

**1<sup>st</sup> Global Transdisciplinarity  
Conference**

# **Science Society Collaboration: On the Quest for Sustainable and Cohesive Societies**

**[1st Pre-Conference]**

**28 September 2020**  
*Online*



# Why?

## Science Society Collaboration: On the Quest for Sustainable and Cohesive Societies

- Science and society have to deal with complex and societally relevant real world challenges of multifaceted nature.
- This requires the utilization of knowledge and epistemics (i.e., ways of knowing) of various human systems, which represent different interest groups and social layers.

**CONSEQUENTLY, A CONSOLIDATION AND REFLECTION ON VARIOUS SCIENCE SOCIETY COLLABORATION APPROACHES MIGHT PROVIDE FOR BETTER ORIENTATION AND FOR MORE FRUITFUL FUTURE CONTRIBUTIONS.**





# Meeting Rules

## Science Society Collaboration: On the Quest for Sustainable and Cohesive Societies

- Introduction – there will be no introduction round in today's get together of the 'science society collaboration' community (due to time constraints), but we ask every participant to introduce herself/himself when first speaking (name/organization/background).
- The [Chatham House Rule](#) applies.
- Please mute your microphones when not speaking.
- You can use the chat any time to ask questions and to comment.
- If you have questions, please raise your hand virtually.
- Do you agree that we record the session for the minutes?

# Agenda

1. Welcome
2. Introduction
3. Breakout Sessions
4. Presentations
5. Way ahead





# GTdC: Aim

## Science Society Collaboration: On the Quest for Sustainable and Cohesive Societies

*The Global Transdisciplinarity Conference will provide a...*

1. Platform
2. Virtual co-operative workgroups
3. Annual meeting to share the experiences of the past year
4. Academic network

*...for researchers working in various schools of...*

1. Science-society collaboration
2. Knowledge integration

*...with an earnest desire to...*

1. Critically evaluate the chances and vulnerabilities of existing approaches
2. Further develop the theory and methodology of these approaches.



# Danube University Krems

## Science Society Collaboration: On the Quest for Sustainable and Cohesive Societies

- Danube University Krems founding mission: contribute to a cohesive and sustainable society through continuing education
- At Danube University Krems, transdisciplinarity links research and teaching
- Td-Labs tackle societal issues on a inter- and transdisciplinary basis
- Active research into theory and methods of science society collaboration
- Students and practice partners strongly involved in transdisciplinary projects



# Danube University Krems

## Science Society Collaboration: On the Quest for Sustainable and Cohesive Societies

### Faculty of Health and Medicine

#### Departments

- » Health Sciences, Medicine and Research
- » Biomedical Research
- » Evidence-based Medicine and Clinical Epidemiology
- » Economy and Health
- » Clinical Neurosciences and Preventive Medicine
- » Psychotherapy and Biopsychosocial Health

### Faculty of Business and Globalization

#### Departments

- » Management and Economics
- » Legal Studies and International Relations
- » E-Governance and Administration
- » Migration and Globalization
- » Knowledge and Communication Management
- » European Policy and the Study of Democracy

