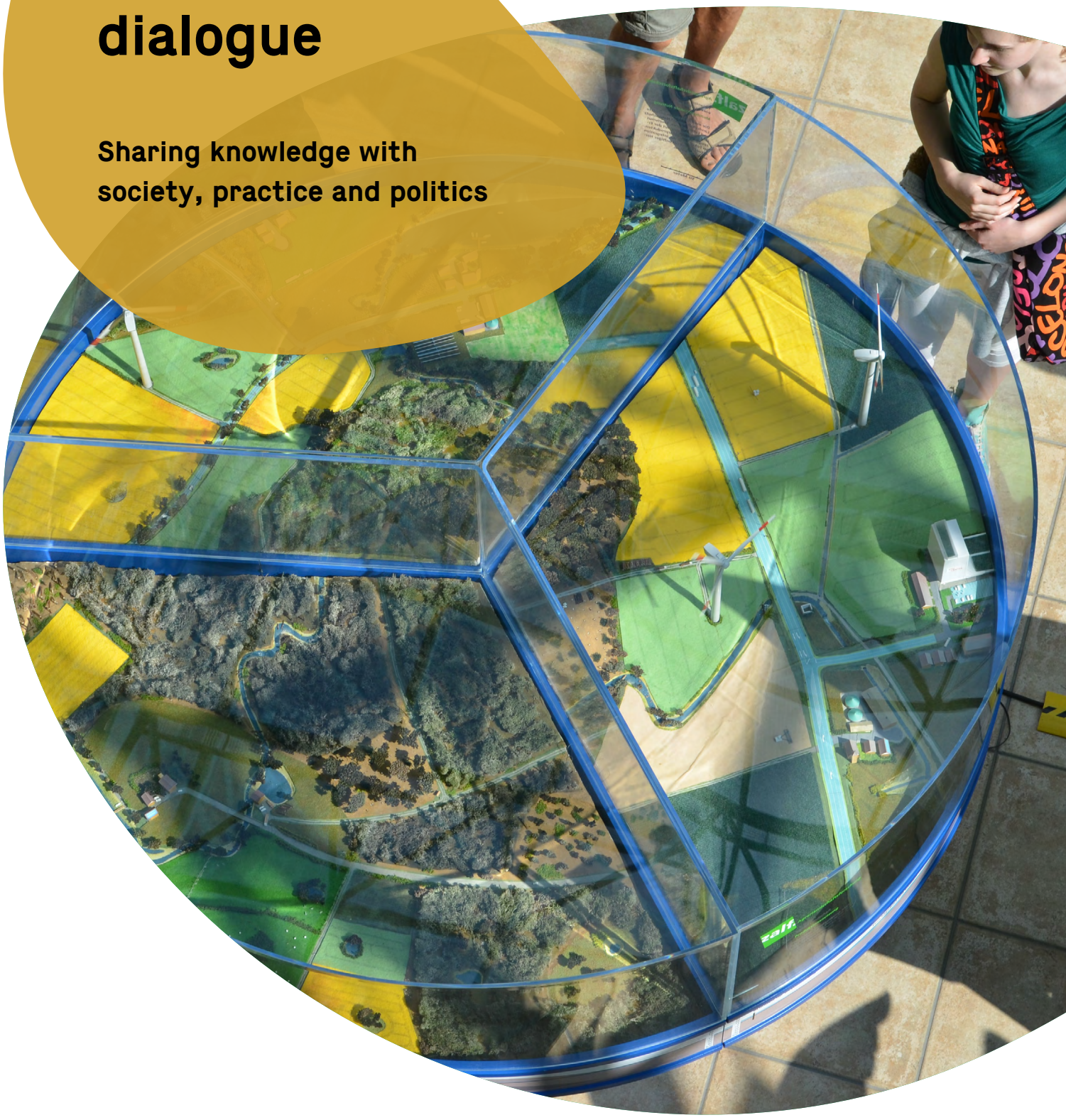
Leibniz Centre for
Agricultural Landscape Research
(ZALF)

ZALF in dialogue

Sharing knowledge with society, practice and politics



»
As a member of the Leibniz Association, we feel committed to scientific excellence and social relevance. Research and knowledge transfer to society are therefore two sides of the same coin.
«

Martin Jank & Prof. Frank Ewert
ZALF Executive Board

Content

01 Transfer at ZALF
Sharing knowledge with society, practice and politics
05 Cooperation with industry
10 Spin-off companies
11 Intellectual property
12 Standards and standardization
13 Transfer of skills and expertise
16 Infastructural services
17 Science communication
Scientific policy consultancy
Public participation and Citizen Science
Public relations
28 From conventional knowledge transfer to living labs
31 Contact

Preamble

The Leibniz Center for Agricultural Landscape Research (ZALF) conducts knowledge- and application-oriented research on socially, economically and ecologically relevant issues in the context of agricultural landscapes. ZALF activities contribute to sustainable value chains in landscape, agriculture and food. Based on our mission – **Reshaping Landscapes by Rethinking Agriculture** – our interdisciplinary research addresses important societal challenges: population growth, food security, climate change, enhancement and conservation of ecosystem services and biodiversity, as well as digitalization and new technologies. Research at ZALF is often cross-disciplinary, overcoming the strict separation between basic and applied research - ideal conditions for an exchange with practice, society and politics. The communication of scientific findings to the non-academic world is one of the central purposes of ZALF and corresponds to the self-image of the of the Leibniz Association: the combination of scientifically excellent and socially relevant research.

