

# Workshop

## Digital applications in small-scale irrigation

### Rationale

Digital applications for improving efficiency and for monitoring agricultural water use play an increasing role in the debate on small-scale irrigation in international cooperation. On one hand, technical processes for minimizing irrigation water and reducing the use of fertilizers as well as for energy savings in irrigation technology can be supported. On the other hand, apps can often facilitate management processes and the monitoring of irrigation and operating systems. However, up to now, digital applications that specifically target small-scale irrigation have only been used sporadically and pilot-like in GIZ projects.

As part of a market analysis\*, we are investigating the potential of digital applications for small-scale irrigation. The aim is to identify and structure existing experiences and, based on current developments and challenges, to define further requirements for digital applications in this area.

**DATE AND PLACE** Thursday, December 19 2019 at Eschborn GIZ Headquarter, meeting room ED 20014 - skype for business link will be provided

**PARTICIPANTS** members of the GIZ working group water and agriculture, experts from GIZ agriculture and water sector projects, freelance consultants, companies working on the interface water and agriculture, experts from the GIZ sector networks *Mediterranean Environmental Network*, *Sector Network Rural Development* and *Services on Water and Sanitation*

### Agenda

9:30 – 10:00	<b>Welcome and Introduction</b>	tbc
10:00- 10:45	<b>Market analysis for digital applications in small-scale irrigation</b> Presentation and discussion of the findings of the market analysis – <i>What applications are available and where are needs and gaps</i>	Ralph Elsässer (Geo Solutions) Moderation: Matthias Berthold (GIZ – SV Sustainable Agriculture)

\* The market analysis is supported through the Competence Centers for Agriculture and for Water, SV Sustainable Agriculture, SV Sustainable Waterpolicy, Green Innovation Centres for the Agriculture and Food Sector and the Project Promotion of the productive agriculture, Niger

<p>10:45- 11:15</p>	<p><b>Stories from the projects</b></p> <p>Short flash lights from selected GIZ projects - <i>Things to consider when implementing digital applications in small-scale irrigation</i></p>	<p>Projects tbc.</p>
<p>11:15- 12:00</p>	<p><b>Group Discussion(s)</b></p> <p>Group Work. <i>How to reconcile “Digital by default” and small-scale irrigation?</i></p> <p><i>What are preconditions for successful ICT applications in small-scale irrigation?</i></p> <p><i>What skills are needed on different levels?</i></p> <p><i>What are different roles of various actors?</i></p>	<p>Your input needed</p>
<p>12:00- 12:15</p>	<p><b>Where do we go from here? - Hackathon on Water and Agriculture</b></p> <p>Highlights from the Hackathon “Trop d’eau, trop peu d’eau” in Marrakesch – <i>What can be done to make smart irrigation more accessible</i></p>	<p>Daniel Däschle (GIZ - Competence Centre Water, Wastewater, Waste Management)</p>
<p>12:15- 12:45</p>	<p><b>Next Steps</b></p> <p>Discussion of a (joint) follow-up</p>	<p>Matthias Berthold (GIZ)</p>
<p>From 12h45</p>	<p><b>Snacks and Drinks</b></p> <p>Q&amp;A with the presenters</p>	