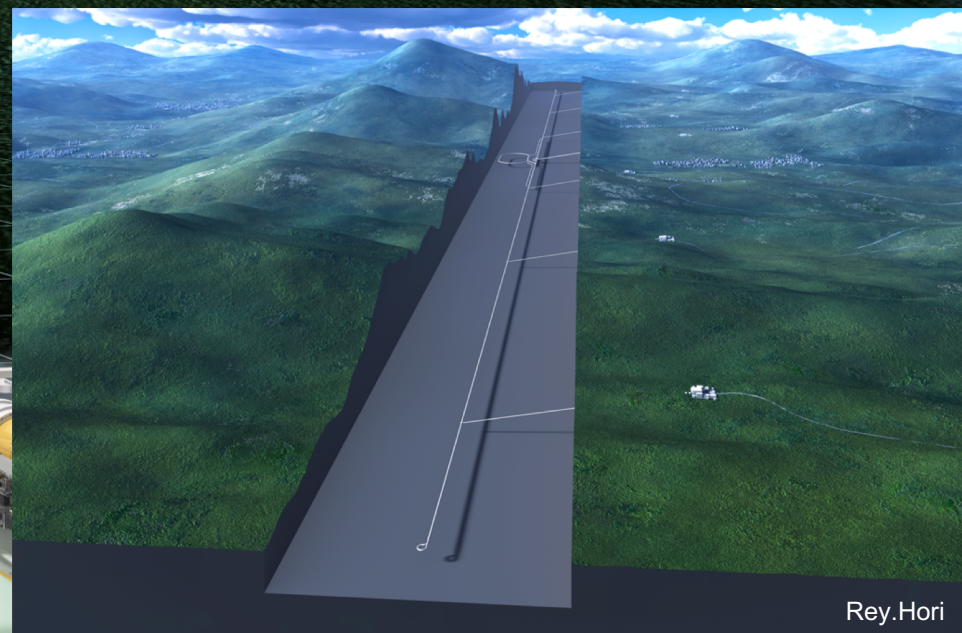


Update on ILC status in Japan



Rey.Hori



Satoru Yamashita (ICEPP, Univ. of Tokyo)
LCWS2018 @ Arlington, Texas, US
Oct. 22, 2018

Update since LCWS2017 to LCWS2018

Update on Ministry processes

MEXT ILC advisory panel → opinion of Science Council of Japan

Update on supports by society

Industry sectors (AAA)

Regional Activities in Tohoku site area

ILC supporters, Medias, ILC 100 people committee

S. Glashow & B. Barish in Tokyo, messages to public, PM, Ministers

Update on Actions in Diplomatic front

US DoE Undersecretary for science P. Dabbar (Oct. 10@Tokyo)

France (Parliament members, MESRI, ,, Jan. @Paris)

Germany (Parliament member, BMBF, ,, Jan. @Berlin)