### Faculty of Education, Arts and Architecture

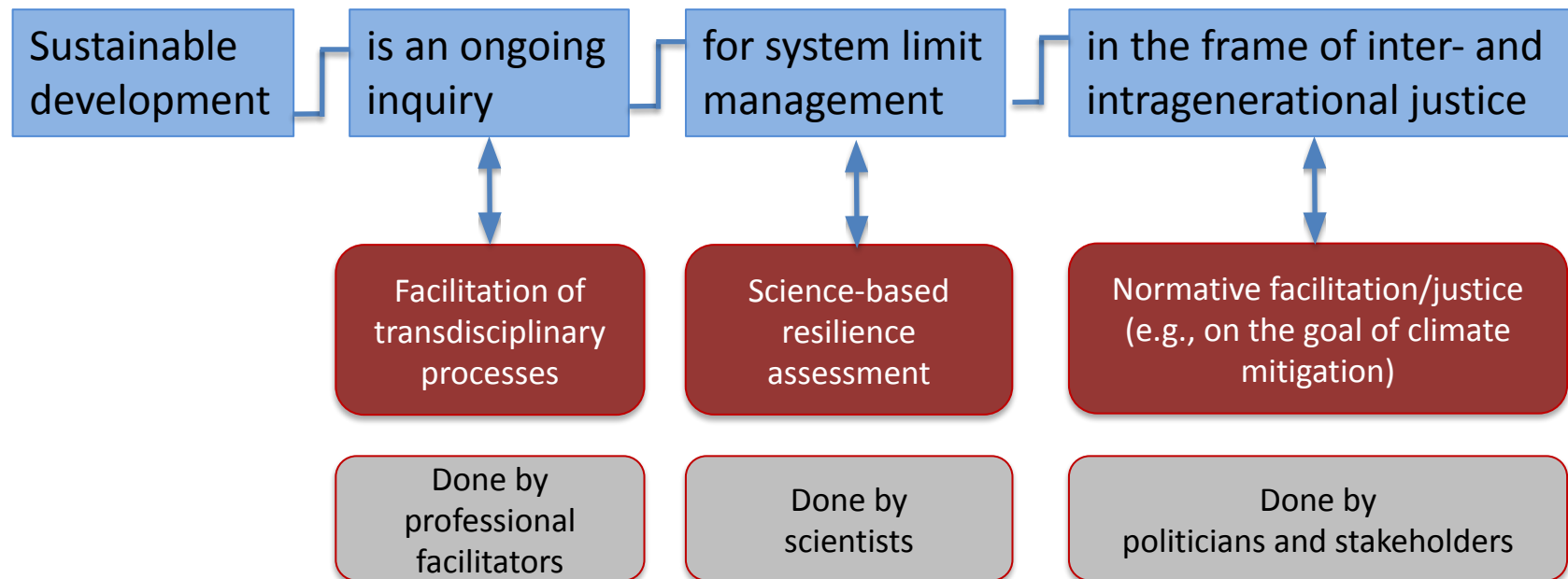
#### Departments

- » Continuing Education Research and Educational Technologies
- » Arts and Cultural Science
- » Image Science
- » Building and Environment
- » Integrated Sensor Systems





# Transdisciplinarity & Sustainability



- Laws, D., Scholz, R. W., Shiroyama, H., Susskind, L., Suzuki, T., & Weber, O. (2004). Expert views on sustainability and technology implementation. *International Journal of Sustainable Development and World Ecology*, 11(3), 247-261.
- Schneidewind, U., Feindt, P. H., Meister, H. P., Minsch, J., Schulz, T., & Tscheulin, J. (1997). Institutionelle Reformen für eine Politik der Nachhaltigkeit: Vom Was zum Wie in der Nachhaltigkeitsdebatte. *GAIA*, 6(3), 182-196.
- Scholz, R., 2017. The Normative Dimension in Transdisciplinarity, Transition Management, and Transformation Sciences: New Roles of Science and Universities in Sustainable Transitioning. *Sustainability* 9, 991. doi:10.3390/su9060991



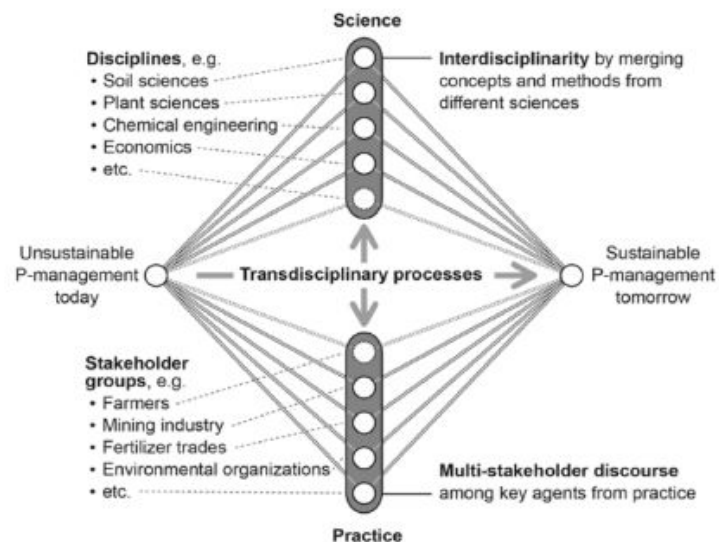


# Transdisciplinarity

...as major method of sustainability research/learning in society

Sustainable development in complex issues  
such as sustainable transitioning need → deliberative transdisciplinary processes

