

1st Global Transdisciplinarity Conference

Science Society Collaboration

On the Quest for Sustainable and Cohesive Societies

[4th Pre-Conference]

17 June 2021

05.00 p.m. CET/11.00 a.m. US/ET

Online: Zoom Link

FEEL FREE TO SHARE TO CONTACT US:

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Agenda

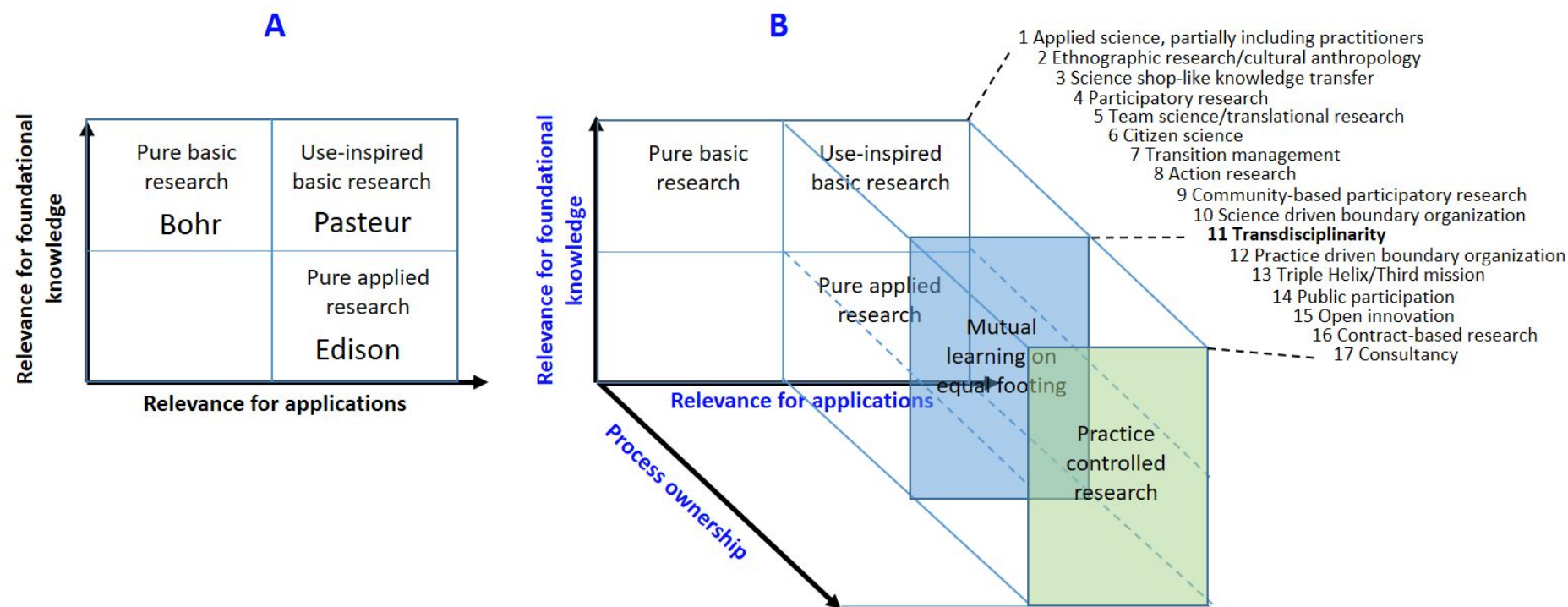
1. Welcome
2. New Conference Schedule
3. HEMLS
4. Website Launch
5. Final Questions
6. Way ahead



Disciplines & Fields



Current state of School Schematics



Transdisciplinary Processes:

From disciplines to transdisciplinarity for socially robust orientations

FOCUS AREA:
Transdisciplinarity as a form of science-society collaboration for enhanced adaptive capacities and sustainable transformations in the 21st century

- 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

The Idea

«**Disciplines** are characterized (defined) by (i) objects and (ii) (core) methods.

