



DiDaT: Goals, Procedure, Organization and methodical procedure

(Short brochure, March 2020)

DiDaT aims to increase the adaptive capacity of sensitive stakeholder groups and subsystems in Germany with respect to unintended side effects of digital data.

To this end, seven exemplary impact areas were selected (see the middle part of Fig. 3, page 4, classification of vulnerability spaces), in which Unseens leading to vulnerabilities of sensitive stakeholder groups or subsystems in Germany are to be considered. The aim is to achieve a positive, more responsible and ultimately sustainable use of digital data and technologies.

DiDaT supports the development of social and technological innovations for the responsible handling and resilient use of digital data in all areas of life. DiDaT works transdisciplinarily. This means that the work process at all levels is managed and shaped equally by representatives of the relevant stakeholder groups and by scientists.

The initiation phase financed by the *Plettner Foundation* within the Stifterverband began in October 2018. As a DiDaT product, orientations (i.e. "socially robust orientations") are compiled in a white paper through a suitable combination of knowledge from research and practice.

The first version of the White Book will be presented at the 3rd DiDaT Stakeholder Conference at the end of June 2020. This will be followed by an intensive discursive consultation (*Vernehmlassung*) of the seven main chapters on impact areas (also known as vulnerability spaces).

In order to support the appropriateness and potential usefulness of the orientations contained in the White Book, a number of transdisciplinary laboratories (Td-Labs) will be initiated in addition to the consultation process.

The object of the work of the Td Labs is to examine statements, boundary conditions, barriers and trade-offs that are linked with practice or with socio-technological innovations in real-world contexts and thus to prepare an interface in which theoretical and practical knowledge come together.

The following three pages provide information on the DiDaT process, transdisciplinary organisation and methods (see page 4).

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DiDaT: Products and results of the fully-fledged transdisciplinary project

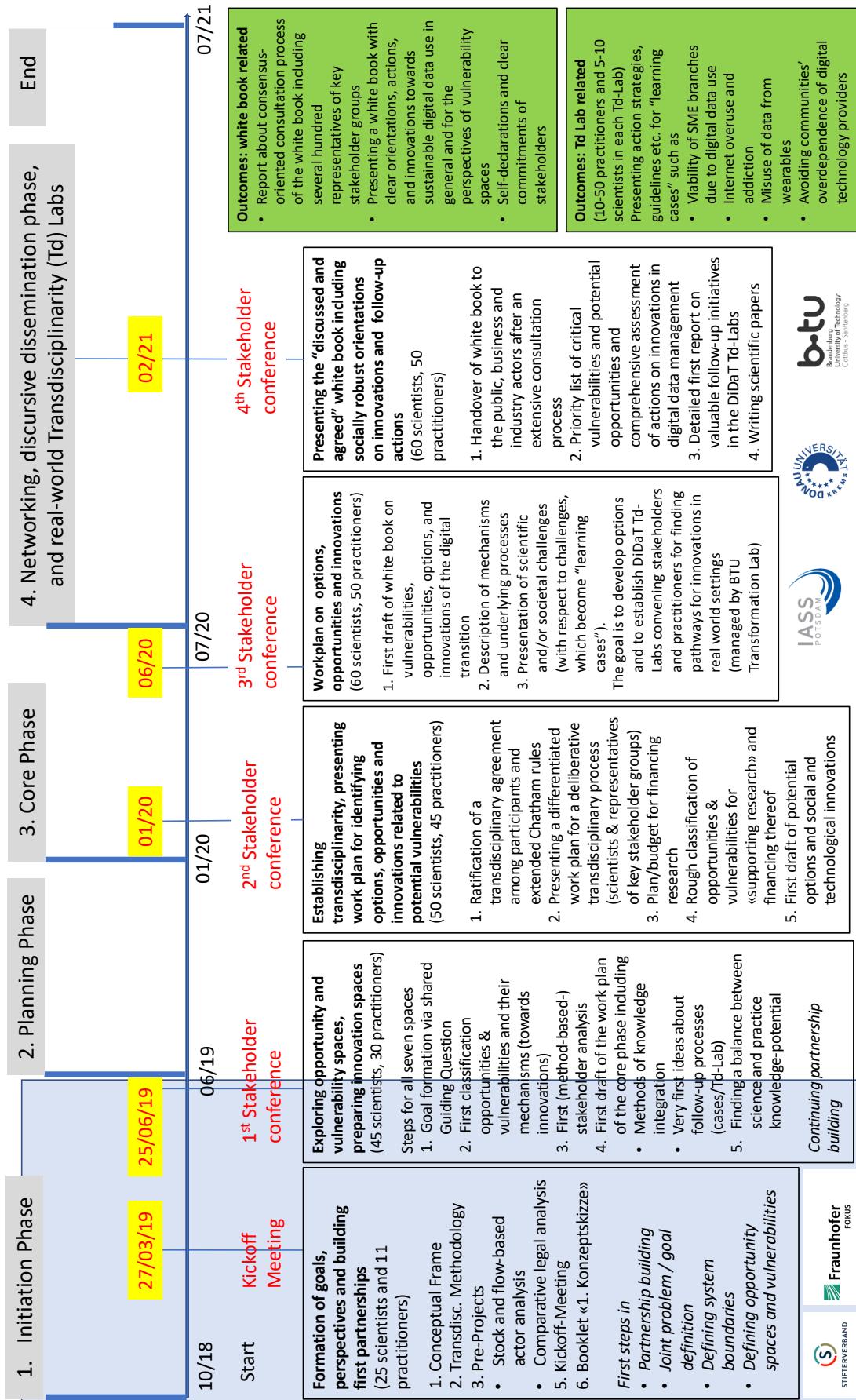
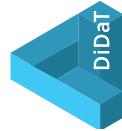