- Scholz, R. W.; Steiner, G. (2015). [The real type and ideal type of transdisciplinary processes: part I - theoretical foundations](#). *Sustainability Science*, 10: 527-544
- Scholz, R. W.; Steiner, G. (2015). [The real type and ideal type of transdisciplinary processes: part II- what constraints and obstacles do we meet in practice?](#) *Sustainability Science*, 10: 653-671



A. A targeted interdisciplinary process

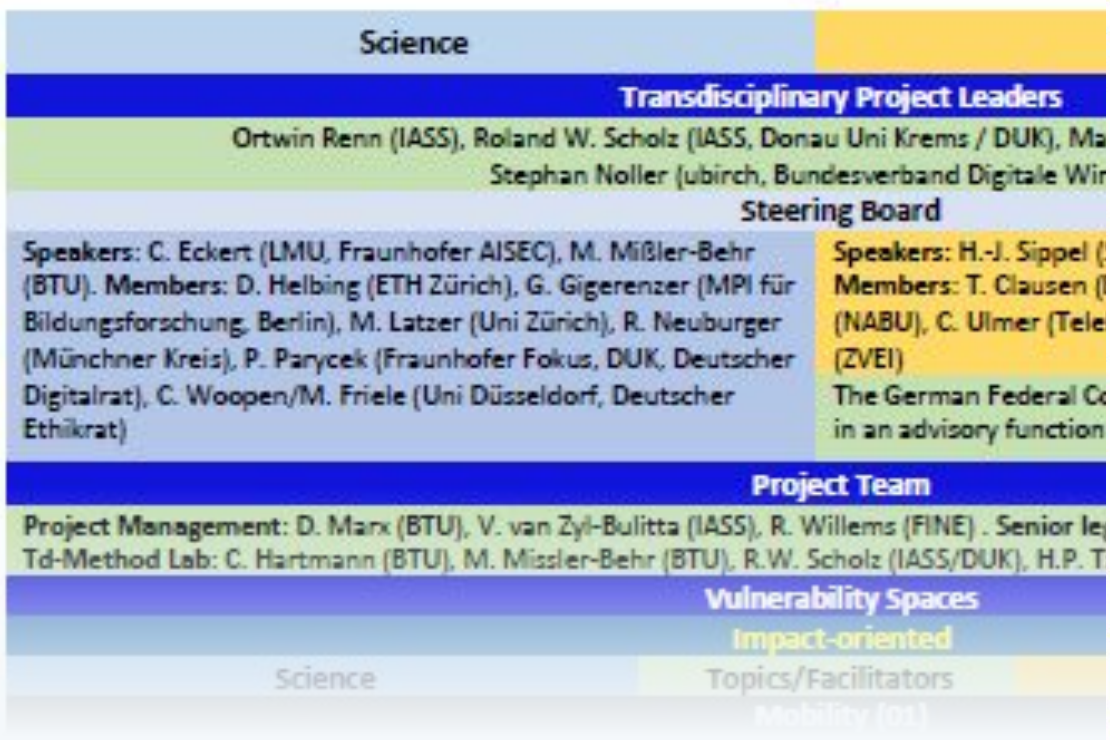
C. A facilitated td-process relating 1. and 2.