Definition

ZALF pursues a broad understanding of “transfer” that encompasses information, advice and application to achieve impact based on scientific evidence. We therefore organize science transfer as a mutual exchange between research-based knowledge from the academic world and experience-based knowledge from society, politics and practice. In this way, we strive to achieve long-term and sustainable effects. To this end, ZALF uses a variety of communication channels to be in continuous dialogue with the target groups and include relevant aspects in its development of research questions.

Target groups and actors for knowledge transfer

ZALF has identified three main target groups for knowledge transfer: practice, politics and society. For supporting transfer at ZALF, the **Public Relations Department**, with its expertise in **science communication** and marketing, cooperates closely with the **Transfer Officer**. The Transfer Officer coordinates the process, in a continuous exchange with both ZALF internal and external actors. A network of strategic partnerships complements the knowledge transfer at ZALF.

Figure 1: Instruments and target groups of transfer at ZALF, © ZALF

In ZALF's understanding, the transfer of research results includes all processes that are directed at the non-academic world. Knowledge transfer at ZALF is guided by the **Leibniz Association's Transfer Policy** with its broad and dialogue-based definition of transfer. From the perspective of the seven **Leibniz transfer paths**, we set five priorities at ZALF (Figure 2): „cooperation with industry", „transfer of skills and expertise" and the three paths in science communication with „public policy consultancy", „public participation and citizen science" and „public relations". The other transfer paths are also followed by ZALF, albeit with less intensity.

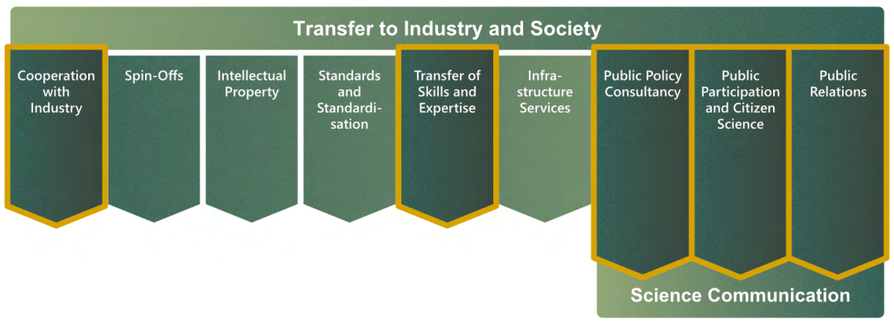


Figure 2: Leibniz transfer paths at ZALF, © ZALF

Perspectives

Transfer at ZALF is constantly evolving. In the future, existing living lab approaches at ZALF, which involve closer research collaboration between practice, politics and science, will be further developed to better address pressing societal challenges and transformations and to support sustainable transformation (Figure 3).

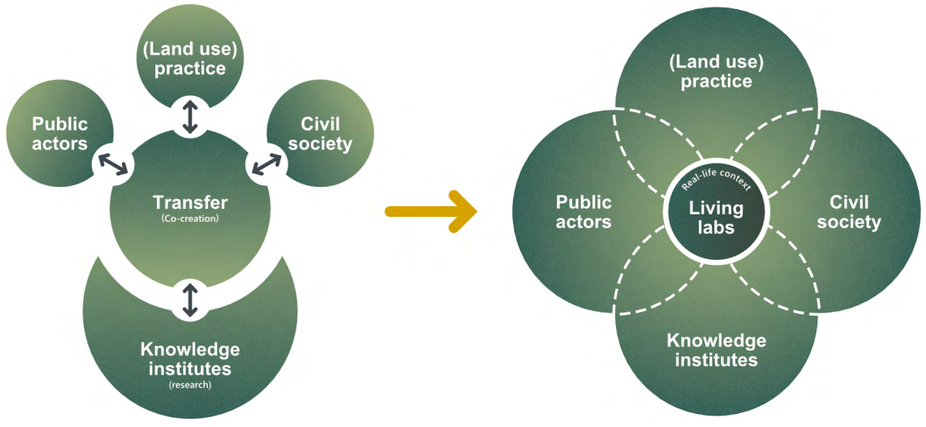


Figure 3: From the multidirectional approach to living labs (left: ZALF transfer according to Ewert/ZALF, 2021, © ZALF, right: ZALF according to Steen & van Bueren, 2017, © ZALF)

Best practice projects for the exchange with society, practice and politics

Cooperation with industry*

Landscape laboratory patchCROP

Can we conserve resources, preserve soil fertility, reduce the consumption of chemical pesticides as well as fertilizers, and increase biodiversity with more diversity in the field and smaller, site-adapted cropping areas? PATCHCROP is one of three major research infrastructures operated by ZALF together with scientific partner institutions within and outside the Leibniz Association. Here, a multidisciplinary, experimental approach to a multifunctional and sustainable cropping system is being tested, which was developed in cooperation with the Komturei Lietzen farm.

Find out more:
www.landschaftslabor-patchcrop.de

Listen to more:
https://www.quer-feld-ein.blog/episodes/querfeldein-podcast-folge-4-mosaik-acker-statt-monokultur-ist-kleinteilige-landwirtschaft-die-zukunft/

See more:
https://www.youtube.com/watch?v=LSdcBL6TsvE

* Contract research as well as joint and collaborative projects

Knowledge about legumes

A stronger orientation of European agriculture towards legumes can contribute to the reduction of negative environmental impacts and improved self-sufficiency in proteins supply. The European network **LEGUMES TRANSLATED** is dedicated to the cultivation and use of legumes, establishing close cooperations between research and practice.

