

## Partners in the BonaRes Centre for Soil Science



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## BonaRes

BonaRes stands for Soil  
as a Sustainable Resource for the  
Bioeconomy. It is a funding measure of the German  
Federal Ministry of Education and Research (BMBF) and part  
of the national research strategy "BioEconomy 2030".

## The BonaRes Centre for Soil Science...

- is a collaboration of research institutes  
that aims to establish a platform for  
interdisciplinary soil science.
- develops a web-based infrastructure to  
synthesize the available knowledge on  
soil processes and soil functions.
- acquires and provides soil-related  
research data for scientists and decision  
makers.
- develops systemic models to predict  
the impact of soil management on soil  
functions.
- facilitates science-based assessment and  
governance of soil management within a  
sustainability context.
- supports and integrates the collaborative  
projects of the BonaRes funding pro-  
gramme.



**BONARES**  
Centre for Soil Research



## Soil as Sustainable Resource for the Bioeconomy The BonaRes Centre for Soil Research



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## Platform for interdisciplinary soil science

The BonaRes Centre supports and integrates the work conducted in the collaborative projects of the BonaRes funding measure. It promotes networking with national and international initiatives and institutions. It organizes the contact with practitioners and policy makers. Via events, web services and public relations, it communicates the relevance of soils for society and the environment in general and for the bioeconomy in particular.

## Knowledge on soils and soil functions

Soil provides essential functions: it supports plant growth, regulates the Earth's climate and water balance, and harbours a myriad of organisms and their activities. To maintain these soil functions and to ensure high yields in the long term, we need to better understand how tillage, cropping-system rotations, fertilization and pest control affect soil functions. To this end, the BonaRes Centre collects and structures existing knowledge about soils in a so-called "knowledge portal". This knowledge is further integrated into models that predict how soil management impacts the complex interactions of physical, chemical and biological soil processes.

## Research data

The BonaRes Data Centre compiles soil research data from the BonaRes collaborative projects, long-term agricultural field experiments and other sources and makes these data accessible. The data repository is structured according to spatial, temporal and thematic criteria and is compatible with international data infrastructures. Detailed information concerning the collected data is freely available via the corresponding metadata.

## Services for policy, science and practice

Knowledge Portal, Modelling and Data Center provide the basis for the development of impact assessment tools and specific market and governance tools to derive recommendations for soil management. The BonaRes Service Portal will provide information on tangible products and decision-support tools concerning sustainable soil management for practice, planning and policy making as well as informing about research developments within the BonaRes programme.

## Contact information

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