Figure 1. DiDaT Overview of project phases

DiDaT: Organizational Chart* (March 19, 2020)

Science	Practice	
Transdisciplinary Project Leaders		
Ortwin Renn (IASS), Roland W. Scholz (IASS, Donau Uni Krems / DUK), Markus Beckedahl (Netzpolitik), Stephan Noller (ubirch, Bundesverband Digitale Wirtschaft)		
Steering Board		
Speakers: C. Eckert (LMU, Fraunhofer AISEC), M. Mißler-Behr (BTU). Members: 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)	Speakers: H.-J. Sippel (Stiftung Mitarbeit), T. Thiele (Deutsche Bahn). Members: T. Clausen (Edelmann Media), H. Gleiss (Netz), 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 S. Hermerschmidt, A. Zeeb-Schwanhäuser	
Project Team		
Project Management: D. Marx (BTU), V. van Zyl-Bulitta (IASS), L. Kätker (BTU), M. Mönch (BTU). Senior legal expert: G. Lentner (DUK). Td-Method Lab: C. Hartmann (BTU), H.P. Takam (BTU)		
Vulnerability Spaces		
Impact-oriented Vulnerability Spaces		
Science	Topics/Facilitators	Practice
Mobility (01)		
W. Canzler (WZB), J. Maesse (Uni Giessen), W. Palmetshofer (Open Knowledge Foundation), U. Reisach (HS Neu-Ulm), L. Schebek (TU Darmstadt), W. Serbser (DGH Hochschule),	K. M. Hofmann (Network Institute)	D. Baidinger (Deutsch Bahn), E. Fischer (VDV), K. Teille (VW AutoUni), J. Tiffe (Form:f), T. Waschke (Denkbank), C. Wust (Ford Europe)
Health (02)		
G. Antes (Uni Freiburg), G. Glaeske (Uni Bremen), F. Tretter (LMU), M. Friele (UK Köln), N.N., N.N.	H. Köckler (HSG Gesundheit Bochum), L.A. Rosenberger (Uni Wien)	M. Danner (BAG), A. Eichhorn (humatrix), S. Sauerland (IQWiG), S. Völker (KV W-L), M. Weller (Spitzenverband der Krankenkassen)
SME (03)		
G. Müller-Christ (Uni Bremen), A. Reichel (Zukunftsinstitut Karlsruhe), G. Steiner (DUK), F. Goll (FZI Karlsruhe), N.N., N.N.	R. Czichos (DUK, CTN)	W. Hofmann (TMG), G. Kniesteder (EMUGE), L. Probst (IHK Cottbus), K. Weßner (puls-marktforschung), T. Schauf (VDI, Telekom) H. Haimo (ZVEI), O. Suchy (DG-BVV)
Agriculture (04)		
G. Berger (ZALF) R. Brunsch (Leibniz ATB), J. Dörr (Fraunhofer IESE), C. Reichel (Leibniz IBZ), L. Frerichs (tbc) (Uni Braunschweig), N.N.	J. Zscheischler (Leibniz ZALF)	H. Buitkamp (VDMA Landtechnik), H.-W. Griepentrog (DLG, Digitalisierungsausschuss, Uni Hohenheim), C. Tölle-Nolting (NABU), T. Strobel-Unbehauen (FiBL), P. Pascher (Bauernverband), M. Nachtmann (BASF)
Value- and Impact-oriented		
Social Media (05)		
P. Freytag (tbc), N. Kersting, (Uni Münster), C. Montag (Uni Ulm), L.-M. Neudert (Uni Oxford), C. Sindermann (Uni Ulm), N.N.	R. Hess (Werkstatt für Innovation, Berlin)	F. Ebner (Mecodia), H. Gleiss (Netz), N.N. (Cyberstalking), C. Reher (Platform 161), B. Thull (LFK Stuttgart), A. Schenck (semasio)
Institution- and Regulation-oriented		
Reliable and Trustworthy Digital Data (06)		
A. Kaminski (Uni Stuttgart), M. Reissig (IASS), C. Reuter (Darmstadt), J. Mittelbach (BTU), S. Schreiber (BTU)	J. Lambing (Forschung Gutes Leben), Kabisch, S.	S. Hallensleben (VDE), M. Breuer (Ubirch), M. Fuchs (Blogger und Politikberater), S. Thürmel (München), J. Scholz (Social Media Partisan), N.N.
Cybercrime (07)		
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 Ctb), V. Hagen (Land Vorarlberg), D. Nagel (Vodafone), B. Otupal (Dell), H. Wu (Huawei)

