



# Mobilizing inter- and trans-disciplinary activities by national academy

Professor Keisuke Hanaki  
Vice President  
Science Council of Japan

# National academy and networking

- Consisting of members from various disciplines and organizations
- Relations with domestic society

Good for inter- and trans-disciplinary activities

- International networking of national academies can enhance further inter- and trans-disciplinary activities



# Committees in Science Council of Japan (SCJ)

## Specialty Cmtes

30 Cmtes based on disciplines

1. Humanities and Social Sciences

*Philosophy...*

2. Life Sciences

*Biology...*

3. Physical Sciences and Engineering

*Physics...*

Each cmte has sub cmtes  
(450 in total)

## Issue-centered Cmtes

17 Ad-hoc cmtes (as of April 2017)

*-Supporting reconstruction after the Great East Japan Earthquake*

*-Promotion of Future Earth*

*-Others...*

*Cross-discipline discussion*

## Administrative Cmtes for Operation

*-International Affairs*

*-Others...*



# Experiences of SCJ

- Great East Japan Earthquake in 2011
  - Academic activities for six year since then
  - From emergency stage to middle to long-term policy stage
  
- Future Earth Program
  - Co-design, co-production and co-delivery concept

# Earthquake and the Nuclear Power Plant Accident (March 2011)

- Disaster outbreak
  - Earthquake and tsunami: March 11, 2011
  - Nuclear reactors melt down and explosion: March 13-15
- Actions of SCJ
  - Emergency statement “Disaster in Northeast Japan and Nuclear Emergency” on March 18
  - Establishment of committees

# Establishment of committees for the earthquake management and recovery

- From disaster outbreak (March 2011) to September 2011
  - Great East Japan Earthquake **Task Force**
  - Seven **emergency** recommendations
- After October 2011
  - Committee on supporting **reconstruction** after the Great East Japan Earthquake
  - Subcommittees on **various issues** to support reconstruction

**Interdisciplinary composition of cmte members**



# Sub-committees

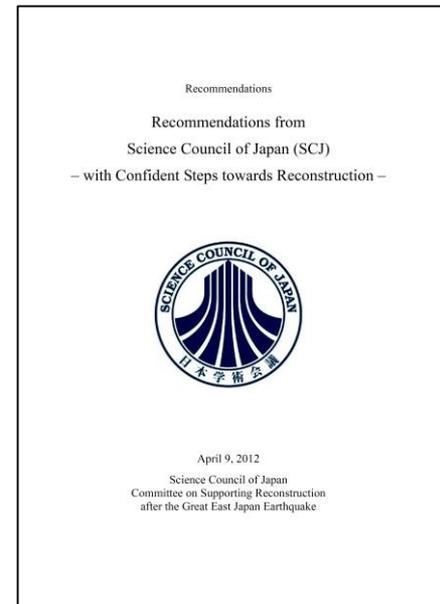
- Building disaster-resilient communities
- Promotion of industry and employment
- Countermeasures for radiation
- Disaster-resistant urban planning
- Supporting recovery of Fukushima area
- Energy supply policy
- Radioactive contaminated water management
- Health impact assessment, public health management and medical service on nuclear power plant accident

The topics required collaboration with society  
(Trasdisciplinary approach)



# Recommendation/ symposium

- More than 110 recommendations/reports were issued during 2011 through 2014
- Issued by special cmte, its sub cmte and other specialty cmtes
- Many symposia held



Disaster recovery and gender issues



# Networking of domestic academic societies on disaster by SCJ

- First stage

Academic Society Liaison Association  
Corresponding to the Great East Japan  
Earthquake formed in May 2011 (2 months  
after the Earthquake)

