Karlsruhe Transformation Center for Sustainability and Cultural Change

An Institution of Change at the Institute for Technology Assessment and Systems Analysis (ITAS), Karlsruhe Institute of Technology (KIT) ... shaping change together

... experiment, research, educate, advise, accompany

... for a future worth living

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Background

Culture change. Ways out of the global crisis. From knowledge to action. Daring to change.

Humanity is in crisis. Despite manifold efforts, the If culture, which constitutes our everyday life, is under-"Great Transformation"¹ towards a sustainable way of stood as a "programme for the permanent preservation" life, towards a good life for present and future geneof a collective", then a global lack of culture prevails here and now in humanity. For the way of life and economy rations, is faltering. that is effective worldwide today does not preserve, Major destructive trends such as climate change, the but rather undermines and destroys in the long run gap between rich and poor, species extinction, flight the ecological, economic, social and increasingly also and displacement, the loss of fertile soils, overuse of the physical and psychological foundations of human resources, etc. have not yet been reversed neither life - and moreover the diversity of life on earth. A fundamental cultural change is needed to turn the tide. globally nor in Europe or Germany. New problems

such as social isolation, mental suffering, stress and burnout are on the rise worldwide. A global cultural change is needed.²

A global cultural change is needed

There is a fundamental gap between knowledge and action

There is no lack of knowledge and ideas for a future worth living. Orientation for this is provided in particular by the model of sustainable development³ propagated by the United Nations since the 1990s, the associated scientific-ethical discourses and the debates on a "Great Transformation^{"1} initiated in the 2010s.

But there is a fundamental gap between knowledge and action. So who will save humanity from extinction and ensure a livable, sustainable future? Science and technology alone will not save us. Scientific knowledge and achievements, technologies and technical infrastructures increasingly permeate our

lives.

Science and technology also offer essential starting points and contributions to sustainable development, be it in resource conservation, with efficiency improvements or with environmentally friendly and low-CO₂ technologies. In the history of mankind, however,

So it's up to politics, the economy, civil society or each individual? A major transformation towards a locally and globally sustainable way of life and economy affects all areas of society – and this in full width and depth. Ultimately, all social systems and actors must contribute to a successful transformation.⁴

And more than that: they must change, we must also change ourselves.

Our technologies and technical infrastructures, economic and political systems, social structures and organisational models, our self-image and our world views, our individual and collective certainties and convictions are all up for review. Much will, much must, much may change.

How to continue in the search for a good, sustainable life?

First of all, it is necessary to look, to really accept and take seriously the insights and knowledge about our existentially threatened future and to let go of outdated ways of thinking, patterns of action and structures in order to create space for something new. Furthermore, it is necessary to empower pioneers of change, to support those organisations and groups that have already set out in niches.

... willingness to work together to promote change

... experiment, practice and learn

This also means bringing together completely different things, struggling for common visions, trying out new things, experimenting, practicing and learning. Because the Great Transformation cannot be completely imagined or even planned, neither as a process nor as a result. We must dare to change, step by step, on the way to future cultures of sustainability.

We strive for a world in which cultures of sustainability ... are the norm

Vision

Culture of sustainability. Justice. Community. Real-world lab on a permanent basis. Opening spaces.

contributions to it. We see consistency, efficiency and The Karlsruhe Transformation Center for Sustainability and Cultural Change (KAT) is an institution of change. sufficiency as essential strategies that are not inter-It offers spaces and opportunities to cooperatively changeable. experiment with ways out of unsustainable lifestyles, economies and structures in order to learn sustainability individually and socially. will be institutionalized and made permanent, as well

With the KAT, one of the world's first real-world labs as supplemented with essential areas (education, con-We strive for a world in which cultures of sustainability based on inter- and intragenerational justice, common sulting, basic research and personal sustainability), in good orientation, environmental friendliness, comorder to be able to accompany processes of change munality, tolerance, resonance, connectedness and synergistically in the long term, but above all for the peacefulness are the norm. purpose of perceiving and organizing sustainable development as a permanent and essential joint task of The KAT develops inter- and transdisciplinary action all sectors of society.

