

# **IRG Project: Past and Future and Proposal for Cooperation**



**YE, Qian**

**Executive Director**

**Integrated Risk Governance Project**

**a Future Earth Core Project**

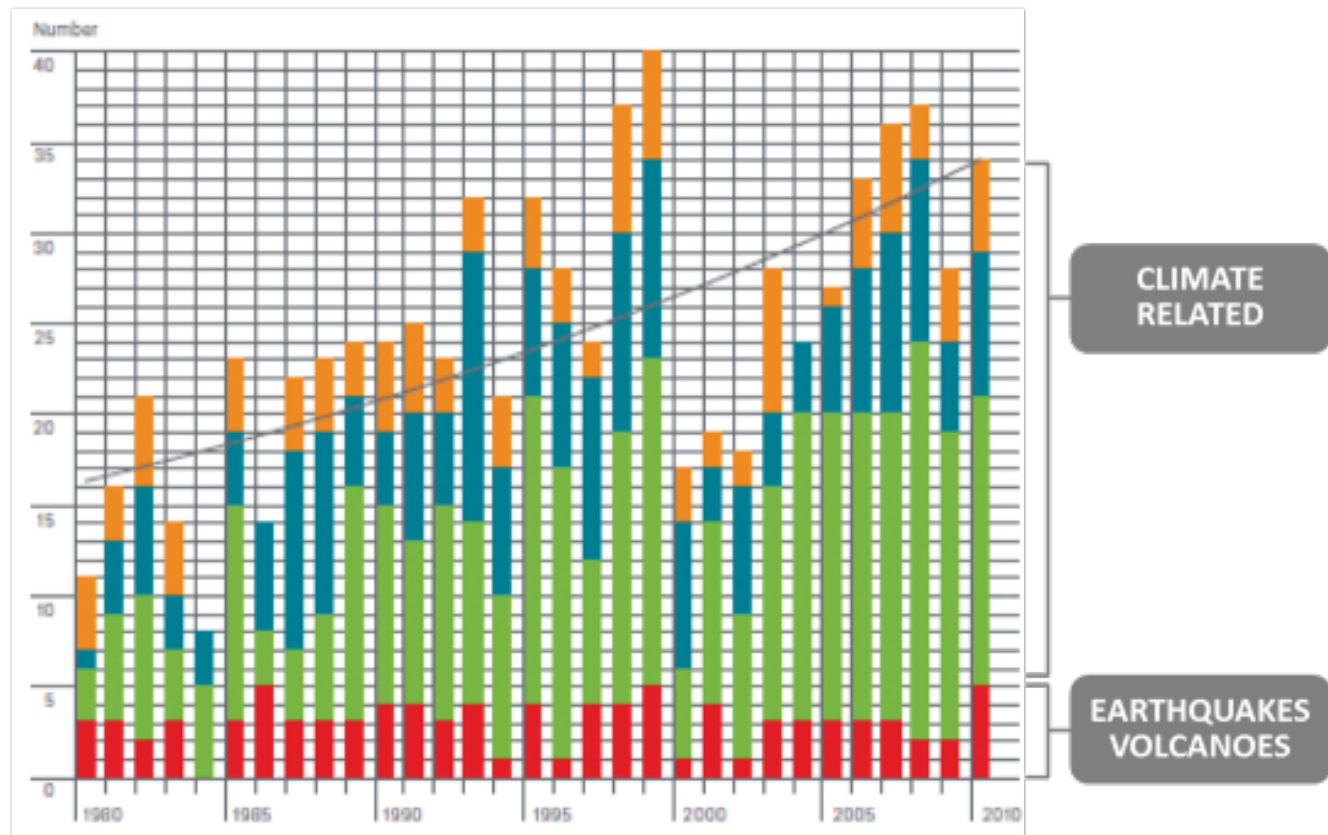
**Qingdao, China**

**2015.6.3**



# Increasing Very-large-scale Disasters at Global Scale

NUMBER OF "GREAT" & "DEVASTATING" GLOBAL DISASTERS  
(AS DEFINED BY MUNICH RE) SINCE 1980 INDICATED BY TYPE OF EVENT

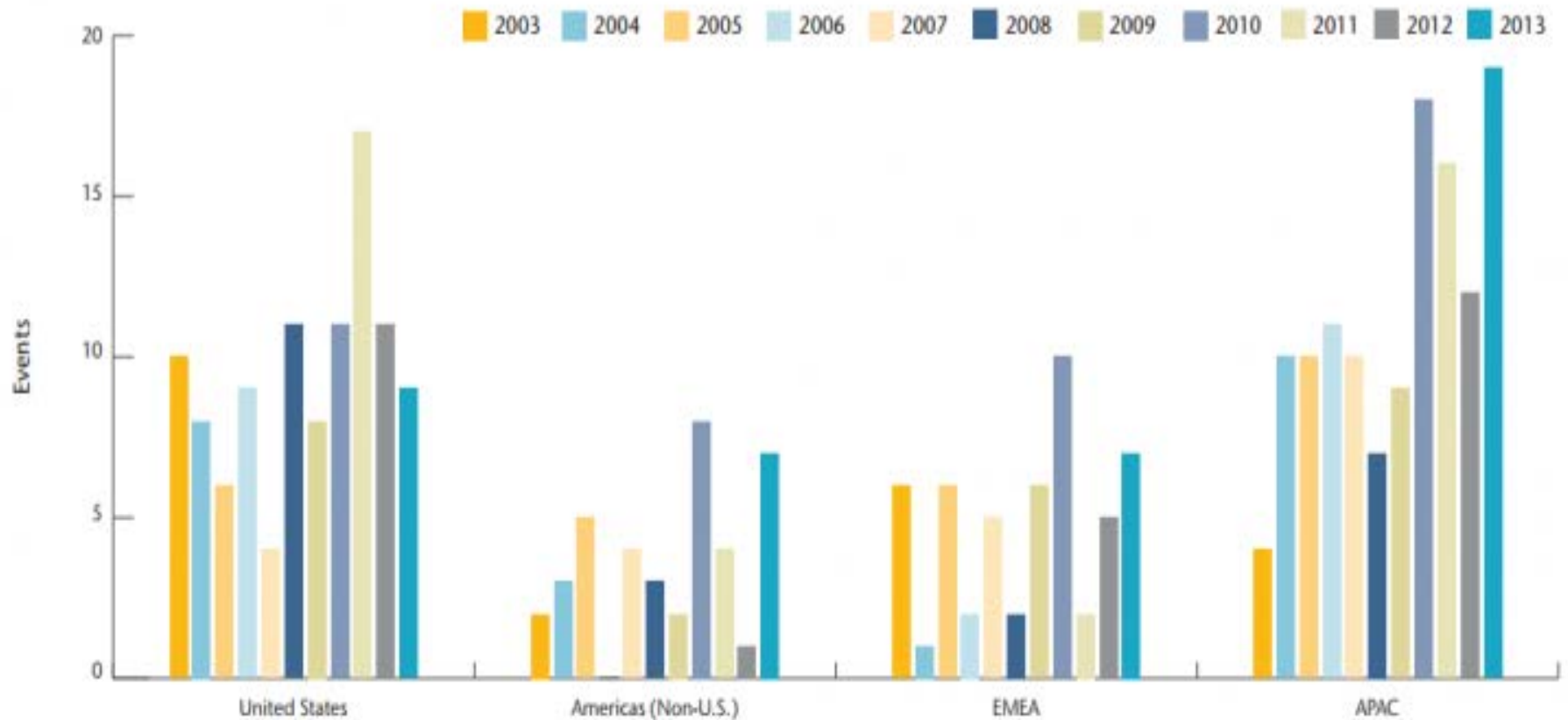


- GEOPHYSICAL**  
Earthquake, volcanic eruption
- METEOROLOGICAL**  
Severe weather, winter & tropical storms, hail, tornado
- HYDROLOGICAL**  
River & flash flood, storm surge, landslide
- CLIMATOLOGICAL**  
Heatwave, freeze, wildland fire, drought
- TREND**



# Increasing Very-large-scale Disasters at Regional Scale

Exhibit 4: Global Billion-Dollar Economic Loss Events by Region



Note: Exhibits 3 & 4 include events which reached the billion-dollar (USD) threshold after being adjusted for inflation based on the 2013 U.S. Consumer Price Index.



