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Changing Lives in East Africa

Scaling and accelerating the water security of small-scale farmers

An IWMI program

March 6, 2024



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The water security crisis in East Africa

- The climate crisis is undermining East Africa's water security.
- Less reliable rainfall, frequent droughts and destructive floods are putting intense pressure on agriculture and livelihoods.
- 40 million people across East Africa lack food security.
- In 2022, drought and water insecurity displaced 13 million people.
- **Without water security, nothing is secure.**





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A solution: Farmer-led irrigation development (FLID)

- **Irrigation needs to expand drastically in East Africa** to keep up with rising water demands from food, energy, livelihoods and biodiversity.
- FLID lets **farmers develop and invest in their own small-scale irrigation systems** based on their own needs.
- The **benefits of FLID** include:
 - Increased incomes
 - Dietary diversity
 - Climate resilience
 - Multiple-use water access



Challenges affecting FLID design and implementation

Uncoordinated action

- Fragmented program and project design.
- Uncoordinated policy development and implementation across sectors.

Lack of data and knowledge

- Fears of increasing water insecurity through irrigation.
- Insufficient data and knowledge to enhance targeting of FLID.

Financial barriers

- Public financing schemes alone are insufficient.
- Barriers in the enabling environment.

Lack of women and youth involvement

- Unequal access to water resources.
- Unequal access to technologies, financing and economic opportunities.



Changing Lives in East Africa (CLEA): A transformative approach to FLID

- **CLEA will build farmers' resilience to climate change and water risks by scaling innovations in FLID in East Africa.**
- We will achieve this with **science-based collective action** – co-creating solutions with governments, the private sector, farming communities, national development banks, local commercial banks, youth groups, entrepreneurs and research and innovation organizations.
- We will work in **Ethiopia, Kenya and Uganda**, starting in one country and gradually building to work simultaneously in all three countries.
- Through **multi-stakeholder platforms**, we will co-create solutions that **unleash the full development potential of FLID**.



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Changing Lives in East Africa (CLEA): A transformative approach to FLID

- CLEA will be led by the **International Water Management Institute (IWMI)**, a founding partner of C4W.
- IWMI has **40 years' experience testing and scaling water innovations**, an organizational presence in 15 countries and a professional network spanning over 50 countries.
- **IWMI will drive collective action partnerships** to harness the expertise of irrigation technology providers, WASH advocacy groups, agribusinesses and knowledge institutions.



Changing Lives in East Africa (CLEA): A transformative approach to FLID

- Through capacity-strengthening efforts, IWMI and partners will **raise awareness of the benefits of FLID** for water security.
- IWMI's demonstrable commitment to the **needs of women and young people** will guide program design, development and implementation.
- Collective action by IWMI and partners will allow for **a more holistic approach** to improving water security.
- Research partners will help **close information and data gaps** and provide decision-makers with the evidence they need to adopt inclusive and comprehensive policies and governance strategies.

Our objectives

- 1 Co-develop socio-technical innovations
- 2 Improve water data
- 3 Strengthen the finance ecosystem
- 4 Enhance environmental, social and corporate water governance



Our objectives

1

Co-develop socio-technical innovations

- CLEA will **co-develop innovations** to improve access to, and uptake of, water solutions to meet agricultural, domestic and ecosystem needs.
- The program will build on **IWMI's adaptive scaling and partnership model** to strengthen supply chains, incentivize the private sector, lower investment risks and build a stronger enabling environment for water innovations.
- The program will help people, particularly **women and young people, access and adopt water innovations.**

1

Co-develop socio-technical innovations

- **Why?** Water security innovations are held back from going to scale by fragmentation of action and investment.
- **What?** Develop a pipeline of socio-technical innovations for irrigation and agricultural water management; and apply adaptive scaling to promote inclusive business models for farmers and communities.
- **How?** Adaptive scaling will incentivize the private sector to strengthen farming supply chains and offtake markets as well as agricultural water stewardship.
- **Who?** IWMI will work with farmers, private sector partners across the irrigation and agricultural value chains, WASH, food system actors, federal and local government institutions and financing institutions.
- **Results indicator:** Number of water innovations accessed by farmers (gender and age disaggregated); number of socio-technical water innovation bundles developed; volume of water used/replenished by farmers; number of credits accessed or investments made by farmers and communities.





