耐災害ICT研究センター
RESILIENT ICT RESEARCH CENTER

While information and communication systems, in the East Japan Great Earthquake on March 11 in 2011, have been severely damaged and did not work sufficiently, the importance as social infrastructure has been strongly recognized.

Under close collaboration with Tohoku University, National Institute of Information and Communications Technology (NICT) established the world's leading research center named "Resilient ICT Research Center" on April 1 2012 in Katahira Campus of Tohoku University. The center aims to realize resilient ICT technologies and regenerate local economic activities in disaster areas by promoting collaborative research among industry, academia and government.

Dr. Yoshiaki Nemoto
Director General of Resilient
ICT Research Center, NICT

Laboratories of Resilient ICT Research Center

Aiming "connected" and "unbreakable" networks also in the case of disaster events, three laboratories in the center will study resilient ICT technologies as follows.

Robust Network Platform Laboratory
The robust network platform laboratory studies robust network technologies for establishing an optical fiber and wireless network platform, on which important communication lines are secured, optimum resource managements are achieved, and communication congestions are mitigated even when communication links and bandwidths are limited due to disaster and emergency events.
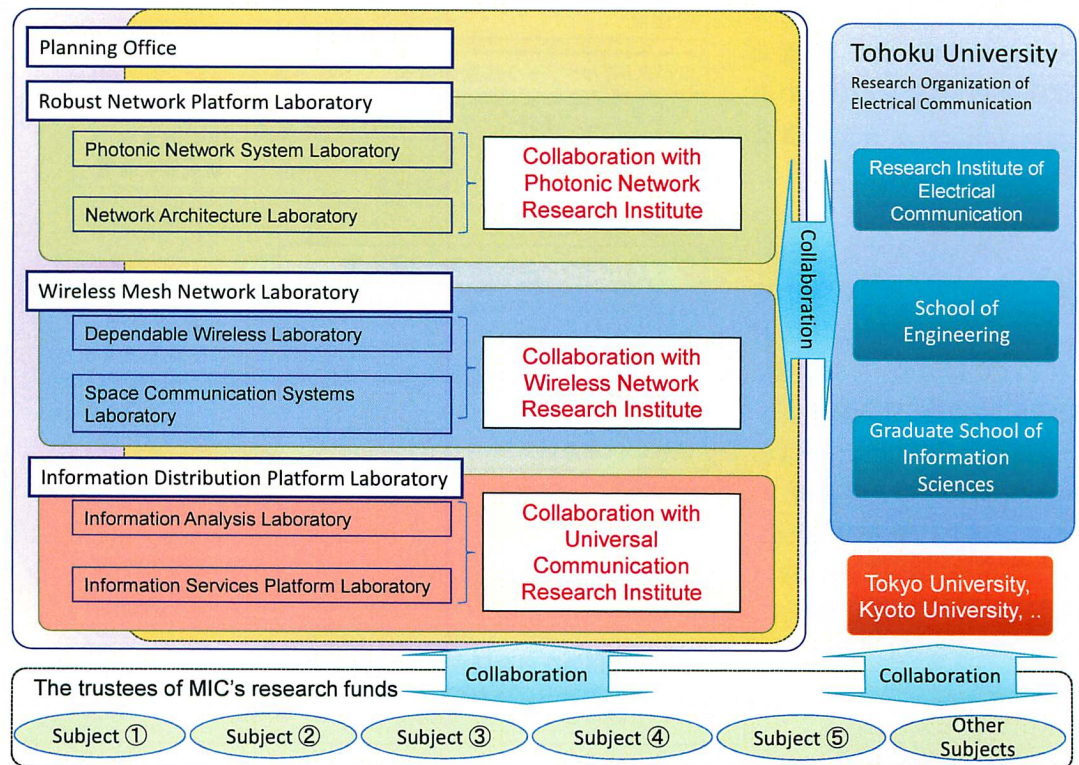
Wireless Mesh Network Laboratory
The wireless mesh network laboratory studies wireless network technologies, which realize resilient wireless mesh networks with autonomous cooperative works of widely distributed terminals and establish a flexible and dependable wireless network including communication satellites, mobile vehicle and aircraft.

Information Distribution Platform Laboratory
The information distribution platform laboratory studies an anti-disaster information distribution platform, which collects and organizes a vast amount of information concerning disasters using information and language analysis technologies, in order to provide useful information that facilitates the grasping of the situation and better decision making.

Planning Office
The planning office takes charge of publicity work and public-relations correspondence, and has responsibility for establishing a testbed for cooperative research with industry, academia and government research institutes.

Planning Office

Robust Network Platform Laboratory
- Photonic Network System Laboratory
- Network Architecture Laboratory

Collaboration with Photonic Network Research Institute

Wireless Mesh Network Laboratory
- Dependable Wireless Laboratory
- Space Communication Systems Laboratory

Collaboration with Wireless Network Research Institute

Information Distribution Platform Laboratory
- Information Analysis Laboratory
- Information Services Platform Laboratory

Collaboration with Universal Communication Research Institute

Tohoku University
Research Organization of Electrical Communication
- Research Institute of Electrical Communication
- School of Engineering
- Graduate School of Information Sciences

Tokyo University, Kyoto University, ..

Collaboration

The trustees of MIC's research funds — Collaboration — Collaboration
Subject ① | Subject ② | Subject ③ | Subject ④ | Subject ⑤ | Other Subjects

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NICT
National Institute of Information and Communications Technology