

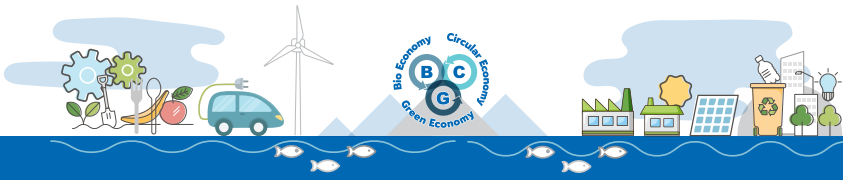
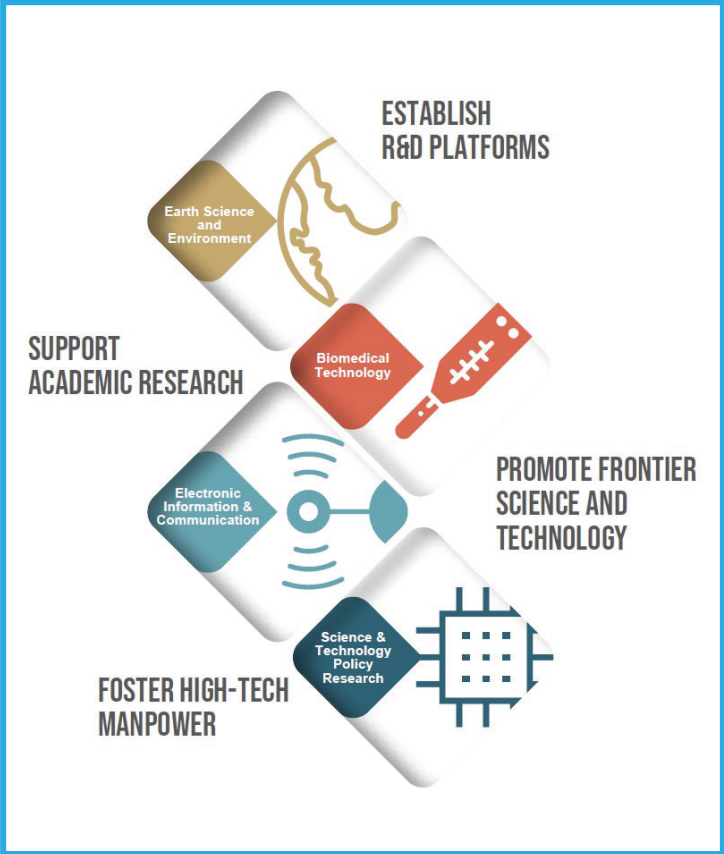
# National Applied Research Laboratories, Taiwan (NARLabs)

Established in June 2003, National Applied Research Laboratories, (NARLabs) has combined 8 national laboratories into an independent non-profit institute under the guidance of Ministry of Science and Technology (MOST). With the four major missions “Establish R&D platforms, support academic research, promote frontier science and technology and high-tech manpower” in mind, NARLabs is striving for “Global excellence, Local impact.” It endeavors to translate academic research results into real businesses and emerging industries in the hope of contributing for the benefit of social welfare.

NARLabs assists government agencies in promoting a number of collaborative academic projects, while steadily advancing fundamental research, focusing on the environment, information and communications, biomedicine and technology policy. This institution is a source of boundless energy driving innovation in science and technology. An optimal platform for connecting different fields. As the most comprehensive and complete R&D platform and technology service provider in Taiwan, NARLabs owns the cutting-edge technology, large-scale facilities and equipment needed to support scientific and technology development, as well as the domestic economy.

In addition, NARLabs Provide services and equipment to domestic industry, government, schools, and research institutions. With its observation, testing, and computing platforms, NARLabs supports a wide range of academic research closely link with people’s lives. This includes research on earthquake, air pollution, and healthcare, as well as assistance giving to the government in conducting collaborative projects in conjunction with the academia. NARLabs is also actively building links between fundamental research and industry in an effort to create industry ecosystems with greater value. NARLabs support the government science and technology policy planning and assists innovative startups. As a base for R&D, it provides a one-stop service and mentoring to promote the commercialization of these emerging enterprises. Building a self-sustaining society NARLabs transform R&D results into accessible, easy to understand content that stimulates the public’s interest in science. The institution is also doing its utmost to bring science and technology education to remote, underprivileged areas. Felling the pulse of the world; drafting international strategies that resonate around the globe.

NARLabs has made global deployment and scientific and technological diplomacy part of its core mission, through bilateral research projects and exchanges of personnel with major international collaboration partners from different part of the world. This has not only contributed to Taiwan academic’s research but is also supporting global sustainable development.



## NARLabs 8 Research Centers;



### ■ National Laboratory Animal Center

# PRECISION MEDICINE HERO THE HEROES

Conquer disease with precision. Hero the heroes in translational medicine. Aiming to support drug innovation and medical device development, NLAC teams up all expertise and animal resources to provide a one-stop-shop efficacy service platform for preclinical animal testing.



## NARLabs 8 Research Centers;



### Taiwan Ocean Research Institute

# OCEAN TECHNOLOGY EXPLORATION PIONEER

TORI takes pride in being the backbone of the national marine research and exploration task force. With several core facilities and in-house development instrumentation systems, TORI collects ocean data around Taiwan and waters in the open ocean. These data sets provide valuable references for marine researches and government policy-making. Meanwhile, the institute also plays the role as a hub to initiate international collaboration. We expect to support not only the marine related issues, but also to be a cradle of new marine talents.



