



ILC post TDR team: towards site specific design

Category	Work-base	Specific subject	Global Collaboration w/
Positron Source		Positron source	PosiPol Collaboration
Nano Beam	ATF	37 nm beam 2 nm stability	ATF collaboration
SCRF Cavity Integration	STF	Power Input Coupler Tuner He-Vessel	CERN-DESY-KEK CEA-Fermi/SLAC-KEK DESY-KEK
CM integration	STF, ILC	Conduction-cooled SC Quadrupole	Fermilab-KEK
Cryogenics	ILC	Cryog. Underground He inventory High p. Gas Safety	CERN-Fermilab-KEK (WS at CERN, 18 June)
CFS	ILC	CFS design prep.	CERN-Fermilab-KEK
Radiation Safety	ILC	ML radiation shield	SLAC-DESY-CERN-KEK

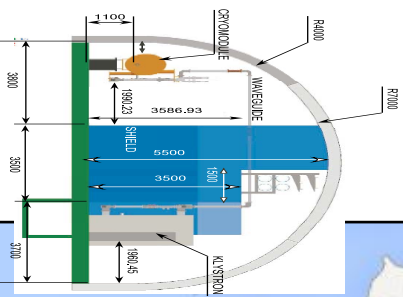
...n, Deputies: **N. Walker** and **H. Hayano** *KEK LC Project Office Head: **A. Yamamoto**

	Deputy/contact p.	KEK-Leader* Deputy	Sub-Group	Global Leader Deputy/Contact P.	KEK-Leader* Deputy
ADI	<u>N. Walker (DESY)</u> K. Yokoya(KEK)	<u>K. Yokoya</u>	SRF	<u>H. Hayano (KEK)</u> C. Ginsburg (Fermi), E. Montesinos (CERN)	<u>H. Hayano</u> Y. Yamamoto
Sources (e-, e+)	<u>W. Gai (ANL)</u> M. Kuriki (Hiroshima U.)	T. Omori	RF	<u>S. Michizono (KEK)</u> TBD (AMs, EU)	<u>S. Michizono</u> T. Matsumoto
Damping Ring	<u>D. Rubin (Cornell)</u> N. Terunuma(KEK)	<u>N. Terunuma</u>	Cryogenics (incl. HP gas)	<u>H. Nakai: KEK</u> T. Peterson (Fermi), D. Delikaris (CERN)	<u>H. Nakai</u> Cryog. Center
RTML	<u>S. Kuroda (KEK)</u> A. Latina (CERN)	<u>S. Kuroda</u>	CFS	<u>V. Kuchler (Fermi)</u> M. Miyahara (KEK), J. Osborne (CERN),	M. Miyahara T. Sanuki
Main Linac	<u>N. Solyak (Fermi)</u> K. Kubo (KEK)	<u>K. Kubo</u>	Rad. Safety	<u>T. Sanami (KEK)</u> TBD (AMs) S. Roesler (TBD, CERN)	<u>T. Sanami</u> T. Sanuki
BDS	<u>G. White (SLAC)</u> R. Tomas (Cern) T. Okugi(KEK)	<u>T. Okugi</u>	Elect. Support (PS etc.)	TBD	<u>TBD</u>
MDI	<u>K. Buesser (DESY)</u> T. Tauchi (KEK)	<u>T. Tauchi</u>	Mechanical S. (Vac. & others)	TBD	<u>TBD</u>
			Dom. Program, Hub Lab. Funct.	TBD	<u>H. Hayano</u> T. Saeki