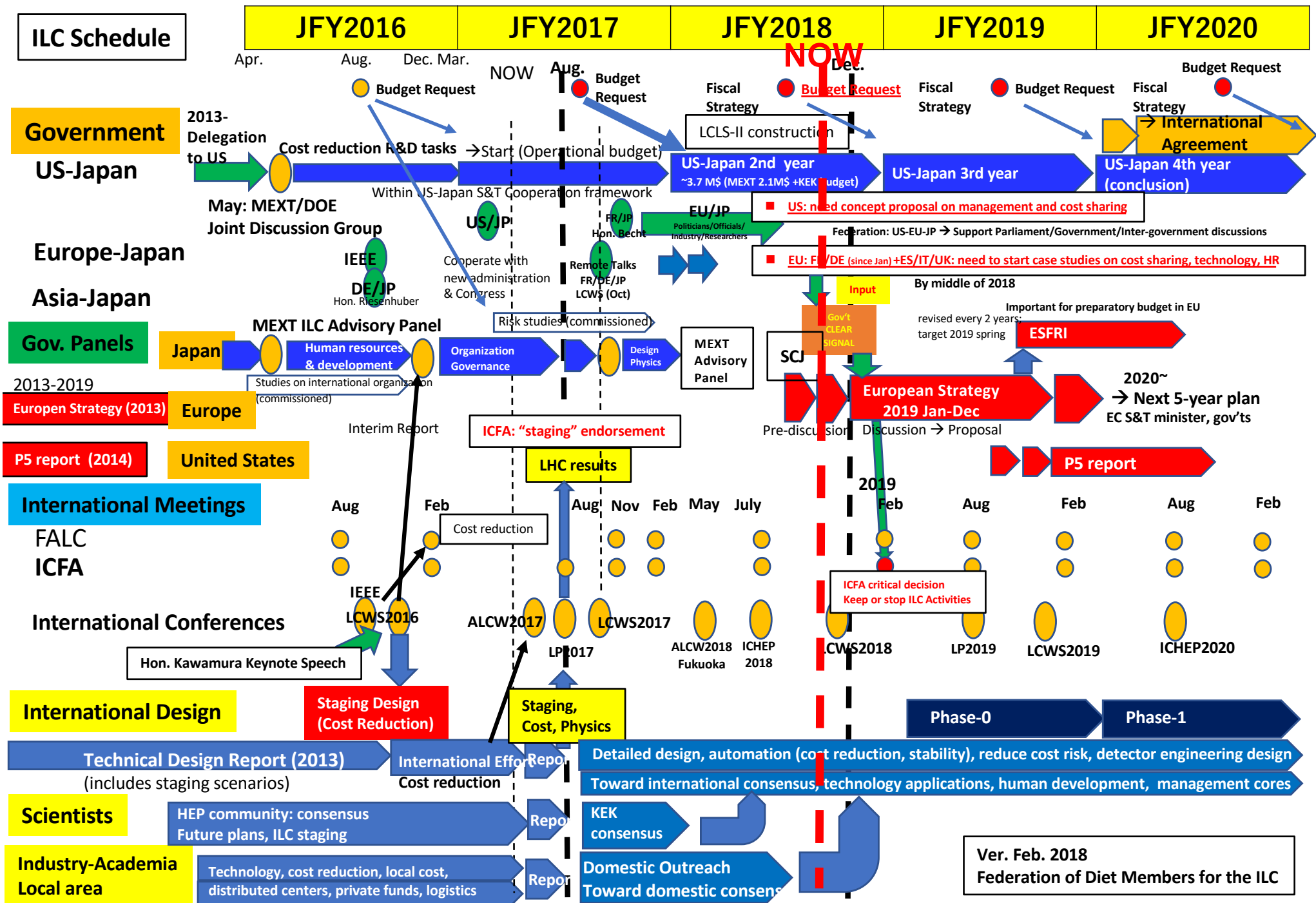
Update on Actions in Political front

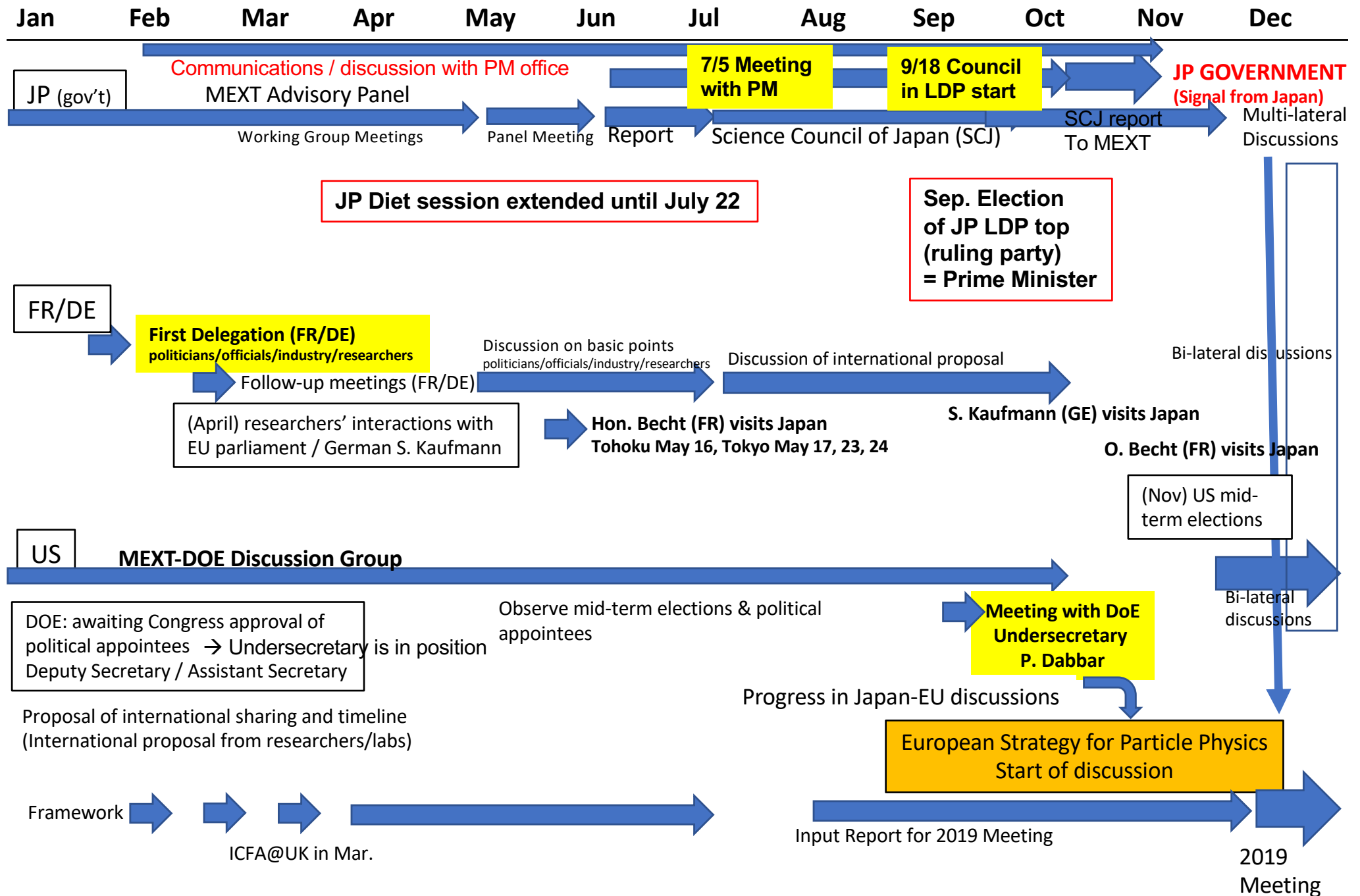
Ruling Party (Liberal Democratic Party) new body for ILC

Prime Minister's office

Summary of CRITICAL ISSUES and status in 2018 Jan. – Oct.