# Disaster Chain Effects



## 311 Triple Disaster



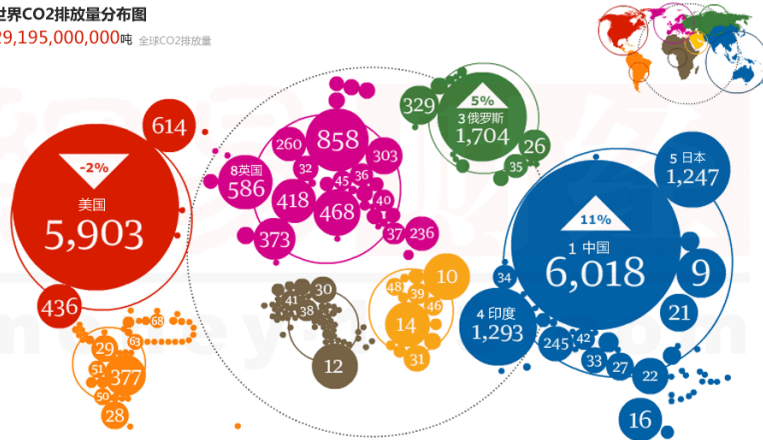


# Lacking of Global Politic and Economic Governing Mechanism

## Example 1: Global Climate Change

世界CO2排放量分布图

29,195,000,000吨 全球CO2排放量



制图：网易财经 数据来源：《EIA 国际能源展望预测》,2008年



## Example 2: Haiti Earthquake

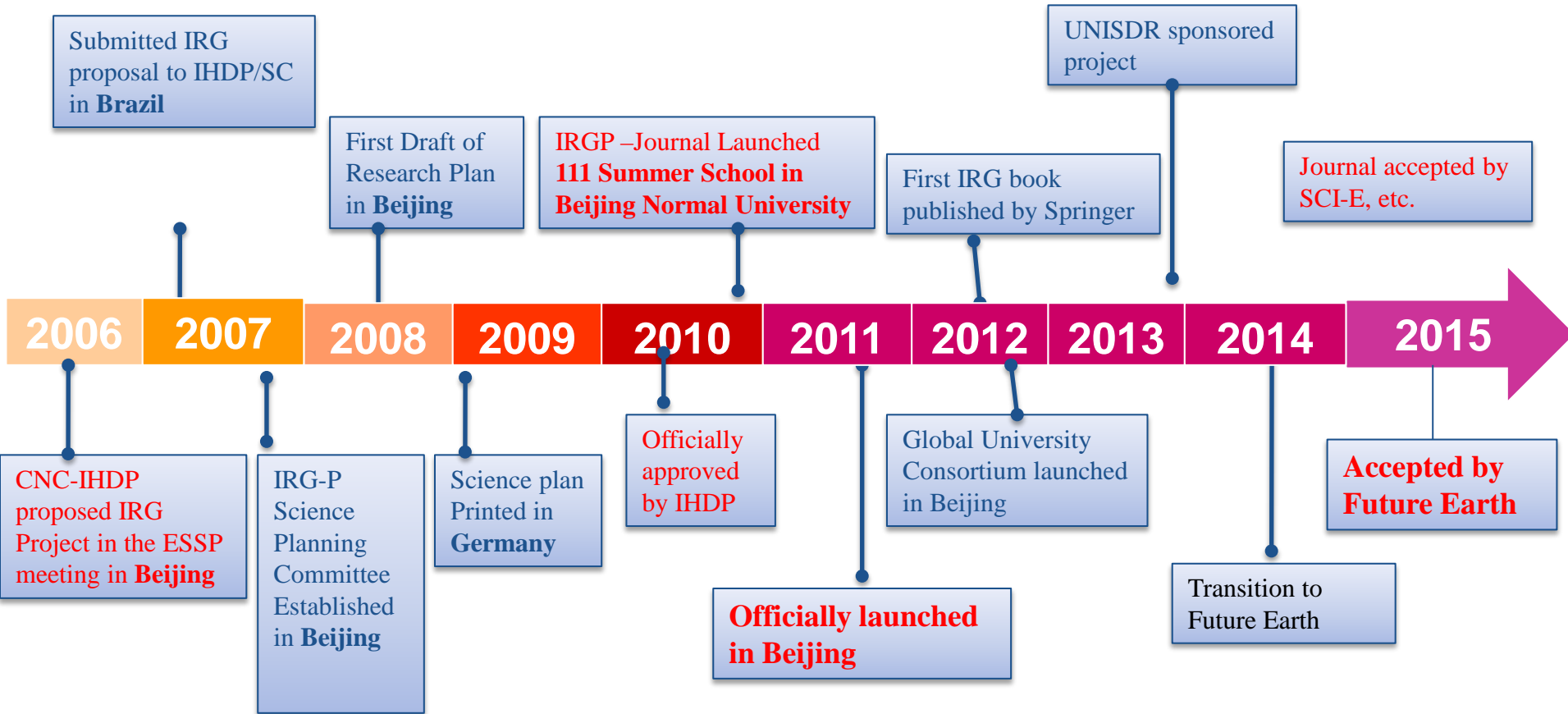


# Key Question

How to deal with the very large-scale, systemic and complex disasters (VLSDs) which exceed current coping capacities