–Mathematics: (i) numbers, symbols (ii) proof

–Pharmacy: (i) chemical impacts on diseases, (ii) natural science experiments/approval stud.–

«**Interdisciplinarity** is established by the **fusion of concepts or methods from different disciplines**

–Metaphorically: The saxophone emerged from clarinet and trumpet

–Bio-chemistry: Chemical processes in living organisms

«**Transdisciplinarity is essentially different from interdisciplinarity!**

–There are (historically) two forms of transdisciplinarity

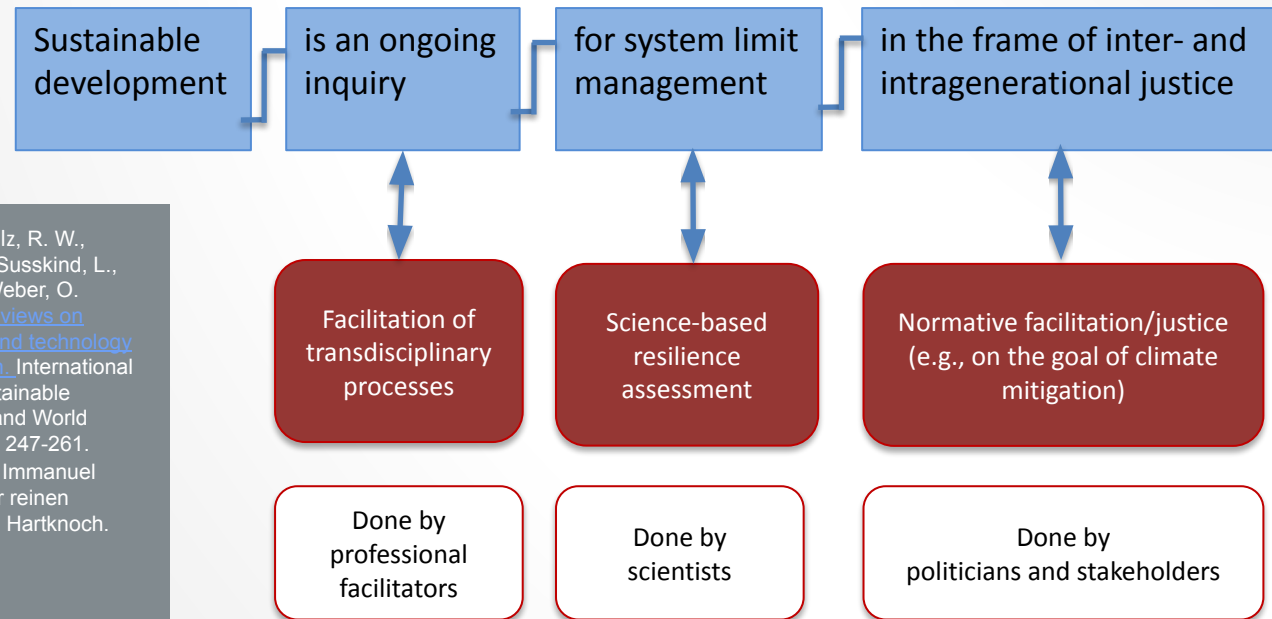
•**Mode 1** transdisciplinarity (Piaget [1972]: an overarching rationale that may integrate knowledge from different disciplines ; Nicolescu [1970]: spirituality), **a meta-structure that allows for an integration of disciplines and a basis for a unity of knowledge**

•**Mode 2** transdisciplinarity (Jantsch [1971], Klein et al. [2001]); Zurich 2000 definition for **integrating or relating different epistemics from science and practice**

Sustainability as a dynamic concept

FOCUS AREA:
Transdisciplinarity as a form of science-society collaboration for enhanced adaptive capacities and sustainable transformations in the 21st century

- 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.
- Kant, I. (1881). Immanuel Kants Kritik der reinen Vernunft. Riga: Hartknoch.