Funding:

Funded by the European Union

Find out more:
https://www.legumestranslated.eu/

Listen to more:
https://www.quer-feld-ein.blog/episodes/querfeldein-podcast-folge-10-klimafreundlich-essen-beginnt-das-vegane-zeitalter/

See more:
https://www.youtube.com/watch?v=9xw1YrvrQXM

New uses for alfalfa

In addition to its use as a fodder crop, alfalfa is being looked at in the **FUFAPRO** project as a renewable raw material for the production of natural fiber-reinforced plastics.The aim of the project is to develop concepts for dual use: the stalks could be utilized as strengthening materials for innovative, natural fiber-reinforced bioplastics (NFRPs). The leaves are suitable as protein feed and raw material for bio-based agricultural films. Innovative cultivation, harvesting and initial processing methods are being developed for both types of use. The focus is on leaf-stalk separation.

Funding:

Bundesministerium für Bildung und Forschung

Find out more:
https://land-innovation-lausitz.de/fufapro

Robots for the field

The main goal of the ZIM cooperation network **DEEPFARMBOTS** is the development and distribution of new robotic solutions for an efficient and sustainable agriculture.

Funding:

Bundesministerium für Wirtschaft und Klimaschutz

Find out more:
https://www.deepfarmbots.net/en/

Nature conservation via smartphone

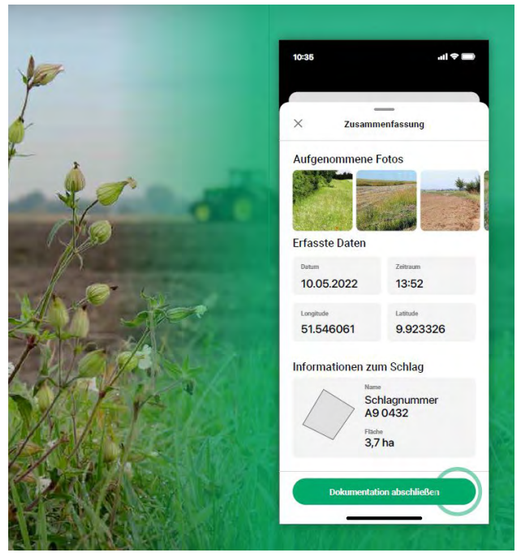
Together with farmers and other partners, ZALF has developed **NATAPP**. With it, nature conservation measures can be handled on the smartphone, which significantly reduces the bureaucratic burden. The software application covers the information, planning, implementation and legally compliant documentation of nature conservation measures on farmland.

Funding:

rentenbank

Find out more:
https://www.naturschutz-app.de/

See more:
https://www.youtube.com/watch?v=5xqPuT4uLvQ



New products for Lusatia

The aim of the **TRÜFFELPLANTAGE** project is to investigate whether truffles can be cultivated sustainably on reculti-vated areas in Lower Lusatia. The cultivars used form a symbiosis with the roots of numerous tree species and produce underground fruiting bodies known as truffles. If successful, the results are scalable to the level of pro-fessional cultivation and thus made commercially viable.

Funding:

Bundesministerium für Bildung und Forschung

Find out more:
https://land-innovation-lausitz.de/trueffelplantage/

Fighting the sea buckthorn fruit fly without chemical pesticides

In the **MOPLASA** project, a non-chemical plant protection strategy was developed against the sea buckthorn fruit fly, which in some cases causes massive yield losses in sea buckthorn cultivation.

Funding:

EUROPÄISCHE UNION
Europäischer Landwirtschaftsfonds für die Entwicklung des ländlichen Raums

LAND BRANDENBURG
Ministerium für Landwirtschaft, Umwelt und Klimaschutz

Find out more:
https://www.zalf.de/en/aktuelles/Pages/Presse-mitteilungen/PM_Sanddornfruchtfliege.aspx

Nature conservation now online

AGORANATURA is Germany's first online marketplace for certified nature conservation projects. Since October 2020, the platform has enabled anyone who manages land and wants to implement a nature conservation project to finance it via crowdfunding or through partnerships with companies. Private investors and companies can specifically support biodiversity and nature services through the purchase of nature conservation certifi-cates. To ensure the ecological impact of the projects, each project is externally certified by the Naturplus standard. AgoraNatura emerged from a research and development project with partners from nature conser-vation and agriculture. The spin-off as an independent business is planned for 2023.

Funding:

leben.natur.vielfalt das Bundesprogramm

Bundesministerium für Bildung und Forschung

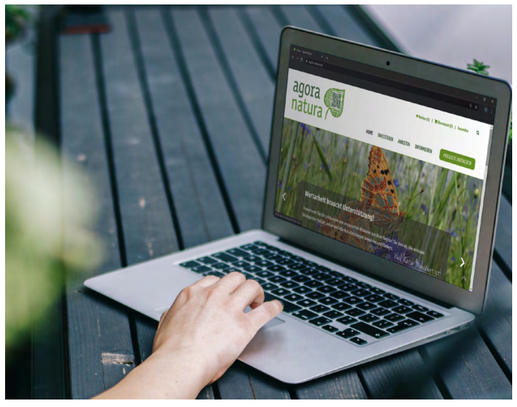
Bundesministerium für Umwelt, Naturschutz und nukleare Sicherheit

BfN Bundesamt für Naturschutz

Find out more:
https://agora-natura.de/en/home-en/

See more:
https://www.youtube.com/channel/UCHIXxyD6F35iXKFWzDxmgwQ

Listen to more:
https://www.quer-feld-ein.blog/episodes/querfeldein-podcast-folge-1-naturschutz-geht-jetzt-online/



From coal mining to a model region for bioeconomy

The vision and goal of the **LAND-INNOVATION LAUSITZ** initiative is to develop the Lusatia area into a model region for adapting land use to climate change through innovative technologies and land use types along the bioeconomic value chain. In the initiative, scientists from BTU Cottbus-Senftenberg and ZALF, in cooperation with farms and industrial partners, have been researching strategies since 2019 to strengthen Lusatia, which is particularly affected by structural and climate change, through sustainable agriculture.