# History of IRG Project





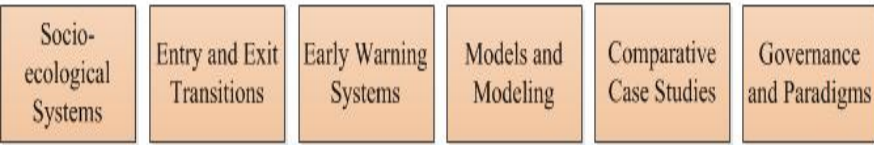
# Organization Structure and Management

## Organizational Structure

IHDP - IRG Project



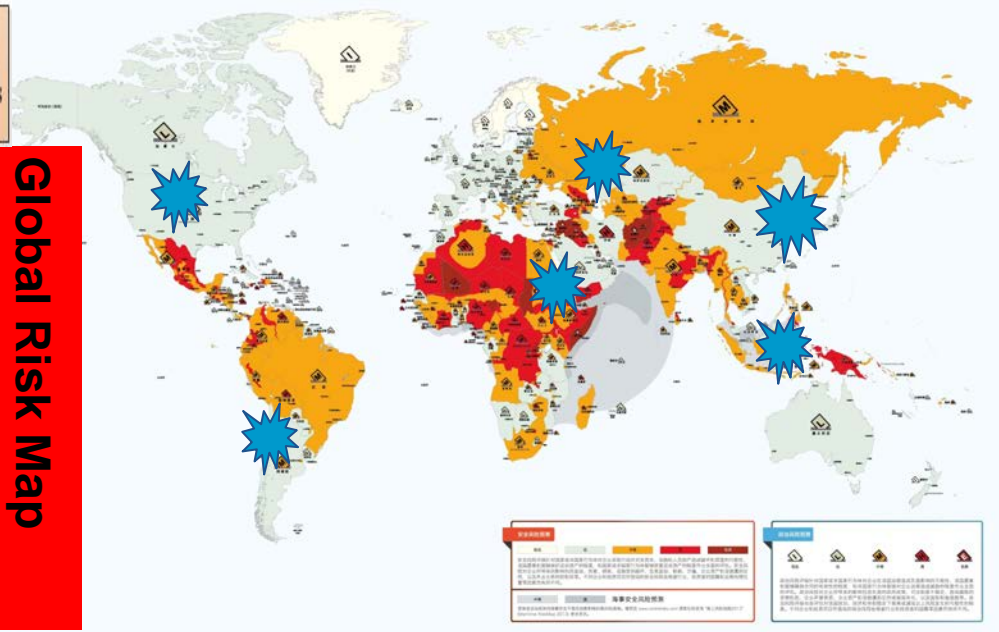
## Regional Center



Control Risks

www.controlrisks.com

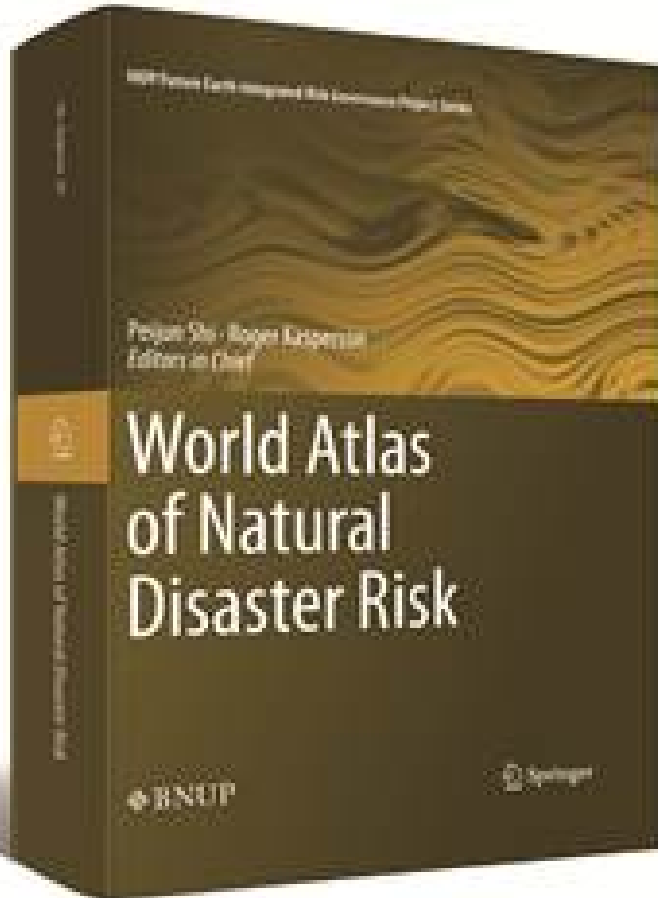
Global Risk Map







# Publications



Published in March 2015. More than 60,000 downloads



Accepted by SCI-E, JCR/Science Edition, Current Contents/Physical Chemical, and Earth Sciences in April, 2015



# Capital-Capacity Building



Global University Consortium for Integrated Risk Governance

FAVORITES | IRG PROJECT

HOME ABOUT GUC-IRG MEMBERS ACTIVITIES RESOURCES RELATED LINKS CONTACT

- > ABOUT
- > RATIONALE
- > MISSION
- > VISION
- > GOVERNING COUNCIL
- > ABOUT IRC PROJECT
- > OUR WORK
- > ORGANIZATION CHART
- > CONTACT

## MISSION

The GUC-IRG's mission is to foster an international platform of multidisciplinary education and training programs and to promote the informed and responsible use of disaster risk science and technology for the benefit of society.