- Scholz, R. W./Steiner, G. (2015): [The real type and ideal type of transdisciplinary processes: Part I – theoretical foundations](#). Sustainability Science, 10(4), pp. 527-544. DOI 10.1007/s11625-015-0326-4.
- Schneidewind, U., Feindt, P. H., Meister, H. P., Minsch, J., Schulz, T., & Tschudin, 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

The Idea

Transdisciplinary Processes in a nutshell

FOCUS AREA:
Transdisciplinarity
as a form of
science-society
collaboration for
enhanced adaptive
capacities and
sustainable
transformations in
the 21st century

The Idea

Transdisciplinarity

- ★ Has become a **third mode** (methodology) of doing and utilizing science (in sustainable transitioning)
- ★ Means **going beyond sciences** (not only beyond disciplines) and **switching from doing science for to science with society**
- ★ Start from an **ill-defined, complex, socially relevant problems**
- ★ Include(s) three types of processes
 - i. a **targeted interdisciplinary process**
 - ii. a moderated processes of **stakeholder discourse or mitigation**
 - iii. a **facilitated process of relating science and practice**
- ★ Follow(s) four functions
 1. **Capacity building** (for scientists and practitioners)
 2. **Consensus building**, primarily on what is the “problem”
 3. **(Analytic) Mediation**, i.e., anticipatory management of losses and benefits of (sustainable) transitions/transformations
 4. **Political legitimation**
- ★ Is based on **mutual learning** by relating and/or integrating different epistemics
 - Dimensions of integration: (1) disciplines, (2) subsystems, (3) modes of thought, (4) interests/perpectives, and (5) cultures
- ★ Asks for **theory-practice discourses with equal rights** when **accepting the otherness** (of roles and knowledge) of the **other** which can be best realized by **co-leadership**
- ★ Provide **socially robust orientations** (not solutions) which are of interest for practice and sciences
- ★ Is an important way for **strategic sustainable planning**

New Conference Schedule

1st Global Transdisciplinarity Conference

Conference

Pre-Events

Schedule

Tracks

Dissemination

SCHEDULE

The 1st Global Transdisciplinarity Conference will be held as a hybrid event both at Danube University Krems and online. **Live participants** will be able to experience the scenic setting of the Campus Krems and Göttweig monastery at the Danube river. **Online participants** will be able to attend an inclusive Hybrid Enabling Mutual Learning Space that offers as much direct involvement as possible by that means. Everyone interested in the proceedings can follow the conference via **livestream**.

DAY 1: MON, 27 SEPTEMBER 2021 ▼

DAY 2: TUE, 28 SEPTEMBER 2021 ▼

DAY 3: WED, 29 SEPTEMBER 2021 ▼



Hybrid Enabling Mutual Learning Space



Main Sessions

Minimum Input for Veterans: *Abstract, Proposition Paper* [Paper draft nice to have]

Minimum Input for Experienced: *Proposition Paper*

Minimum Input for Interested: [*Propositional Paper* nice to have]

Four **core themes** in sequential order: *Theory, Methodology, Challenges and Education*

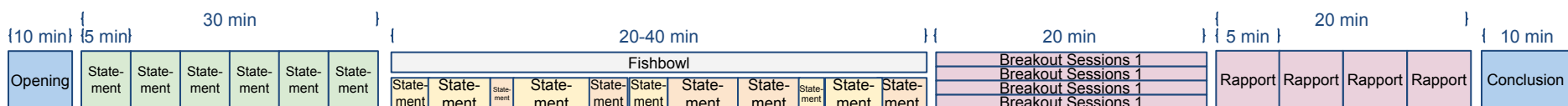
- ❑ Each in 90 min slots
 - ❑ Short **statements** by **SSC Veterans**
 - ❑ **Fishbowl** with inputs from **Experienced** and **Interested** participants.
 - ❑ **Breakout sessions** focusing on concrete questions
 - ❑ Short **rapports** from each breakout session
 - ❑ Concluding **wrap-up** by moderator for concluding plenary of the conference

Theory of Science
Society Collaboration &
Knowledge Integration

Methodology of Science
Society Collaboration &
Knowledge Integration

Complex Societally
Relevant Challenges

Transdisciplinary
Education for Future
Challenges



Theory of Science Society Collaboration & Knowledge Integration

- When and why does transdisciplinarity make sense? (What is the scientific evidence?)

- Why (local) practitioners' knowledge is partly superior to scientific knowledge? (in which cases etc)
-->implications in sustainable mineral resource management?

- ...for what type of 'noise' do we need practitioners' knowledge?
(ex: P scarcity might be an important case for that)

Methodology of Science Society Collaboration & Knowledge Integration

Complex Societally Relevant Challenges

Transdisciplinary Education for Future Challenges



Introduction

If you do not use the online google document, please fill out this **word document**. You can write your text into the **yellow fields** and e-mail the file to sonja.aschauer@donau-uni.ac.at. We will upload the text in the google document for you.