- Boost cooperation with **Prime Minister's Office & Diet HQ** → **excellent progress**
- **Complete** MEXT Assessment @ ILC Advisory Panel in Spring → **done in time** → opinion of **Science Council of Japan** (by the end of Nov.)
- **Increase supports in public** → **good progress**, still need efforts
- Boost and assure **US-Japan** cooperation for ILC → **Meeting with US** (Undersecretary P.Dabbar) Oct. 10 → **Wonderful**
- Establish **Multilayer** (political, ministerial, laboratory-agency, industry and liaison -researchers) **bi-lateral** body first with **European Countries**, → **well done for France & Germany, keep progressing**
- **MOST URGENT: to cope with Science Council of Japan and positive recognition in public (with Media).**
- **And Clear Signal from Japan** (Governmental Intention to Host, Model for investment share,,)
- **All must be done before European Strategy input**





ILC Promotion bodies in Japan

Japan: Parliamentary cabinet system

Government

National Diet (Parliament)

Representatives ~480
Councillors ~240

Cabinet (Prime Minister's office)

Ministries

MEXT (Education, Culture, Sports, S&T)
CAO (Cabinet office) – S&T Council (**CSTI**)
MOFA (Foreign Affairs) -- **Embassy**
MLIT (Civil, Sightseeing, Transport)
METI (Economy, Trade, Industry)
+ ...
MOF (Ministry of Finance)

Political

**Federation of
the Diet Members
for ILC (2006, 2008~)**

Founded by LDP in 2006 → Multi-
parties in 2008. Now ~150 Members

**Industry &
Academia**

Business sector

AAA

**Advanced Accelerator
Association (2008~)**
(2014~ incorporated company)

Industry-Academia cooperation
Led by Executives of Leading
Companies and KEK DG

**Central activity in
Researchers**

KEK

ILC Promotion Office
(led by KEK DG, 2014~)

Technological leadership for Accelerator
Cooperation with MEXT

KEK JAEA,
QST,
JAXA, RIKEN,

Universities,,

J-HEP Committee
Japan HEP Community

SCJ
Science
Council
of Japan

Local Area

Candidate area

**ILC Tohoku
Promotion Office**
(2016, June~)

Led by Local Governments, Business Associations, Univ. Presidents.
Cooperation of **Civil engineering** at candidate site area
Geological surveys, preparation for campus

Update on Ministry Processes

2012 2013 2014
ILC task force in MEXT → SCJ (science council of Japan) → MEXT advisory panel

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

ILC advisory Panel complete in July their evaluation (since 2014) on ILC in;

- Physics research
- Technical issues and cost
- Organization and governance
- Human resource

+ reports by Nomura Research Institute on Spin off, economic effects

Re-evaluation on 250 GeV ILC from Dec. 2017 – July 2018.

Complete in July 4th in 2018

Summary of the ILC Advisory Panel's Discussions to Date after Revision (July 4 2018) Tentative translation

http://www.mext.go.jp/component/b_menu/shingi/toushin/_icsFiles/afieldfile/2018/09/20/1409220_2_1.pdf

PLEASE CHECK BY YOURSELF

It is a kind of fact report (material for government-level assessment / decision)

→ MEXT requested to Science Council of Japan (SCJ; under Cabinet office S&T branch)

Science Council of Japan

to give opinion on ILC in timely manner → **SCJ** setup a committee and start in Aug.

<http://www.scj.go.jp/ja/member/iinkai/ILC/ILC24.html> (only in Japanese so far)



Unfortunately (typical Japanese style)
No collider-physicists in the committee
No experts in High Energy Physics

Very frequent meetings; Aug-Oct
more than 10 meetings

Open discussion (media watches) &
Closed session
Hearing from KEK, researchers

Wonderful presentations by

Yamauchi (KEK DG), Aihara (JHEP Chair), Michizono (LCC, KEK),
Hajima (Japan Accelerator Association), Asai (LHC-ATLAS), so on.

First misleading discussions, then getting better, but then SKEPTICAL VIEW raised again:
Researchers' world passion is enough? Why Linear? Why NO other nations host ILC?

SCJ receives inputs → **need inputs from LCWS and international voices**

ESSENTIAL POINTS necessary TO BE RECOGNIZED by SCJ

- PASSION & CONFIDENCE of the researchers
WORLD-WIDE COOPERATION & SUPPORTS
- WONDERFUL PHYSICS - GUARANTEED & POTENTIAL
- ENERGY EXTENDABILITY = Long-term vision
250 → with most up-to-date technology → X → multi-TeV
- STATE-OF-THE-ARTS ACCELERATOR & DETECTOR
 - AFFORDABLE INVESTMENT (COST & HUMAN)
SIZE & TIME to be shared by HOST and Partner Nations
 - In-kind contribution scheme
 - CO-PROSPERITY WITH WORLD LABORATORIES
 - INDUSTRY PARTICIPATION in each Partner Nation

Update on support by public

GRASSROOTS activities

ILC supporters (started in Apr. 2018):
Now more than 250,000 members

<https://ilcsupporters.jp> **#ILCsupporters**



Newspapers and TV (All-Japan wide)

2018 Jan – May only 5

→ 2018 Jun – Aug 38 Rapid increase

+ Regional broadcast: one per day in average

S. Glashow & B. Barish in Tokyo (Aug. 2018)

Regional Supports

- **Support Resolutions** by all-TOHOKU and HOKKAIDO Prefecture Governors
- Support Resolutions by all-TOHOKU City Mayors
- Full supports by local governments (prefecture, city)
- Full supports by economic regional organizations
- Preparation of international conditions
- Survey (geology, environment)



OUTREACH

Until 2017, tools have been prepared (Science Kitty, etc..).

