

WORLD BOSAI FORUM/IDRC 2017 IN SENDAI Nov 27, 2017



Transdisciplinary approach (TDA) for building societal resilience to disasters 分野・部門横断的アプローチによる災害 に強い社会作り

Kuniyoshi Takeuchi 竹内 邦良

Co-Chair, ACECC TC21 Transdisciplinary approach (TDA) for building societal resilience to disasters

TC21 Transdisciplinary Approach for Building Societal Resilience to Disasters

Transdisciplinary Approach

Natural & Social Sciences

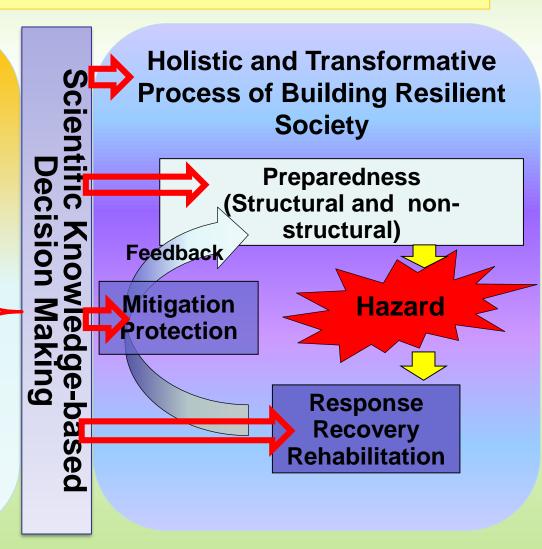
Academia

Humanities

Civil Society

Public sector

Private sector



Co-Design, Co-Produce, Co-Deliver, and Co-Implement

Sendai Framework for Disaster Risk Reduction 2015-2030

3rd World Conference on DRR, 18 Mar 2015 (A/CONF.224/CRP.1)

Priorities for Action

Understanding disaster risk.



Science

- Strengthening governance and institutions to manage disaster risk.
 Transdisciplinary DM
- Investing in economic, social, cultural, and environmental resilience.
- Enhancing preparedness for effective response, and building back better in recovery and reconstruction.

Transdisciplinary approach for scientific DM to build resilient society



Co-design Co-produce Co-deliver



Knowledge Action Network (KAN)

Multi-hazards WG



Association of Pacific Rim Universities



Scientificknowledgebased DM

科学的知見に基づく意思決定

科学的判断が中心的役割 DM process where SK is centrally & systematically used

Not dominated by political balance, pressure groups, leaders intuitions

SK includes evidence

It is a paradigm shift and needs a societal transformation!

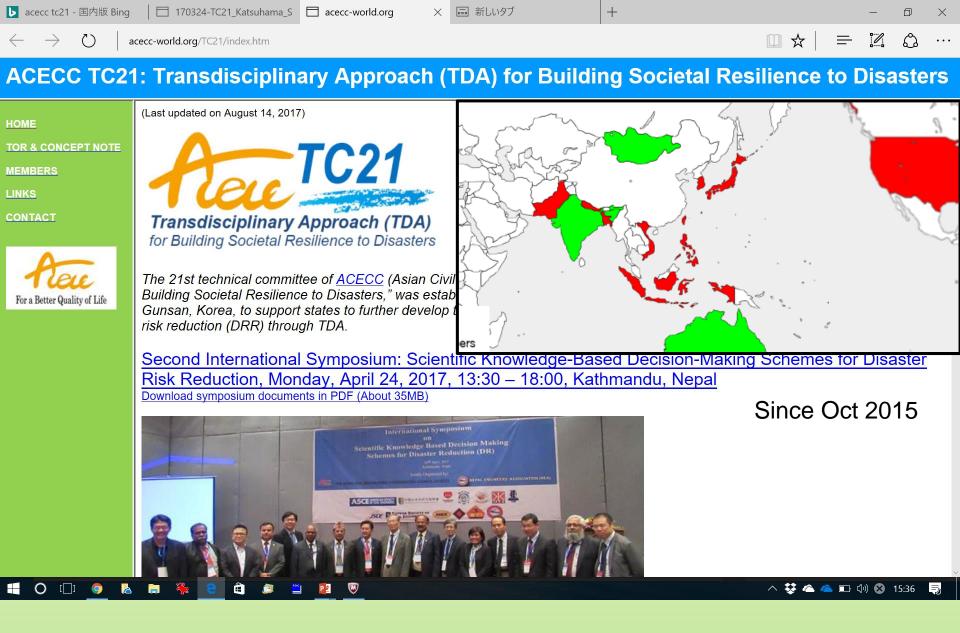
Transdisciplinary approach 分野·部門間協働

all disciplines and sectors
work together for a
common objective

意思決定過程の透明性 Transparency in decision making

Full societal support for implementation

Beyond limit of each discipl or sector for holistic societal transformation



http://www.acecc-world.org/TC21/index.htm

Objective of TC21

 TC21 aims to promote the transdisciplinary approach for scientific knowledge based decision making for building societal resilience to disasters at national and local levels.



Case studies of TDA practices in PH, NP, IN, VN, JP, ...



Compiling case studies for **CECAR8** in 2019

ACECC General Assembly in Tokyo

- Comparative analyses
- Policy proposal in each nation

Today's aim

- Share the experiences of TC21 and related activities.
- Discuss about how to promote TDA for SK-DM in the world.

PROGRAM

10:45-55

竹内 邦良

TC21 Introduction Kuniyoshi Takeuchi, TC21 Co-Chair; U Yamanashi

10:55-11:05

荒木田 勝

TC21 Activities Masaru Arakida, TC21 M; ADRC

11:05-15

倉岡 千郎

TDA Keywords in Philippines Senro Kuraoka, TC21 M; Nippon Koei

11:15-25

米田 雅子

TDA by JANET-DR Masako Yoneda, Director of JANET-DR; Keio U

11:25-35

TDA in Indonesia Harkunti Rahayu, TC21 M; Bandon Inst Tech

11:35-45

TDA in Taiwan Ting-Chi Tsao, TC21 M; Sinotech Eng Consults

11:45-55

泉 貴子

TC21 for Sendai Framework Takako Izumi, TC21 M, U Tohoku

11:55-12:15

Discussion with the floor and Conclusions

Discussion

How to promote Transdisciplinary
Approach (TDA) for Scientific
Knowledge based Decision
Making for building societal
resilience in the world?



Legal framework for DM by TDA

- national to local levels



Public

Private

Academic

Civil



Transdisciplinary approach to stop creating new risk

Compulsory
RISK Impact Assessment (RIA)
for any developmental approvals
similar to
Environmental Impact Assessment
(EIA)

Barriers for TDA for SK-DM

- From local level to national level
- Legal framework
- Member selection process ??
- Evaluation standard to engage in practice in academia especially for young scientists
- Knowledge flow (infrastructure) to insure right knowledge to right people.
- Legal responsibility of scientists