Our objectives

2

Improve water data

- The program will **improve data to enhance water governance, planning and investments** for sustainable and equitable FLID.
- CLEA will build on the success of IWMI's Digital Innovation for a Water Secure Africa Initiative to **create a dynamic information system to enhance the targeting and monitoring of water innovations**.
- This will provide small-scale farmers with **water solutions tailored to their specific needs**.
- Better water data will improve **recognition and early warning of current and future water risks**.

2

Improve water data

- **Why?** Water security and farmer resilience requires assessments of water availability, use and storage and an understanding of current and future water risks.
- **What?** Build a dynamic information system to enhance the targeting and scaling of water innovations and monitor the impacts of collective action on scaling of water innovation, allowing for adaptive management over time.
- **How?** Co-design through partnerships across sectors and collaborative exchange of data and information. CLEA will leverage disruptive technologies, including AI, to fill data gaps, as well as tap private sector water data.
- **Who?** IWMI will work with partners like Digital Earth Africa, local governments and private sector irrigation technology suppliers.
- **Results indicator:** Number of private sector partners (and water data information) leveraged to the public sector; a working water dashboard for monitoring FLID interventions and providing information on water availability, use and replenishment; number of partners using the dashboard for FLID investment programming and monitoring.





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Our objectives

3

Strengthen the finance ecosystem

- CLEA will **strengthen the finance ecosystem for the private sector** in irrigation and climate-smart agriculture.
- The program will **lower financial barriers** that prevent the rapid implementation of water innovations.
- CLEA will **co-develop a hub for blended finance** to stimulate private-sector investment.
- The program will **provide technical assistance to the public and private sectors** to monitor, report and verify results.
- More investment will **help unlock the water security and climate resilience benefits** of FLID for farmers.



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3

Strengthen the finance ecosystem

- **Why?** Financing water innovations for FLID and for climate adaptation falls short of needs, with limited impacts on water security at scale.
- **What?** Co-develop a hub for blended financing to stimulate private sector investment in water innovations; technical assistance to the public and private sectors to implement investments and monitor impacts.
- **How?** Evaluate gaps in current financing systems, identify available climate and water financing risks and options, and define mechanisms to align public investment across sectors to close gaps.
- **Who?** IWMI will work with farmers, private sector partners, food system actors, federal and local government institutions and financing institutions.
- **Results indicator:** Amount of investment attracted for water innovations by the private sector; amount of credit released to farmers and communities for water innovations; amount of water investments made by the private sector.





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Our objectives

4

Enhance environmental, social and corporate water governance

- The program will **enhance water governance** using knowledge and inclusive partnerships to operationalize collective action on FLID across sectors and scales.
- CLEA will build on **IWMI's innovative internship and innovation grant model** to **leverage multi-stakeholder platforms** and build capacities.
- We will **strengthen collective action partnerships** to tackle East Africa's water security crisis.



4

Enhance environmental, social and corporate water governance

- **Why?** Improved water planning, governance, investments and monitoring is essential for water security.
- **What?** Improve capacity and strengthen collective action partnerships with internships, innovation hackathons, business incubation, innovation commercialization, demand-driven action research and knowledge integration into university curricula.
- **How?** Use multi-stakeholder dialogues to improve capacity, involve the private sector, prioritize internship and innovation activities, and create co-ownership of knowledge across all stakeholders.
- **Who?** IWMI will work with knowledge institutions, farmers, private sector partners across the irrigation and agricultural value chains, food system actors, federal and local government institutions and financing institutions.
- **Results indicator:** Number of innovations commercialized with private sector; number of interns placed; number of jobs created; and number of university curricula changed.





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Our targets

- CLEA will use **science-based collective action** to unleash the full potential of FLID.
- We will **build water security for 500,000 vulnerable small-scale farmers** on the front lines of the climate crisis in East Africa.
- Our promotion of water-efficient practices and technologies will **reduce agricultural water use by 10 percent** while lowering risks and enhancing food security.
- We will strengthen financing for water innovations **to leverage \$20 million in public- and private-sector finance**.
- CLEA will ensure water innovations are **accessed, owned and used equally by women, men and young people**.
- **Win-win knowledge partnerships** will catalyze shared action by the public and private sectors to scale water innovations for water security.



