



Vegetable Irrigation for
Climate Resilience

USER INTERFACE PRESENTATION

Version 1.0



✓ VICT – USER INTERFACE

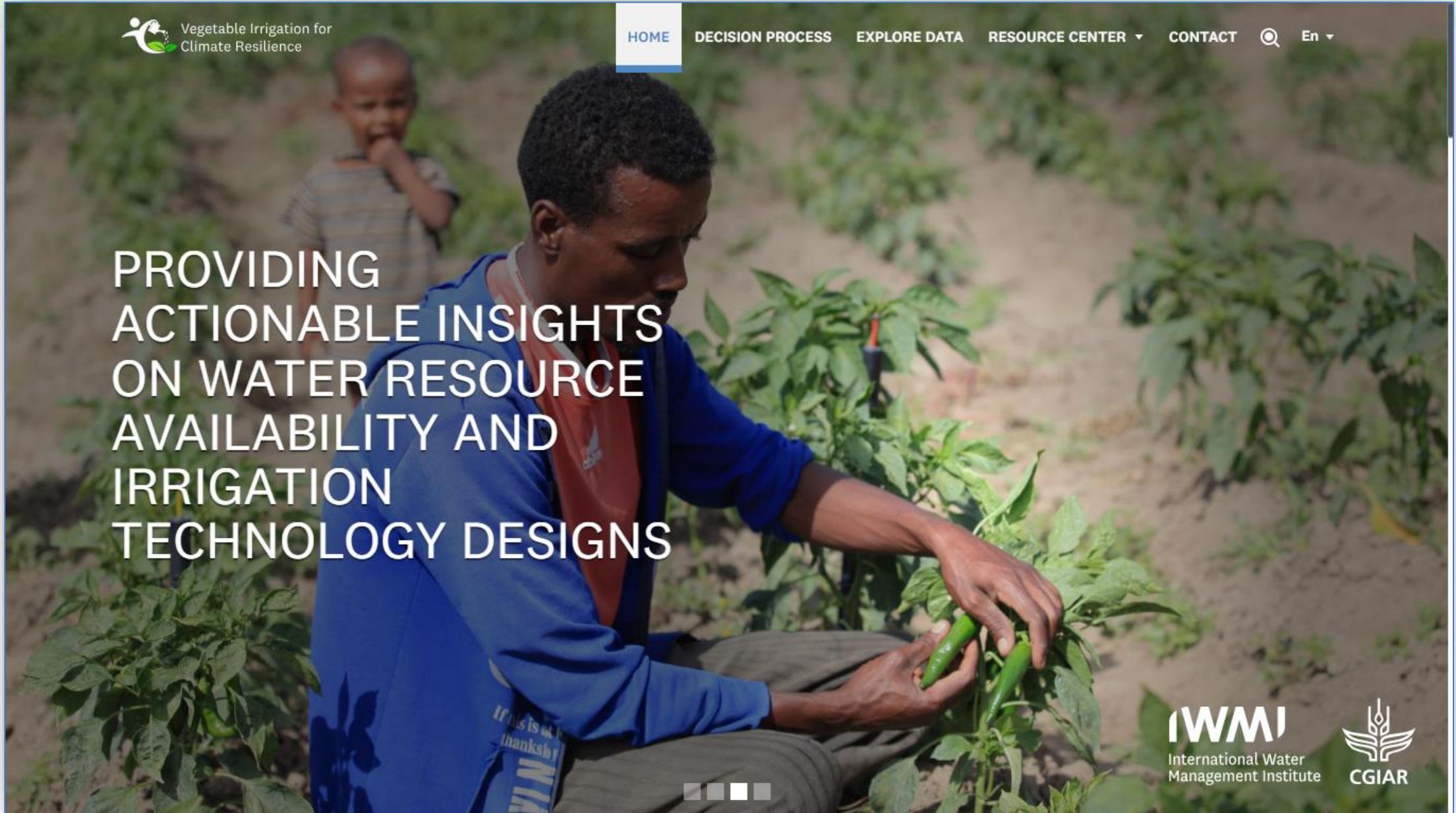
1. Home Page
2. Decision Making
3. Explore Index
 1. Sustainability
 2. Drivers
4. Resource Center
 1. About VIC
 2. Publications
 3. Guidelines and Tools
 4. Videos
5. Contact



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Home Page



A photograph showing a man in a blue long-sleeved shirt working in a field of young green plants, likely chili peppers. He is crouching down, examining a plant. In the background, a small child is standing and looking towards the camera. The setting appears to be a rural agricultural area.

Vegetable Irrigation for Climate Resilience

HOME DECISION PROCESS EXPLORE DATA RESOURCE CENTER ▾ CONTACT En ▾

PROVIDING ACTIONABLE INSIGHTS ON WATER RESOURCE AVAILABILITY AND IRRIGATION TECHNOLOGY DESIGNS

IWM International Water Management Institute

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Why Vegetable Irrigation for Climate Resilience ?

Vegetable irrigation is essential for adapting to climate change and unpredictable weather. Systems like drip and sprinkler irrigation conserve water while ensuring vegetables get the water they need, even during droughts or erratic rainfall. Practices like rainwater harvesting and soil moisture sensors help adjust irrigation based on real-time conditions, boosting resilience. Climate-smart techniques, such as mulching and cover cropping, further improve soil health, retain moisture, and reduce erosion, making vegetable production more sustainable.

Know More

Who is this for?

Humanitarian practitioners integrating vegetables into emergency programs.

NGOs and organizations promoting food security.

Policymakers working on climate adaptation.

Farmers and extension workers using climate-smart irrigation.

Activate Windows
Go to Settings to activate Windows.

Donors and researchers focused on sustainable solutions.

Click on the **Know More** button to get directed to the “Resource Center” module.

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Scroll down to view the **Who is this for?** section.

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Who is this for?

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Policymakers working on climate adaptation.

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Donors and researchers focused on sustainable solutions.

It provides practical tools to address climate challenges and support resilient vegetable production.

Activate Windows
Go to Settings to activate Windows.

HOME PAGE

Scroll down to view the world thematic map.