WE HAVE MADE URGENT ACTIONS FOR OUTREACH with PRODUCERS

1. **ILC Supporters** with Animation producers/directors → June 7th event @Tokyo
2. **ILC 100 members' committee** -- VIP in Japanese economy, opinion leaders
June 29th opining event
3. **ILC book** “from Japan to the Universe, ILC project” commercially available
(in Japanese)
4. Lectures for MEDIA in Tokyo → by AAA/Tohoku, by KEK
5. **Tokyo Symposium with Media broadcast , media interview,**
by S. Glashow, B. Barish, M. Kobayashi, etc.. Aug 5th – 6th
6. **MEDIA (TV) programs, Newspapers**

Call for ILC supporters



ILC Supporters 募集

#ILCsupporters



©士郎正宗・Production I.G／講談社・
攻殻機動隊製作委員会. その他



Mamoru Oshii

ILC Supporters 発起人
押井 守 Mamoru Oshii



シンボルマーク作成
森本 晃司 Koji Morimoto



ゲームディレクター
鈴木 裕 Yu Suzuki



東京大学特任教授
山下 了 Satoru Yamashita



クリエイター・声優
木村 優 Yu Kimura





ILC Supporters at Fukuoka ALCW2018 (May 2018)



Tohoku tourism ad
seen on Tokyo Metro



OUTREACH and SUPPORTS by
LOCAL AREA

Oshu City



Ichinoseki Station



Morioka

Symposium at Tokyo 1000 participants
With Glashow and Barish for ILC

ノーベル賞受賞者に聞く

ILC が開く 科学の未来

International Linear Collider

登場者：
シェルドン・グラショウ 博士 (1979年 物理学賞)
バリー・バリッシュ 博士 (2017年 物理学賞)

映像出演：
小柴 昌俊 博士 (2002年 物理学賞)
大隅 良典 博士 (2016年 生理学・医学賞)

進行・聞き手：
高柳 雄一 (多摩六都科学館 館長)

会場：お茶の水女子大学 微音堂
〒112-8610 東京都文京区大塚 2-1-1

対象：中学生以上
定員：1000名
申込み：ウェブサイトより先着順申込
<http://ilc-symposium.jp/>

共催：
高エネルギー加速器研究機構、お茶の水女子大学、多摩六都科学館、東北大学大学院理学研究科、東京大学素粒子物理国際研究センター、早稲田大学研究院、信州大学理学部、京都大学化学研究所、広島大学、九州大学先端素粒子物理研究センター、佐賀大学理工学部、岩手大学、岩手県立大学、リニアアライダー・コーポレーション、先端加速器科学技術推進協議会、東北ILC推進協議会、日本政策投資銀行

ILC International Linear Collider - とは
国際リニアコライダー (ILC) は、従来の加速器を性能的に大きく凌駕する、全長約 20km の次世代・最新鋭の直線型加速器です。ビッグバン直後の素粒子の反応を再現し、宇宙創生の謎、時間と空間の謎、質量の謎に迫ります。人類の自然理解を新しい時代に導き「宇宙の常識」を様変わりさせる可能性をもつ大型科学実験計画です。

問合せ先：先端加速器科学技術推進協議会事務局
TEL : 029-879-6241 mail : info@ilc-symposium.jp <http://ilc-symposium.jp/>

2018 8/5 SUN 日
14:00~17:00
開場 13:00

Supports by Nobel Prize Winners

Messages from:

B. Richter, D. Gross, T. Koshihara,
M. Kobayashi, T. Masukawa,
G. T Hooft, S. Glashow, S. Weinberg
B. Barish



Direct message to S&T Minister (Aug. 7)

Media interviews

Update on political front

July

Preparation of new body for ILC in ruling party LDP (Liberal Democratic Party)

Strengthen cooperation with government core (Prime Minister's office)

Meeting with **Prime Minister Abe**

Sep.

Establish LDP **Coordination Council for Realization of ILC**

Oct.

The LDP Coordination Council meet with US Undersecretary P. Dabbar

September 25, 2017
General Meeting, Federation of Diet Members for ILC



July 5th



Meeting with Prime Minister Abe July 5th

Prime Minister Abe

Deputy Chief Cabinet Secretary Nishimura

Deputy Chief Cabinet Secretary Nogami

Kawamura (Diet Budget committee chair)

Shionoya (LDP election chair)