B. A facilitated Multi-stakeholder discourse



# Transdisciplinarity

## Exemplary organizational chart for a transdisciplinary process



**DiDaT Organizational Chart**  
July 2020

Science	Practice
<b>Transdisciplinary Project Leaders</b>	
Ortwin Renn (IASS), Roland W. Scholz (IASS, Donau Uni Krems / DUK), Markus Beckedahl (Netzpolitik), Stephan Noller (ubirch, Bundesverband Digitale Wirtschaft)	
<b>Steering Board</b>	
<b>Speakers:</b> C. Eckert (LMU, Fraunhofer AISEC), M. Mißler-Behr (BTU). <b>Members:</b> D. Helbing (ETH Zürich), G. Gigerenzer (MPI für Bildungsforschung, Berlin), M. Latzer (Uni Zürich), R. Neuburger (Münchner Kreis), P. Parycek (Fraunhofer Fokus, DUK, Deutscher Digitalrat), C. Woopen/M. Friele (Uni Düsseldorf, Deutscher Ethikrat)	<b>Speakers:</b> H.-J. Sippel (Stiftung Mitarbeit), T. Thiele (Deutsche Bahn). <b>Members:</b> T. Clausen (Edelmann Media), H. Gleiss (Netze), S. Ober (NABU), C. Ulmer (Telekom), M. Scheier (DGB), S. Lehmann-Brauns (ZVEI). The German Federal Commissioner for Data Protection (BfDI) assists in an advisory function
<b>Project Team</b>	
Project Management: D. Marx (BTU), V. van Zyl-Bulitta (IASS), R. Willems (FINE). Senior legal expert: G. Lentner (DUK). Td-Method Lab: C. Hartmann (BTU), M. Missler-Behr (BTU), R.W. Scholz (IASS/DUK), H.P. T. Sauerland (IQWiG), S. Völkner (KV W4), M. Weller (Spitzenverband der Krankenkassen)	
<b>Vulnerability Spaces</b>	
<b>Impact-oriented</b>	
<b>Science</b>	<b>Practice</b>
<b>Topics/Facilitators</b>	<b>Mobility (01)</b>
W. Canzer (WZB), J. Maesse (Uni Giessen), S. Hansch (TU Darmstadt), K. Jahn (Uni Siegen), M. Levin-Klebel (TU Dortmund), U. Palmsthofer (Open Knowledge Foundation), U. Reisch (HS Neu-Ulm), L. Schebek (TU Darmstadt), W. Serber (DGH Hochschule)	D. Baldinger/T. Thiele (Deutsche Bahn), E. Fischer (VDV), L. Haas (deteccon), F. Krummheuer (Infra-Dialog), K. Teille (VW AutoUni), J. Tiffe (Form-f), T. Waschke (Denkbank), C. Wurst (Ford Europe), Y. Zebuhr (acatech)
<b>Health (02)</b>	
G. Antes (Uni Freiburg), G. Glazek (Uni Bremen), F. Tretter (LMU), M. Friele (UK Köln), N.N., N.N.	H. Köckler (HGG Gesundheit Bochum), L.A. Rosenberger (Uni Wien), M. Danner (BAG), A. Eichhorn (Humatix), S. Sauerland (IQWiG), S. Völkner (KV W4), M. Weller (Spitzenverband der Krankenkassen)
<b>SME (03)</b>	
G. Müller-Christ (Uni Bremen), A. Reichel (Zukunftsinstitut Karlsruhe), G. Steiner (DUK), F. Goll (FZ Karlsruhe)	R. Cichos (DUK, CTN), W. Hofmann (TMG), G. Kriener (EMUGE), L. Probst (HK Cottbus), K. Weßner (puls-marktforschung), T. Schauf (VDI, Telekom), H. Huhle (ZVEI), N.N.
<b>Agriculture (04)</b>	
G. Berger (ZALF), R. Brunsch (Leibniz ATB), J. Dörr (Fraunhofer ISE), C. Reichel (Leibniz IBZ), S. Rogga (ZALF), L. Frensch (tbc) (Uni Braunschweig)	J. Zacheis (Leibniz ZALF), H. Buitkamp (VDMA Landtechnik), H.-W. Griepentrog (DLG, Digitalisierungsausschuss, Uni Hohenheim), M. Nachtmann (FOP), C. Töle-Nobing (NABU), P. Pascher (Bauernverband), T. Strobel-Unbehauen (FBL)
<b>Value- and Impact-oriented</b>	
<b>Social Media (05)</b>	
P. Freytag (tbc), N. Kersting (Uni Münster), C. Montag (Uni Ulm), L.-M. Neudert (Uni Oxford), S. Osterdorf (tbc, Uni Duisburg-Essen), C. Siederemann (Uni Ulm)	R. Hess (Werkstatt für Innovation, Berlin), F. Ebner (Medocia), H. Gleiss (Netze), C. Dinar (Cyberstark), C. Reher (Plattform 161), B. Thull (LPK Stuttgart), A. Schenk (semazio)
<b>Institution- and Regulation-oriented</b>	
<b>Reliable and Trustworthy Digital Data (06)</b>	
A. Kaminski (Uni Stuttgart), M. Reising (IASS), C. Reuter (Darmstadt), J. Mittelbach (BTU), S. Schreiber (BTU)	J. Lambing (Forschung Gutes Leben), Kabisch, S. Hallensleben (VDE), M. Breuer (Ubirch), M. Fuchs (Blogger und Politikberater), S. Thümel (München), J. Schick (Social Media Partisan), N.N.
<b>Cybercrime (07)</b>	
P. Gladyshev (UC Dublin), D. Labudde (HS Mittweida), H. Hug (BTU/TMS), A. Panchenko (BTU), N.N., N.N.	E. Albrecht (BTU), D. Marx (BTU), B. Brocher (Sonderstaatsanwaltschaft OSt), V. Hagen (Land Vorarlberg), D. Nagel (Vodafone), B. Otupal (Dell), H. Wu (Huawei)
<b>Cross cutting expert groups</b>	
<b>Data economy</b>	<b>DNA Data</b>
M. Dopf (Admeira), C. Reher (plattform 161, BYDW), A. Schenk (Semazio), R.W. Scholz (IASS, DUK), S.W. Scholz (Interrogare), P. Wiegmann (Interrogare, BDM)	A. Eichhorn (Humatix), G. Glazek (Uni Bremen), R.W. Scholz (IASS, DUK)
<b>External Support Groups</b>	
<b>Science Experts</b>	<b>DiDaT MoB Monitoring Group</b>
G. Beier (IASS), S. Diefenbach (LMU), M. Hilbert (University of California), H. A. Mieg (HU Berlin), T. Santarius (TU Berlin), U. Schneidewind (Wuppertal Institut), D. Wruck (Uni Mannheim), K. Zweig (Uni Kaiserslautern)	M. Beermann, M. Bladec, T. Schipani (CDU), M. Höferlin (FDP), A. Christmann, T. Rößner (Bündnis90/Die Grünen), P. Site (Die Linke), J. Zimmermann (SPD)
<b>Experts in Law and Digitalization</b>	<b>Global Digital Market Leaders</b>
C. App (DUK), G. Lentner (DUK), M. Mayrhofer (Uni Linz)	M. Senge (Google, tbc), P. Müller (Amazon tbc), T. Böhm (Microsoft, tbc), N.N., N.N.