The ultimate goal of the consortium is to provide an organizational infrastructure to foster a collaborative, trans-disciplinary education and training program in risk governance. A key part of this goal is also the development of a unified system consisting of advancing theory and methods in disaster risk sciences to assist national and international scientific and public risk policy making

## Global University Consortium for IRG Launched in 2012 with more than 50 education and academic institutes



北京师范大学  
综合灾害风险管理创新引智基地  
Hazard and Risk Science Base at Beijing Normal University

Phase I | Phase II

SEARCH:

HOME INTRODUCTION PROJECT TEAM ANNUAL TEAM WORKSHOP SUMMER INSTITUTE DOWNLOAD CONTACT



2010 Summer Institute for Advanced Study of Disaster and Risk

2009 S

PSYCHIC



## More than 200 young and early career scientists trained in Summer Institute Since 2010



# Supporting Policy Making



**3<sup>rd</sup> UN Disaster Conference in 2015**



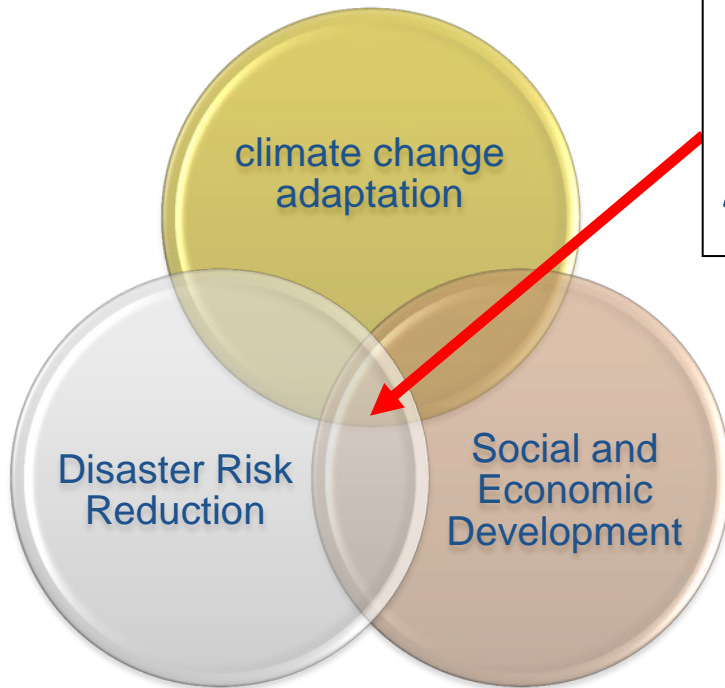
**Public Forum-Side Event**  
**Integrated Risk Governance and Government Roles**  
Tohoku University C205, 17:00 - 20:00, March 17, 2015





# Future Plan under FE Framework

## Resilient Adaptation



## IRG Project Mission

Providing better scientific understanding in the context of global climate change, innovative technique and technologies and governance paradigm to support the global DRR goals stated in Sendai Declaration





# IRGP Scope and Plan (2015-2024)

		Future Earth Research Theme		
		<b>Dynamic Planet</b>	<b>Global Development</b>	<b>Transformation towards Sustainability</b>
<b>Key Questions</b>		<b>Complexity &amp; Uncertainty in the context of GCC</b>	<b>Indicators, Assessments</b>	<b>Institutions, Governance Paradigm</b>
<b>IRG Project Scope and Plan</b>	<b>Co-Design Partner</b>	<b>UNISDR:</b> <ol style="list-style-type: none"> <li>1. Governance Framework and Global Financial Mechanism</li> <li>2. Climate Change Adaptation and Disaster Risk Reduction</li> </ol>		
	<b>Co-Production Partner</b>	<ol style="list-style-type: none"> <li>1. Risks and Opportunities</li> <li>2. Standards and Regulations</li> <li>3. Financial Mechanism and DRR Products</li> </ol>		
	<b>Co-Deliver</b>	<b>Training and Education</b> <ol style="list-style-type: none"> <li>1. Multi and Trans-disciplinary Curriculum and Programs</li> <li>2. Disaster Risk Sciences</li> </ol> <b>Dissemination</b> Journal, Book Series, Conferences, China Weather TV		



# Discussion on Cooperation

1. Sharing the network and resources
  1. Summer Institute: Experts, participants
  2. IRGP journal: IRDR annual special issue
  3. Joint workshops and conferences(bnu)
2. Co-developing research initiatives with Future Earth
3. Cooperation among IRDR, IRDR-China, IRGP and Beijing Normal University