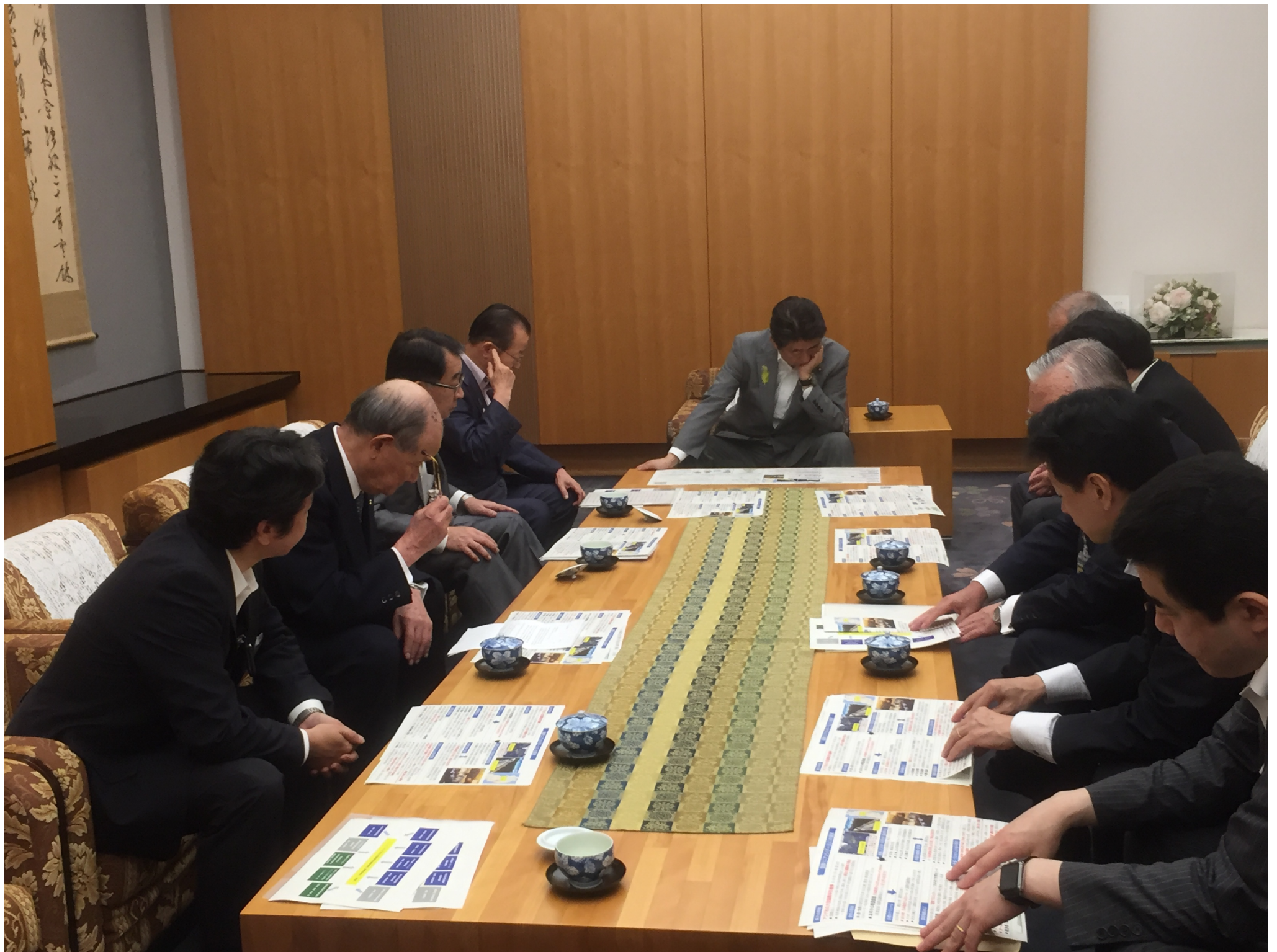
Suzuki (Minister of Olympic)

Onodera (Minister of Defense)

Nishioka (AAA chair, MHI former CEO)

Takahashi (Tohoku, Tohoku electric former CEO)