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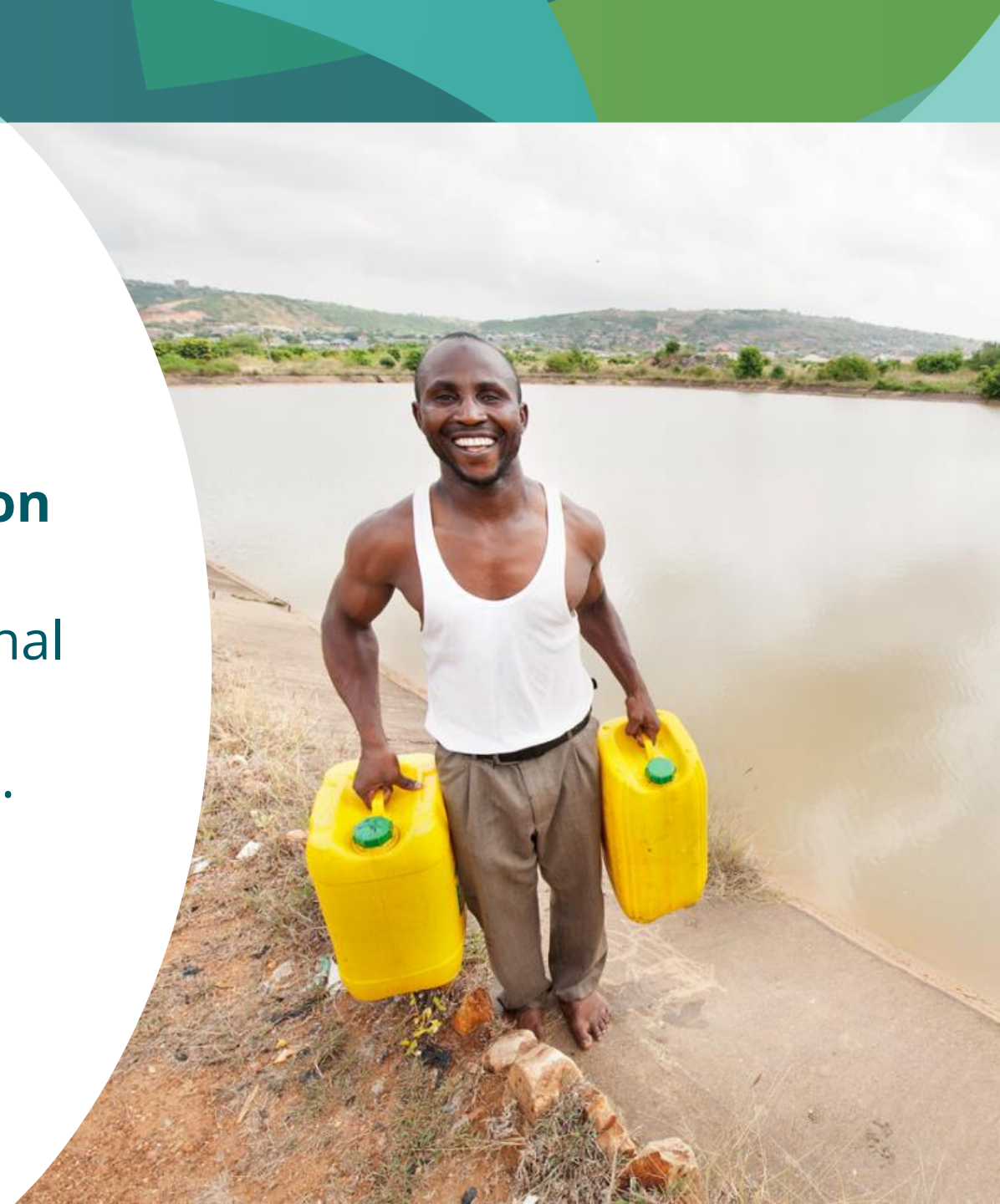
What you can invest in through CLEA

- **Improved food and water security** for East Africa.
- **Climate resilience** for the region's farmers.
- New socio-technical **innovations in irrigation**.
- **Inclusion of women and young people** in water innovations.
- Enhanced **environmental, social and corporate water governance**.
- A stronger **enabling environment** for irrigation and climate-smart agriculture.
- **More data and better knowledge** on water risks in East Africa.



Funding

- Initial seed funding of **\$600,000**.
- Building to an annual budget of **\$3 million per country**.
- Additional **\$1 million** allocated for regional efforts.
- Total budget: **\$21 million** over five years.
- CLEA aims to leverage **\$100 million** in public- and private-sector financing.





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CLEA: Changing Lives in East Africa

- Solving East Africa's water security crisis requires **science-based collective action** to bring together the wide-ranging expertise required to build farmers' resilience to climate change and water risks.
- CLEA is uniquely positioned to **build the multi-stakeholder platforms and unlock the finance** needed to achieve this urgent task.



Together, we will help build a water-secure future for the people of East Africa.