Funding:

Bundesministerium für Bildung und Forschung

Find out more:
https://land-innovation-lausitz.de/

Innovations for grassland

In the **Q2GRAS** project, software tools for improving grass silage quality as well as increasing the profitability of dairy farming were developed and tested.

Funding:

EUROPÄISCHE UNION
Europäischer Landwirtschaftsfonds für die Entwicklung des ländlichen Raums

LAND BRANDENBURG
Ministerium für Landwirtschaft, Umwelt und Klimaschutz

Spin-off companies*

The following companies are spin-offs of ZALF:

UGT UMWELT GERÄTE TECHNIK *The Solutionists*

Umwelt-Geräte-Technik GmbH
https://www.ugt-online.de/start

agrathaer
Strategische Landnutzung

agrathaer GmbH
https://www.agrathaer.de

MORPH GREEN TECH

Morph Green Tech U.G.
https://morphgreentech.com

Lenné3D
Making change visible.

Lenné3D GmbH
https://www.lenne3d.com

* Spin-offs, shareholdings in companies, shareholdings under company law

Intellectual property*

Cultivation of the sweet lupine

In 1929, scientists at the Kaiser Wilhelm Institute for Cultivation Research, one of ZALF's predecessor institutions, bred a bitter substance-free fodder lupin, also known as sweet lupin - a revolution for the feed industry at the time. Today, domestic legumes are once again becoming increasingly attractive as an alternative to imported soybeans.

Flow control for lysimeter

German Patent Nr. 10 2014 111 800: method for controlling a lysimeter

Harmful fungi

German Patent Nr. 10 2005 053 458, European Patent No. 1942741: method for the prevention of plant damage caused by *Verticilium*

* Invention disclosures, patents, licenses, option/transfer agreements

Standards and standardization*

Foundations for a nature conservation standard in organic farming

Find out more:
https://www.zalf.de/de/forschung_lehre/publikationen/Documents/oekolandbau/handbuecher/WWF_Studie%20Naturschutzstandards.pdf

PlanSmart (handbook): Sustainable development of rivers

Find out more:
https://www.oekom.de/buch/planung-naturbasierter-loesungen-in-flussland-schaften-9783962383091

Landwirtschaft für Artenvielfalt

Agriculture for biodiversity - Development of a quality seal

Find out more:
https://www.landwirtschaft-artenvielfalt.de/

Evaluation standards in urban and regional development and structural policy

Find out more:
https://www.zalf.de/de/forschung_lehre/publikationen/Seiten/publikationen.aspx

Natur plus

Development of a scientifically based conservation standard for the certification of conservation projects

Find out more:
https://agora-natura.de/en/certification/

* Participation in procedures of recognized organizations for national, European and international standardization and norming

Transfer of skills and expertise*

International

The **STEP-UP** project aims to contribute to food security through quality assurance in production and the strengthening of market shares of smallholders and enterprises in Africa.

Funding:
Bundesministerium für Ernährung und Landwirtschaft
ptble Projektträger Bundesanstalt für Landwirtschaft und Ernährung
ERANET

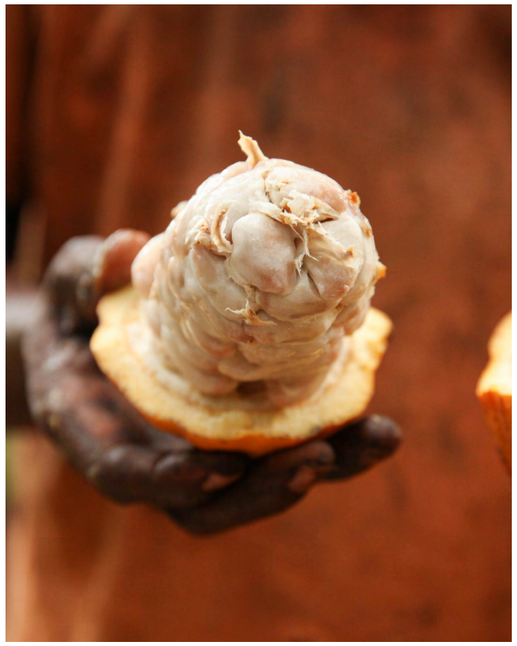
Find out more:
https://susland.zalf.de/step-up/

The **TRANS-SEC** project is a people-centered approach to innovation strategies for food security through technology and knowledge transfer in four villages in Morogoro and Dodoma, Tanzania.

Funding:
Bundesministerium für Bildung und Forschung

Find out more:
http://trans-sec.org/

* Science-based education and training of actors for tasks outside the science system, qualification programs for the economy, capacity building: exchange of professional-technical and organizational knowledge with partners from so-called emerging and developing countries, transfer of former scientist into businesses and further fields of employment.



The **PRO-PLANTEURS RECHERCHE** project is accompanying research on actions implemented by PRO-PLANTEURS in Côte d'Ivoire, with the aim of improving income as well as living and working conditions for smallholder cocoa farmers. Other goals are the building up of financial reserves for unforeseen emergencies, and sharing knowledge about environmentally compatible cultivation methods.

Funding:

PRO-PLANTEURS
Professionnalisation des Producteurs & leurs Organisations pour une Cacaoculture durable

Bundesministerium für wirtschaftliche Zusammenarbeit und Entwicklung

Find out more:
https://www.kakaoforum.de/en/our-work/pro-planteurs-project/

The **TREES** project is accompanying research on the implementation of measures to restore forest-rich landscapes and good governance in the forest sector as part of the GIZ global project Forests4Future in Togo, Ethiopia and Madagascar.

