

Even before the Japanese government starts specific studies related to the domestic site of the International Linear Collider (ILC), it is necessary to study in advance the outline of issues related to the location of the ILC in the Tohoku region, which is a candidate site for domestic construction. For this purpose, the Tohoku ILC Preparatory Office was established in June 2016 under the Tohoku ILC Promotion Council. The Tohoku ILC Preparatory Office has formulated the Tohoku Master Plan and has been studying facility and equipment design specific to the Kitakami site, as well as measures to enhance industrial competitiveness through the ILC. In order to further accelerate the community-driven studies, the Tohoku ILC Preparatory Office was developmentally reorganized and the "Tohoku ILC Project Development Center" was established on August 6, 2020.

### Tohoku's Efforts as a Candidate Site for the World

The southern part of the Kitakami Mountains, which straddle Iwate and Miyagi prefectures in the Tohoku region of Japan, is a series of granite formations and was selected as a global candidate site through the following process.

#### ILC site evaluation by Japanese researchers (2013)

In August 2013, the "ILC Site Evaluation Conference" consisting of Japanese researchers released the results of their study that the Kitakami site is the best candidate site for the ILC in Japan.

This assessment result was supported internationally. Since then, Tohoku has cooperated with the international research community (LCC/Linear Collider Collaboration) and other organizations to promote the plan as a candidate site for construction in the world.



### Organization of the Tohoku ILC Project Development Center

- Establishment: August 6, 2020
- Representative: Atsuto Suzuki, President, Iwate Prefectural University
- Constituent Organizations  
Tohoku University, Iwate University, Iwate Prefectural University, Miyagi Prefecture, Iwate Prefecture, Sendai City, Kesenuma City, Tome City, Kurihara City, Osaki City, Morioka City, Ofunato City, Hanamaki City, Kitakami City, Tono City, Ichinoseki City, Rikuzentakata City, Oshu City, Nishiwaga Town, Kanegasaki Town, Hiraizumi Town, Sumita Town, Iwate Prefecture International Linear Collider Promotion Council

### Efforts of the Tohoku ILC Project Development Center

#### Subcommittee Activities by Issue

The Tohoku ILC Project Development Center has established subcommittees consisting of researchers, experts, local government officials, and related industries to study and discuss issues that should be addressed by the local community in conjunction with the construction of the ILC.

#### Themes to be studied by the subcommittees

- 1 Topographical and geological survey of the candidate construction site, study of the layout of facilities such as tunnels, etc, Civil engineering design.
- 2 Examination of logistics and assembly bases for the ILC accelerator and measuring instrument buildings, etc.
3. Study on the environment and community development to accommodate researchers and their families.
- 4 Activities to promote local residents' understanding of ILC construction.
- 5 Promotion of accelerator-related industries.
- 6 Study of the impact on the natural environment, society, and economy.
- 7 Local carbon-neutral and green ILC initiatives.

### Establishment of Tohoku ILC Project Development Center

#### Proactive Preparation for Construction by Candidate Local Governments, etc.

The Japanese government has not made a decision on the construction of the ILC. It is hoped that the Japanese government will position the ILC as a national project and promote international discussions.

As a candidate site for construction, even before the government has made a concrete study, we believe it is necessary for the local community to proactively consider various issues specific to the site for construction, the development of an environment to accommodate researchers and their families associated with the location of the ILC, and the promotion of accelerator-related industries triggered by the ILC.

#### Collaboration with national and international research communities

In August 2020, the IDT (ILC International Development Team) was to be established under the ICFA (International Commission on Future Accelerators). Since the preparation for the ILC construction was expected to progress in this way, the IDT, KEK (High Energy Accelerator Research Organization), AAA (Association for the Advancement of Advanced Accelerator Science) and other related organizations will work together to promote the civil design of the ILC construction and other related issues such as logistics and environmental impact assessments. In August 2020, the Tohoku ILC Project Promotion Center was established with local governments, universities, and other organizations in the vicinity of the candidate ILC construction site to study specific issues.

### Organizational Chart of Tohoku ILC Project Development Center