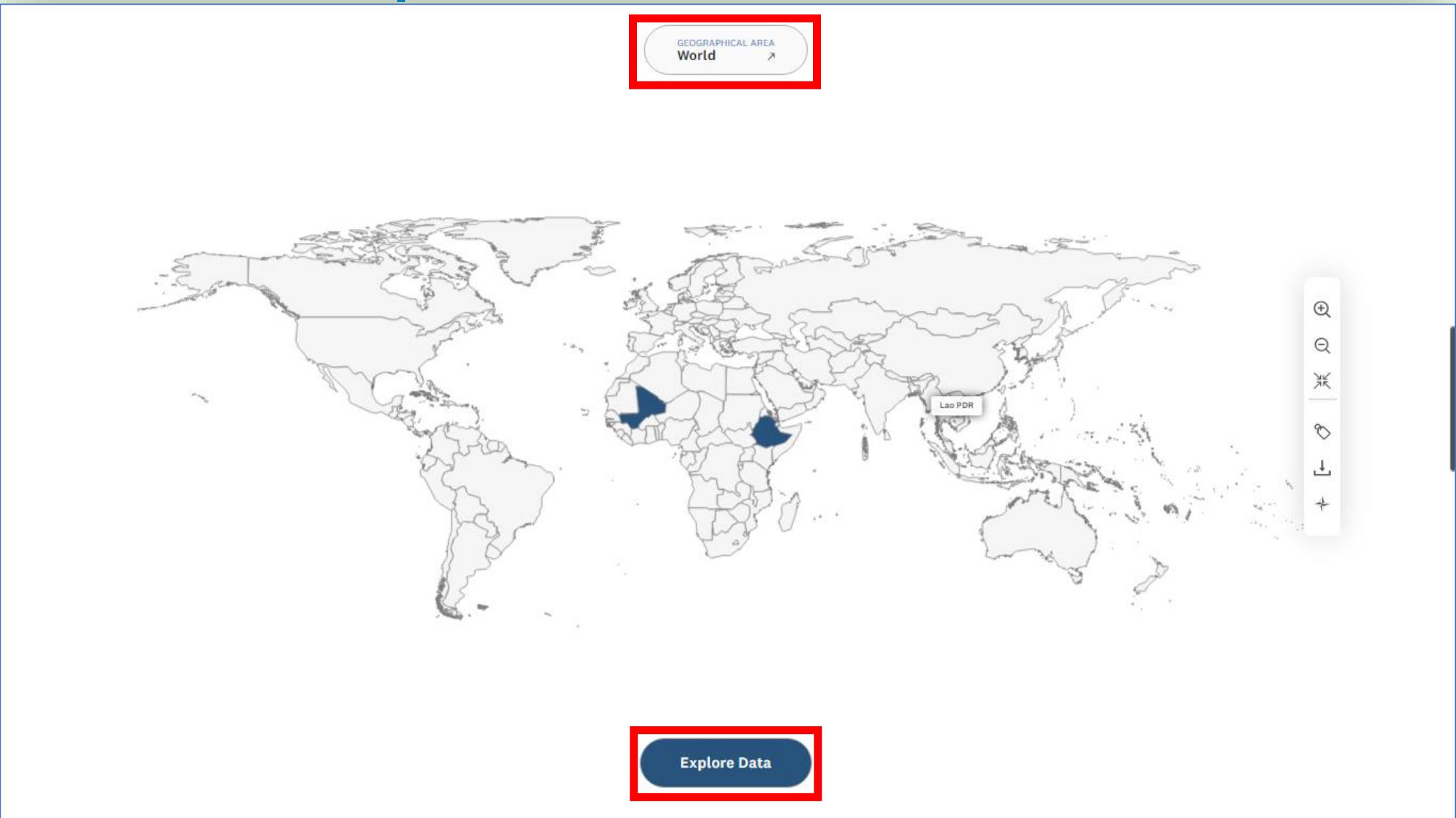


Explore Data



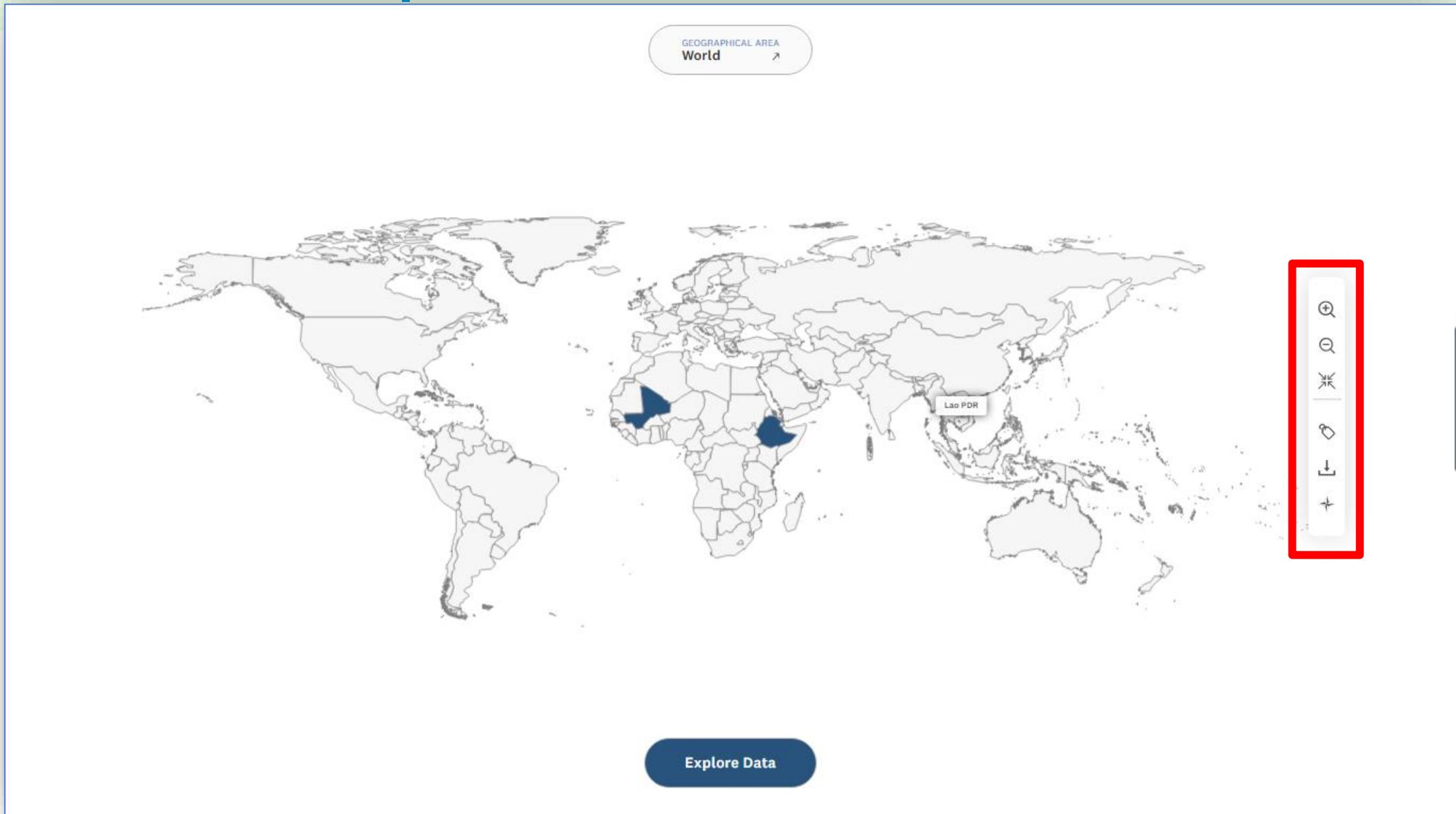
HOME PAGE

Select the **Geographical Area** and click on the **Explore Data** button to get directed to the “Explore Data” module.



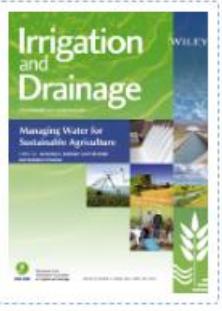
HOME PAGE

Click on the **Map Toolbar** to – Zoom in, Zoom out, Reset, Label(ON/OFF), Download, North symbol(SHOW/HIDE).



Resource Center

Irrigation resource documents serve as invaluable tools for farmers, agricultural professionals, and policymakers seeking to optimize water management practices. These documents compile essential information on various irrigation techniques, technologies, and best practices tailored to different agricultural contexts and water availability scenarios.

[Publications](#)[Guideline and Tools](#)[Videos](#)

Null

29 September 2024

Embracing complexities in agricultural water management through nexus planning

A major challenge for agricultural water management (AWM) in the 21st century is to feed a growing population in the face of increasing intersectoral resource competition, evolving diets, degradation, pandemics, geopolitical conflicts and climate...

[Read More](#) | [Full Text](#) | [DOI](#) | 

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10 September 2024

Gully rehabilitation in southern Ethiopia – value and impacts for farmers

Gully erosion can be combatted in severely affected regions like sub-Saharan Africa using various low-cost interventions that are accessible to affected farmers. For successful implementation, however, biophysical evidence of intervention effectiveness...

[Read More](#) | [Full Text](#) | [DOI](#) | 

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01 September 2024

Mapping a sustainable water future: Private sector opportunities for global water security and resilience

Water security remains a critical global development challenge, compounded by persistent public funding shortfalls. Society urgently needs to identify opportunities for innovative private sector engagement in water security solutions. To identify...

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01 September 2024

Adoption potential of black soldier fly (Hermetia illucens (L.), Diptera: Stratiomyidae) larvae...

As the world's population increases, the growing demand for food intensifies the generation of agricultural waste, leading to several environmental issues. Intensive research indicates black soldier fly (BSF) larvae Hermetia illucens (Linnaeus, 1758) as...

[Read More](#) | [Full Text](#) | [DOI](#) | [View All](#)

Select the **Category** and click the **View All** button to get directed to the “Resource Center” module.

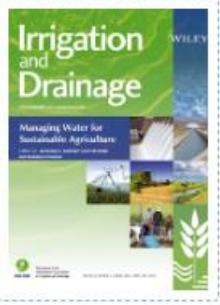
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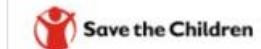
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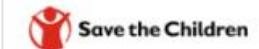
[View All](#)

Our Partners



Click on the **logo** to explore the partner's website

Our Partners

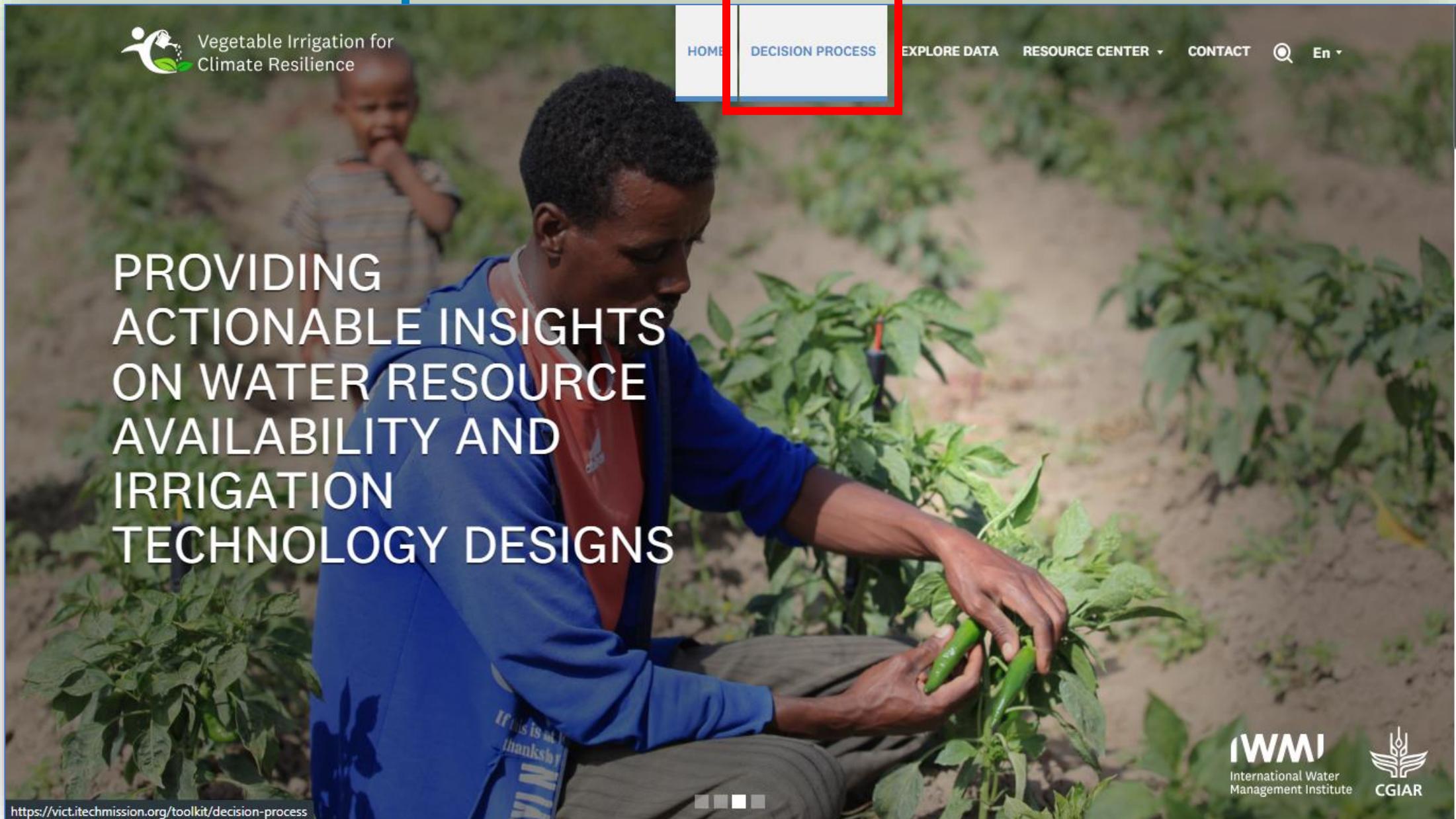


2 Decision Process



DECISION PROCESS

Navigate to the “Decision Process” module from the navigation panel on the homepage.