Funding:

Bundesministerium für wirtschaftliche Zusammenarbeit und Entwicklung

giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Find out more:
https://afr100.org/content/forests4future-giving-forests-future

The goal of the **SLUS** project in Colombia is to reconcile sustainable cropping and livestock systems with forest conservation and peacebuilding.

Funding:

Bundesministerium für Umwelt, Naturschutz und nukleare Sicherheit

IKI INTERNATIONAL CLIMATE INITIATIVE

Find out more:
https://www.zalf.de/en/forschung_lehre/projekte/pages/default.aspx?idxp=x2379x

National

FIELD DAYS are being held regularily at ZALF to be in continous dialogue with farmers and other relevant stakeholders.

Field day MikroMais
https://www.zalf.de/de/aktuelles/Seiten/PB2/Mikromais-Feldtag.aspx

Field robotic workshop
https://www.zalf.de/en/aktuelles/Pages/Pressemitteilungen/Bericht-patchCROP-Works-hop-2022.aspx

Infrastructure services*

BONARES

BONARES repository on soil

ZALF operates the **BONARES** repository of soil and agricultural research data, the portal for more than 400 permanent field experiments in Germany and Europe, and a platform for sustainability assessment of new and future sustainable land use practices and technologies.

Funding:

Bundesministerium für Bildung und Forschung

Find out more:
https://www.bonares.de/datacentre/research-data

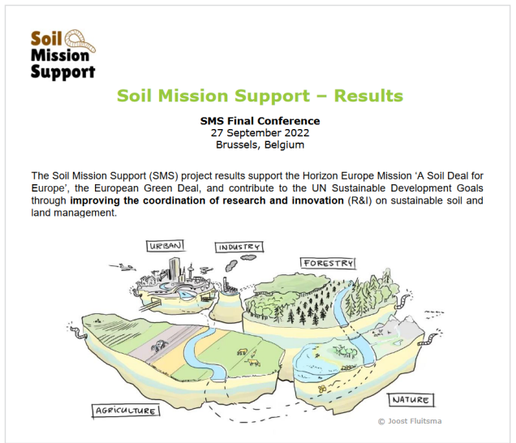
* Supply, sale and use of equipment, laboratories / facilities, special libraries, archives, collections, databases, and data for non-scientific users

Science Communication

Public policy consultancy*

ZALF regularly publishes policy papers and opinion papers. An overview of all publications can be found here:

https://www.zalf.de/en/forschung_lehre/publikationen/Pages/Politikberatung.aspx



* Expert opinions, statements, position papers, committee activities, consulting assignments, studies, participation in events, other dialogue formats

Studies and strategy papers

Statement of ZALF on the Discussion Paper of the BMEL on the **Arable Farming Strategy 2035**, Prof. Dr. Frank Ewert, Scientific Director of ZALF

https://www.bundestag.de/resource/blob/805136/375ecb20b1c4ae2e106418d5ca80f1ef/C-Stellgn-Prof-Dr-Ewert-data.pdf
https://www.bundestag.de/resource/blob/814184/4ed73025556eaf2640dd50203dea3993/Wortprotokoll-data.pdf

Collaboration on the strategy paper: Sustainability in arable farming - key points for an **Arable Farming Strategy**

https://www.zalf.de/de/forschung_lehre/publikationen/Documents/Policy_Paper/Eckpunktepapier_Ackerbaustrategie.pdf

Collaboration on the **National Security Strategy**

https://www.zalf.de/en/aktuelles/Pages/PB2/Konsultationsworkshop_Nationale_Sicherheitsstrategie.aspx

Collaboration on the **UN Environment Report**

https://www.zalf.de/en/aktuelles/Pages/PB3/UN-Umweltbericht.aspx

Collaboration in the **BMBF Research Initiative for the Conservation of Biodiversity (FEdA)**

https://www.feda.bio/en/about-fak-tencheck-artenvielfalt/topic-areas/soil-biodiversity/

Collaboration on the **DiDaT** White Paper on the Responsible Use of Digital Data

https://www.zalf.de/de/aktuelles/Seiten/PB2/Digitale_Transformation.aspx

Participation in the **Intergovernmental Panel on Climate Change (IPCC)**

https://www.zalf.de/en/aktuelles/Pages/DIR/IPCC-Report-2022.aspx

The **Soil Mission Support (SMS)** project under the scientific coordination of ZALF has laid cornerstones for the implementation of the European Soil Mission. The mission is a flagship of the new European research framework program Horizon Europe. After two years of work, the results were presented at an international conference in Brussels in September 2022.

https://www.soilmissionsupport.eu

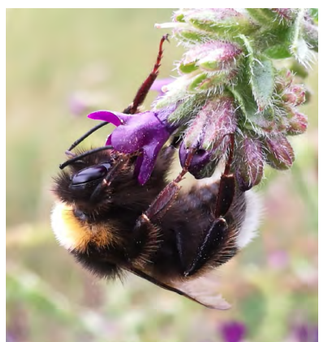
Projects

The **SYNAGRI-PV** project aims to establish agri-photovoltaics beyond its current state as a niche land use in Germany.

Funding:

Bundesministerium für Bildung und Forschung

Find out more:
https://www.zalf.de/de/aktuelles/Seiten/Pressemitteilungen/SynAgri-PV.aspx



Together with partners from land use, administration, civil society and science, ZALF developed an **action program for insect protection** in Brandenburg.