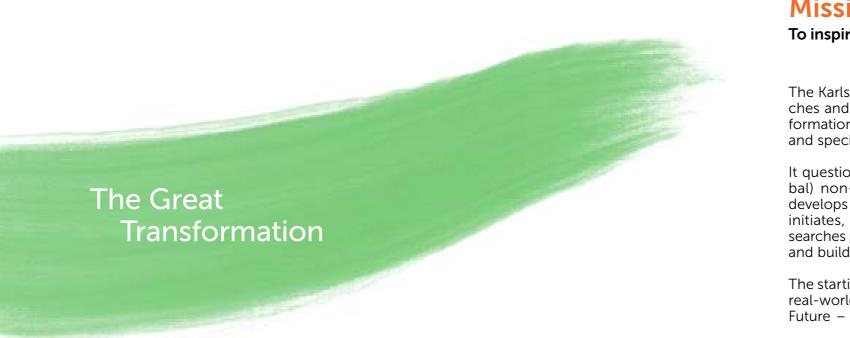
and orientation knowledge for the Great Transformation and at the same time provides concrete, practical

Authentic role model

Culture of sustainability

The Karlsruhe Transformation Center sees itself as nonpartisan, inclusive, non-violent, integral and committed to a free democratic basic order, human rights, life and all living beings. The KAT sets impulses and carries these impulses to other places. Thus, it is a contact point, home or partner for all those who really want to take the path to a sustainable future.

The KAT creates places of sustainability and is an authentic role model and pioneer of a culture of sustainability in its working methods and self-image. It shows how sustainability can already be lived in a life-affirming and future-oriented way.



Mission

To inspire. Organizing processes of change. Great Transformation. Social learning.

The Karlsruhe Transformation Center supports, researches and shapes the Great Transformation¹, the transformation to a sustainable society³ in a comprehensive and special way (see "Goals and Tasks", p.21). It questions fundamental cultural patterns of our (global) non-sustainable economy and way of life and

It questions fundamental cultural patterns of our (global) non-sustainable economy and way of life and develops starting points for profound change. The KAT initiates, supports, organizes, accompanies and researches processes of change and thus provides options and building blocks for future cultures of sustainability.

The starting point and creative core continues to be the real-world lab "Quartier Zukunft – Labor Stadt" (District Future – Urban Lab)^B, which simultaneously conducts

In recognizing sustainable development as a task for humankind, the KAT's integrative approach overcomes existing social system boundaries, particular interests and schools of thought – and builds bridges between what was previously separate.

In diverse cooperations with different social actors, it In all its activities, the KAT is guided by the condevelops real alternatives and starting points for futurecept of "sustainable development"³, in particular the oriented cultures of sustainability, including the imple-"Sustainable Development Goals"^A of the United Namentation of technical and social innovations. tions, and draws on the established and scientifically based "Integrative Concept of Sustainable Development^{"6, 15}, but goes beyond this in its understanding As an institution of change, the KAT will experiment, research, educate, advise, accompany – for sustainable and integrates cultural and human aspects of sustainable development (e.g. "personal sustainability")⁷. development:

- develop, demonstrate and cooperatively try out real alternatives
- support pioneers of change
- promote social dialogue on the urgent questions facing humanity
- forge a broad social alliance for a future worth living in
- give courage
- show that change is possible.

Research under real conditions

It works both proactively, in researching and testing new lifestyles, economic forms and socio-technical innovations (e.g. energy transition), and preventively and reactively in dealing with foreseeable and already existing crises (e.g. climate change/adaptation, refugee movements, medialization and digitalization consequences).

The Karlsruhe Transformation Center aims to close the As an institution, the KAT has the unique opportunity to accompany transformation processes in both research and design over the long term. Sustainability research beyond the usual project funding period of one to three years is just as important as a reliable framework for transformation processes. Social learning processes, cooperations for profound change - in which the partners themselves also change - require trust, reliability, reflection, and that means: time.

gap between knowledge and action for sustainable development. Between knowledge and action lies experimentation, the new as a venture. In this sense, the KAT wants to develop and test integrative sustainability solutions in transdisciplinary experiments in cooperation with science and different social actors.

It is important and special that the KAT is institutionalized and thus permanent, as many decisions and problem solutions in our fast-moving, highly accelerated world suffer from short-termism and short-sightedness. As urgent as a major transformation is, social and cultural change processes are slow and long-term. These cannot be accelerated at will.

Initiate, shape and accompany transformation processes

Goals & Tasks

The KAT is dedicated to the following closely related and mutually beneficial tasks and goals:

Action and Innovation

The KAT initiates change, develops and tests social, technical and economic contributions to sustainable development in all areas of life



With its competences and real-lab expe-

municipalities, companies and initiatives

riences, the KAT advises organisations,

on their change towards sustainability.