The image shows a man in a blue long-sleeved shirt working in a field of green plants, likely a vegetable garden. He is holding a green pepper and examining it. In the background, a young child is standing and looking towards the camera. The overall theme is agriculture and climate resilience.

Vegetable Irrigation for Climate Resilience

HOME DECISION PROCESS EXPLORE DATA RESOURCE CENTER CONTACT

En

PROVIDING ACTIONABLE INSIGHTS ON WATER RESOURCE AVAILABILITY AND IRRIGATION TECHNOLOGY DESIGNS

<https://vict.itechmission.org/toolkit/decision-process>

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Welcome to the Interactive Decision Making Process

Decision-Making Process Steps for IVP Interventions in Emergency Settings.

Start



Welcome to the Interactive Decision Making

Decision-Making Process
Supporting Interventions in Emergency Contexts

Start

Disclaimer

We want to emphasise that all information provided through the interactive component of the Vegetable Irrigation for Climate resilience website is fully anonymised. As no personal data is being collected, the tool is designed solely to assist you in making informed decisions for effective vegetable irrigation in emergency contexts. Your participation supports better planning and outcomes without compromising privacy.

Decline

Accept

 Vegetable Irrigation for Climate Resilience

Tool Overview 

STAGE 01  Assessing the emergency context in affected areas

STAGE 02  Assessing the impact of an emergency on the enabling environment

STAGE 03  Establishing available organizational capacity and resources

STAGE 04  Irrigation system options

STAGE 05  Designing your intervention, understanding your impact pathway

STAGE 06  Project Sustainability

STAGE 07  Refine design and establish M&E systems

STAGE 08  Implement intervention and document challenges and opportunities

STAGE 09  Evaluate post-project outcomes and impacts on resilience

Result 

Tool Overview

Harnessing science to inform improved irrigated production in complex settings.

Practical Steps (What will you accomplish with this tool?)

This decision-making tool guides practitioners to evaluate and refine their IVP design. Starting with emergency context assessment, users enter data on crisis type, such as slow-onset or rapid-onset, enabling a tailored design approach. Practitioners assess resource impacts on water, markets, and institutions, adjusting IVP plans to suit environmental and social conditions. Organizational capacity is also evaluated, ensuring readiness to implement IVP effectively. Through structured M&E improvements, users can refine their design to better monitor and adapt IVP plans, enhancing their alignment with resilience, income, and nutrition goals, and making interventions more impactful in emergency settings and extending their projects to fit within a humanitarian-development nexus approach.

The Tool's Purpose and Benefits (Why use this tool?)

Traditional crisis responses often focus on staple crops, addressing immediate food needs but lacking in nutritional diversity and income opportunities. This toolkit fills that gap by guiding practitioners in implementing vegetable production systems designed for resilience. By identifying suitable irrigation systems and adapting to specific environmental constraints, the tool transforms vegetable production into a core, resilience-building intervention, enriching diets and supporting income generation during emergencies.

An Effective Tool (When should I use this tool?)

Use this tool during the design phase of irrigated vegetable production interventions in emergencies, once you have a preliminary understanding of the crisis type, site, and community needs. Begin with a needs assessment to confirm IVP's suitability in the context. If appropriate, the tool's structured steps will guide you through refining design, assessing enabling environments, and aligning IVP with local resilience goals. It can also enhance ongoing IVP responses for greater impact in crisis-affected settings.

Target: Humanitarian and development practitioners, including technical specialists and project staff.

Begin

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DECISION PROCESS

9 Stages for “Decision Process”. Click **Next** to move forward in each Stage.

 Vegetable Irrigation for Climate Resilience

Tool Overview

STAGE 01 Assessing the emergency context in affected areas

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Result

3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8

Establishing available organizational capacity and resources

This section helps to establish available organisational capacity and resources utilising standardised humanitarian capacity assessment protocols, such as questions used in the UN Capacity Assessment Checklist (CACHE). The interactive feature should request organisations to input their capacity (e.g., financial resources, infrastructure, skilled personnel) and receive a recommendation on whether they have the capacity for IVP and what technical gaps need to be filled.

Assessing an organization's internal capacity is vital for effective emergency interventions. A thorough evaluation of human resources, technical expertise, financial stability, and infrastructure enables organizations to address gaps and leverage strengths. Human and technical capacity must be examined to ensure staff possess the expertise required for the intervention, identifying potential needs for external collaboration. Financial capacity and operational processes, including procurement and logistics, should align with intervention goals, ensuring the budget can support necessary actions.

Assessing infrastructure is equally important; sufficient facilities and equipment are critical for smooth implementation. If gaps exist, upgrading or acquiring resources ensures readiness. Leveraging past experience and networks enhances project success, as lessons learned from previous interventions provide valuable insights and opportunities for collaboration.

Finally, robust risk management and monitoring systems are essential for mitigating risks and maintaining the effectiveness of interventions. By incorporating thorough evaluation and real-time monitoring, organizations can swiftly address challenges and optimize outcomes. In conclusion, assessing internal capacity enables tailored, well-supported interventions that maximize impact and efficiency in emergency contexts.

Next

Previous Stage **Next Stage**



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Africa World

DECISION PROCESS

Attempt all the questions. Click **Next** to go to the next step.

 Vegetable Irrigation for Climate Resilience

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Funding sources

Diverse and stable funding is essential for managing projects and wider programmes, especially in unpredictable environments. Multiple funding sources reduce dependency on a single donor, ensuring continuity if one funding stream ends. Regular, multi-donor funding also signals organizational stability, and capacity to absorb and manage multiple funds, whilst coordinating implementation. It also showcases that there are improved M&E systems, drawing on each of the varied donor requirements, and often demonstrates the likelihood of guiding policies to adhere to donor standards.



3/17 Questions attempt | Reset | X

Funding sources

Q3.2a Do you have funding from multiple donors?

Yes No

Q3.2b Have you had consistent funding for the past two years?

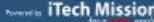
Yes No

Q3.2c Is more than 50% of your funding from a single source?

Yes No

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Previous Stage Next Stage

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DECISION PROCESS

View results as per the selections made in the questions and view of answers summary.

 Vegetable Irrigation for Climate Resilience

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90% Capacity to deliver an IVP project

Hide Selected Answers

Q No.	Organizational Capacity	Resources
3.2a	Do you have funding from multiple donors?	Yes
3.2b	Have you had consistent funding for the past two years?	Yes
3.2c	Is more than 50% of your funding from a single source?	Yes
3.3a	Has your organisation been audited in the last two years?	Yes
3.3b	Was the audit conducted by an accredited independent entity?	Yes
3.3c	Was the audit considered satisfactory in the last audit?	Yes
3.4a	Does your organisation have a governing body (e.g., Board of Directors)?	Yes
3.4b	Do you have formal policies in the following areas (tick all that apply)?	Financial Management, Human Resources, Procurement, Gender Equality and Social Inclusion

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DECISION PROCESS

Click on the **Next Stage** button after completing the steps of the stage.

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[Previous Stage](#) **Next Stage**



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DECISION PROCESS

Click the **Previous Stage** button to go back in the process.

 Vegetable Irrigation for Climate Resilience

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Vegetable Irrigation for Climate Resilience

Tool Overview



STAGE 01 Assessing the emergency context in affected areas

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Result →

Congratulations! You have completed all nine stages of the interactive irrigated vegetable production decision making toolkit:

- Assessing the emergency context in affected areas
- Assessing the impact of an emergency on the enabling environment
- Establishing available organizational capacity and resources
- Irrigation system options
- Designing your intervention, understanding your impact pathway
- Project sustainability
- Refining design and establishing M&E systems
- Implementing intervention and documenting challenges and opportunities
- Evaluating post-project outcomes and impacts on resilience

We hope this exercise has helped your organization think critically about the design and implementation of your proposed irrigated vegetable production project for emergency settings. Thank you for your engagement, and we look forward to hearing about your impact! For any further information please go to contact us.

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DECISION PROCESS

Click on the **burger menu** available at the top right corner of the page to navigate to the other module.

 Vegetable Irrigation for Climate Resilience

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Previous Stage **Next Stage**

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3 Explore Data – Sustainability



SUSTAINABILITY

Navigate to “Explore Data” module from the navigation panel on the homepage.

The image shows a woman wearing a straw hat and a purple shirt, smiling while holding a large green cabbage. In the background, there are solar panels mounted on poles and a cow in a fenced area under a clear blue sky. The overall theme is sustainable agriculture and food production.