First Name – Middle Name – Last Name

Additional co-participant(s) of the institution

Institution(s)

Website(s)

Please include your website(s) or social platform(s) (e.g. Institutional website, LinkedIn, etc.)

Contact (e.g. email)

Your role

Do you consider yourself an expert from academia and/or from practice? Please indicate this with an "x" in the first column.

<input type="checkbox"/>	Expert from academia
<input type="checkbox"/>	Expert from practice

Key factors of digitalization

Please include up to 10 key factors (max. 3 words each) that – in your opinion – will determine how digitalization affects society (in general, i.e. beyond your core aspect and propositions within your expertise)

Title of a chosen core aspect

Please name a core aspect that you consider relevant within your area of expertise

What impact does trust have within your core aspect?

Please include up to 10 key factors (max. 3 words each) that are of relevance regarding the relationship between trust and digital transformation in the context of this core aspect

Social dimension of your core aspect

Please indicate the social dimension(s) your core aspect addresses by including an "x" in the first column

<input type="checkbox"/>	Individual
<input type="checkbox"/>	Organization
<input type="checkbox"/>	Society

Propositions

Please identify and describe 1-3 propositions with respect to unintended side effects related to your core aspect.

Proposition 1

Proposition (approx. 20 words)

Summary (approx. 50 words)

Comment (max. 200 words)

Drivers (max. 10)

Which positive effects could occur on the basis of your proposition?

-
-

Barriers (max. 10)

Which negative effects could occur on the basis of your proposition?

-
-

Vulnerabilities

Which major vulnerabilities have you identified?

-
-

Potential solutions

Which solutions could be considered?

-
-

References

Please include the main references of your proposition

-
-

Feedback (from other participants)

Please include your feedback to the author's core aspect



USA Expert Round Table
Vulnerabilities of Digitalization

Template
Core Aspects & Propositions



Tracks

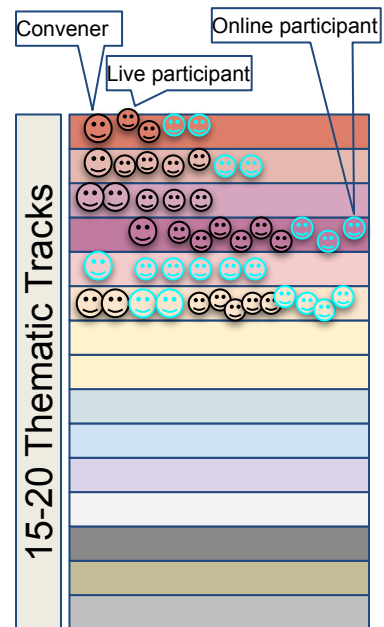
Help us Finalize the Tracks for the Conference

GTdC Track

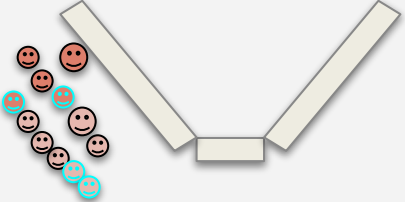
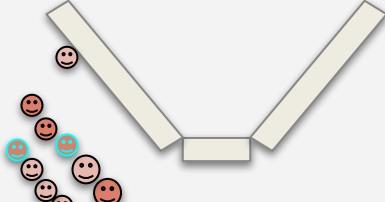
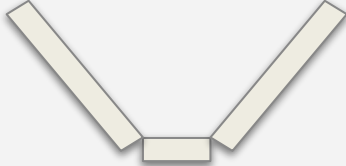
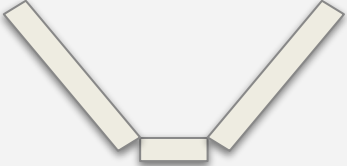

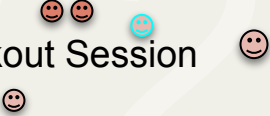



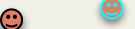

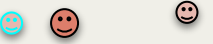
Track Title	The Role of Arts in Transformation Processes
Track Type	