Yamashita



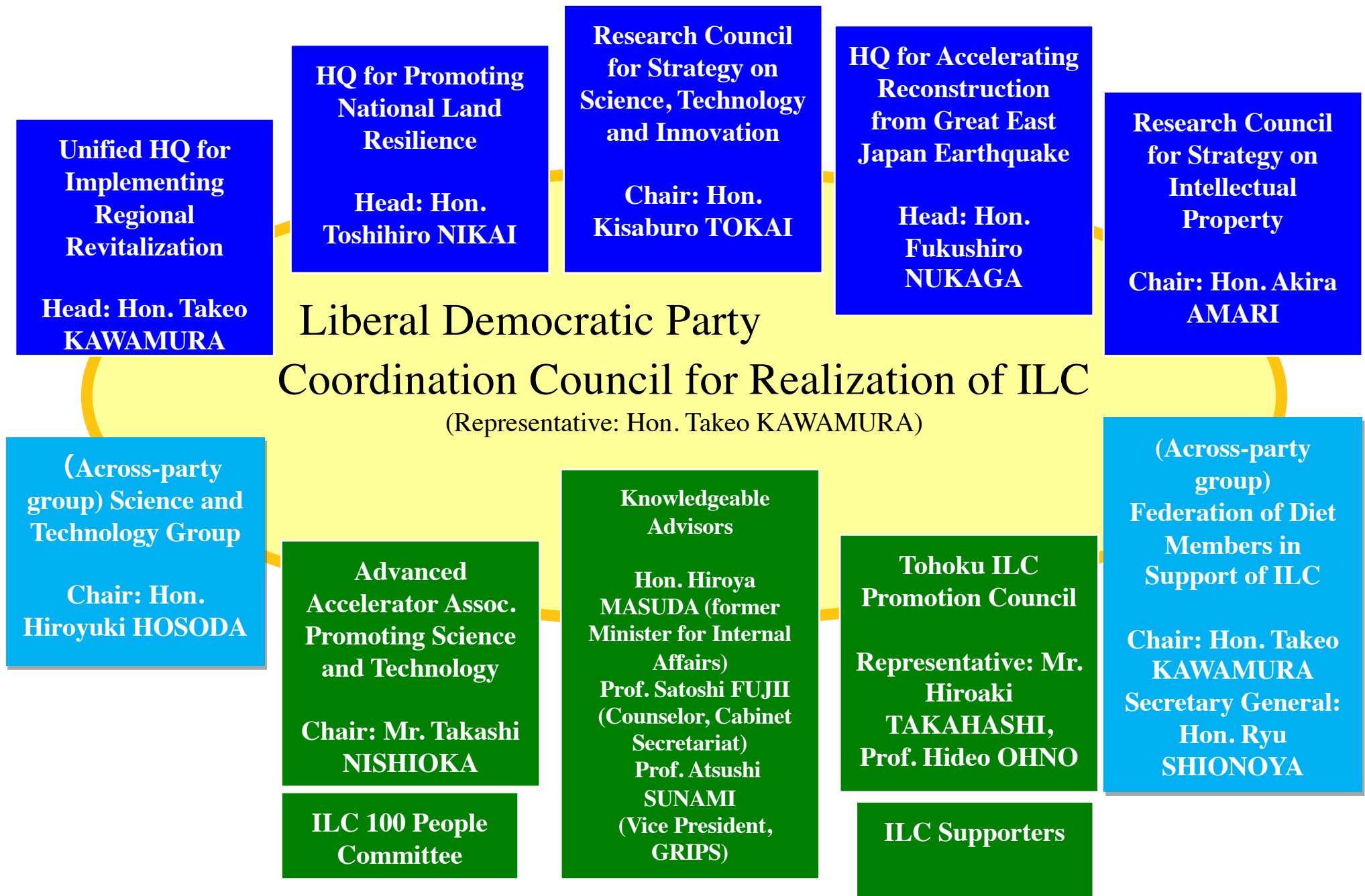
LDP Liberal Democratic Party July 4

Launch “ILC association” with president/chairs of
S&T strategy committee
HQ of reconstruction of remote area
HQ of recovery from disaster in 2011
HQ of strengthening construction



Liberal Democratic Party

Coordination Council for Realization of ILC



Sep. 18 Liberal Democratic Party (LDP)
1st Meeting @ HQ Building



LDP Liberal Democratic Party (Ruling Party)

“Coordination Council for Realization of ILC”

Lead by presidents/chairs of

Research Council for Strategy on Science, Technology and Innovation

Unified HQ for Implementing Regional Revitalization

HQ for Accelerating Reconstruction from Great East Japan Earthquake

HQ for Promoting National Land Resilience

Research Council for Strategy on Intellectual Property

Across-party groups:

Federation of Diet Members in Support of ILC

Science and Technology Group

With supports by

- **Knowledgeable Advisors :**
 - Hon. Hiroya MASUDA (former Minister for Internal Affairs)
 - Prof. Satoshi FUJII (Counselor, Cabinet Secretariat)
 - Prof. Atsushi SUNAMI (S&T Diplomacy, Vice President, GRIPS)
- **Advanced Accelerator Assoc. Promoting Science and Technology**
- **Tohoku ILC Promotion Council**
- **ILC Supporters**
- **ILC 100 People Committee**

July 4th
Preparatory
Meeting



Sep. 18
The 1st Meeting
→ Resolution



Oct. 10
2nd Meeting
With US DoE
Undersecretary
P. Dabbar



Oct. 17
Meeting with
Minister of S&T,
Minister of MEXT



Boosting actions

Update on actions in diplomatic front

2018 = Successful year in diplomatic actions for ILC

US

2013-2017 political communications with Congress, DoE, OSTP @ DC, Tokyo

2016 Establish US-Japan discussion group (DoE-MEXT) → cost reduction

2018

June 27th Visit to Tokyo by DoE J. Siegrist and FNAL N. Lockyer (Diet & MEXT)

Oct. 10th **Meeting with DoE Undersecretary P. Dabbar**

Excellent

Europe (progressing with France and Germany)

IEEE2016 @Strasbourg

2017 LCWS2017@ Strasbourg start communications in political level

2017 Dec. Hon. Becht (France) visit to Japan

2018

Jan. 8th-10th **Meetings at political level at Paris and Berlin**

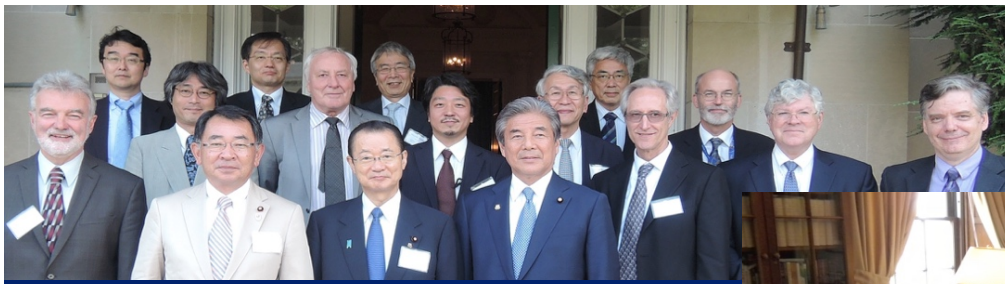
Japanese delegation with Parliament and Ministry (MESRI(FR), BMBF(GE))

To come

Oct. 29-31 Hon. S.Kaufmann (GE) to visit Tokyo and Tohoku

Nov. 15- Hon. O. Becht (FR) to visit to Tokyo

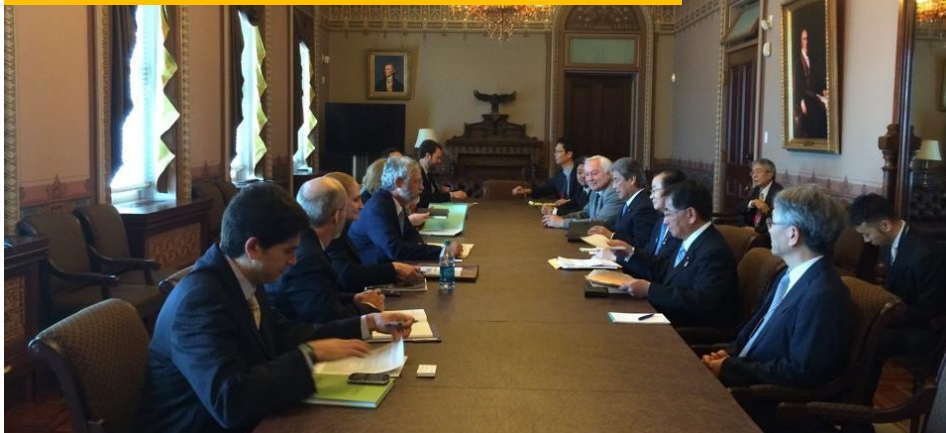
Excellent



US-Japan
(2013 -)