Vegetable Irrigation for Climate Resilience

HOME DECISION PROCESS EXPLORE DATA RESOURCE CENTER CONTACT En

STRENGTHENING THE RESILIENCE OF LOCAL FOOD PRODUCTION SYSTEM

<https://vict.itechmission.org/toolkit/composite-index>

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 Vegetable Irrigation for Climate Resilience

SUSTAINABILITY DRIVERS

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Geographical Area Season Crop Water requirement Water Source Depth/Distance Irrigation Technology

Download Data

Woreda

Season Period

Map suitable for vegetable (Ha)

Irrigable land using surface water (Ha) Max Irrigable land using groundwater (Ha)

Suitability

GW (Ha) SW + GW (Ha) Suitability

Welcome to the Explore Data

On this page, you can explore vegetable-suitable areas, retrieve the areal limits of developing irrigation using available groundwater and/or surface water sustainably, and identify an appropriate irrigation technology for a given location.


Map Interaction
Select a given administrative boundary to obtain more detailed information on the potential technologies suitable for supporting irrigated vegetable production within sustainable water limits


Sustainability Information and Filters
Obtain an overview of how irrigable land suitability for each technology changes based on season, crop water requirement, water source and pumping distance/depth


Drivers
A list of the most conducive drivers (biophysical and socio-economic) of land suitability for vegetables is provided. Select each of them to visualize their patterns across administrative boundaries.

Proceed

Don't show me again

distance 200m
Fuel pump (max depth 7m; max distance 100m)
Fuel pump (max depth 25m; max distance 200m)

*Data is in hectare

Click the **Close** button to continue.

Vegetable Irrigation for Climate Resilience

SUSTAINABILITY

DRIVERS

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Geographical Area | Season | Crop Water requirement | Water Source | Depth/Distance | Irrigation Technology

Period

Season

Total Area (Ha) | Area suitable for vegetables (Ha)

Please select variables from each of the above dimensions to view a map.

- Geographical Area
- Season
- Crop Water Requirement
- Water Source
- Depth/Distance
- Irrigation Technology

Close

Electric pump (max depth 7m; max distance 100m)

Electric pump (max depth 20m; max distance 200m)

Fuel pump (max depth 7m; max distance 100m)

Fuel pump (max depth 20m; max distance 200m)

*Data is in hectare

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SUSTAINABILITY

Select the variables for all dimensions to view the Map. Click the **Go** button to generate a color-coordinated Map view.

Vegetable Irrigation for Climate Resilience

SUSTAINABILITY DRIVERS

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Geographical Area: Ethiopia Season: Wet Crop Water Requirement: Low (0-400mm)

Woreda: Woreda

GEOGRAPHICAL AREA: Ethiopia SEASON: Wet CROP WATER REQUIREMENT: Low (0-400mm) WATER SOURCE: Groundwater DEPTH: 0-7 m IRRIGATION TECHNOLOGY: Electric pump

Electric pump Fuel pump Manual pump Solar pump

Go

Fuel pump (max) distance 200m *Data is in hectare

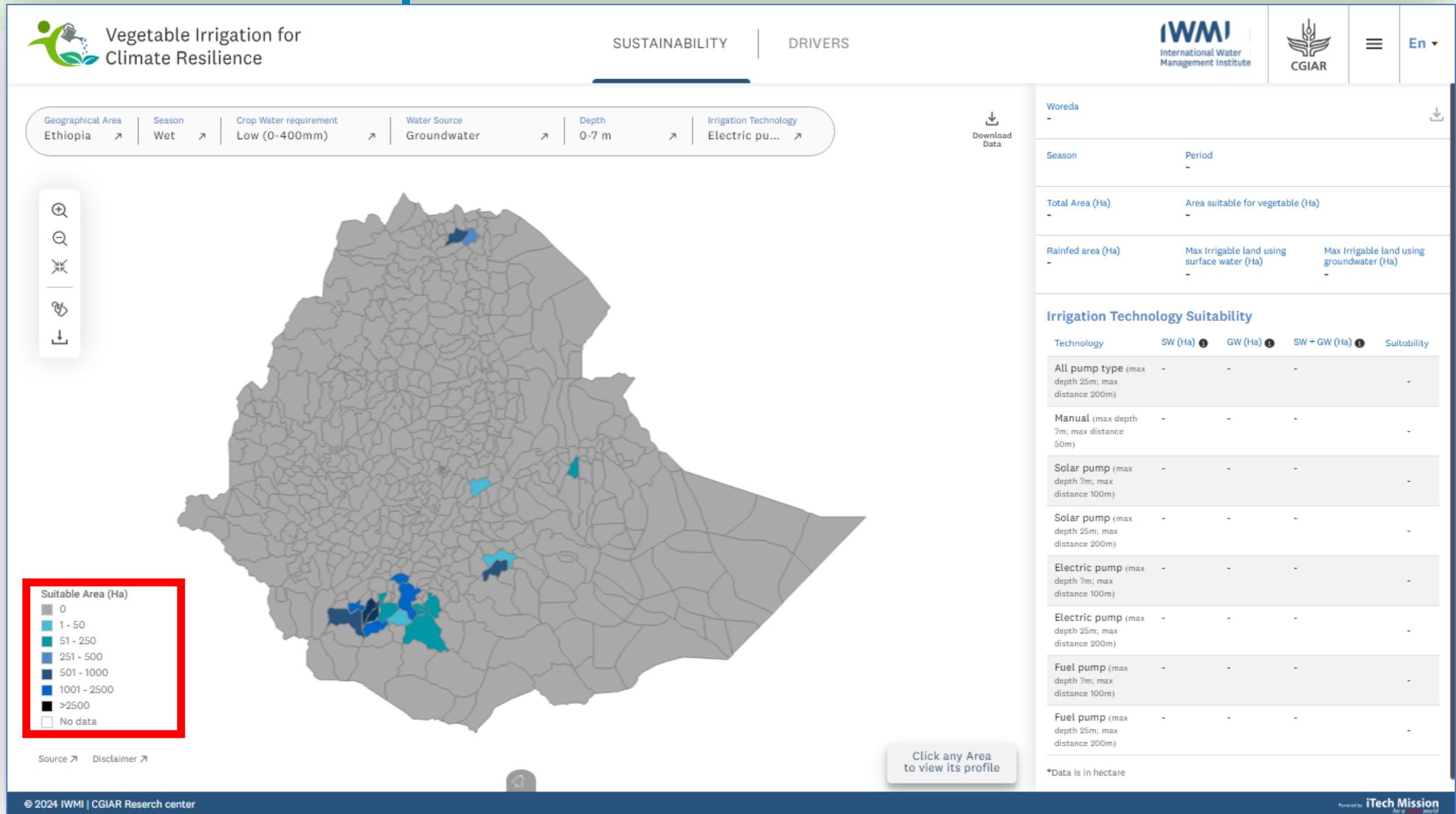
Disclaimer

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The screenshot shows a user interface for a sustainability tool. At the top, there's a header with the title 'Vegetable Irrigation for Climate Resilience' and logos for IWMI and CGIAR. Below the header, there are dropdown menus for 'Geographical Area' (set to Ethiopia), 'Season' (set to Wet), and 'Crop Water Requirement' (set to Low (0-400mm)). The main area is titled 'SUSTAINABILITY' and contains a modal dialog box. This dialog box has tabs for 'Geographical Area' (Ethiopia), 'Season' (Wet), 'Crop Water Requirement' (Low (0-400mm)), 'Water Source' (Groundwater), 'Depth' (0-7 m), and 'Irrigation Technology' (Electric pump). Below these tabs is a list of irrigation technology options: 'Electric pump' (selected), 'Fuel pump', 'Manual pump', and 'Solar pump'. At the bottom of the dialog is a blue 'Go' button. A red rectangle highlights the entire dialog box. To the right of the dialog, there are sections for 'Period', 'Area suitable for vegetable (Ha)', 'Max irrigable land using surface water (Ha)', 'Max irrigable land using groundwater (Ha)', and 'Suitability' with four categories: SW (Ha), GW (Ha), SW + GW (Ha), and Suitability. At the bottom left is a 'Disclaimer' link, and at the bottom right are copyright and mission information.