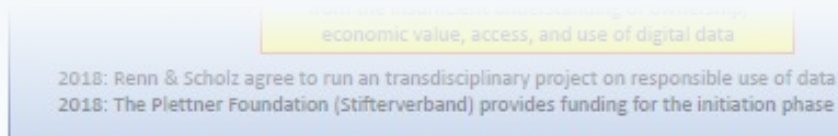
\*Die Teilnahme am Projekt von Herrn Nachtmann ruht ab dem 17.07.2020





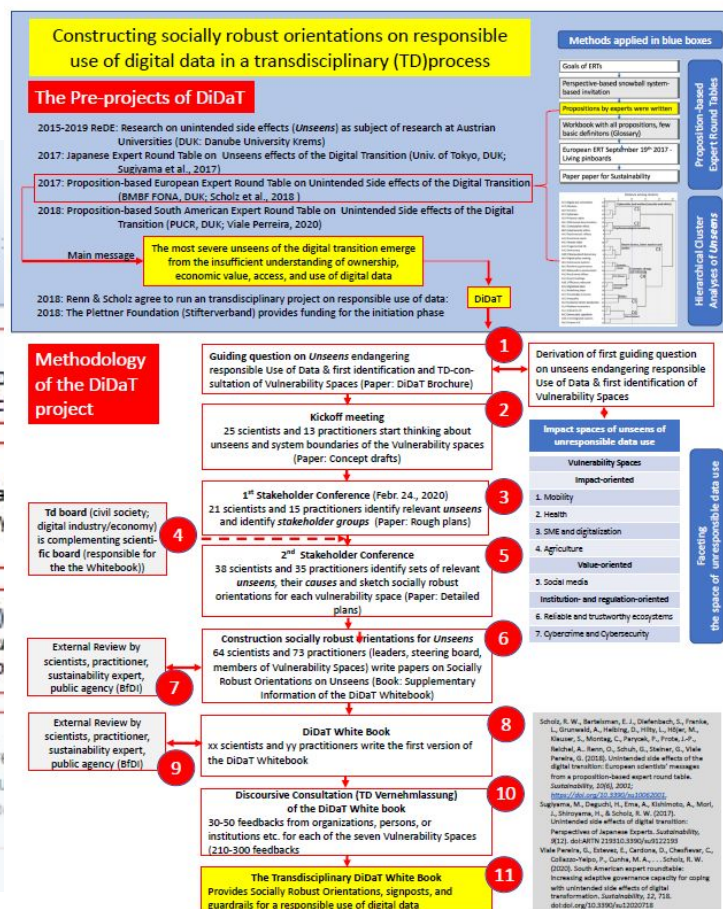
# Transdisciplinarity

## Exemplary process design



### Methodology of the DiDaT project

Td board (civil society; digital industry/economy) is complementing scientific board (responsible for the Whitebook))

