

17th Integrated Research on Disaster Risk (IRDR)
Science Committee Meeting

Presentation of
IRDR International Centre of Excellence
(ICoE)-Taipei

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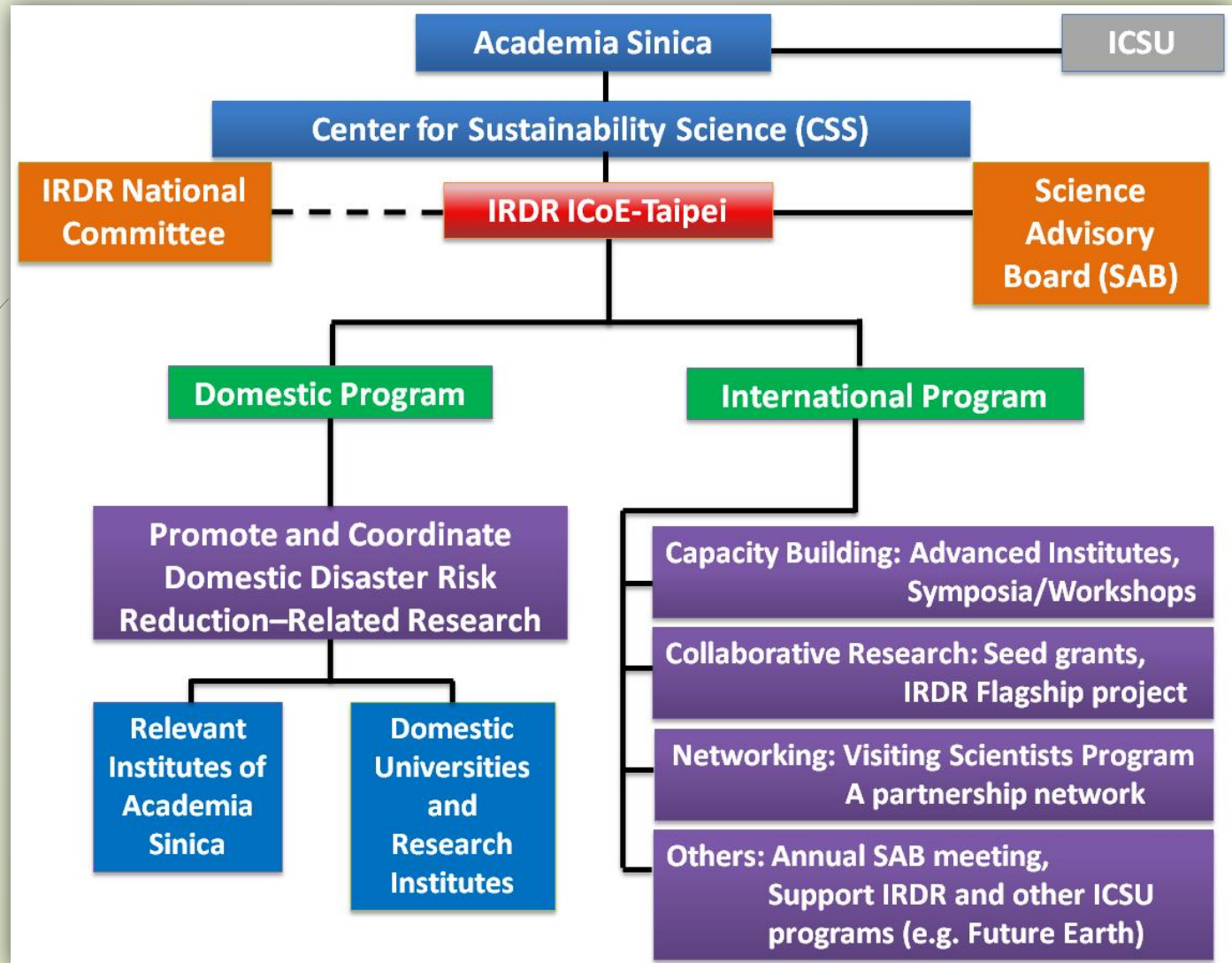
Center for Sustainability Sciences, Chinese Academy of
Science Located in Taipei