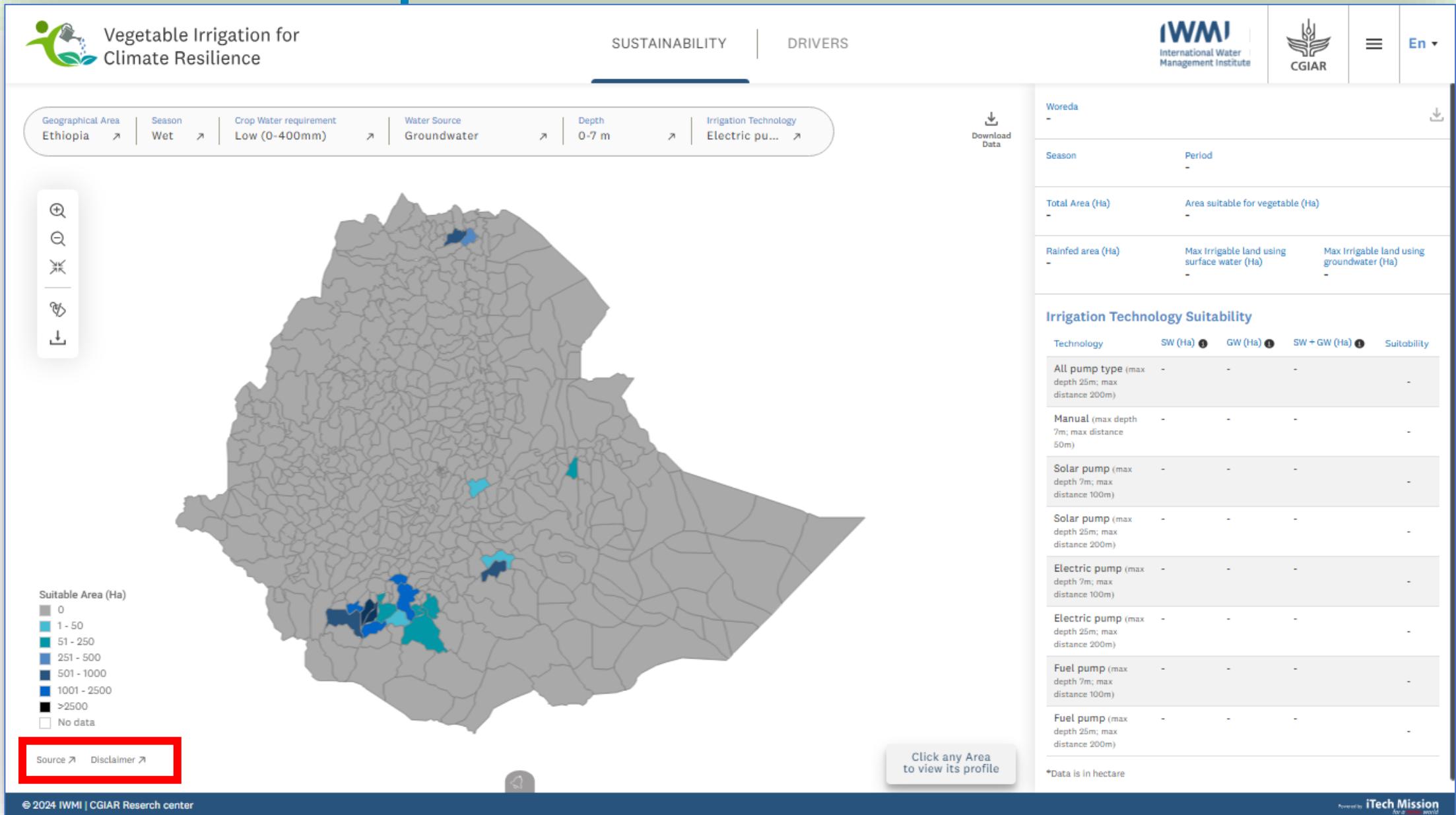
SUSTAINABILITY

The map's color theme and scale are described by the legend.



SUSTAINABILITY

The **Source** of the data and **Disclaimer** is available at the bottom of the map.



SUSTAINABILITY

Click on the **Map Toolbar** to – Zoom in, Zoom out, Reset, Label(ON/OFF), Download the map.

Vegetable Irrigation for Climate Resilience

SUSTAINABILITY **DRIVERS**

Geographical Area: Ethiopia | Season: Wet | Crop Water requirement: Low (0-400mm) | Water Source: Groundwater | Depth: 0-7 m | Irrigation Technology: Electric pu...

Download Data

Woreda

Season: Period

Total Area (Ha): Area suitable for vegetable (Ha)

Rainfed area (Ha): Max Irrigable land using surface water (Ha) | Max Irrigable land using groundwater (Ha)

Irrigation Technology Suitability

Technology	SW (Ha)	GW (Ha)	SW + GW (Ha)	Suitability
All pump type (max depth 25m; max distance 200m)	-	-	-	-
Manual (max depth 7m; max distance 50m)	-	-	-	-
Solar pump (max depth 7m; max distance 100m)	-	-	-	-
Solar pump (max depth 25m; max distance 200m)	-	-	-	-
Electric pump (max depth 7m; max distance 100m)	-	-	-	-
Electric pump (max depth 25m; max distance 200m)	-	-	-	-
Fuel pump (max depth 7m; max distance 100m)	-	-	-	-
Fuel pump (max depth 25m; max distance 200m)	-	-	-	-

Suitable Area (Ha)

- 0
- 1 - 50
- 51 - 250
- 251 - 500
- 501 - 1000
- 1001 - 2500
- >2500
- No data

Source | Disclaimer | Click any Area to view its profile

*Data is in hectare

Powered by iTech Mission

SUSTAINABILITY

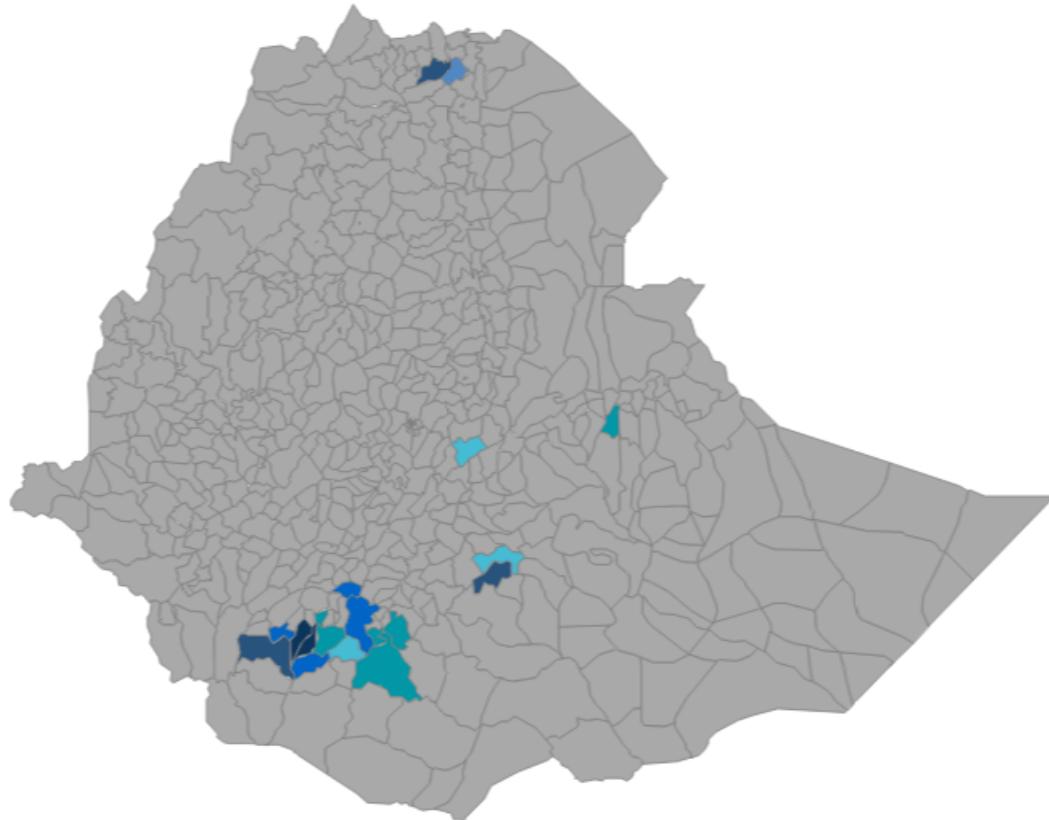
Click on the **Download** button to download the data in csv format.

 Vegetable Irrigation for Climate Resilience

SUSTAINABILITY DRIVERS

Geographical Area: Ethiopia | Season: Wet | Crop Water requirement: Low (0-400mm) | Water Source: Groundwater | Depth: 0-7 m | Irrigation Technology: Electric pu...

Download Data (button highlighted with a red box)


Suitable Area (Ha):
0
1 - 50
51 - 250
251 - 500
501 - 1000
1001 - 2500
>2500
No data

Woreda: Woreda

Season: Period

Total Area (Ha): Area suitable for vegetable (Ha)

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Solar pump (max depth 25m; max distance 200m)	-	-	-	-
Electric pump (max depth 7m; max distance 100m)	-	-	-	-
Electric pump (max depth 25m; max distance 200m)	-	-	-	-
Fuel pump (max depth 7m; max distance 100m)	-	-	-	-
Fuel pump (max depth 25m; max distance 200m)	-	-	-	-

Click any Area to view its profile

*Data is in hectare

Powered by iTech Mission

SUSTAINABILITY

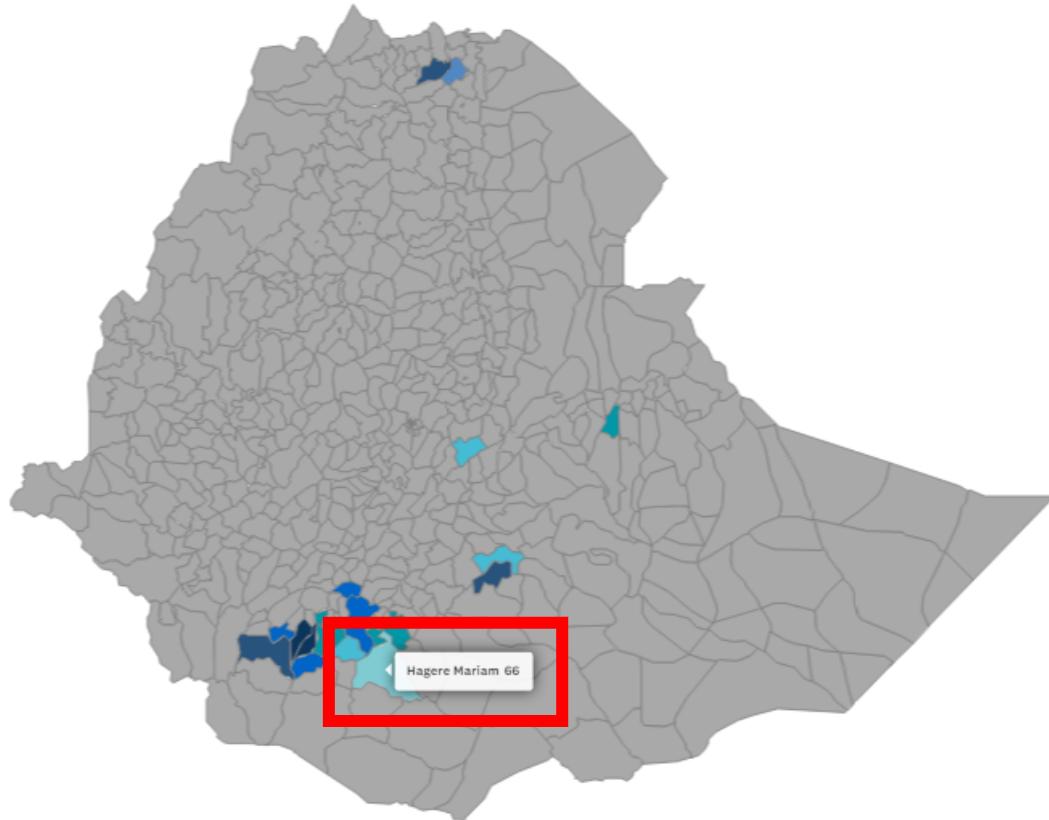
Click on the area of the map to view the profile on the right-hand side.