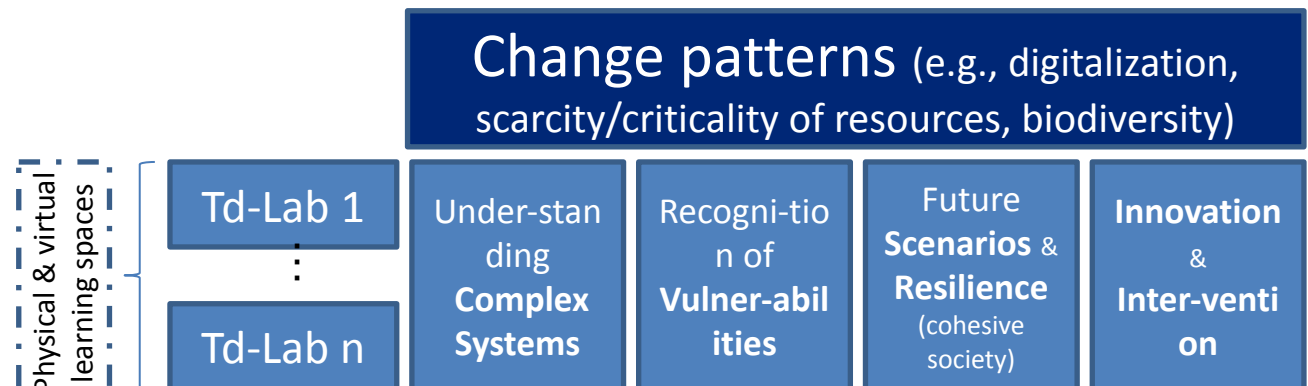




# Transdisciplinarity

## An organizational example

Advancement of theories and methods on **science-society collaboration & societal transition**