Funding:

LAND BRANDENBURG
Ministerium für Landwirtschaft, Umwelt und Klimaschutz

Find out more:
https://www.zalf.de/de/aktuelles/Seiten/Pressemitteilungen/2020_09_30_ZALF-PM_Insektenschutzprogramm_final_dt.aspx

ReGerecht

The joint project **REGERECHT** develops and implements integrative and system-oriented solutions for a fair balance of interests between the city, peri-urban and rural areas. The focus is on land use conflicts.

Funding:

Bundesministerium für Bildung und Forschung

Find out more:
https://www.zalf.de/en/aktuelles/Pages/PB2/regerecht_discussion_paper.aspx

FOODSHIFT 2030

How can we ensure that everyone can participate in the shift towards a more sustainable, plant-based and circular food system? This is one of the central questions in the **FOODSHIFT2030** project.

Funding:

Funded by the European Union

Find out more:
https://foodshift2030.eu/

MACSUR Science-Policy Knowledge Hub

The **MACSUR Science-Policy Knowledge Forum** (MACSUR SciPol) provides provides a missing link between research and policy to strategically shape climate change mitigation and adaptation in the European agrifood sector.

Funding:

Bundesministerium für Ernährung und Landwirtschaft

FACCEJPI

Find out more:
https://www.zalf.de/en/aktuelles/Pages/Pressemitteilungen/Politikberatung-Klimawandel-MACSUR-SciPol.aspx

Public participation and citizen science*

Germany collects mosquitoes

The project **MÜCKENATLAS** in cooperation with the Friedrich-Loeffler-Institute, Federal Research Institute for Animal Health (FLI), pursues a citizen science approach to monitor mosquitoes that are potential vectors of pathogens. Interested citizens send mosquitoes to ZALF and thus help to collect scientifically usable data. In return for their active participation, they receive detailed information, for example on mosquito species and ecology. The researchers, on the other hand, gain essential data sets, for example to provide distribution maps of the individual species.

Funding:

Bundesministerium für Ernährung und Landwirtschaft

Find out more:
https://mueckenatlas.com/about/

ginkoo

Creating solutions together

In the **GINKOO** project, practitioners and scientists jointly developed tools for the management of sustainability innovations in land management. The starting point were specific problems of the practitioners and their innovative ideas. Two case studies dealt with the valorization of small-scale lowland moor sites and ethical problems in poultry production.

Funding:

Bundesministerium für Bildung und Forschung

Find out more:
http://www.ginkoo-projekt.de/en/

* Events with citizen participation, participatory research formats (living labs), citizen science

BROMMI

Hand in hand for more insect protection

The **BROMMI** project aims to demonstrate transferable solutions for insect conservation in agriculturally dominated cultural landscapes using five biosphere reserves as examples. In the Germany-wide project, together with land users, the WWF and the Nationale Naturlandschaften actions for insect conservation are being developed and implemented, which are highly adapted to the respective farm and landscape conditions.

Funding:

Bundesministerium für Umwelt, Naturschutz und nukleare Sicherheit

Find out more:
https://brommi.org/

FInAL
Förderung von Insekten in Agrarlandschaften

The **FINAL** project aims to identify ways to increase insect diversity, biomass, and functionality in agricultural landscapes through changes in cropping systems, especially by integrating renewable resources. To advance the transformation at the landscape level and make it measurable in a co-design process, science and practice are working together to develop insect friendly measures, which are then implemented and monitored in the three landscape laboratories of FINAL.

Funding:

Bundesministerium für Ernährung und Landwirtschaft

Find out more:
https://www.final-projekt.de/en/

A number of civil society initiatives were involved in the development of the **Brandenburg insect protection program.**

Funding:

LAND BRANDENBURG
Ministerium für Landwirtschaft, Umwelt und Klimaschutz

Find out more:
https://www.zalf.de/de/aktuelles/Seiten/Pressemitteilungen/2020_09_30_ZALF-PM_Insekten-schutzprogramm_final_dt.aspx

Public Relations

Discussing the agriculture of the future online

The **QUERFELDEIN** science blog brings together facts, news and ideas about the agriculture of the future. In an interactive blog format with social media channels, it combines perspectives from research, practice and society and facilitates dialogue. The network is coordinated by ZALF and currently comprises more than 20 research organizations. In 2022, querFELDein was awarded the German Prize for Online Communication in the category „Energy & Environment“.

Funding:

LAND BRANDENBURG
Ministerium für Wissenschaft, Forschung und Kultur

Find out more:
https://www.quer-feld-ein.blog/

Science for your ears

The querFELDein network also operates its own audio format, **QUERFELDEIN-PODCAST,** under the editorial lead of ZALF. On a regular basis, new episodes are beeing published, talking about agriculture of the future in an easy to understand manner.The podcast can be found wherever podcasts are available.

Funding:

LAND BRANDENBURG
Ministerium für Wissenschaft, Forschung und Kultur

Find out more:
https://www.quer-feld-ein.blog/podcasts/querfeldein-podcast/

Together with Rundfunk Berlin-Brandenburg (rbb), the querFELDein network also produces the podcast **FELD, WALD & KRISE - LANDSCHAFTEN IM WANDEL**. The rbb presenters Andreas Jacob and Fred Pilarski talk with researchers from the querFELDein partner institutions about the future of cultural, natural and urban landscapes in the coming decades.

Find out more:
https://www.ardaudiothek.de/sendung/feld-wald-und-krise-landschaften-im-wandel/89908346/

Science for your pocket

Since 2017, ZALF has been publishing its own research magazine **FELD** two times a year. It consists of articles, infographics and interviews, written and created with the general public in mind.

