

Kyoto University On-site Laboratory: International Research Laboratory for Earthquake and Tsunami Risk Cognition and Reduction

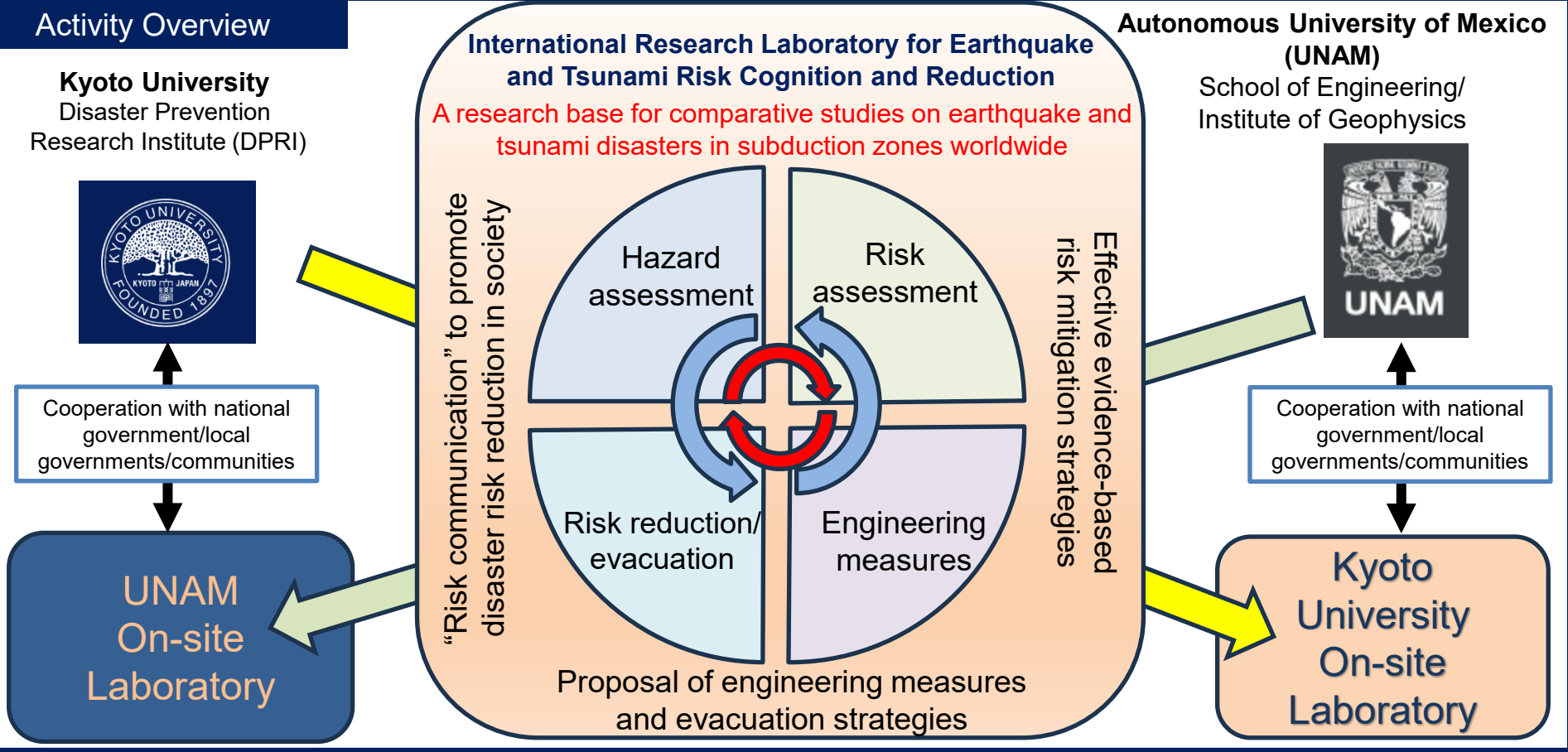


General Information

- ◆ Established by the Disaster Prevention Research Institute (DPRI)
- ◆ Partner Institution: National Autonomous University of Mexico (UNAM)
- ◆ Establishment (scheduled): November 2024
- ◆ Location: (Cross-bound type)
National Autonomous University of Mexico (UNAM), Mexico City, Mexico (outbound)
Disaster Prevention Research Institute (DPRI), Kyoto University, Uji, Kyoto, Japan (inbound)
- ◆ Purposes: An interdisciplinary research center on the disaster mitigation of earthquake and tsunami in subduction zones
- ◆ Functions: Enhance understanding of earthquake/tsunami disasters and risks through natural science, engineering, and social sciences

Positive ripple effects on the university's activities

- Establishment of the new academic field, "Comparative Earthquake and Tsunami Disaster Science."
- Publicize Kyoto University's leading role in earthquake and tsunami disaster prevention research.
- Serve as a hub laboratory with the Latin American research community.
- Recruit excellent master's and doctoral students.