 Vegetable Irrigation for Climate Resilience

SUSTAINABILITY DRIVERS

Geographical Area: Ethiopia | Season: Wet | Crop Water requirement: Low (0-400mm) | Water Source: Groundwater | Depth: 0-7 m | Irrigation Technology: Electric pu...

Download Data



Suitable Area (Ha):

- 0
- 1 - 50
- 51 - 250
- 251 - 500
- 501 - 1000
- 1001 - 2500
- >2500
- No data

Source | Disclaimer

Click any Area to view its profile

 IWMI
International Water Management Institute

 CGIAR

En

Woreda HAGERE MARIAM

Season: WET Period: JUN-SEPT

Total Area (Ha)	Area suitable for vegetable (Ha)
615,130	134,718

Rainfed area (Ha)	Max Irrigable land using surface water (Ha)	Max Irrigable land using groundwater (Ha)
12	5,264	135

Irrigation Technology Suitability

Technology	SW (Ha)	GW (Ha)	SW + GW (Ha)	Suitability
All pump type (max depth 25m; max distance 200m)	2,577	135	2,661	✓
Manual (max depth 7m; max distance 50m)	0	0	0	✗
Solar pump (max depth 7m; max distance 100m)	2,129	135	2,237	✓
Solar pump (max depth 25m; max distance 200m)	0	0	0	✗
Electric pump (max depth 7m; max distance 100m)	112	66	157	✓
Electric pump (max depth 25m; max distance 200m)	219	66	246	✓
Fuel pump (max depth 7m; max distance 100m)	449	114	537	✓
Fuel pump (max depth 25m; max distance 200m)	895	114	959	✓

*Data is in hectare ✓ Suitable ✗ Not Suitable

SUSTAINABILITY

Click on the **Download** button to download the data for the selected Area in csv format.

 Vegetable Irrigation for Climate Resilience

SUSTAINABILITY DRIVERS

Geographical Area: Ethiopia | Season: Wet | Crop Water requirement: Low (0-400mm) | Water Source: Groundwater | Depth: 0-7 m | Irrigation Technology: Electric pu... | Download Data

Woreda: HAGERE MARIAM

Season: WET | Period: JUN-SEPT

Total Area (Ha)	Area suitable for vegetable (Ha)
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Fuel pump (max depth 25m; max distance 200m)	895	114	959	✓

*Data is in hectare

Click any Area to view its profile

Source | Disclaimer

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SUSTAINABILITY

Click on the **burger menu** available at the top right corner of the page to navigate to the other module.

 Vegetable Irrigation for Climate Resilience

SUSTAINABILITY DRIVERS

Geographical Area: Ethiopia | Season: Wet | Crop Water requirement: Low (0-400mm) | Water Source: Groundwater | Depth: 0-7 m | Irrigation Technology: Electric pu... | Download Data

Woreda: HAGERE MARIAM | Period: JUN-SEPT

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Fuel pump (max depth 25m; max distance 200m)	895	114	959	✓

Suitable Area (Ha)

- 0
- 1 - 50
- 51 - 250
- 251 - 500
- 501 - 1000
- 1001 - 2500
- >2500
- No data

Hagere Mariam 66

Click any Area to view its profile

*Data is in hectare

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3 Explore Data – Drivers



DRIVERS

Navigate to the “Drivers” sub-module from the navigation panel on the top.

The screenshot shows the 'Vegetable Irrigation for Climate Resilience' web application interface. At the top, there is a navigation bar with the following elements from left to right: a logo for 'Vegetable Irrigation for Climate Resilience', the text 'SUSTAINABILITY' in blue, the text 'DRIVERS' in bold black (underlined), the 'IWMI' logo (International Water Management Institute), the 'CGIAR' logo, a menu icon (three horizontal lines), and a language dropdown set to 'En'. Below the navigation bar, on the left, there is a button labeled 'Geographical Area' with a small arrow icon. In the center, there is a message: 'Select a DRIVER from the right panel to view its data on the map'. On the right, there is a table titled 'DRIVERS' with a column header 'RANK BY IMPORTANCE'. The table lists ten items, each with a minus sign at the end of the row:

DRIVERS	RANK BY IMPORTANCE
Flood frequency (%)	-
Drought frequency (%)	-
Population density (ppl/km ²)	-
Distance to Roads (m)	-
Travel time to City (minutes)	-
Distance to cell phone towers (m)	-
Slope (%)	-
Soil texture	-
Soil drainage	-
Soil depth (cm)	-
Soil AWC (m ³ /m ³)	-
Soil Organic C (g/kg)	-

Vegetable Irrigation for Climate Resilience

SUSTAINABILITY

DRIVERS

IWMI
International Water Management Institute

CGIAR

Geographical Area

Flood frequency (%)

Drought frequency (%)

Population density (ppl/km²)

Distance to Roads (m)

Distance to City (minutes)

Distance to cell phone towers (m)

Urbanization rate (%)

Soil depth (cm)

Soil AWC (m³/m³)

Soil Organic C (g/kg)

RANK BY IMPORTANCE

Geographical Area

Search

EASTERN AFRICA

Ethiopia

WESTERN AFRICA

Mali

Ok

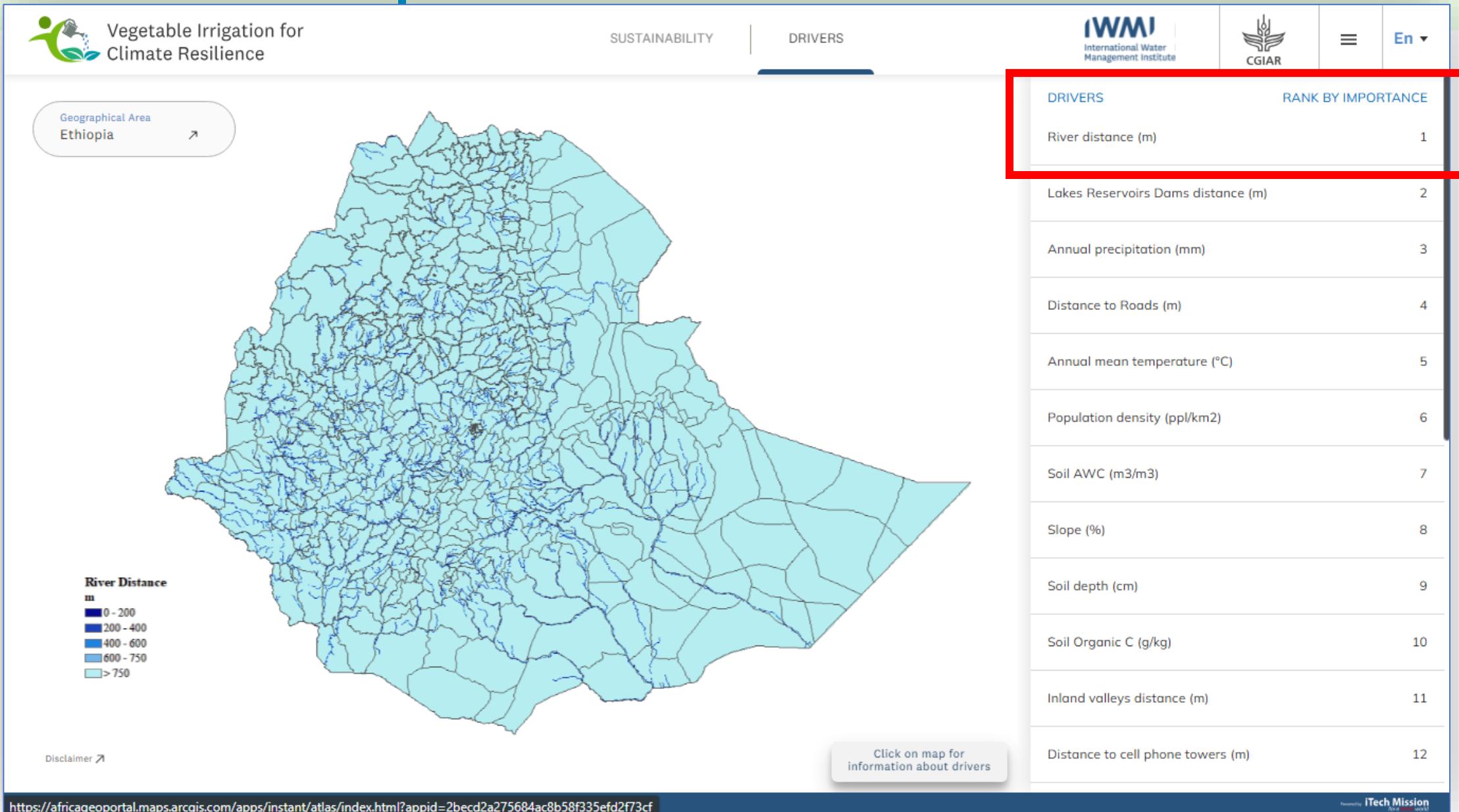
The screenshot shows a user interface for selecting a geographical area. A modal window titled "Geographical Area" is centered over the page. It contains a search bar with a magnifying glass icon, a list of regions, and a blue "Ok" button at the bottom right. The "EASTERN AFRICA" section is expanded, showing "Ethiopia" as an option. The "WESTERN AFRICA" section is collapsed, showing "Mali" as an option. The entire "Geographical Area" modal is highlighted with a thick red border. The background of the main page shows navigation tabs for "SUSTAINABILITY" and "DRIVERS", and logos for IWMI and CGIAR. To the right of the modal, there is a column titled "RANK BY IMPORTANCE" listing various environmental factors with dropdown arrows next to them. At the bottom of the page, there is a footer with copyright information and a logo for iTech Mission.