OSTP director (2014) @ Washington DC



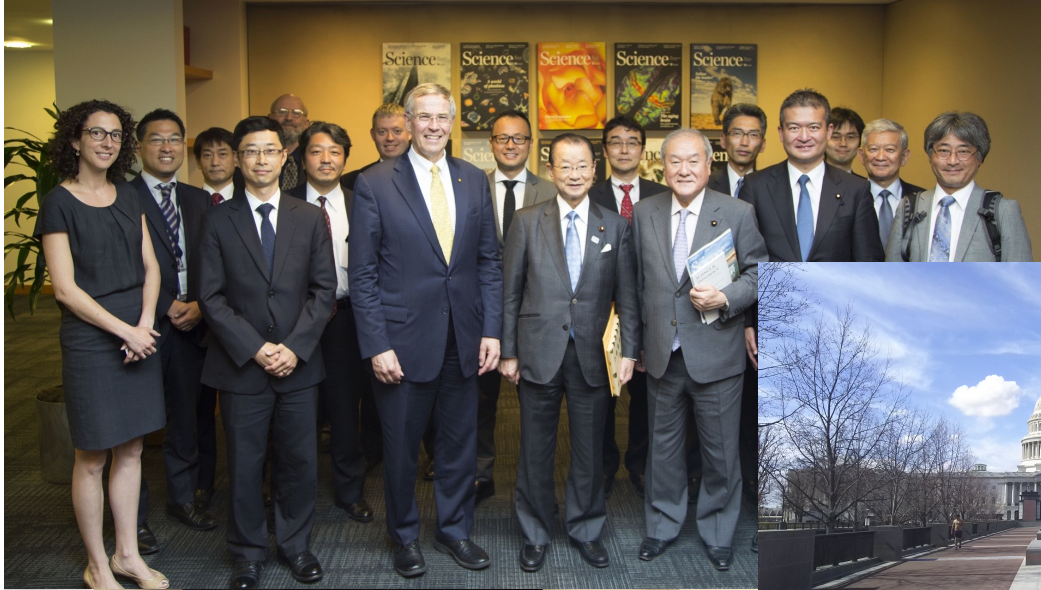
Germany-Japan (2016-)



France-Japan (2016-)



Washington DC, May 1-3, 2017



wonderful meeting with P. Dabbar
Very proactive, clear and positive on ILC

Undersecretary P. Dabbar

Members of
LDP Council for ILC

Report will be made by Hon. Ito
On 26th at LCWS2018

Oct. 10th

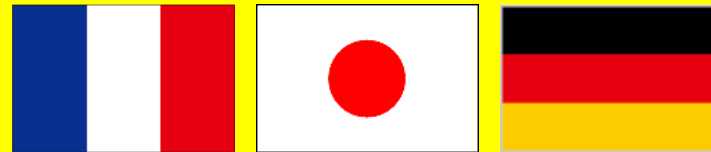
@ Diet office building Special meeting room

P. Dabbar visited KEK on 9th of Oct.



MEXT, CAO, MOFA

1st Japanese Delegation (Parliament, Ministries, Industry, Local, Researchers) to Europe



Visit to Paris and Berlin (2018.1.9~1.11)

2018.1.08 and 1.12 visit CERN

Germany/France side

**Leading Part: Hon. Becht (France) Hon. Kaufmann (Germany)
Hon. Trautmann (EU/Strasbourg)**

True Heroes: Marc Winter Maxim Titov

Supervision: Rolf Heuer Joachim Mnich

EU-Japan federation meeting, France Mar. 3-4, 2015



Japanese Diet members
led by the late Hon. Kenji Kosaka

IPU Conference in Zambia Mar. 19th-23rd, 2015



Hon. Shun-ichi Suzuki

Meeting with German Bundestag members, October 2016



IEEE Oct. 2016 & LCWS2017 Oct. 2017 @ Strasbourg



Mrs. Catherine Trautmann
Vice-présidente, Strasbourg Eurométropole
Former French Minister of Culture
Former EU Parliament member
Former Mayor of Strasbourg

AAA Chairman
T. Nishioka



Two Diet members participated
and discussed on ILC



@EU-Japan
VIP meeting
Hon. Ito

LCWS2017 in Strasbourg (October 27th)



From Europe

Hon. Olivier BECHT (National Assembly,
France)

Hon. Stefan KAUFMANN (Bundestag,
Germany)

From Japan (ILC Federation of Diet Members,
remote)

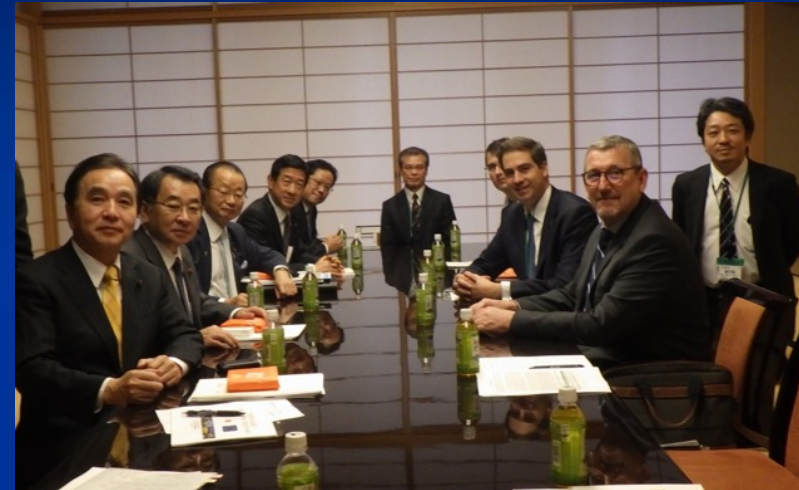
Hon. Takeo Kawamura

Hon. Ryu Shionoya

Hon. Tatsuo Hirano

France-Japan Meeting on ILC

(Tokyo, 2017 Nov 29)



