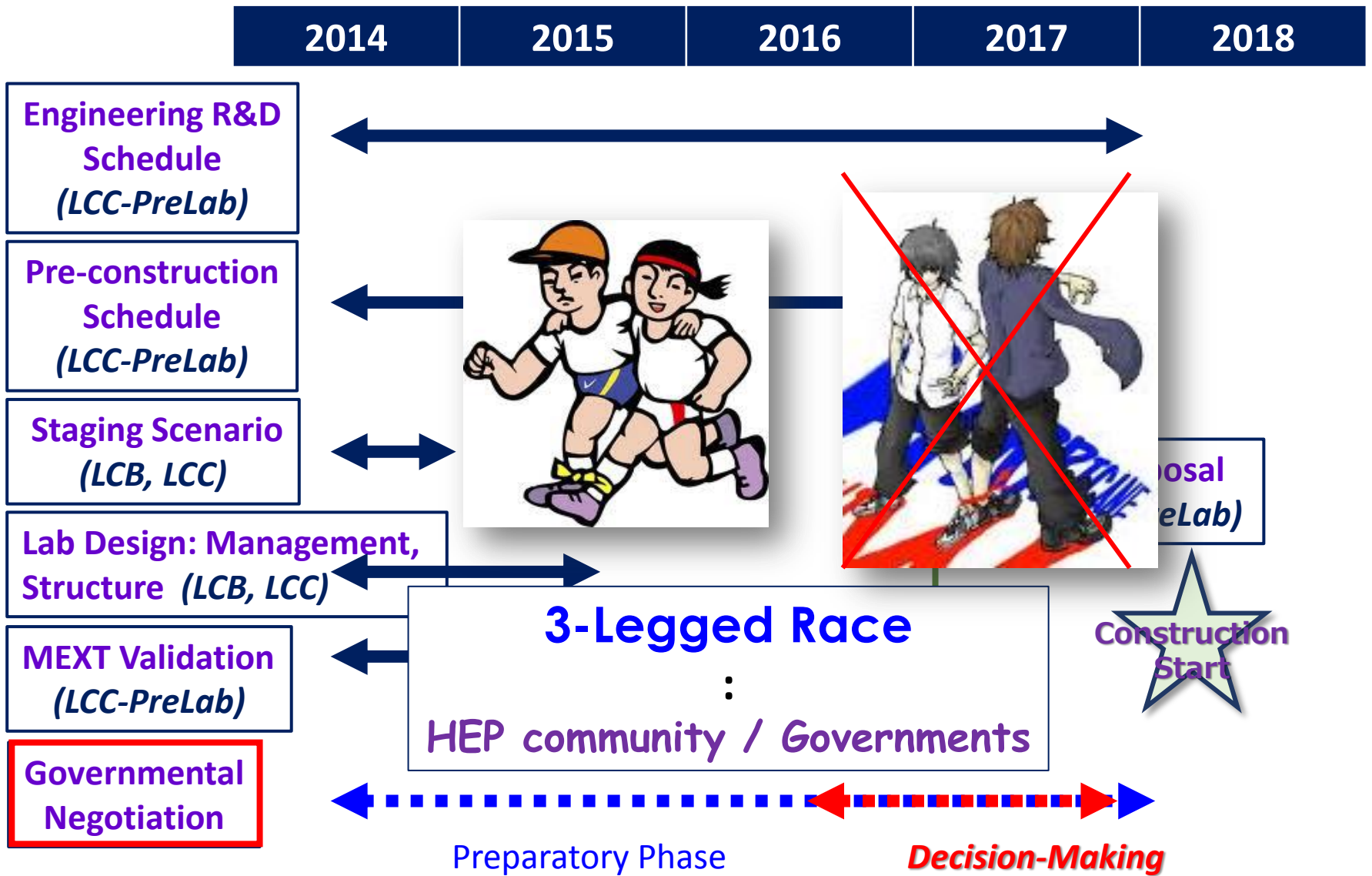
Further Action Plan before Construction



Further Action Plan before Construction



Further Action Plan before Construction

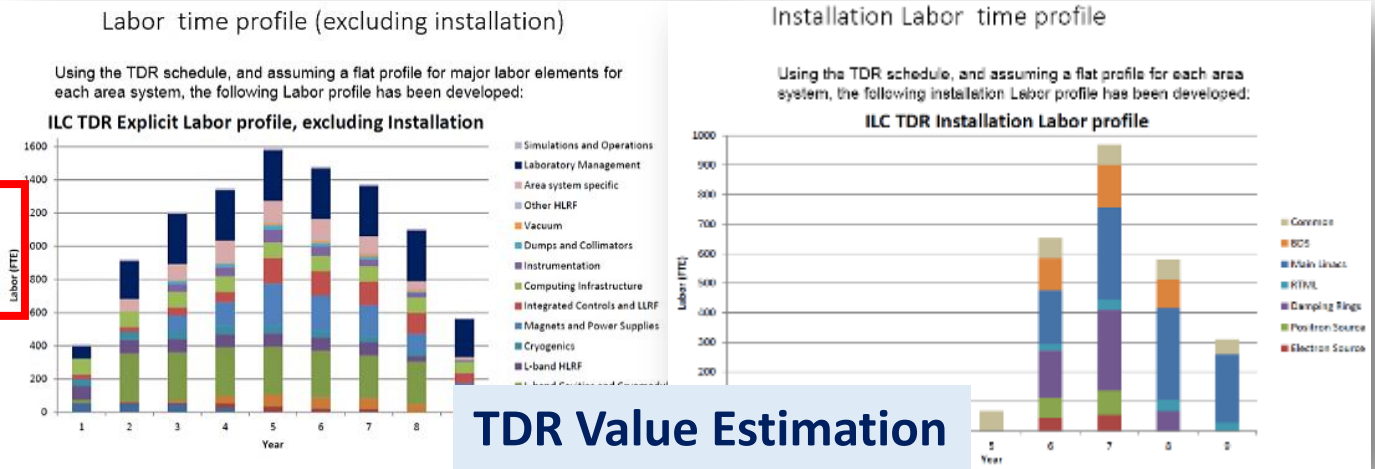


Further Action Plan before Construction

| | | | | |
|------|------|------|------|------|
| 2014 | 2015 | 2016 | 2017 | 2018 |
|------|------|------|------|------|

Governmental
Negotiation

Cite-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/\$ | | | (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/\$)</small> | 6.23 <small>(127 Y/\$)</small> | (1.26) | 7.98 | 2.04 | 967* | 251 | 22.9 | 5.5 |
| TDR-AS (EX-a) | 1.76 <small>(109/127Y/\$)</small> | 3.47 <small>(3.47G\$) (100Y/\$) 2.75 <small>(2.49GEu) (115Y/Eu)</small></small> | (1.26) | 7.98 | | 830 | 216 | 22.9 | 5.5 |