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Partnership iTech Mission

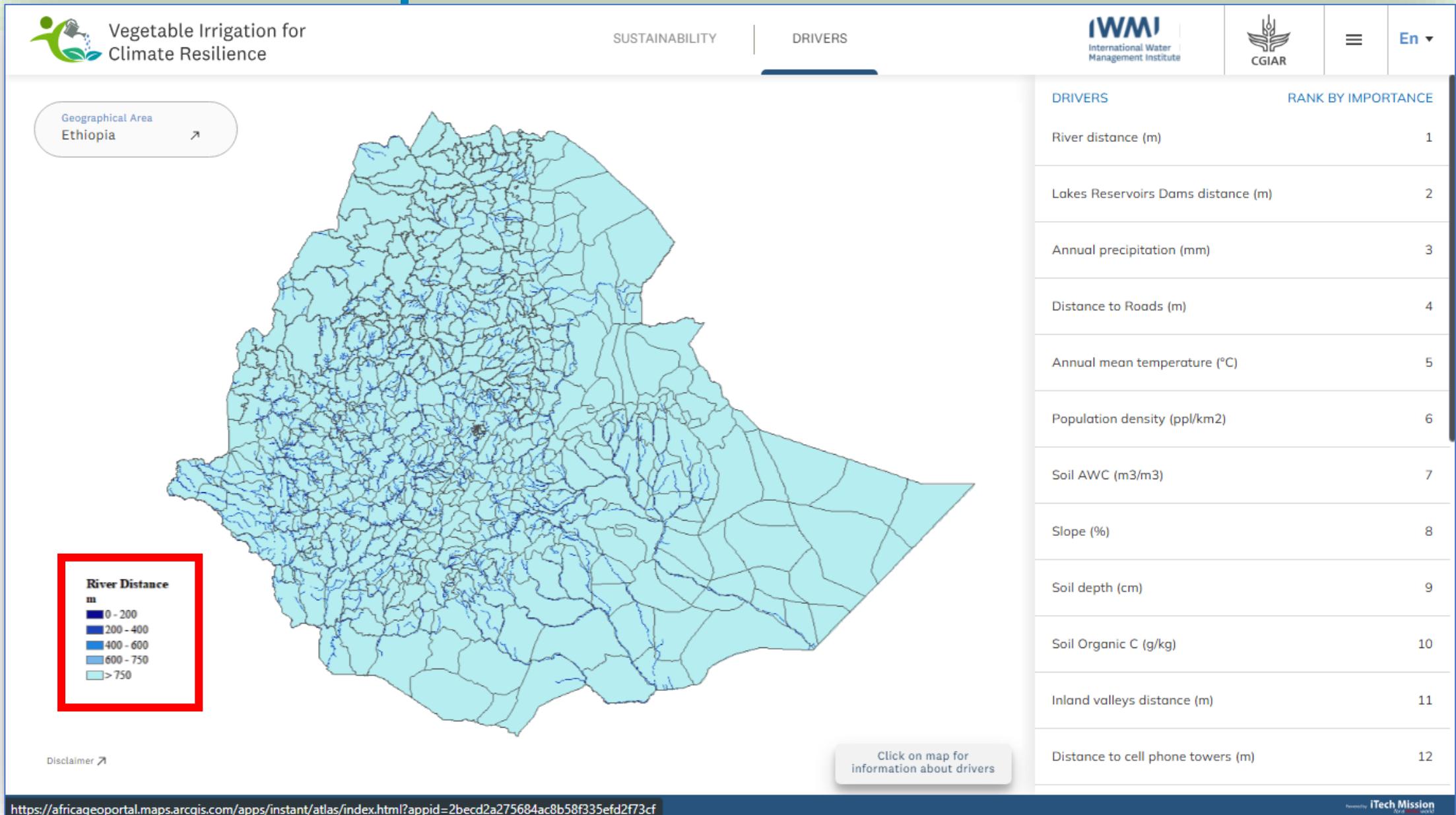
DRIVERS

Select Drivers from the driver's list on the right-hand side to view the color-coordinated map.



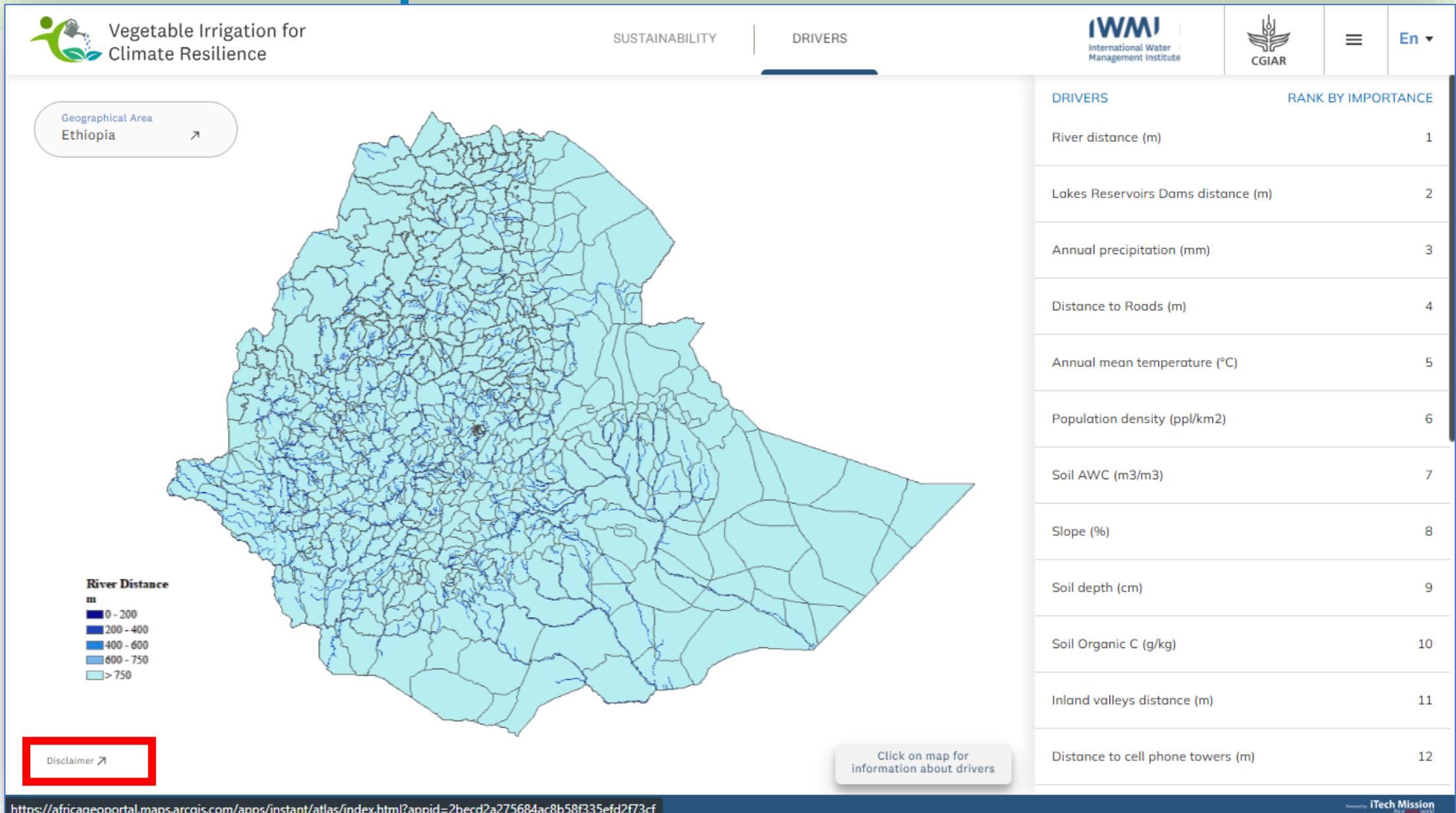
DRIVERS

The map's color theme is described by the legend.