Japan:

Hon. Kawamura, Hon. Shionoya, Hon. Hirano,
Hon. Ito, Hon. Otsuka, Hon. Fujiwara

MEXT: Mr. Itakura et al

Members of AAA, Tohoku Economy Federation
Researchers

France:

Hon. Olivier Becht

Mr. Jean-Christophe AUFFRAY (French Embassy)

Mr. Aurelien ANTHONY (Alsace Japan Agency)

etc.

Japanese Delegation

A big jump

Date: January 9-11, 2018

Meetings@Paris: National Parliament, MESRI, Laboratories

Meetings@Berlin: Bundestag, BMBF

Federation of Diet Members: Hon. Shionoya, Hon. Ito, Hon. Otsuka
Policy secretary of Hon. Kawamura

Ministry: Mr. Itakura (MEXT) Deputy Director-General of Research Bureau,
Officers of Japanese Embassy in Paris/Berlin (Ministry of Foreign Affairs)

AAA: T. Nishioka (former MHI President),
J. Nishiyama, T. Sakamoto, M. Matsuoka

Tohoku Economy Federation:

H. Takahashi (former President of Tohoku Electric Power),
O. Oe, G. Sato, E. Nishiyama

Researchers: A. Suzuki (Iwate-pref), H. Aihara (Tokyo), S. Yamashita (Tokyo)
N. Niita (KEK, International Affairs Division)



Hon. TOURRET, Hon. BECHT



Visit Lab/Industry

Counterparts between France and Japan are established at four levels:

1. Parliament and Diet
2. Ministries
3. F. A. /Laboratories
4. Researchers

Meetings at
Palais Bourbon,
Government building,
and Laboratories



Counterparts between Germany and Japan are established at four levels:

1. Bundestag and Diet
2. Ministries
3. F. A. /Laboratories
4. Researchers



BMBF, Germany

Hon. Kaufmann

Dr. Schuette



Conditions for ILC realization from French/German Governmental point of views

1. ILC in the result of the next European Strategy of Particle Physics
2. Co-prosperity with CERN for long
3. Industrial Participation from each partner country

Counterpart in each of 5 layers

1. Parliament Level
2. Ministry Level
3. Funding Agency – Laboratory Level
4. Working researchers (Liaisons)
5. Industry Level

Hon. Olivier BECHT visit Japan in May

May 16 @ TOHOKU with Governor of Iwate prefecture, Mayors, Economy bodies

May 17 @ TOKYO with Diet members, opinion leaders, industry, researchers

May 23 @ TOKYO (MHI) with Chair of Advanced Accelerator Association (AAA)



Gave BIG and WONDERFUL IMPRESSION to Japanese VIP's

+

Facilitate clear recognition of Urgency and Necessity of Japanese Gov's
Clear signal in time in 2018

+

Hints on protocol and processes to realize the signal in time from Japan.



Yet to come in 2018

Oct. 29-31 Hon. S.Kaufmann (GE) to visit Tokyo and Tohoku

Nov. 15- Hon. O. Becht (FR) to visit to Tokyo

Nov. ? President Macron visit to Japan (?)

Visit to UK, Italy, Spain has been postponed to concentrate on domestic issues.

When Governmental Expression of Interest comes from Japan,
Next round : UK, Italy, Spain, other nations and CERN & EC

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- **Complete** MEXT Assessment @ ILC Advisory Panel in Spring → **done in time** → opinion of **Science Council of Japan** (by the end of Nov.)
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- Boost and assure **US-Japan** cooperation for ILC → **Meeting with US** (Undersecretary P.Dabbar) Oct. 10 → **Wonderful**
- Establish **Multilayer** (political, ministerial, laboratory-agency, industry and liaison -researchers) **bi-lateral** body first with **European Countries**, → **well done for France & Germany, keep progressing**
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- **And Clear Signal from Japan** (Governmental Intention to Host, Model for investment share,,)
- **All must be done before European Strategy input**

Update since LCWS2017 to LCWS2018

Update on Ministry processes

MEXT ILC advisory panel → opinion of Science Council of Japan

Need your actions!

Update on supports by public

Getting visible

Industry sectors (AAA) Excellent

Regional Activities in Tohoku site area Excellent

ILC supporters, Medias, ILC 100 people committee Excellent

Excellent

S. Glashow & B. Barish in Tokyo, messages to public, PM, Ministers

Update on Actions in Diplomatic front Excellent

US DoE Undersecretary for science P. Dabbar (Oct. 10@Tokyo)

France (Parliament members, MESRI, ,, Jan. @Paris) Excellent

Germany (Parliament member, BMBF, ,, Jan. @Berlin) Excellent

Update on Actions in Political front Excellent

Ruling Party (Liberal Democratic Party) new body for ILC Excellent

Coordination Council for Realization of ILC (Sep.2018-)

Meeting with Prime Minister (July) and to be made again soon Excellent