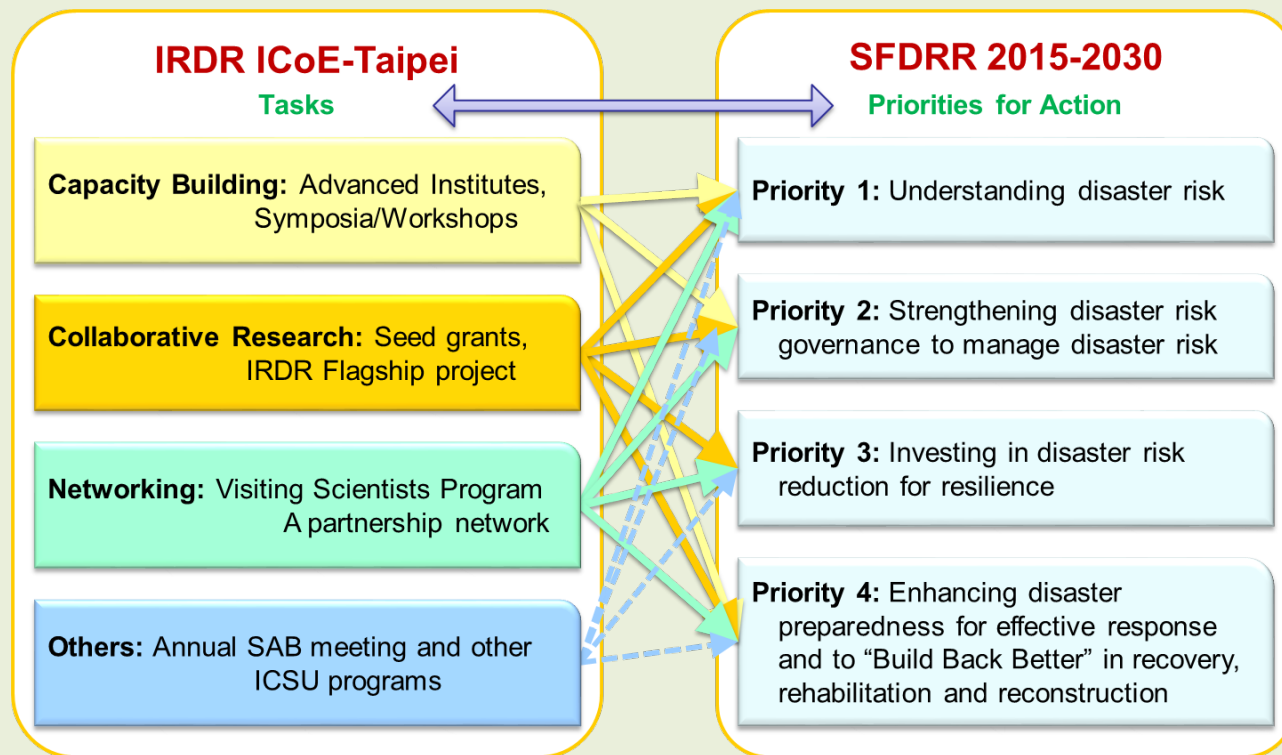
**Cancun, Mexico
May 23, 2017**

IRDR ICoE-Taipei

- Serves as an international platform for conducting **integrated research** on disaster risk from both the **natural and social science** perspectives.
- Builds a **partnership network** of disaster reduction research.



Expertise, training, and professional or policy ties



2012-2016

- Workshop : **21**
- Network activity: **16**
- Research project: **13**
- Visiting Scientist: **4**
 - Dr. Michelle Yung-Feng Huang
 - Prof. Shen-En Chen
 - Prof. Sloboden P. Simonovic
 - Dr. Kuan-Hui Elaine Lin

<p>Topics (DRR) covered by capacity building activities (2015-2017)</p>	<ul style="list-style-type: none"> • Climate service for health • Risk modeling and applications • Systems approach • Knowledge-based Actions 	<ul style="list-style-type: none"> • Air pollution • Psychological intervention • Remote sensing technology • Science and policy dialogue
<p>Bridging Science and Practice (2015-2017)</p>	<ul style="list-style-type: none"> • Pan Asia Risk Reduction Fellowship Program (PARR) • Flagship Project (led by NCDR) 	

Connections to IRDR research projects

- **ICoE-Taipei-NCDR Flagship Project:** Disaster Risk and Loss Reduction – Integrated Research, Policy, and Practice (led by NCDR)
 - Based on outcomes of all scientific research achievements and **four IRDR groups**.
 - Collaborate with **12 local governments**.
 - Identify gaps and demands on **science-based** disaster management.
 - Transfer international experiences (Pan-Asia Risk Reduction (**PARR**) fellowship and Advanced Institute (AI) on **Knowledge-based Actions** for Disaster Risk Reduction.

- **Advanced Institute – Forensic Investigation of Disasters (FORIN)**
 - Held in Taiwan on 12-19 March, 2012.
 - 24 participants from research, education and practitioner communities in nine countries across South and Southeast Asia.
 - **ICoE/NCDR published a 37-page FORIN report** on “Forensic Investigation of Typhoon Morakot Disaster: Nansalu and Daniao Village Case Study” on May 2014.

- **2012 Advanced Institute on Data for Coastal Cities at Risk**
 - Held in Taiwan on 22-27 October, 2012.
 - 29 participants from research, education and practitioner communities in ten countries across Asia and Africa.