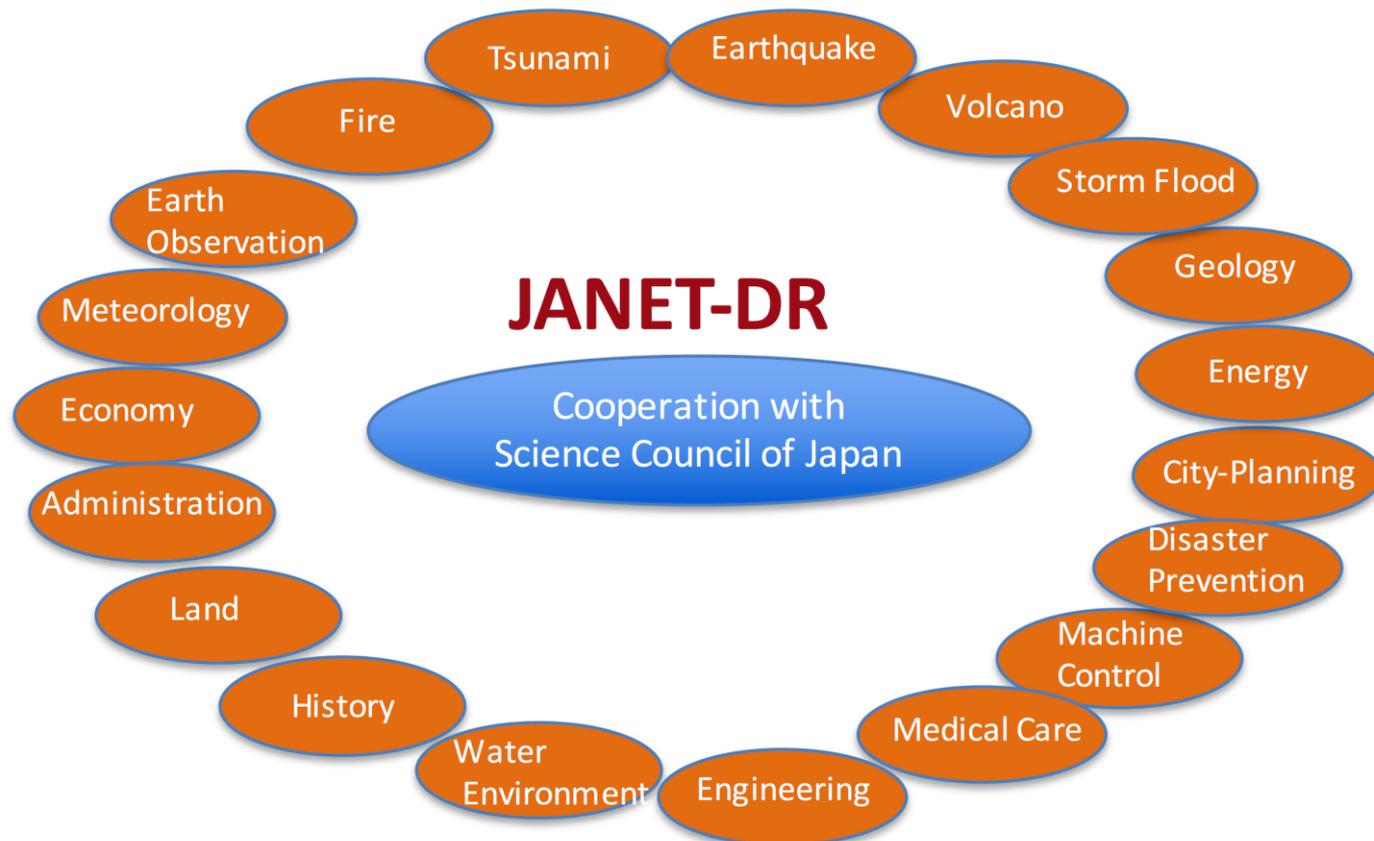
Joint Statement of 30 Disaster-Related  
Academic Societies of Japan (Nov. 2014)

