ACHIEVING DUALITY OF WATER SAVINGS AND FOOD SECURITY BY TRANSFORMING VALUE CHAINS

Monday, 23rd November 2020 | 8:30 – 10 AM CET
You have been automatically muted. Please raise your hand if you would like to speak during the Q&A session.

Please use camera only when you are speaking.

The session will be recorded; a link will be circulated later.

Please use the Q&A window for your questions.
## INTRODUCTION AND CONTEXT/SCENE SETTING

**Welcome and Opening Remarks**

*Karin Krchnak, Program Manager, 2030 WRG*
- Strategic focus of 2030 WRG in transforming value chains

**2030 WRG’s Vision for Transforming Value Chains**

*Joy Busolo, Senior WRM Specialist, 2030 WRG Africa*
- The case for transforming value chains and 2030 WRG’s engagements in this space
- The need to reset value chains due to COVID-19

### MULTI-STAKEHOLDER PERSPECTIVES - Moderator

<table>
<thead>
<tr>
<th>Time</th>
<th>Panelist 1</th>
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<tr>
<td>10 mins.</td>
<td><em>Dr. Aruna Rachakonda, Marketing Director, South Asia, Corteva Agriscience</em></td>
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<td>10 mins.</td>
<td><em>Dr. Joanna Kane-Potaka, Assistant Director General - External Relations at the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT-IN)</em></td>
<td>10 mins</td>
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<th>Time</th>
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<td>15 mins.</td>
<td><em>Rochi Khemka, Global Partnerships Coordinator, 2030 WRG</em></td>
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<td>10 mins.</td>
<td><em>Eng Vincent Kabuti, Deputy General Manager, Research Planning and Strategy, National Irrigation Authority</em></td>
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<td>10 mins.</td>
<td><em>Mr. Paul Nicholson, Vice President, Head of Rice Research and Sustainability at Olam International Limited</em></td>
<td>10 mins</td>
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<tr>
<td>15 mins.</td>
<td><em>Rochi Khemka, Global Partnerships Coordinator, 2030 WRG</em></td>
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<td>5 mins.</td>
<td><em>Ajith Radhakrishnan, Senior WRM Specialist, 2030 WRG India</em></td>
<td>5 mins</td>
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Karin Krchnak

Program Manager

2030 Water Resources Group
ABOUT 2030 WRG

By 2030, global demand for fresh water will exceed supply by 40%. In many areas, water has already run out.

The 2030 Water Resources Group forges multi-stakeholder partnerships, or MSPs, to collectively manage this scarce resource for the benefit of people, ecosystems, and economies.

TRANSFORMING VALUE CHAINS

PROMOTING CIRCULAR WATER ECONOMIES

IMPROVING RESILIENCE PLANNING
ABOUT 2030 WRG

2030 WRG forges multi-stakeholder platforms, or MSPs, to collectively manage this scarce resource for the benefit of people, ecosystems, and economies.

The partnership supports country-level collaboration designed to unite diverse groups with a common interest in the sustainable management of water resources.

809 PARTNERS (PUBLIC, PRIVATE, CIVIL SOCIETY)

14 COUNTRIES / STATES + 3 NEW JURISDICTIONS ENGAGED

~ US $ 1 BILLION IN WATER FINANCING MOBILIZED

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Hosted by
WORLD BANK GROUP

For more information, visit: https://2030wr.org
Joy Busolo
Senior Water Resources Management Specialist
2030 Water Resources Group
OVERVIEW
Transforming Value Chains (TVC) a strategic priority for 2030 WRG with a focus on enhancing the productive use of agriculture water, reducing runoff pollution, and increasing farm productivity and income. Most of our multi-stakeholder platforms (MSPs) therefore include an agriculture water workstream.

THE WHY
• Water is central to all economic activity. By 2030, the world will need 40% more water than it does today.
• Agriculture, which is at the nexus of livelihoods, environment, and global food security - accounts for ~ 80% of water withdrawals.
• Improving water-use efficiency is crucial to closing the gap.

RESULTS
Improving water-use efficiency and creating market opportunities for farmers
• 11 countries/states
• 2.8 million hectares
• 150,000 farmers
• 367 million cubic meters of freshwater abstraction avoided per year
2030 WRG’S VISION FOR TRANSFORMING VALUE CHAINS
SCALING WATER EFFICIENT TECHNOLOGIES - BANGLADESH

Introducing Water-Efficient Technology Project

Objective: Train farmers on water-saving irrigation methods to reduce demand for irrigation water by 20% while also increasing the farmers’ net income.