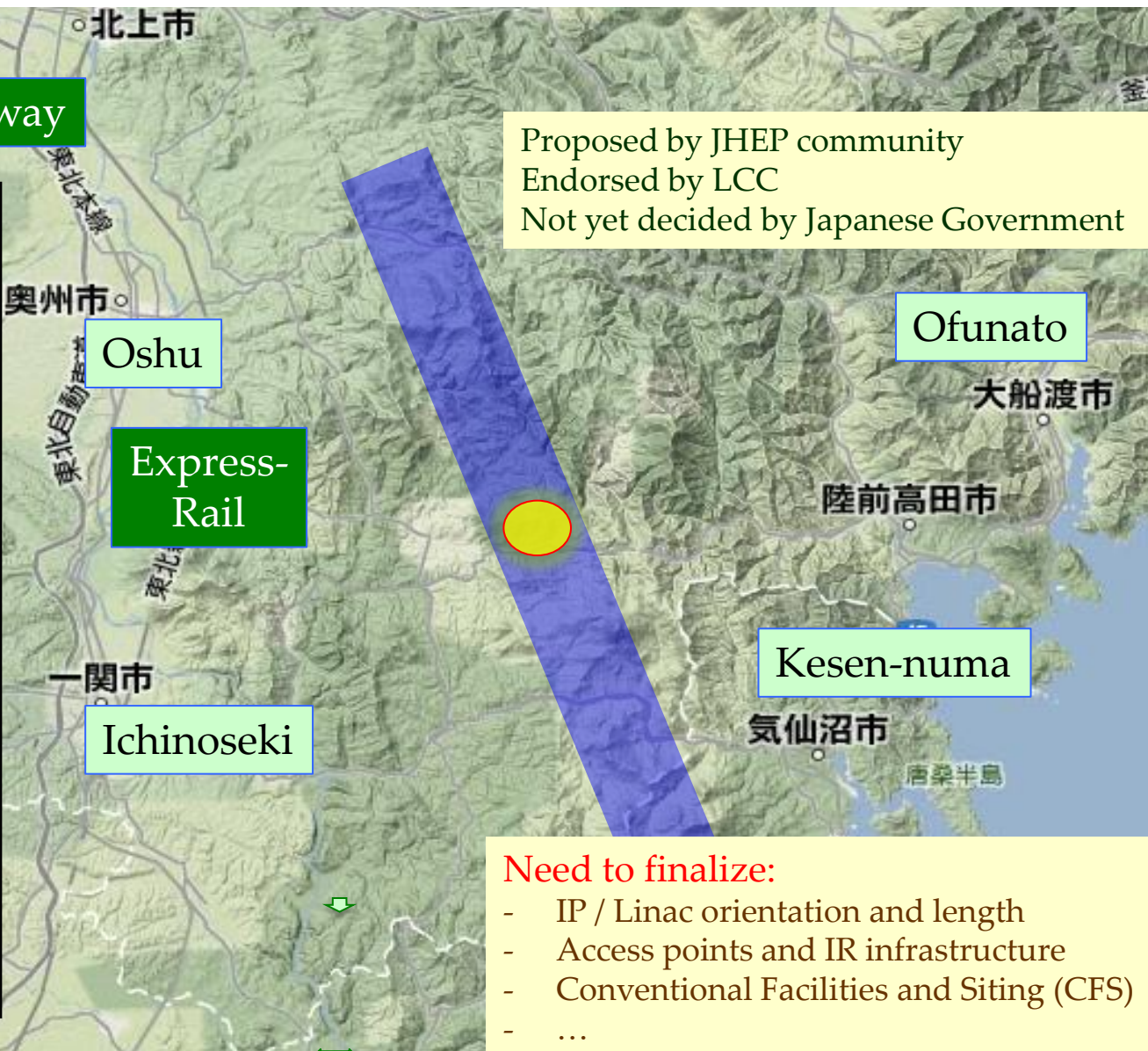
Site specific studies

Establish a site-specific Civil Engineering Design - map the (site independent) TDR baseline onto the preferred site - assuming "Kitakami" as a primary candidate



High-way

Proposed by JHEP community
Endorsed by LCC
Not yet decided by Japanese Government