- Second stage

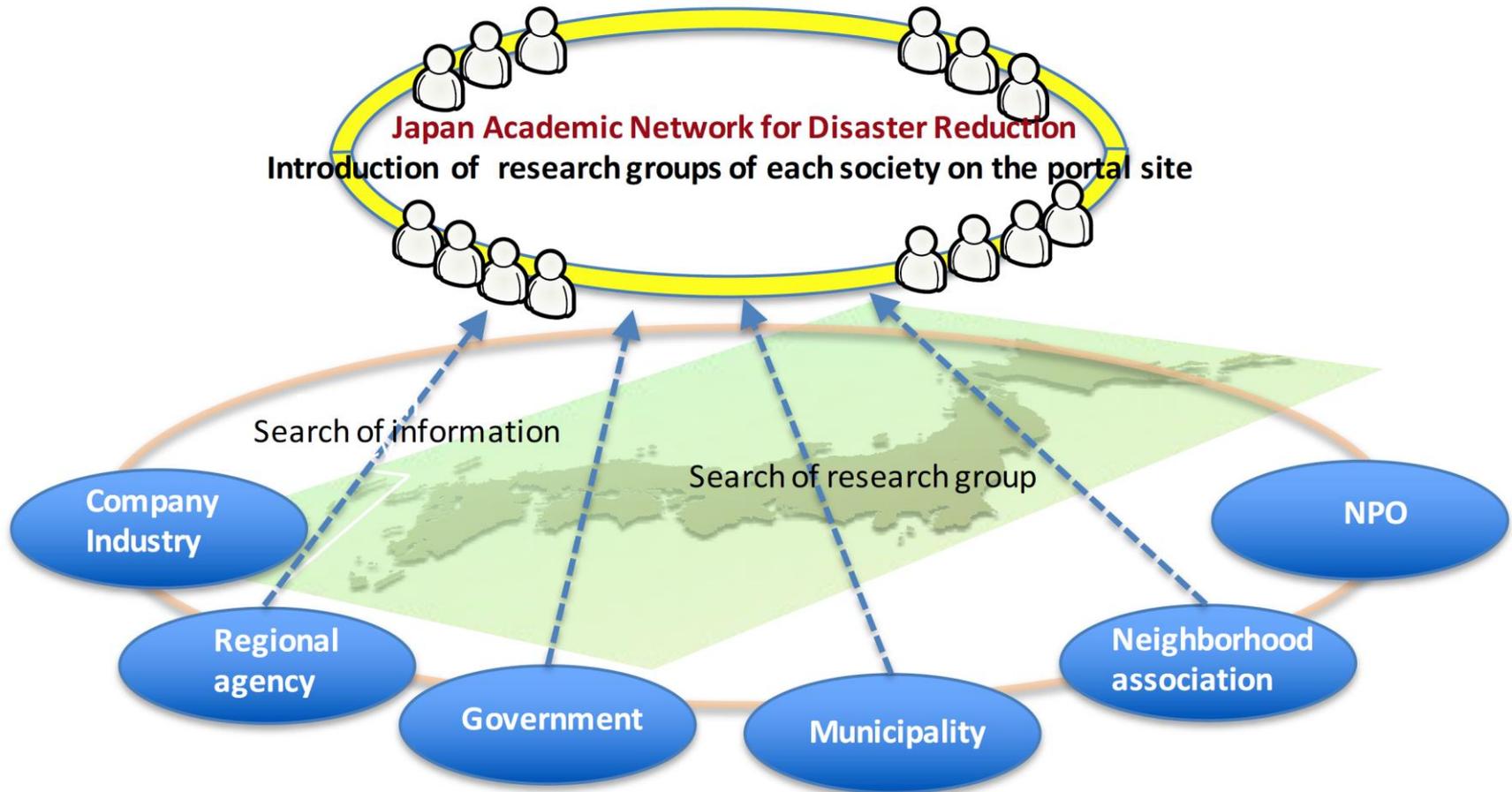
Establishment of Japan Academic Network for  
Disaster Reduction (JANET-DR) in January  
2016

# JANET-DR since January 2016

- Formation of an interdisciplinary network among 55 academic societies



# JANET-DR - Transdisciplinary activity promoted



# SCJ as international networking grid of Disaster Risk Reduction

- G-Science
  - Strengthening Disaster Resilience is Essential to Sustainable Development (2016 in Tokyo)
  - Cultural heritage: building resilience to natural disasters (2017 in Rome)
- ICSU/IRDR (Integrated Research on Disaster Risk)
- UNISDR (UN office for disaster risk reduction)
- IAP

