



Carnegie Climate  
Geoengineering Governance  
Initiative

An initiative of  
**CARNEGIE**  
**COUNCIL** *for Ethics in  
International Affairs*

C2G2CBD-2

Workshop on  
**Transdisciplinary Research and Governance on  
Climate-related Geoengineering**

ICAO Conference Centre, Montreal, Canada

Sunday 17<sup>th</sup> December 2017

**NOTES FOR BREAKGROUP GROUP FACILITATORS**

**Breakout I:  
Transdisciplinary research gaps**

**QUESTION**

What transdisciplinary research and sharing of knowledge among appropriate institutions is needed to better understand the impacts of climate-related geoengineering on biodiversity and ecosystem functions and services, socio-economic, cultural and ethical issues?

**ANSWER (EACH GROUP TO LIST)**

1. **What** research and knowledge is needed?
2. Undertaken by and/or shared between **which** institutions?
3. **How** might this be done?



## **Breakout II: Regulatory options for governing geoengineering research**

### **QUESTION**

What transdisciplinary research and sharing of knowledge among appropriate institutions is needed to better understand regulatory options for climate-related geoengineering research?

### **ANSWER (EACH GROUP TO LIST)**

- 1. What regulatory options exist for climate-related geoengineering research?**
  - **At a local or national level? (in your country?)**
  - **At a regional or international level?**
- 2. What transdisciplinary research and sharing of knowledge among appropriate institutions is needed to better understand regulatory options?**
- 3. How might this be done?**



## USEFUL DEFINITIONS

### **DECISION ADOPTED BY THE CONFERENCE OF THE PARTIES TO THE CONVENTION ON BIOLOGICAL DIVERSITY**

Cancun, Mexico, 4-17 December 2016  
XIII/14. Climate-related geoengineering

*The Conference of the Parties*

5. *Also notes* that more transdisciplinary research and sharing of knowledge among appropriate institutions is needed in order to better understand the impacts of climate-related geoengineering on biodiversity and ecosystem functions and services, socio-economic, cultural and ethical issues and regulatory options;

### **TRANSDISCIPLINARY RESEARCH<sup>1</sup>**

- **Multidisciplinary** researchers in different disciplines work independently or sequentially, from their own disciplinary perspectives, to address a common goal or problem.
- **Interdisciplinary** researchers work jointly from their own disciplinary perspectives to integrate knowledge and address a common goal or problem.
- **Transdisciplinary** researchers work jointly to grasp the complexity of problems from diverse scientific and societal perspectives, integrate natural and social science disciplines, alter discipline-specific approaches, and focus on problem solving for what is perceived to be the common good.

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<sup>1</sup> Source: Yates et al. 2015: [http://tos.org/oceanography/assets/docs/28-2\\_yates.pdf](http://tos.org/oceanography/assets/docs/28-2_yates.pdf)