Consultancy

Education

In cooperation with renowned actors, the KAT offers individual educational programmes in the field of sustainable development for universities, schools and the general public







The KAT opens up, develops

and maintains experimental

spaces and thus creates ideal

conditions for change.

Experimentation

Research

The KAT conducts sustainability, transformation and transformative research. It conducts long-term research into processes of change as well as conditions for a successful transformation and links the knowledge to basic research.



Communication and Networking

The KAT supports the networking of a wide variety of actors, such as technical and social pioneers of change. The prerequisite for this is communication and the resulting mutual understanding.

Reflection and contemplation In a restless and increasingly

fast-paced world, the KAT offers spaces for reflection and retreat, and is thus a refuge of change for deceleration, resonance⁸ and self-reflection



Node of the Network Real-world Labs for Sustainability

In addition to its outward activities, the KAT is also explicitly dedicated to an "inner culture of sustainability", and wants to assert the claims that are pursued in its vision and objectives outwardly, but also inwardly, in its own organization, and thus become an authentic and attractive organization for its employees. Self-determined, lively and personality-promoting work are central elements here.

While the KAT remains effective in its direct real-lab activities primarily locally in the experimental space of Karlsruhe, setting impulses locally and researching them as case studies, its sphere of influence extends far beyond this with the transfer of this knowledge. With its sustainability and transformation research – which is also possible independently of the realworld lab – as well as with educational and advisory activities and process support for other actors and organizations, it reaches out to national and international communities (e.g. within the framework of the

For the aim of a "dense sustainability"

Origin and Institutional Orientation

District Future – Urban Lab. Lifeworld and science. Dense sustainability. KIT. ITAS.

The practical starting point of its genesis and ultibuilds directly on the competences, structures and experiences gained there and successively expands mately also the theoretical-methodological core of its future work is the research and development format them to include essential functions and areas. Quartier "real-world lab"¹⁰: the direct transdisciplinary and trans-Zukunft in particular has been doing transformative formative linking of sustainability innovation and reand transdisciplinary pioneering work since 2012.^{11, 12} search at the interface of lifeworld and science. With its clearly participatory and co-creative approach and the goal of "dense sustainability"¹³ based on an In the real-world lab, a wide variety of approaches to sustainable development are carried out and elaborate sustainability concept⁶, it has since gained simultaneously researched in cooperation with praca worldwide reputation as a real-world lab of the first tical partners in the form of real-world experiments. hour and holds a leading position nationally in realworld lab research.

In concrete terms, the KAT is the result of the expansion and institutionalisation of the Karlsruhe real-world For ten years now, the team around District Future – Urban Lab and KAT has been steadily expanding its lab: District Future – Urban Lab^B with its sub-projects^C and the Karlsruhe School of Sustainability (KSN)^D. It real-world lab activities.

Awarded several times for its achievements

To date, around 30 publicly funded (transdisciplinary) projects have been and are being successfully carried out within the framework of the real-world lab, around 400 publications have been produced, dozens of collaborations have been established, and several thousand interested people have attended over 200 events.

Since 2015, the real-world lab has been operating the Future Space for Sustainability and Science in Karlsruhe as a district office and crystallisation point for close contact between scientific and non-scientific partners. Cities have been advised and accompanied in their sustainable development, as have municipalities, companies, other real-world labs and educational institutions.

The Ministry of Science, Research and the Arts of Baden-Württemberg (MWK) awarded the Karlsruhe Reallabor the top grade ("triple A") in an evaluation and described it as a "blueprint for the conception and im-

- Interested people from around 30 nations visited the District Future and took the ideas back to their respective home countries.
- To date, a total of about 11,4 million euros in funding has been raised for the research and development work of the real-world lab.
- Currently, about 20 staff members are involved in active real-world laboratory work and the development of the KAT.