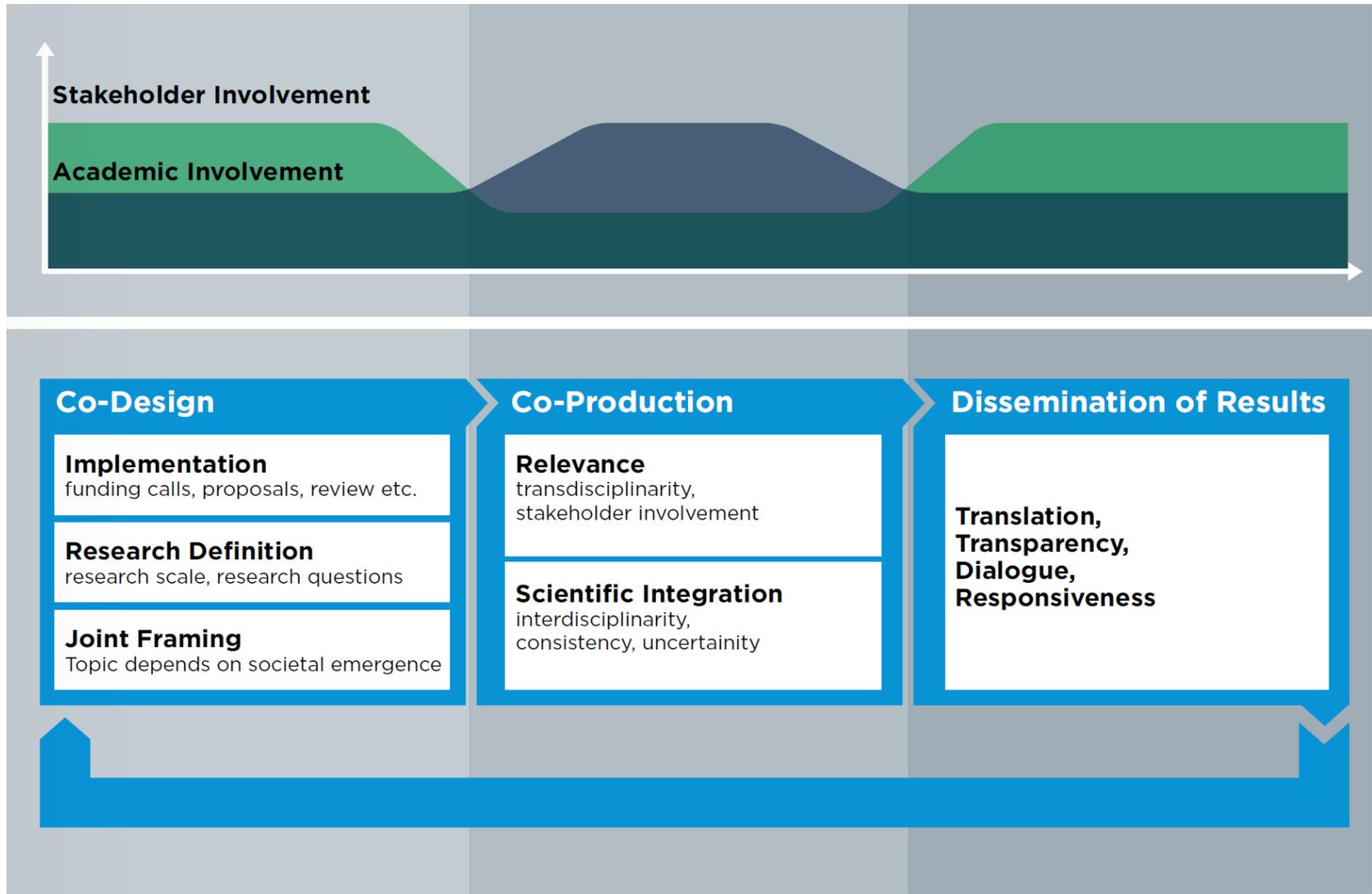


# Future Earth (FE) Program

- Transdisciplinary research is the essence of FE
- SCJ contributes as a funder of Global Hub Office (operated by 5 countries) of FE
- SCJ organizes Japan Consortium of FE
- SCJ is planning to set up FE Japanese committee



# Stakeholder involvement in FE research



# SCJ hosted Future Earth mtgs (Nov. 2015)



Science and Engagement  
Committees meeting  
and Governing Council  
meeting at SCJ

SCJ organized  
workshops for various  
stakeholders.



# Summary

- Each national academy can promote inter- and trans-disciplinary activities.
- International network of national academies can globally contribute to achievement of Sustainable Development Goals through inter- and trans-disciplinary activities.