Cross cutting expert groups	
Data economy	DNA Data
M. Dopf (Admeira), C. Reher (platform 161, BVDW), A. Schenck (semasio), R.W. Scholz (IASS, DUK), S.W. Scholz (Interrogare), P. Wiegemann (Interrorgare, BDM)	A. Eichhorn (Humatrix), G. Glaeske (Uni Bremen), R.W. Scholz (IASS, DUK)

External Support Groups	
Science Experts	DiDaT MdB Monitoring Group
G. Beier (IASS), S. Diefenbach (LMU), H. Mieg (HU Berlin), T. Santarius (TU Berlin), U. Schneidewind (Wuppertal Institut), D. Wruk (Uni Mannheim), K. Zweig (Uni Kaiserslautern)	M. Beermann, M. Biadecz, T. Schipanski (CDU), M. Höferlin (FDP), Tabea Rößner (Bündnis90/Die Grünen), P. Sitte (Die Linke), J. Zimmermann (SPD)
Experts in Law and Digitalization	Global Digital Market Leaders
C. App (DUK), G. Lentner (DUK), M. Mayrhofer (Uni Linz)	M. Senges (Google, tbc), P. Müller (Amazon tbc), T. Böhm (Microsoft, tbc), N.N., N.N.

Figure 2. DiDaT Organigram (with selected vulnerability spaces)

Progression and Methodology of DiDaT

0. Preprojects

2015-2019 ReDE: Research in unintended side effects as subject of research at Austrian Universities (DUK: Danube University Krems)

2017: Japanese Expert Round Table on Unintended Side effects of the Digital Transition (Univ. of Tokyo, DUK)

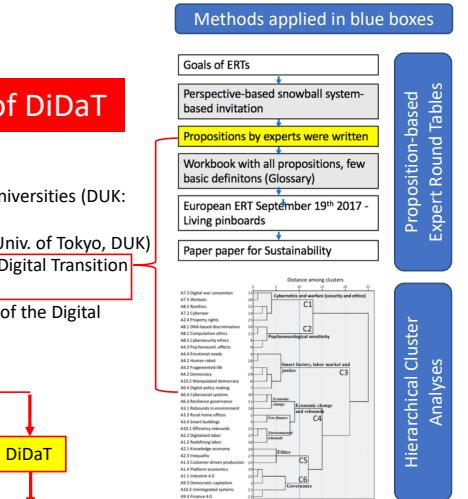
2017: Proposition-based European Expert Round Table on Unintended Side effects of the Digital Transition (BMBF FONA, DUK)

2018: Proposition-based South American Expert Round Table on Unintended Side effects of the Digital Transition (PUCR, DUK)

Main message

The most severe unseens of the digital transition emerge from the insufficient understanding of ownership, economic value, access, and use of digital data

2018: Renn & Scholz agree to run a transdisciplinary project on responsible use of data:
2018: The Plettner Foundation (Stifterverband) provides funding for the initiation phase



Faceting
the space of unresponsible data use

Impact spaces of unseens of un-responsible data use

Vulnerability Spaces

Impact-oriented

1. Mobility

2. Health

3. SME and digitalization

4. Agriculture

Value-oriented

5. Social media

Institution- and regulation-oriented

6. Reliable and trustworthy ecosystems

7. Cybercrime and Cybersecurity

1./2. Initiation and planning phase

The cycle was done three times for each vulnerability space during stages of

- Concept drafts
- Gross plan
- Detailed plan

Guiding Question

Plans for constructing action/innovation scenarios

Intervention strategies for singular vulnerabilities

Describing (if-then) mechanism of (singular) vulnerabilities

Identifying vulnerabilities

Selection of representatives of six key stakeholder groups (and researchers from six disciplines)

Stakeholder mapping

3. Core phase

Whitebook chapter production

Detailed plan-based production of White Book

Rank order and classify vulnerabilities and/or their mechanisms

Construct social and technological innovation scenarios

Describe implementation of main scenarios which increase adaptive capacity

Accompanying research for clarifying critical issues

DiDaT Td Methods Lab

Methods of knowledge integration

- Scenario formation and evaluation
- Relating causal mechanisms
- Multivariate statistics
- Others

4. Networking, discursive dissemination phase, and real-world Td-Labs

Discursive Consulting of white book

Release of White book

Follow-up processes in Real-world/transdisciplinarity Laboratories

Figure 3: History, context and methodical procedure of DiDaT

Responsible use of digital data: Digital Data as Subject of a Transdisciplinary Project (DiDaT)

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