Chair	Dr. Jeanette Mueller
Co-Chairs	Maya Galimidi, MA, Dr. Paul Divjak
Conveners	

Abstracts



Morning Meeting Spaces	Opening	Case Presentations	Track Meet&Greet	Dinner Speech	Dinner

Main Session #1	Main Session #2	Main Session #3	Main Session #4
			
Breakout Session 	Breakout Session 	Breakout Session	Breakout Session
Breakout Session 	Breakout Session 	Breakout Session	Breakout Session
Breakout Session 	Breakout Session 	Breakout Session	Breakout Session
Breakout Session 	Breakout Session 	Breakout Session	Breakout Session

Case Based Mutual Learning Forum	Plenary	Lunch	Social Program	
Poster Presentation	<h1>3</h1>			
Workshop				
Panel Panel Panel Panel				
Open Discussion Space				
Virtual Meeting				
Workshop				
Workshop				
Workshop				
Virtual Exhibition Hybrid Discussion				
Peripatetic Walk in the Woods				
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Website Launch: TUE 22.06.2021

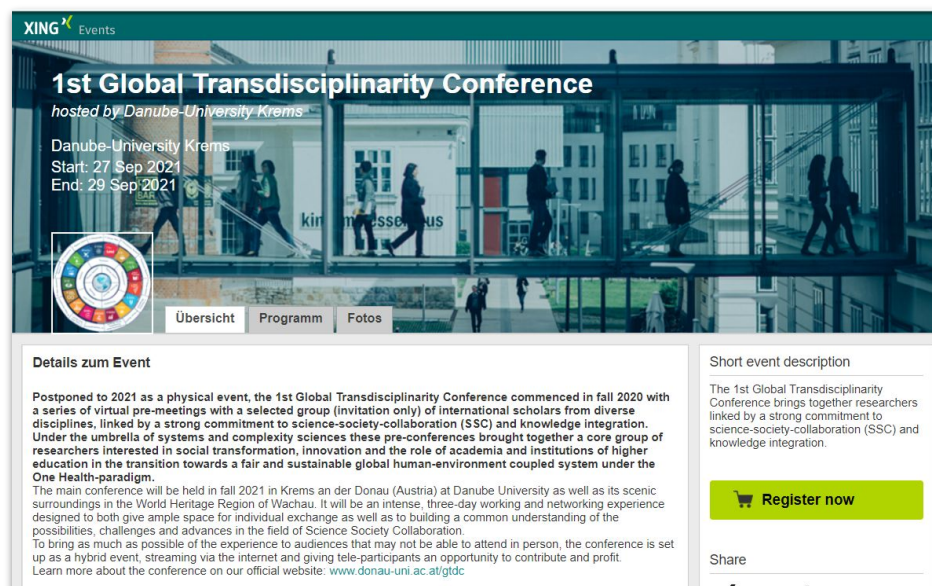


1st Global Transdisciplinarity Conference
 Science Society Collaboration: On the Quest for Sustainable and Cohesive Societies

Conference Pre-Events Schedule Tracks Dissemination

EVENT
27/09/2021 - 29/09/2021
 add to calendar

www.donau-uni.ac.at/gtdc



XING Events

1st Global Transdisciplinarity Conference
 hosted by Danube-University Krems

Danube-University Krems
 Start: 27 Sep 2021
 End: 29 Sep 2021

Übersicht Programm Fotos

Details zum Event

Postponed to 2021 as a physical event, the 1st Global Transdisciplinarity Conference commenced in fall 2020 with a series of virtual pre-meetings with a selected group (invitation only) of international scholars from diverse disciplines, linked by a strong commitment to science-society-collaboration (SSC) and knowledge integration. Under the umbrella of systems and complexity sciences these pre-conferences brought together a core group of researchers interested in social transformation, innovation and the role of academia and institutions of higher education in the transition towards a fair and sustainable global human-environment coupled system under the One Health-paradigm.

The main conference will be held in fall 2021 in Krems an der Donau (Austria) at Danube University as well as its scenic surroundings in the World Heritage Region of Wachau. It will be an intense, three-day working and networking experience designed to both give ample space for individual exchange as well as to building a common understanding of the possibilities, challenges and advances in the field of Science Society Collaboration.