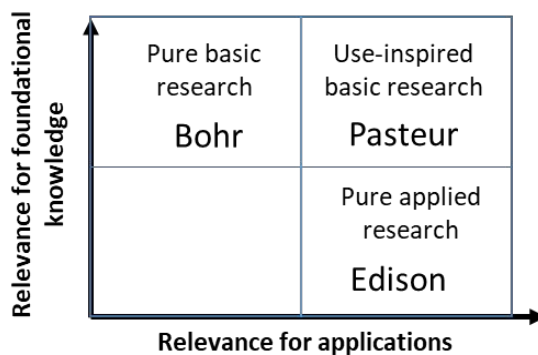




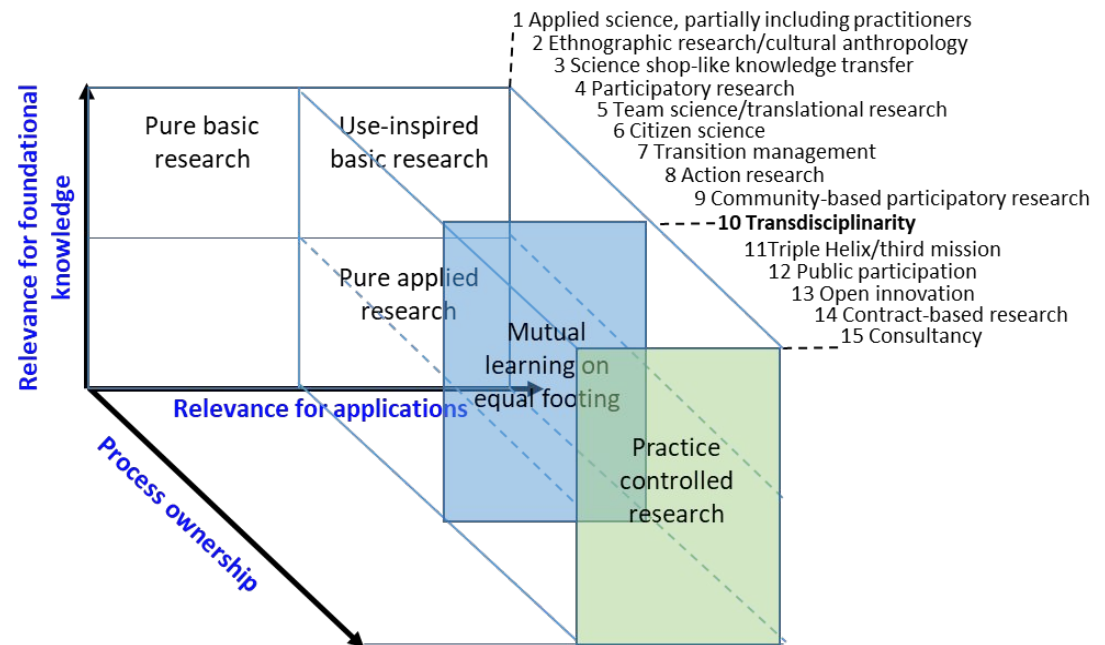


# Science Society Collaboration: On the Quest for Sustainable and Cohesive Societies<sup>A</sup>

**B**



- Scholz, R. W.; Steiner, G. (2020). A critical reflection on the ontology of science practice collaborations over the past half century: The special role of transdisciplinarity in sustainable transitioning. *Forthcoming*





Questions?  
Comments?







# Breakout Sessions

## Science Society Collaboration: On the Quest for Sustainable and Cohesive Societies

### Question(s)

- What is the role of science society collaboration in societal transitions and for dealing with grand challenges?

This might further include...

- Your expectations to science society collaboration approaches?
- What is the role of the university in these processes?
- What is good science and good science society collaboration?

### You will be automatically assigned to a breakout session (20 min).

- Please introduce yourself and your experience in science-society collaboration and knowledge integration (if any).
- Please use our miro-board to collect ideas (link also in the chat).
- Elect a speaker to present your results. Three minutes per group, please.



# Breakout Sessions

## Science Society Collaboration: On the Quest for Sustainable and Cohesive Societies

### Presentation of Breakout Session Group Results

**Group 1**

**Group 2**

**Group 3**

**Group 4**

**Group 5**

**Group 6**

**Group 7**

**Group 8**





# GTdC: Your role?

**Science Society Collaboration: On the Quest for Sustainable and Cohesive Societies**

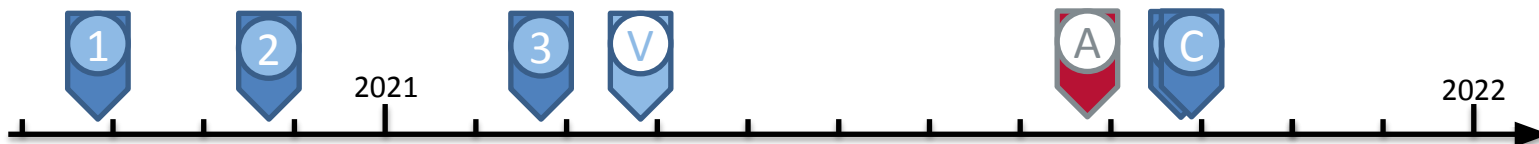
- **Join the Virtual Organisational Committee**
- **Join a Virtual Publication Workgroup [More in the second meeting.]**
- **Join the Transdisciplinarity Network [More in the second meeting.]**
- **Invite Colleagues to join**
- **Help us find representatives of yet underrepresented approaches**
- **Become Mentor for an OTAF Masterclass [More in the second meeting.]**
- **Spread the word!**



# GTdC: Way ahead

## Science Society Collaboration: On the Quest for Sustainable and Cohesive Societies

- **Second Pre-Conference:** Extended Core Group, 23 Nov 2020, 17.00 CET
- **Third Pre-Conference:** Science & Practice, 23 Feb 2021, 17.00 CET
- **DUK Virtual Experience:** Online, March 2021
- **Further Pre-Conferences ?**
- **Forum Alpbach:** August 2021 [potentially]
- **Open Aspiring Transdisciplinary Forum:** Krems, 25.-26. Sept 2021
- **1st Global Transdisciplinarity Conference:** Krems, 27.-29. Sept 2021





**Danube University Krems.**  
The University for Continuing Education.



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