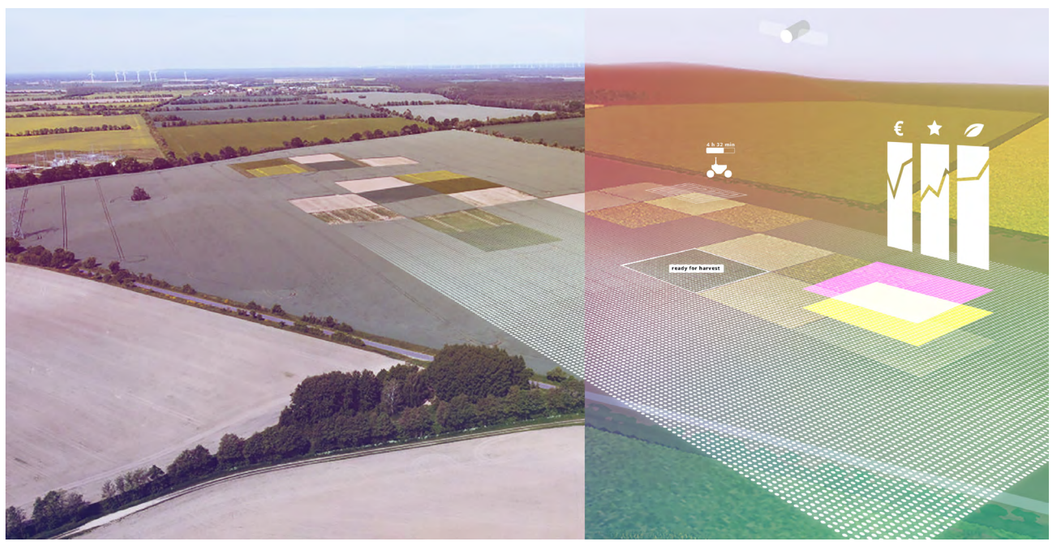
Find out more:
https://webkiosk.zalf.de/#English

Imparting knowledge playfully and digitally

“Serious games” serve not only to entertain, but also to impart knowledge. ZALF uses computer games such as the Farming Simulator in particular to communicate its research in a playful way and to create a virtual platform for knowledge exchange. In ZALF‘s digi.farming.lab, users can navigate through virtual landscapes, control the agricultural machinery themselves or watch robots at work. Augmented reality formats are also being tested in science communication at ZALF.

Find out more:
https://www.virtuelle-landwirtschaft.de/

See more:
https://youtu.be/WbAmDGerYjw



Events

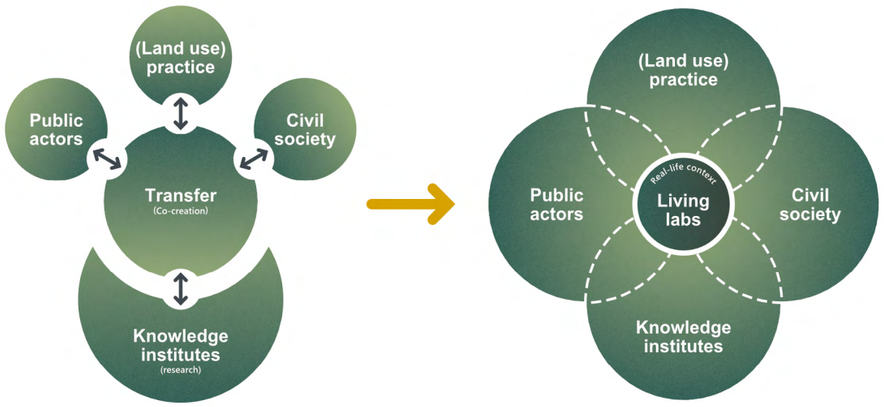
ZALF engages in dialogue with stakeholders from society, politics and practice at various events. The Long Night of the Sciences, the Long Day of Urban Nature and the International Green Week are among the most important events for science communication in the nearby capital Berlin. But ZALF also has a regular regional presence: for example, at the Kaiserbergfest and Apfelfest, as well as in discussion groups throughout Brandenburg. Increasingly, hybrid or purely virtual events are also taking place with the participation of ZALF, for example the Leibniz Association‘s Book a Scientist question format or the querFELDein-TALKS panel discussions.

BOOK A SCIENTIST

Mit Expertinnen und Experten der Leibniz-Gemeinschaft über die Welt sprechen. Und sie verstehen.

From conventional knowledge transfer to living labs

One of ZALF's particular strengths lies in designing collaboration with practice as a direct continuous dialogue, using and adapting various transdisciplinary formats and co-design approaches. These approaches, when consistently implemented, lead to a changed research mode, a changed role of researchers, a more active participation of non-academic actors as well as a very intensive multilateral exchange and joint learning. Such a research mode is central to the work in **living labs**, the establishment of which ZALF is currently pursuing in agricultural landscapes. These changes in research practice will also significantly influence ZALF's approach to knowledge transfer.



left: ZALF transfer according to Ewert/ ZALF 2021, © ZALF
right: ZALF according to Steen & van Bueren 2017, © ZALF

How ZALF defines living labs

In the definition of ZALF, **living labs** are real-world spaces, in which science and practice collaborate on joint research projects to solve real-world and socially relevant problems on our path towards sustainability, for example the reduction of environmental and climate impacts in land use. Through shared learning, they can lead to social and technical innovations as well as a better scientific understanding of challenges and their solutions. As such, they are directly relevant to helping shape sustainable agriculture in the landscapes of the future, together with the stakeholders central to this transformation.

For more information on living lab research at ZALF, please visit:
https://www.zalf.de/en/forschung_lehre/living-labs/Pages/default.aspx

Selected projects with a living lab approach and relevant infrastructures at ZALF

Together for more insect protection

To advance transformation at the landscape level and make it measurable, science and practice are working together in a co-design process to develop insect-friendly actions that will then be implemented and monitored in the three landscae labs of **FINAL**.