To bring as much as possible of the experience to audiences that may not be able to attend in person, the conference is set up as a hybrid event, streaming via the internet and giving tele-participants an opportunity to contribute and profit. Learn more about the conference on our official website: www.donau-uni.ac.at/gtdc

Short event description

The 1st Global Transdisciplinarity Conference brings together researchers linked by a strong commitment to science-society-collaboration (SSC) and knowledge integration.

Register now

Share

<https://www.xing-events.com/MLMWMUW.html>

Dinner Speeches on Meta-Topics

? Carlos Álvarez Pereira “No Limits to Learning”



Carlos Alvarez Pereira is a senior professional combining more than 30 years of experience in research and innovation, entrepreneurship, and business management, with a passion for complexity thinking and transdisciplinarity. He is keen on exploring the cultural transformation required to cross the threshold towards equitable human wellbeing within a healthy biosphere.

? Jeffrey Sachs



Jeffrey David Sachs is an American economist, academic, public policy analyst and former director of The Earth Institute at Columbia University, where he holds the title of University Professor. He is known as one of the world's leading experts on sustainable development, economic development, and the fight against poverty.

? Sheila Jasanoff



Sheila Jasanoff is Pforzheimer Professor of Science and Technology Studies at the Harvard Kennedy School. A pioneer in her field, she has authored more than 120 articles and chapters and is author or editor of more than 15 books, including *The Fifth Branch*, *Science at the Bar*, *Designs on Nature*, and *The Ethics of Invention*. Her work explores the role of science and technology in the law, politics, and policy of modern democracies.

Potential Dinner Speeches

? Jeffrey Sachs



Jeffrey David Sachs is an American economist, academic, public policy analyst and former director of The Earth Institute at Columbia University, where he holds the title of University Professor. He is known as one of the world's leading experts on sustainable development, economic development, and the fight against poverty.

? Carlos Álvarez Pereira



Carlos Alvarez Pereira is a senior professional combining more than 30 years of experience in research and innovation, entrepreneurship, and business management, with a passion for complexity thinking and transdisciplinarity. He is keen on exploring the cultural transformation required to cross the threshold towards equitable human wellbeing within a healthy biosphere.

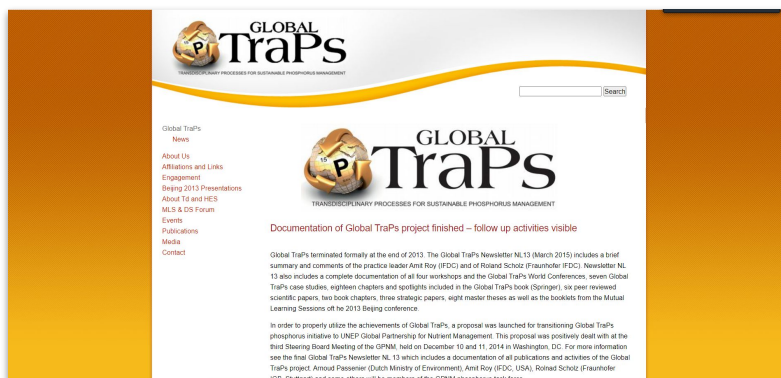
? Bill Clark



William Clark is the Harvey Brooks Professor of International Science, Public Policy and Human Development at Harvard University's John F. Kennedy School of Government. Trained as an ecologist, his research focuses on sustainability science: understanding the interactions of human and environmental systems with a view toward advancing the goals of sustainable development.