## NARLabs 8 Research Centers;



### ■ National Center for High-performance Computing

# AI PILOT FUTURE INNOVATION

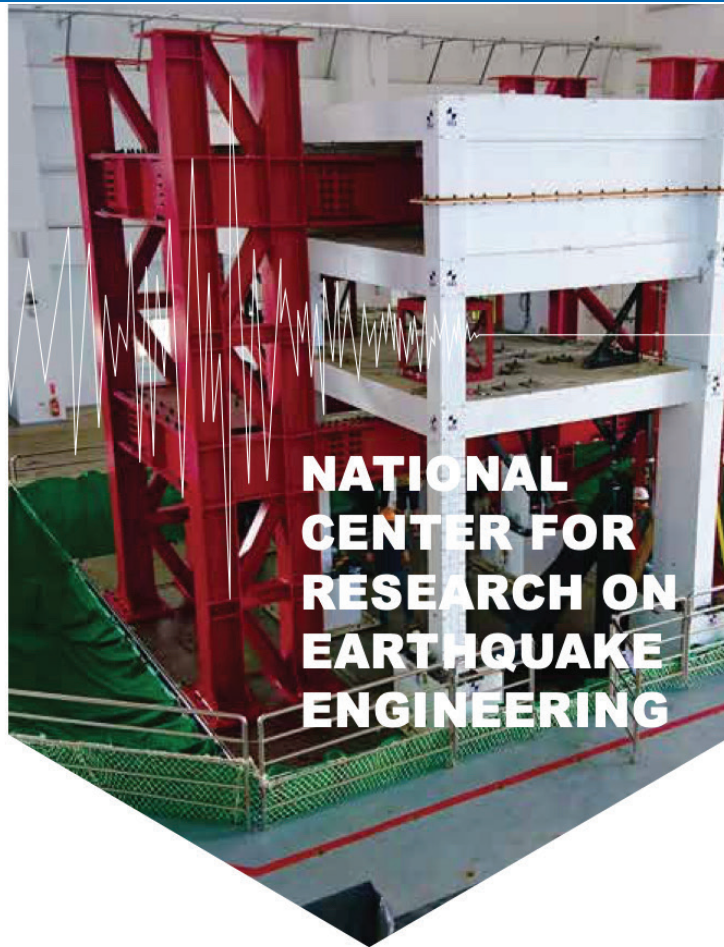
NCHC effectively integrates high-performance computing, 100G-bandwidth research and education network, and national-level AI research resources and cloud-based facilities to provide the industry, government, academia and research institutes with a high-performance computing environment for large-scale sharing. NCHC thus lays the foundation for Taiwan's scientific and technological development and promotes AI applications. In the future, NCHC will utilize government database and AI technologies developed by the industry, academia and research institutes to help the industry create high-value AI applications. NCHC's ultimate goals are to upgrade industries and promote innovation, and thereby creating a better future.



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STI Driving BCG Economy for Sustainability



## NARLabs 8 Research Centers;



**NATIONAL  
CENTER FOR  
RESEARCH ON  
EARTHQUAKE  
ENGINEERING**

### ■ National Center for Research on Earthquake Engineering

# ASEISMIC PROTECTION SUSTAINABLE FUTURE

#### Pre-Earthquake Preparedness:

Promoting aseismic design regulation amendment, aseismic evaluation and retrofit, seismic isolation and energy dissipation technology to ensure homeland security.

#### Emergency Response:

Developing an earthquake early warning and damage estimation systems to real-time examine structural safety of buildings and strengthen emergency response.

#### Post-Earthquake Restoration:

Post-quake restoration is supported by post-quake rescuing facilities and emergency safety evaluation technologies.



## NARLabs 8 Research Centers;



### ■ National Space Organization

# SENTINELING TAIWAN AND THE WORLD

National Space Organization (NSPO) is an institution that integrates the development of space technology in Taiwan. Through the implementation of various satellite programs, NSPO supports government missions, promotes scientific research and drives industrial development. NSPO has completed FORMOSAT-1 scientific, FORMOSAT-2 remote sensing and FORMOSAT-3 meteorological constellation programs. NSPO is currently performing FORMOSAT-5 in-orbit operation for remote sensing and scientific mission, and FORMOSAT-7 for meteorology and space weather mission.



NSPO



## NARLabs 8 Research Centers;



### Science & Technology Policy Research and Information Center

# POLICY NAVIGATION TECHNOLOGY INNOVATION

STPI grasps the global science & technology trends and performs systematic research in S&T policy to make timely, professional, and objective recommendations in the national policy formulation process. STPI's missions include supporting the government, cultivating innovative and entrepreneurship talents, establishing national and international S&T information systems, and providing integrated services.



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## NARLabs 8 Research Centers;



■ Taiwan Instrument Research Institute

# DREAM TEAM FOR FRONTIER TECHNOLOGIES

TIRI is the only organization that can provide advanced instrumentation research and related instrument system innovations for the fields, including science, engineering, biomedical and agricultural science, etc. By holding the belief of “Drive Technology Innovation to Promote Academic Research,” TIRI assists the industry, academia and research organizations with instrument technology solutions and innovative application services. It is also the first organization to offer one-stop services for medical devices development, consultation, test and verification. Serving as a national dream team, TIRI is dedicated to assisting the academia in commercializing their creative ideas.





## NARLabs 8 Research Centers;



Taiwan Semiconductor Research Institute

# INTEGRATION TRANSCENDS LIMITATION

TSRI effectively integrates relevant resource, establishes shared environments and platforms for chip design, manufacturing and R&D, offering R&D services such as chip design, tape-out, testing, semiconductor devices, materials and process, and providing talent cultivation trainings. In the future, TSRI will carry out its function of integration and take design and process into total consideration, elevating its effectiveness and innovative technologies while enabling Taiwan semiconductor technology to play a major role in the world.



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