Oshu

Express-Rail

Ofunato

Kesen-numa

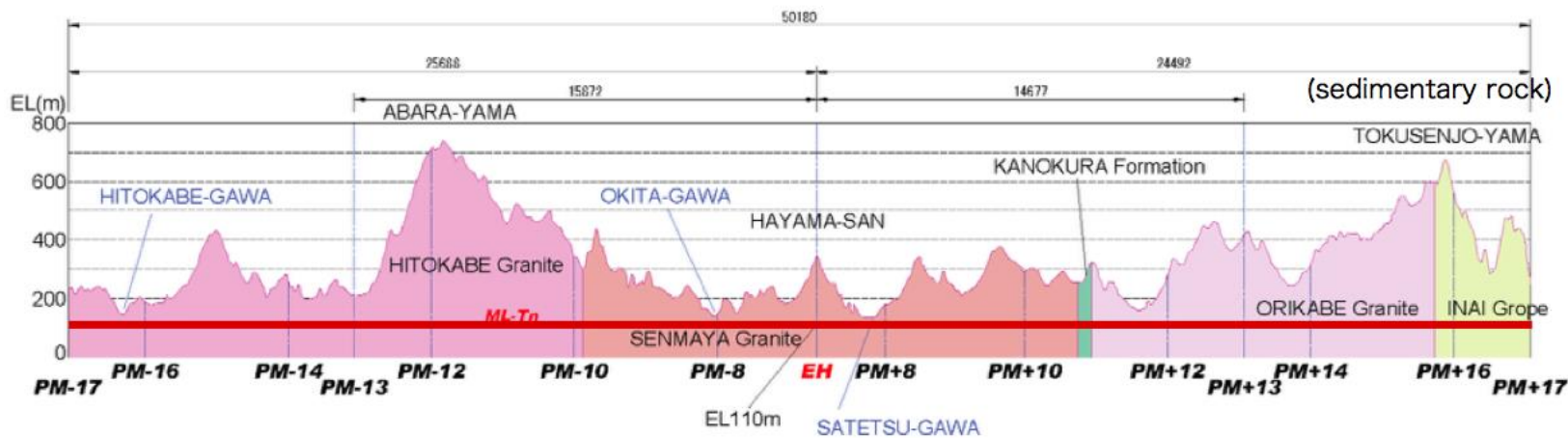
Sendai

Ichinoseki

- Need to finalize:**
- IP / Linac orientation and length
 - Access points and IR infrastructure
 - Conventional Facilities and Siting (CFS)
 - ...



ILC preferred site - Kitakami





ILC Project Overview

Years	TDR baseline Scenario
1 - 2	Pre-preparation for 2yrs (for technical effort continuity)
3 - 6	Preparation (4 yrs)
7 - 15	Construction (9 yrs)
(12 -)	(start installation)
(13 -)	(start preparation for Operation)
16 -	Beam Commissioning start
17 -	Operation at 250 ~ 500 GeV (550 GeV)
TBD	Toward 500 GeV HL upgrade
TBD	Toward 1 TeV upgrade