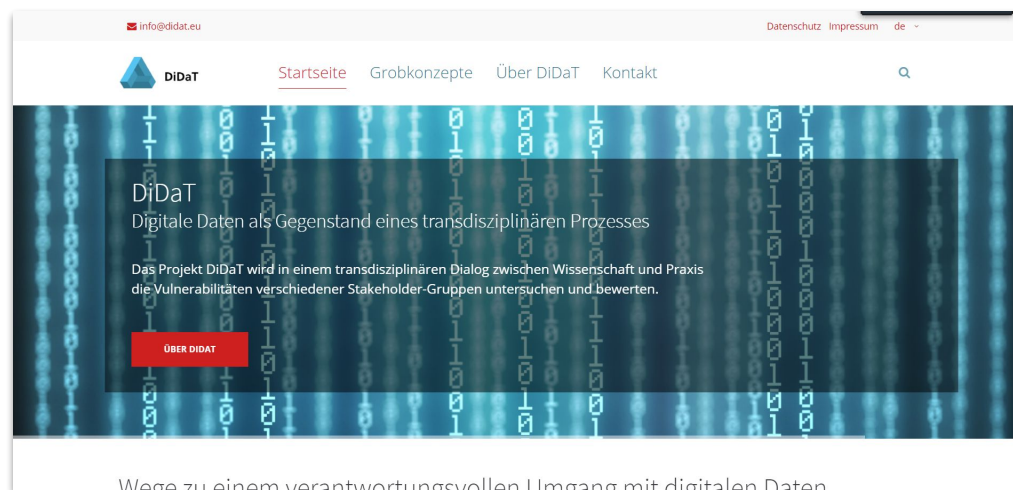
Best Practice Cases...

Meeresforschungszentrum



Your Showcase

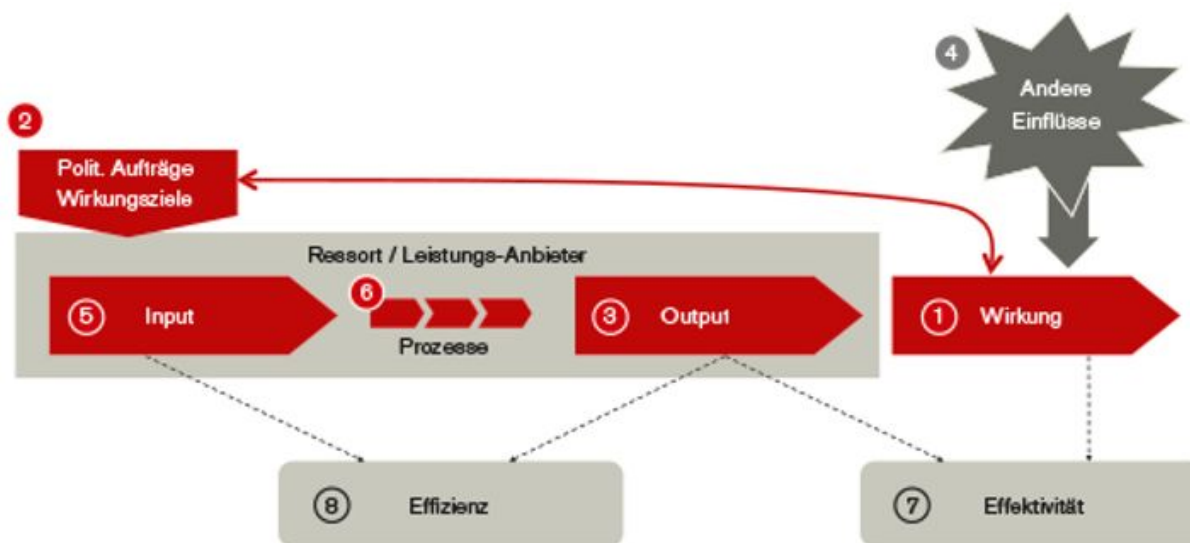
Better Regulation



Wege zu einem verantwortungsvollen Umgang mit digitalen Daten

BETTER REGULATION IN AUSTRIA II

Using agent based modelling and behavioral insights for public administration, strengthening Performance Management and stakeholder engagement



GTdC: Way ahead

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

- **First Pre-Conference:** Core Group, 23 Sept 2020, 17.00 CET
- **Second Pre-Conference:** Extended Core Group, 23 Nov 2020, 17.00 CET
- **Third Pre-Conference:** Science & Practice, 23 Feb 2021, 17.00 CET
- **Fourth Pre-Conference:** Preview & Preparation, 17 June 2021, 17.00 CET
- **Update on Tracks:** 28 June 2021, 17.00 CET
- **Open Aspiring Transdisciplinary Forum:** Krems, 25.-26. Sept 2021
- **1st Global Transdisciplinarity Conference:** Krems, 27.-29. Sept 2021

