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

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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
- Humanities
- Academia
- Civil Society
- Public sector
- Private sector

Scientific Knowledge-based Decision Making

- Mitigation Protection
- Feedback

Holistic and Transformative Process of Building Resilient Society

- Preparedness (Structural and non-structural)
- Hazard
- Response Recovery Rehabilitation

Co-Design, Co- Produce, Co-Deliver, and Co-Implement
Priorities for Action

- Understanding disaster risk.
- Strengthening governance and institutions to manage disaster risk.
- 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

Transdisciplinary Approach (TDA)  
for Building Societal Resilience to Disasters
Scientific-knowledge-based DM

It is a paradigm shift and needs a societal transformation!

DM process where SK is centrally & systematically used

Not dominated by political balance, pressure groups, leaders intuitions

SK includes evidence
Trans-disciplinary approach

all disciplines and sectors work together for a common objective

Transparency in decision making

Full societal support for implementation

Beyond limit of each discipl or sector for holistic societal transformation
ACECC TC21: Transdisciplinary Approach (TDA) for Building Societal Resilience to Disasters

(Last updated on August 14, 2017)

The 21st technical committee of ACECC (Asian Civil Engineering Council) for Building Societal Resilience to Disasters, was established in Gunsan, Korea, to support states to further develop disaster risk reduction (DRR) through TDA.


Download symposium documents in PDF (About 35MB)

Since Oct 2015
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.
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<td>Kuniyoshi Takeuchi, TC21 Co-Chair; U Yamanashi</td>
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<td>10:55-11:05</td>
<td>TC21 Activities</td>
<td>Masaru Arakida, TC21 M; ADRC</td>
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<td>11:05-15</td>
<td>TDA Keywords in Philippines</td>
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<td>Discussion with the floor and Conclusions</td>
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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
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