Beneficiaries: 10,000 farmers

Results: To date, the project has trained 6,000 farmers, formed 70 farmer hubs, and encouraged changes in agricultural practices that have resulted in water offtake savings of 3.6 million cubic meters – the equivalent of 1,440 Olympic-sized swimming pools.
Objective: Drive water-efficient production of high-value agriculture and horticulture production; support the development of ancillary infrastructure to introduce efficiencies in the value chain, and; promote sustainable models of intervention linked to farmer livelihood improvement and private sector engagement.

Beneficiaries: 15,000 farmers

Results: Having successfully rolled out drip irrigation at 24,000 hectares in the Ramthal area, the project is poised to scale up to more than 200,000 hectares across five projects.
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<th>Country</th>
<th>Project Description</th>
<th>Collaboration with</th>
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| Kenya    | **Objective:** Formulate new business models to dismantle the barriers to accessing climate-smart irrigation encountered by smallholders in Kenya. <br>**Beneficiaries:** 10 farming groups across six counties linked to the World Bank-supported National Agricultural and Rural Inclusive Growth Project being implemented by the Government of Kenya. | World Bank Agriculture Global Practice  
*Implementing Partners: SNV Netherlands & Wageningen University and Research* |
| Tanzania | **Objective:** Generate a pipeline of financeable irrigation projects. <br>**Beneficiaries:** 3,000 farmers  
**Results:** Three project proposals ready to be submitted to both the Tanzania Agricultural Development Bank and commercial banks for financing | World Bank Water Global Practice  
*Implementing Partners: Tanzania Agricultural Development Bank, Kilimanjaro Water Stewardship Platform, PASS, FSDT, TAHA, & Rokolto* |
| Rwanda   | **Objective:** Assess the SSIT Subsidy Program implemented by GoR. Aim is to make policy and implementation reforms and develop new financing mechanisms to scale SSIT. | World Bank Water in Agriculture Global Solutions Group; International Finance Corporation (IFC); Government of Rwanda (GoR) |
3x3 model for Transforming Value Chains

- **Three Geographies:** Africa, Asia, and Latin America
- **Three Crop Value Chains:** Rice, coffee, and sugar
- **Three-dimensions:** Farmer Led Irrigation Development (FLID), Post-harvest value addition and Strengthening supply chains

- **Farmer-Led Irrigation Development at Scale:** Achieving Dual Outcomes of Savings & Safety
- **Post-Harvest Value Addition:** Reducing Vulnerabilities Through Increased Access to Credit
- **Strengthening Supply Chains:** Leveraging Technology-Enabled Innovation
Benefits from sub-surface drip irrigation in rice from Arsenic-contaminated regions

1. Groundwater + Flood Irrigation in Rice

   - Groundwater over-draft increases Arsenic content
   - Arsenic in Grains: 200-440 ppb (INR) 200-700 ppb (BAN)
   - US-FDA: "Arsenic concentration not to exceed 100 ppb in infant rice cereal"
   - Raw Rice
     - Cereals
     - Snacks
     - Others
     - Pasta
     - Rice bran oil

2. Groundwater + Subsurface Drip in Rice

   - 32 Million litres/acre
   - 9 Million litres/acre
   - 40-60% lesser water demand
   - Rice roots do not submerge and helps reduce the arsenic uptake by around 90%

   - Baby-grade cereals
   - Additionality in water savings
   - Climate co-benefits (↓ GHG)
   - Further reduction via agronomy
   - Reduced risks in supply chains

Logos of Coca-Cola, PepsiCo, and Nestlé
Within the 3x3 model, 2030WRG will be incorporating digital technology across the entire value chain.
Dr. Aruna Rachakonda
Marketing Director - South Asia
Corteva Agriscience
Dr. Joanna Kane-Potaka
Assistant Director General - External Relations
International Crops Research Institute for the Semi-Arid Tropics (ICRISAT-IN)
Moderated Q&A – Part 1
Rochi Khemka
Global Partnerships Coordinator
2030 WRG
Eng. Vincent Kabuti
Deputy General Manager, Research and Planning
Kenya National Irrigation Authority
Mr. Paul Nicholson
Vice President, Head of Rice Research and Sustainability
Olam International Limited
Moderated Q&A – Part 2
Rochi Khemka
*Global Partnerships Coordinator*
2030 WRG
Ajith Radhakrishnan
Senior WRM Specialist
2030 WRG India
• MSP platforms can help countries close the gap between water demand and supply by transforming value chains sustainably, working with stakeholders.

• Scaling-up local innovations in financing, technology and governance to transform value chains can be achieved through a 3x3 approach.

• Opportunities for post-COVID growth and recovery exists in the convergence, capacity development (audits, use-efficiencies and governance) and nurturing market-centric approaches at landscape level.

• FLID can transform rainfed farmers into profitable irrigators while supporting them to intensify production.

• Partnerships are key to achieve landscape level impacts.