

# SECURING WATER FOR FOOD:

A GRAND CHALLENGE  
FOR DEVELOPMENT

## SWFF Innovators



Kingdom of the Netherlands



science  
& technology

Department:  
Science and Technology  
REPUBLIC OF SOUTH AFRICA



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Adaptive Symbiotic Technologies - BioEnsure

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A small black boat is positioned in a river, carrying a large green and gold water pump. The pump is mounted on a metal frame. A red rope is attached to the front of the boat, extending across the water. The riverbank is covered in lush green grass. The water is dark and shows some ripples and small waves.

aQysta - Barsha Pump

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**Aybar - Broad Bed and Furrow Maker (BBM)**



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## FutureWater - Flying Sensors

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International Center for Biosaline Agriculture - Salt Tolerant Quinoa



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MyRain LLC - Rainmaker

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**Practical Action - Sandbar Cropping**



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Reel Gardening - Biodegradable Seed Tape



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**World Hope - Affordable Greenhouses**



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Meat Naturally Pty - EcoRangers

A man wearing a red baseball cap, a light blue short-sleeved button-down shirt, and grey trousers is crouching in a vegetable field. He is looking towards a large, circular, weathered concrete tank with a central hole and a metal handle. A blue pipe with a valve is connected to the side of the tank. The field is filled with rows of green leafy vegetables, likely cabbages, growing in raised beds. The background shows more of the field under bright daylight.

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**Green Heat Uganda Ltd. - Slurry Separation System**



## ICU Peru - Irrigation Scheduling System

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A photograph of a man and a woman in a rural setting. The man, on the left, is wearing a brown t-shirt with white embroidery and dark pants. The woman, on the right, is wearing a yellow and blue patterned dress and a yellow headscarf. They are both looking at a smartphone held by the man. The background shows a clear blue sky and some greenery.

**Ignitia AB - Weather Model**

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**Si Technologies - NewSil**



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**Water Governance Institute - Aquaponics**

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MIT - Jain

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**ITIKI - Early Drought Prediction Tool**



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**Lal Teer Seed Ltd. - Salt Tolerant Vegetables**

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Hydroponics Africa Ltd. - Simplified Hydroponics Services

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## MimosaTEK - Platform for Precision Irrigation



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**SkyFox Ltd. - Aquaculture Ponds**

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Naireeta Services - Bhungroo

A photograph of a man and a woman sitting in a field of young lettuce plants. The woman on the left is wearing a light-colored woven hat and a blue denim jacket, smiling broadly. The man on the right is wearing a light grey long-sleeved polo shirt and is also smiling. They are surrounded by rows of small lettuce plants supported by wooden stakes. The background shows more of the field and some palm trees under a cloudy sky.

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## Project Alba - Contract Farming and Advisory



**University of Malawi - Flask Wall Mushroom Growing House**



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Zero Discharge Desalination (ZDD) - University of Texas - El Paso



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**MetaMeta - Saline Potatoes**

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ICU Jordan - Groasis Waterboxx





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Centre for Environment Concerns - SWAR



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CSDDES - M-Fodder

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**ICU Tunisia - Buried Diffuser**

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Islamic Relief Kenya - Agrosolar Irrigation

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MetaMeta - Waterpads

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**ARCADIS**



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Deutsche Welthungerhilfe - Greenhouse



The image shows three blue, oval-shaped floating water filters, known as Lily pads, in a pond. Each filter has a fine, grid-like texture and is designed to filter water. The filters are arranged in a line, with one in the foreground and two behind it. The water is dark blue, and the background shows green foliage reflected in the water. A blue box in the top right corner contains the text 'SECURING WATER FOR FOOD: A GRAND CHALLENGE FOR DEVELOPMENT'.

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Puralytics - Lilypad

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TAHMO - Weather System



Wageningen University - Salt Tolerant Quinoa