

Photo: Max Barattini/ Fotolia



Photo: Stephan Kunz/ KIAG



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Weather data is directly associated with activities in the field and can be compared and analysed. Numerous parameters can be analytically related to each other in different combinations. This also applies to economic data.

Further information on agri@bonn can be found on the following link: <https://vimeo.com/227076087>

agri@bonn

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agri@bonn

Applications for agriculture

agri@bonn – our offer for you!

We combine professional competence & ICT solutions

Demands on the agriculture sector are becoming ever more complex. Farmers in Africa need to increase their production by 70% in order to feed the continent's growing population. Farmers in Asia have to react to new consumer behaviour and corresponding food standards. In South America, farmers are striving to meet the growing market demand for monocultures such as coffee and cocoa. Across all continents farmers face the challenges of adapting to climate change and protecting natural resources. Access to weather data, salient market information and the visualization of best practice technologies, tips for plant protection and simple tools for efficient production planning can help improve the daily work of farmers. The Bonn based consortium of AFC and KIAG has taken on this challenge. Drawing on over 40 years' experience in agriculture world-wide, as well as our expertise in information and knowledge transfer using Information technology (IT) through simple applications, we have developed the agri@bonn software.






Classical extension and advisory tools have been coupled with digitalization, in order to provide farmers with direct and fast support. A number of functionalities have been and are being continuously developed. Farmers are not the only target group. Technicians and farmer organisations require data analysis in order to make informed decisions. Governments and international organisations want to make precise decisions in order to tackle the challenges of the agriculture sector. Monitoring and evaluation can be independently generated in order to demonstrate effectiveness. IT offers a number of ways to support processes and facilitate functions.

The base-version of the software agri@bonn is available to all users. Further functions in the extended and advanced versions are tailor-made for customers.

agri@bonn

Software System - agri@bonn

Tailor-made ICT solutions

	Smallholders/ Farmers	Technicians/ Extension Workers	Government/ International Organisations
	Basic Version	Extended Version	Advanced Version
Weather Data 	Automated weather data, grid structure and forecast	Local sensors for rainfall, soil humidity & soil temperature	Satellite and innovative technologies on higher scale
Market Data 	Publically available market data	More disaggregated market data collected by local & regional enumerators or key farmers	Analysis and aggregation of market data
Best Practice 	Production process and required criteria throughout the technical supply chain supported by learning backside Livestock and crop production	Specific visualized information to support capacity building within production cycle (e.g. plant protection, pest management, technical innovations on climate adaption)	Introduction of innovative technologies (e.g. seeds and other input) and analytical comparison on regional and national level
Economics – farm and crop-based 	Farming: Economic planning related to land size, crop, input, equipment & labor. Viehwirtschaft: animal type, feed, medication, labor & equipment Enterprise Resource Planning (ERP): combines all resources and finances for profit & loss balance	Aggregation for farmer associations Data base for agricultural credit applications and standards for business plans	Provision of aggregated data from micro level including environmental sustainability Data basis to define instruments for agricultural finance
Traceability 	Traces all activities on a dynamic crop cycle throughout the entire chain. QR labelling for market entry is optional	Aggregation of comparable data to assure quality control for farmer associations	Aggregation of comparable data to assure precise overview of production and generation of comparable reports

agri@bonn moreover automatically analyses data received with respect to qualitative and quantitative aspects. Resulting findings are then communicated to the different users.