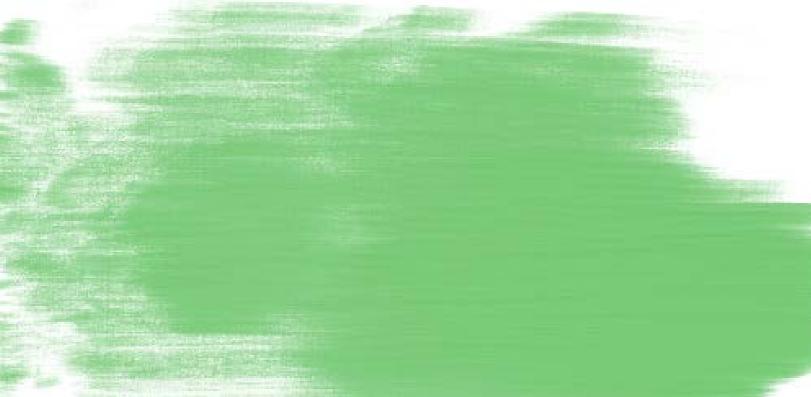
real-world lab activities will be deepened, institutionalized and synergistically linked, but the already existing Bundestag (TAB), it advises the parliament on all portfolio of tasks will also be expanded. In particular, emerging issues of technological progress and does a great deal of research on future scenarios and professionalized advisory, training and process support services, the linking of transdisciplinary research to the co-evolution of technology and society. basic research and the creation of spaces for reflection Furthermore, the Institute of Technology Futures (ITZ) and the Centre for Applied Cultural Studies and Studium and contemplation are essential innovations of the KAT. The real-world lab work and the expanded portfolio Generale (ZAK), both located at KIT, form close and enable the KAT to make effective and well-founded strong partners for KAT. The former in its connection contributions to the Great Transformation. to basic research (especially sociology, philosophy, history) and the latter in educational matters and public The institutional background is the Institute for Techscience cooperation.

nology Assessment and Systems Analysis (ITAS)^E at the Karlsruhe Institute of Technology (KIT)^F, into which the KAT¹ is integrated as an independent organisational unit.

For more than twenty years, ITAS has been conducting a wide range of theoretical and conceptual as well

At the interface between science and society

With the establishment of the KAT, not only the existing as applied sustainability research. Through the Office of Technology Assessment at the German



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Institutions & projects at a glance

A United Nations – Sustainable Development Goals: sustainabledevelopment.un.org/?menu=1300
B District Future – Urban Lab: www.quartierzukunft.de/en
C Current projects of the KAT: www.itas.kit.edu/fg_kat.php
D Karlsruhe School of Sustainability: www.mensch-und-technik.kit.edu/ksn.php
E Institute for Technology Assessment and Systems Analysis: www.itas.kit.edu
F Karlsruhe Institute of Technology: www.kit.edu
G Global Consortium for Sustainability Outcomes: sustainabilityoutcomes.org
H Network Real-World Labs for Sustainability: www.reallabor-netzwerk.de
I Karlsruhe Transformation Centre for Sustainability and Cultural Change: www.transformationszentrum.org

Further research projects

Karlsruhe Real-World Lab for Sustainable Climate Protection: www.reallabor-karla.de Your Balcony Net: www.dialog-energie.de/formate/realexperimente/dein-balkonnetz #climatechallenge: www.transformationszentrum.org/climatechallenge.php Co-creation of Sustainable Food Supply Chains (Co-SFSC): www.sustainablefood-sc.org

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The activities of the real-world lab District Future (including the "School of Sustainability") have already received several awards:

- Joachim-Reutter-Preis für soziale Innovation 2021, Sonderforschungspreis der Gips-Schüle-Stiftung
- Projekt Nachhaltigkeit 2020, für Quartier-Zukunft-Kampagne "Grüne Lunge" (RENN.süd – Rat für Nachhaltige Entwicklung der Bundesregierung)
- Forschungspreis Transformative Wissenschaft 2018: Wuppertal Institut und Zempelin-Stiftung im Stifterverband

- Transformationsprojekt 2017: Rat f
 ür Nachhaltige Entwicklung der Bundesregierung
- Projekt Nachhaltigkeit 2017: Rat für Nachhaltige Entwicklung der Bundesregierung
- Werkstatt N-Projekt 2016: Rat für Nachhaltige Entwicklung der Bundesregierung
- UN-Dekade-Projekt "Bildung für Nachhaltige Entwicklung" 2014: Deutsche UNESCO-Kommission
- Deutscher Lokaler Nachhaltigkeitspreis ZeitzeicheN "Ideen" 2013: Netzwerk21 für Lokale Nachhaltigkeit



Karlsruhe Institute of Technology (KIT)

Karlsruhe Transformation Centre for Sustainability and Cultural Change www.transformationszentrum.org

Authors

Oliver Parodi, Marius Albiez, Richard Beecroft, Annika Fricke, Sarah Meyer-Soylu, Andreas Seebacher, Volker Stelzer, Helena Trenks, Felix Wagner, Colette Waitz, Eva Wendeberg

Graphics & Layout Johanna Sterrer

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Contact info@transformationszentrum.org



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