Highlights of past activities (2016-2017)

- The 23rd Pacific Science Congress (Jun 13-17, 2016) (organized by Chinese Academy of Science Located in Taipei). **TWO** sessions:
 - Plenary Speech by Dr. Gordon McBean: “**Integrated research** for reducing disaster impacts for a sustainable future earth”
 - “Regional and local efforts on **implementation of the Sendai Framework** for disaster risk reduction”.
- The 1st and 2nd Workshops to Strengthen **Scientific Advisory Capacities** for Disaster Risk (Aug 25-26,2016; Jan 16-17, 2017) (with IRDR IPO, NRCT, & ICSU ROAP)
- 2016 **PARR** Fellowship Program Inception Meeting (Sep 7, 2016) (with START, etc.)
- The International Training Workshop on Natural Disaster Reduction – Natural Disaster Risk **Modeling** and Applications (Sep 26-30, 2016) (with NCDR)
- CWB-APCC Workshop on **Climate Service** for Health (Oct 11-14, 2016) (with CWB & APCC)
- The 5th and 6th Workshop on **Psychological Intervention** after Disasters (PIAD) (Nov 14-17, 2016) (with IUPsyS, CPS, Jacobs Foundation, ICSU ROAP, UNU/IIGH, & CADS, FSU)
- Training Workshop on “Monitoring and Forecasting Severe Weather with **Remote Sensing Technology** (Nov 28 – Dec 1, 2016) (with NCDR & RCEC)
- AI on **Knowledge-based Actions** for Disaster Risk Reduction (AI-KBA): Central governments (Apr 17-21, 2017) (with NCDR & ICSU ROAP)

Collaborative research (2016-2017)

- Follow-up Seed Grants for AI-DRRLM, AI-KBA, and AI-SOCD
- ICoE-Taipei-NCDR Flagship Project

Ongoing

- Advanced Institute on Systems Approach for Slow Onset Climate Disasters (AI-SOCD): **Air Pollution, Sensors, and Big Data** (Jul 10-14, 2017) (with ICSU ROAP, Future Earth, Future Earth in Asia, IGAC, IGAC MANGO, & LESTARI UKM)
- The 6th Workshop on **Psychological Intervention** after Disasters (PIAD) (with IUPsyS, CPS, Jacobs Foundation, ICSU ROAP, UNU/IIGH, & CADS, FSU)
- Advanced Institute on DRR with Remote Sensing Technology (AI-DRR-RST): **Severe weather** (with NCDR, RCEC, & ICSU ROAP)

Gain from being an active part of the ICoE family

Share Taiwan's Integrated DRR knowledge, technologies, and experiences with countries mainly in Asian region.

- ▶ Taiwan has **multi-disaster** risks.
 - ▶ Typhoon, earthquake, land slide, flooding, drought, etc.
- ▶ Taiwan has professional human resources, science knowledge and technologies for DRR.
- ▶ Taiwan has strong government supports and **good interfaces** between academy, governments, and front-line organizations to convert **knowledge to actions**.

Next steps

► Criteria of activities:

- Following the agreement between **Chinese Academy of Science Located in Taipei and ICSU**.
- **Enhancing capacity** in integrated DRR research and practice in Asia, with a global perspective and with in particular expertise of Taiwanese scientists.
- Facilitating integrated DRR **knowledge transfer** and collaboration among scientists from different disciplines, practitioners, and policy-makers.
- Providing solutions for problems encountered in one of the four phases of disaster management.

2018 Plan

- AI-RST - **Forest fire and peat fire**
- AI-SOCD - **Heat stress** sensors, early warning, and information technology
- AI on **Knowledge-based Actions for Local authorities**
- AI-**Governance**
- Seed grants for AI-RST, AI-SOCD, and AI-KBA
- Visiting scholar



THANK YOU

<http://www.cfss.sinica.edu.tw/>



The screenshot shows the website for the Center for Sustainability Science (CfSS) at National Central University. The header features the university's logo and name in Chinese and English, along with a search bar. The main navigation menu includes links for Home, Introduction, Projects, Int'l Programs, Activities, Publications, and Contact us. A sidebar on the left lists various programs and events, such as Int'l Programs, IRDR ICoE, Future Earth, Della Alliance, Researches, Projects 2016, and Seminar. The main content area displays the center's mission statement and a list of recent news and events.

Chinese | English

Please input search string

中央研究院永續科學中心
Center for Sustainability Science

Home Introduction Projects Int'l Programs Activities Publications Contact us

Int'l Programs
IRDR ICoE
Future Earth
Della Alliance
Researches
Projects 2016
Seminar

Center for Sustainability Science

The Center was founded in 2012 and its mission is conducting boundary-crossing sustainability-related research projects and international programs.

The Sustainability of Human Society is one of the most challenging issues facing humanity today. Because of its complexity, it is recognized that only through cross-disciplinary research integrating the relevant natural sciences and humanity and social sciences can we hope to develop practical solutions for sustainable development problems.

News and Events

2016-10-20 [Announcement] 2016 Training Workshop on Monitoring and Forecasting Severe Weather with Remote Sensing Technology
2016-10-18 Call for application for 2017 Gro Brundtland Award
2016-10-04 12 Oct. 2016 [CWB-APCC Workshop on Climate Service for Health]