@ 100 JYen/USD
@ 115 JYen/Euro

Further Action Plan before Construction



**Governmental
Negotiation**



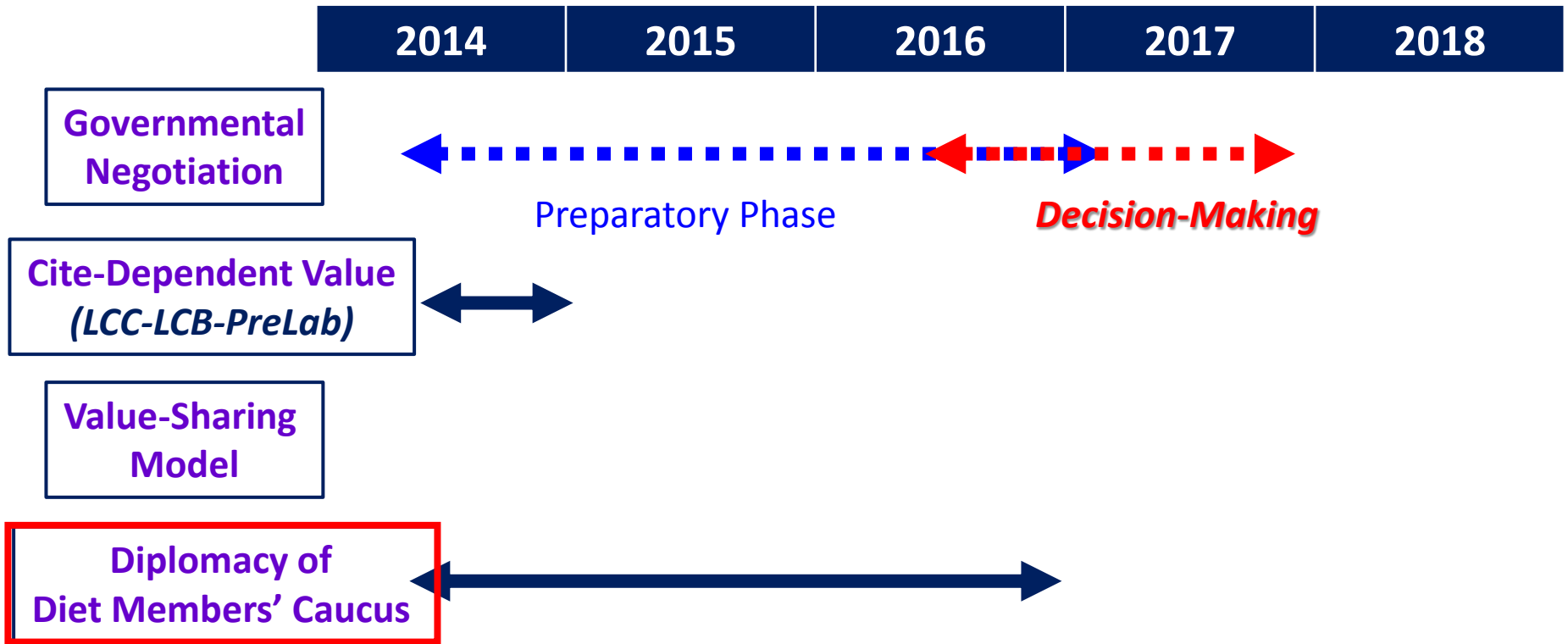
**Cite-Dependent Value
(LCC-LCB-PreLab)**



**Value-Sharing
Model**

| | Host | Others |
|--------------------------|------|--------|
| CFS - LAND | ??? | ??? |
| Instrument - Electricity | ??? | ??? |
| Maintenance/Labor | ??? | ??? |
| Detector | ??? | ??? |

Further Action Plan before Construction





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



April 30, 2013
Washington, D.C.

Next Meeting in July



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

February 7, 2014

Report from ILC Planning Office, KEK
March 2014

Dr. Ernest Moniz
Secretary of Energy
Department of Energy
3000 Independence Ave. SW
Washington DC 20585
United States of America

Dr. Ernest Moniz

Secretary of Energy
Department of Energy
3000 Independence Ave. SW
Washington DC 20585
United States of America

Dear Secretary,

It was a great pleasure to talk with you when I visited the United States recently.

The ILC project is a significant scientific project and I hope that you will continue to support it. I will continue to work with you and other countries to advance the ILC project.

February 7, 2014

Dear Secretary Moniz,

It was a great pleasure to talk with you when I visited the United States recently. In our conversation, I explained the current situation regarding the International Linear Collider (ILC) project in Japan, and I would like to reiterate what I said through this letter.

Research in the United States is continuing their R&D with enthusiasm in the ILC project. Considering the significance and benefit of the ILC project, I believe that discussion from a wider perspective is essential. For this, I recognize that working-level informal exchanges of views among Japan, the United States and / or Europe should be started from the current stage.

However, the priorities for academic and scientific projects and the financial status vary between the countries. Therefore, for making a decision of whether or not to join the ILC project, discussion and sharing of the consensus about the scientific significance and challenges between government and scientists in each country that is interested in the ILC project is indispensable. I understand that the project prioritization process in the field of particle physics in the United States is ongoing. The United States is one of the leading countries in the field of particle physics research in the world, and I hope that substantial

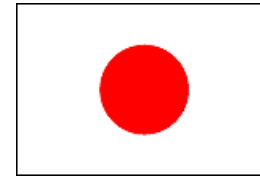
MINISTRY OF EDUCATION, CULTURE, SPORTS,
SCIENCE AND TECHNOLOGY-JAPAN

Report on the ILC

Ministry of Education, Culture, Sports,
Science and Technology (MEXT),

Yoshimura





October 2012



March 2013



March 2013



**Lyn
Brian
Harry**

April 2014

May 2014

Letter from



MEXT MINISTRY OF EDUCATION, CULTURE, SPORTS,
SCIENCE AND TECHNOLOGY JAPAN

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

3. Summary

Further Action Plan before Construction