Kyoto University On-site Laboratory: INitiative for INtelligent ChemBioInformatics (IN-CBI)

General Information

- ◆ Established by Institute for Integrated Cell-Material Science (iCeMS), Institute for Advanced Study (KUIAS), and backed by the Institute for Chemical Research
- ◆ Partner Institution: Indian Institute of Technology Roorkee
- ◆ Establishment (scheduled): October 2024
- ◆ Location: (Cross-bound type)
Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India (outbound)
KUIAS, Kyoto, Japan (inbound)
- ◆ Purpose: Scripting an ecosystem to develop intelligent medical tools for age-related diseases
- ◆ Functions: Establishment of a hybrid (physical and virtual) platform between Kyoto University and premier Indian research institutions to efficiently identify and exchange outstanding students and early career researchers for education

Positive ripple effects on the university's activities

- Collaborate with India's top-tier engineering and medical institutions to co-develop innovative chemical biology tools at Kyoto University.
- Cultivate a new generation of scientists through the exchange of top students and researchers, empowering them to contribute to the global scientific community.
- Create an environment in which Kyoto University can become a "first destination" for Indian students.

Activity Overview

A hybrid (physical and virtual) cross-bound on-site laboratory for accelerating the development of intelligent (=programmable molecular design) chemical biology tools with the aim of advancing precision medicine

- Promoting research exchange and brain circulation as a hub between Kyoto University and the IIT network



Physical

Provisional space by IIT Roorkee (3500 m²) and iCeMS (124 m²), cross-appointment of principal investigators, assignment of resident researchers by IIT and Kyoto University

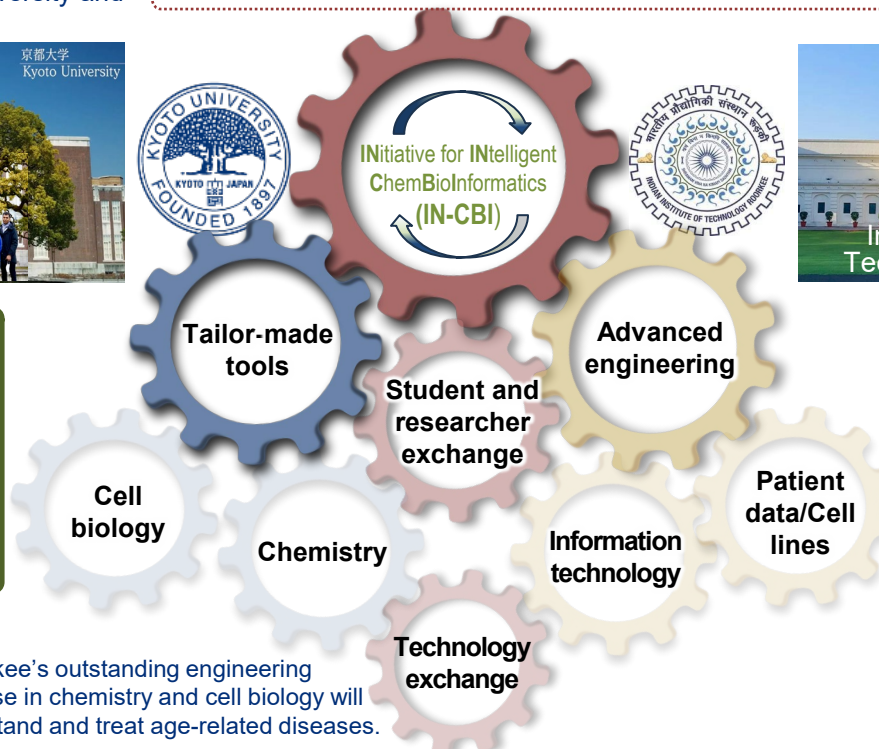


INitiative for INtelligent
ChemBioInformatics
(IN-CBI)



- ✓ Cross-border funding initiatives
- ✓ Sustainable mechanisms
- ✓ Network expansion
- ✓ Regional development contribution
- ✓ Engagement and outreach activities

- The synergistic effect of combining IIT Roorkee's outstanding engineering environment and Kyoto University's expertise in chemistry and cell biology will accelerate collaborative research to understand and treat age-related diseases.



Virtual