Funding:
Bundesministerium für Ernährung und Landwirtschaft

Find out more:
https://www.final-projekt.de/en/

Mediate between urban and rural areas

Integrative development of a fair balance of interests between the city, the peri-urban and rural areas: In the **REGERECHT** project, partners from science and practice are working together to develop solutions to reduce conflicts and to establish new ways of balancing different interests. The focus is on the different land use claims and the associated resources and infrastructures. For example, the repeatedly disputed expansion of residential and industrial areas and the securing of agricultural and forestry areas will be addressed.

Funding:
Bundesministerium für Bildung und Forschung

Find out more:
https://regerecht.de/?page_id=733

The Agri-Food System of the future

The **FOODSHIFT** 2030 project aims to initiate a population-led transition of the European food system towards a low-carbon, circular future. The transition includes a shift toward a plant-based diet with less meat, while improving food and nutrition security, reducing greenhouse gas emissions, and revitalizing urban-rural relationships. Characteristic of the project is a strong multi-actor consortium with 31 partners from local governments, SMEs, NGOs, universities, research institutions and network partners.

Funding:
European Commission | Horizon 2020 European Union funding for Research & Innovation

Find out more:
https://foodshift2030.eu/event/innovation-conference/

New contract models for agriculture

Co-design of new contract models for innovative agri-environmental climate protection measures and for the valorization of public environmental goods: In the **CONTRACTS2.0** project, contract solutions are being developed jointly by practice partners and scientists in a co-design process in order to offer agriculture a higher incentive for environmentally compatible production and at the same time enable them to manage their operations adequately. To this end, eleven innovation labs have been implemented in nine European countries.

Funding:

European Commission | Horizon 2020 European Union funding for Research & Innovation

Find out more:
https://www.project-contracts20.eu/

AgroscapeLab Quillow (ASLQ)

The landscape laboratory **AGROSCAPELAB QUILLOW (ASLQ)** provides interdisciplinary landscape research with an excellent infrastructure that enables field experiments spanning time and / or space. The landscape laboratory is used for data collection in order to evaluate the complex processes with modern data analysis methods. Together with cooperation partners, ZALF is developing ASLQ into a unique and diverse living lab for joint research on issues in constant exchange with the target groups of practice, politics and society.

Find out more:
https://comm.zalf.de/sites/aslq/SitePages/Home.aspx

patchCROP

The landscape experiment **PATCHCROP** serves to investigate abiotic and biotic effects and interactions of small-structured field units and, in particular, crop rotations and management adapted to the site-specific heterogeneity. Thus, patchCROP is an important infrastructure for ZALF living labs on diversification and multifunctional cropping systems. Joint research and development in living labs regarding agricultural landscapes represents a new and modern research mode to advance central fields of action in agriculture between science, practice and other stakeholders.

Find out more:
www.landschaftslabor-patchcrop.de

Contact the Transfer Office and Science Communication

- First point of contact for questions regarding transfer at ZALF
- Dialogue and network management
- Monitoring, documentation, reports

Contact

- You need information about transfer at ZALF?
- Are you looking for cooperation partners or experts in the field of agricultural landscape research?
- Do you have a project idea?
- You want to participate in a research project?

Transfer Office
Stefanie Deters
T: +49 (0)33432 | 82 351
M: transfer@zalf.de

Public Relations and Press
Hendrik Schneider (Lead)
T: +49 (0)33432 | 82 242
M: public.relations@zalf.de

More information about transfer at ZALF:
https://www.zalf.de/en/transfer

Figure 4: Service portfolio of the ZALF Transfer Office, © ZALF

Imprint

Publisher
Executive Board: Prof. Dr. Frank Ewert,
Martin Jank
Leibniz Centre for Agricultural Landscape
Research (ZALF) e. V.
Eberswalder Straße 84
15374 Müncheberg
T +49 (0)33432 | 82 351
E transfer@zalf.de
Editors
Hendrik Schneider, Stefanie Deters,
Katharina Brüser
Layout
Hannes Schulze, Nur Mut (design.nur-mut.com)
Font
Maison
Maison Mono (www.onlinewebfonts.com)
Copy Editing
Kristina Backhaus, Tom Baumeister
Fotos
Cover: Monique Luckas/ZALF · p.05, p.13, p.25,
p.27 Hendrik Schneider/ZALF · p.06 Moritz Re-
ckling/ZALF · p.07, p.15 Sibylle Krickel/ZALF
· p.07 Friederike Schwierz/ZALF · p.08 Babette
Münzeberger/ZALF · p.08 Sandra Lerche/ZALF ·
p.09 Katarina Sikuljak/Unsplash (edited) · p.09
Lausitz360/Pixabay.de · p.10 agrathaer GmbH
· p.11 Schaumann 1950 · p.11 Schaumann 1950
· p.13 Götz Uckert/ZALF · p.14 Marta Kifleab
· p.15 Tom Baumeister/ZALF · p.19 Fraunhofer
ISE · p.21 Jarno Müller/ZALF · p.21 Maria Bus-
se/ZALF · p.22 Paul Pack/WWF · p.23 Veronika
Fick-Haas · p.23 MLUK Brandenburg · p.24 suze/
photocase.de · p.24 Dan Meyers/Unsplash.com
· p.26 TU Dresden · p.26 @andereLampe · p.27
Christoph Herbort-von Loeper/Leibniz-Gemein-
schaft · p.27 Lea Nitz/ZALF

ZALF, November, 2022

Online
Twitter: @zalf_leibniz
Website: https://www.zalf.de/en
Blog: https://www.quer-feld-ein.blog

www.zalf.de