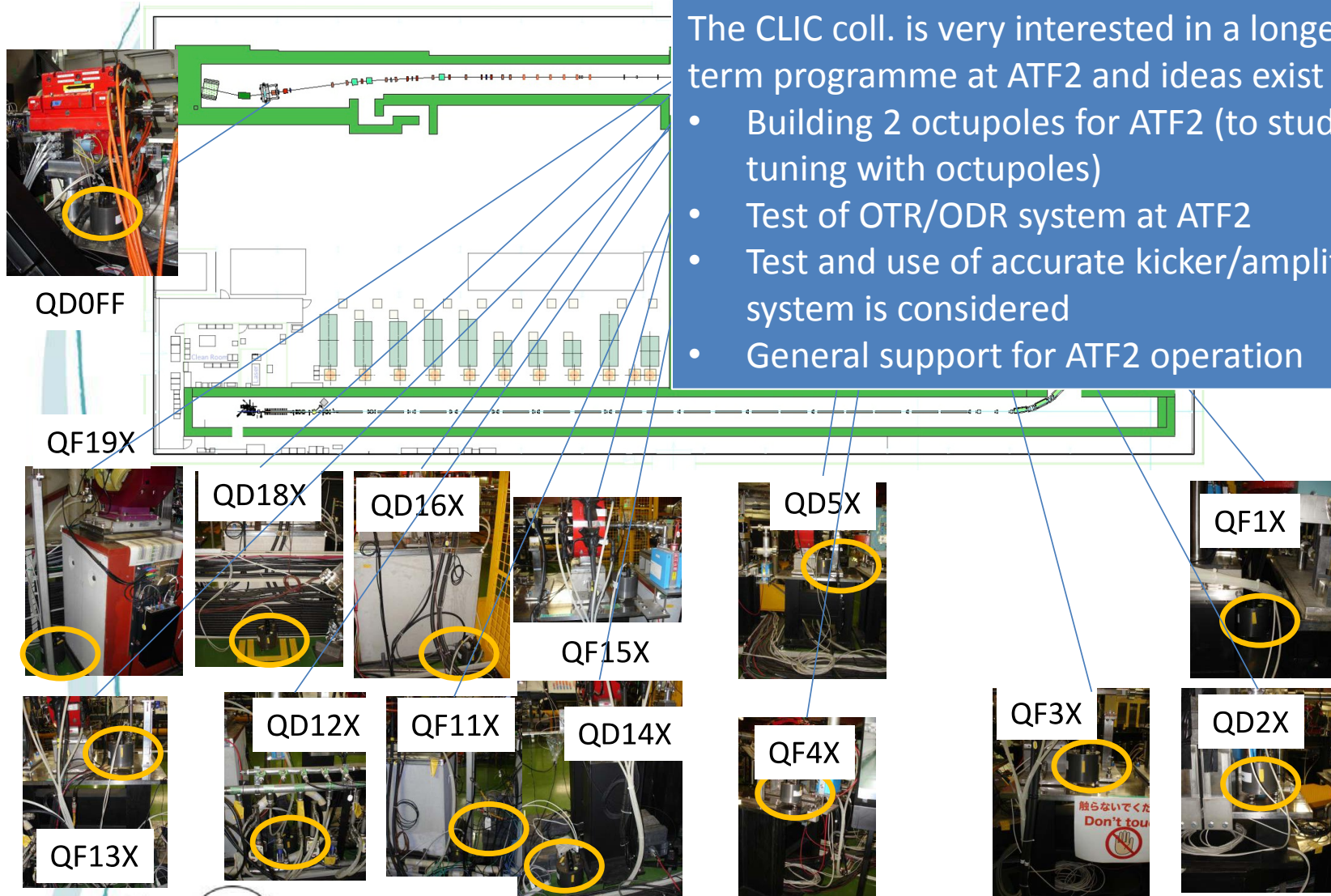




ATF2: Stabilisation Experiment

The CLIC coll. is very interested in a longer term programme at ATF2 and ideas exist for:

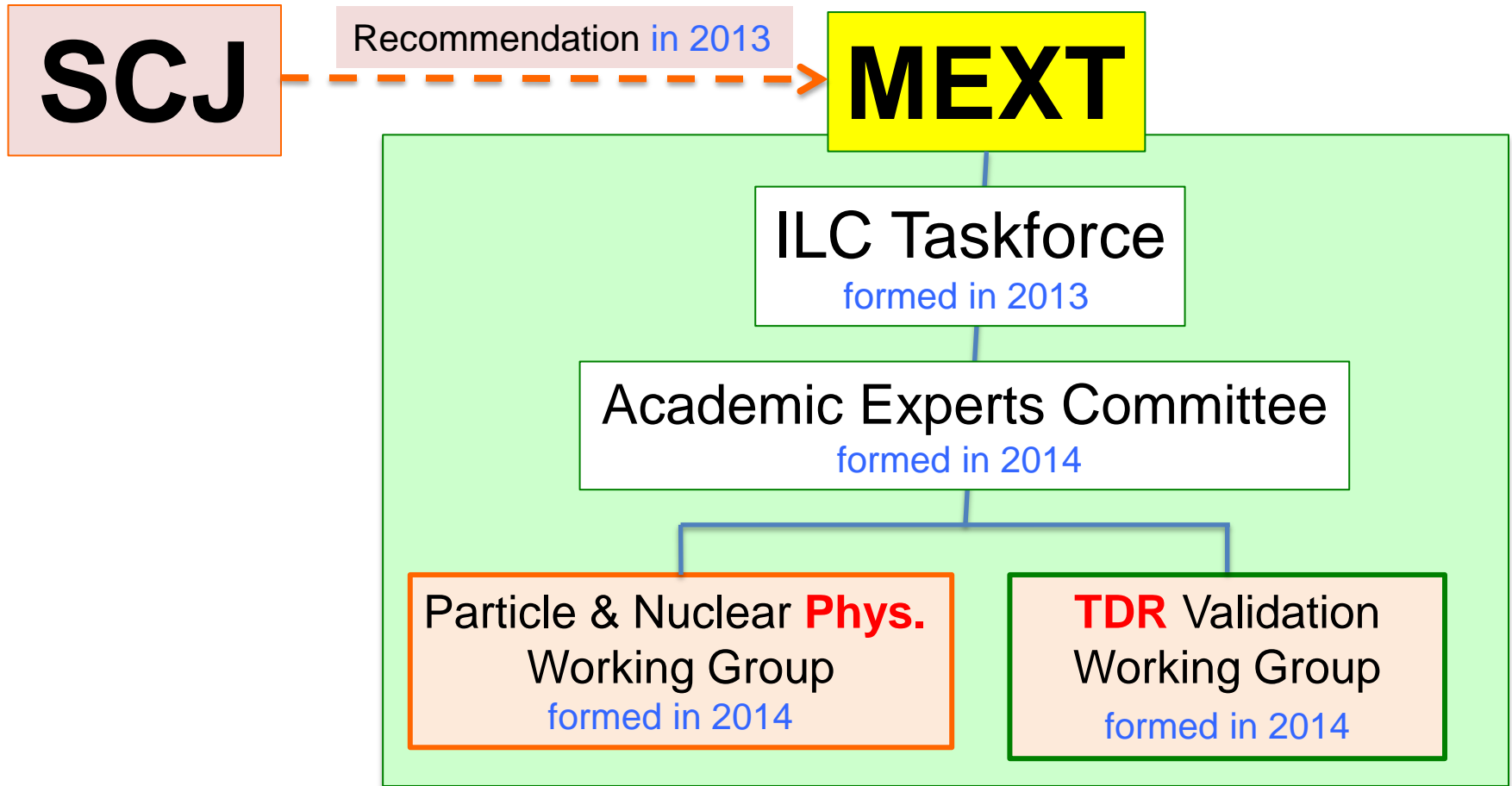
- Building 2 octupoles for ATF2 (to study FFS tuning with octupoles)
- Test of OTR/ODR system at ATF2
- Test and use of accurate kicker/amplifier system is considered
- General support for ATF2 operation





MEXT's Organization for Studying ILC

based on SCJ's Recommendations





Schedule for Committee and WGs

Experts committee	
	date
1	5/8
2	(11/14)

Physics WG		
	date	Subject
1	6/24	Status of Particle Physics and ILC physics overview
2	7/29	Future prospect in the US and in Europe
3	8/27	Cosmic-ray and Astrophysics, and ILC
4	9/22	Flavor and Neutrino physics, and ILC
5	10/21	Interim summary to be input to the Experts Committee

TDR Validation WG		
	date	Subjects
1	---	Overview
2	---	ML and SRF
3	---	SRF Q&A., CFS
4	---	(Schedule and Project Management including Cost and Human Resource)

Additional:

- MEXT has issued a call for tender for a company to investigate technology spin-off and economic ripple effects from ILC.
- A report is due 31 March 2015.