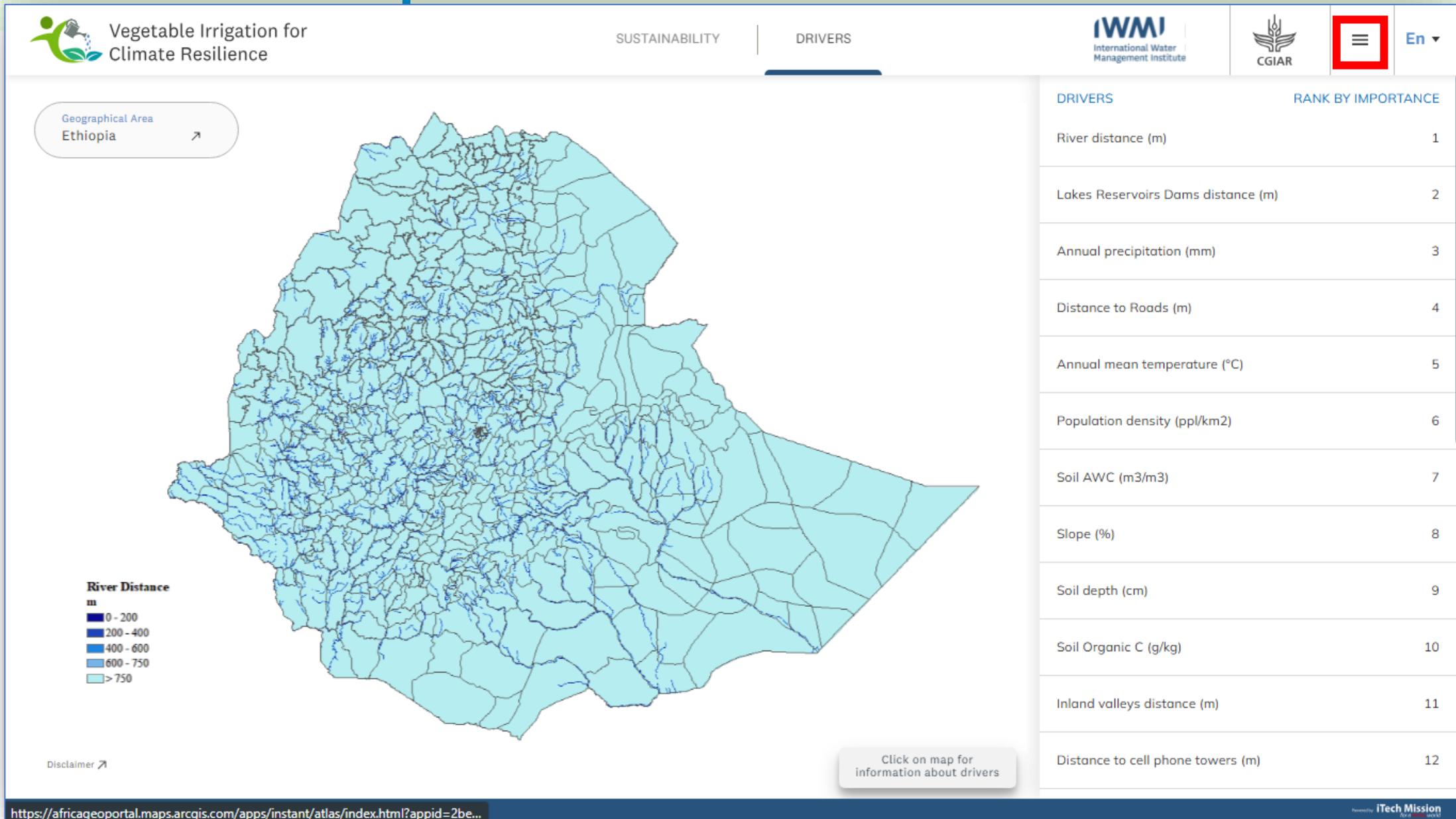
DRIVERS

The Disclaimer is available at the bottom of the map.



DRIVERS

Click on the **burger menu** available at the top right corner of the page to navigate to the other module.



4

Resource Center – About VIC



ABOUT VICT

Navigate to the “About VICT” sub-module available under the “Resource Center” module.

The screenshot shows the VIC (Vegetable Irrigation for Climate Resilience) website. At the top left is the logo "Vegetable Irrigation for Climate Resilience". The top navigation bar includes links for HOME, DECISION PROCESS, EXPLORE DATA, RESOURCE CENTER (with a dropdown menu), CONTACT, and a language switcher (En). A search icon is also present. The main content area features a large image of a center pivot irrigation system spraying water onto a field of green plants. On the left side of the image, the word "About" is displayed in white. Below the image, the section title "About Vegetable Irrigation for Climate Resilience" is centered in a large, bold, dark blue font. The text discusses the impact of extreme events on food security and the importance of resilience-building through agricultural interventions like micro-irrigation. At the bottom of the page, there is a URL: <https://vict.itechmission.org/toolkit/page/about>.

About

Vegetable irrigation is a critical component of climate resilience, particularly as shifting weather patterns and extreme events become more common.

About Vegetable Irrigation for Climate Resilience

Globally, we are witnessing increased intensity and frequency of extreme events, which combined are directly impacting the food and livelihood security of millions of vulnerable populations. Climate shocks have a compounding effect on already vulnerable regions dealing with political instability. Also, extreme events often disrupt the agricultural input and output supply chains, including seed systems, fertilizer input, fuel disruptions, and farm equipment. Hence, it is essential to strengthen the resilience of local food production systems to improve the availability of and access to nutritious food to populations affected by crises. Resilience building requires, therefore, a systems approach to intervention design and implementation by embedding the solutions within the broader enabling environment.

In crises, emergency agricultural assistance is a vital part of a short-term adaptation strategy to protect lives and livelihoods during the commencement of a humanitarian crisis. Supporting smallholder farmers to invest in irrigation solutions presents a medium-to-long-term adaptation strategy and provides self-reliance for the most vulnerable sections of the population to produce food and secure income while reducing dependency on food assistance programs. Micro-irrigation (e.g., managed by individual households or small groups) of vegetables is vital to farmers' livelihoods, nutrition pathways, and income. Therefore, investing in localized, decentralized irrigated agricultural systems is crucial in providing people with a means to cope with humanitarian crises. Vegetable production provides a promising opportunity to sustain food, livelihood, and nutritional security during a humanitarian crisis. The main objective of this project is therefore to use a data-driven, evidence-based approach to develop a Vegetable Irrigation for Climate Resilience (VIC) to support humanitarian agencies in designing and implementing irrigation investments for vegetable production.

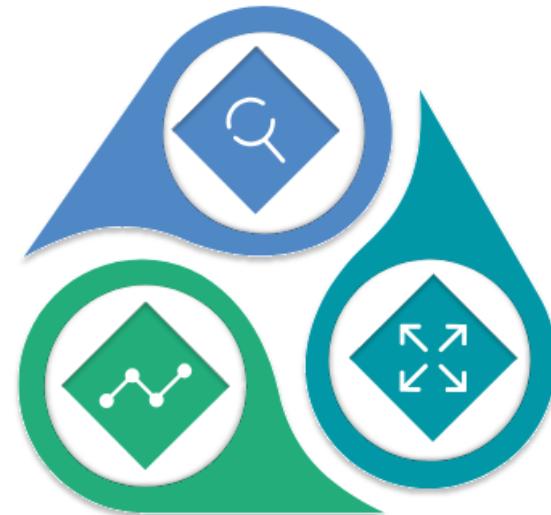
<https://vict.itechmission.org/toolkit/page/about>

Common Objectives of a Vegetable Intervention

Humanitarian organizations include vegetable interventions in emergency and recovery projects with the objective of improving food and nutrition security, diversifying livelihoods, empowering women, and/or increasing income. Sometimes these objectives are consolidated into an objective of building household resilience.

Home garden interventions often promote vegetable cultivation with the expectation that households will both consume and sell more produce to support the recovery of food production. Interventions engaging commercial vegetable production are tailored to bolster local vegetable supply chains and support farmer livelihoods.

Although rarely the primary objective of a project and therefore not measured or systematically recorded, humanitarian practitioners have observed outcomes related to psychosocial wellbeing and peace building emerge from vegetable interventions, such as those resulting from home garden interventions in refugee camp settings (Baliki et al., 2023). This objective may be appropriate to consider for people suffering from complex crises with inadequate access to mental health services.



Selecting a Technical Approach

Selecting a technical approach that works for the project context is vital for success. For vegetable production, this is often first driven by the project site's agroecological conditions, especially water availability and soil quality.

Vegetables require a constant supply of water and nutrients in order to achieve

4

Resource Center – Publications



PUBLICATIONS

Navigate to the “Publications” sub-module available under the “Resource Center” module.

The screenshot shows the VIC website interface. At the top, there is a navigation bar with links for HOME, DECISION PROCESS, EXPLORE DATA, RESOURCE CENTER (with a dropdown menu), CONTACT, and a search icon. The RESOURCE CENTER dropdown menu is open, showing options like About VIC, Publications (which is highlighted with a red box), Guideline and Tools, and Videos. Below the navigation bar is a large image of farmers working in a field. On the left side, there is a sidebar with categories: ALL DATA, BRIEFS, BROCHURES, JOURNAL ARTICLES, REPORTS, and SUCCESS STORIES. In the main content area, there are two news items. The first item, dated 01 November, 2024, is titled "How a simple tool is reducing conflict and preserving water in Uzbekistan". It features a photo of a man operating a manual irrigation system. The text describes how smartsticks help farmers get a fair allocation of water while protecting land from aridity and strengthening farmers' resilience. A "Read More" link is provided. The second item, also dated 01 November, 2024, is titled "How solar-based innovations are helping farmers in Africa become water and food secure". It features a photo of solar panels in a field. The text discusses how agricultural productivity has increased and farmers are more water resilient thanks to innovative solutions.

Vegetable Irrigation for Climate Resilience

HOME DECISION PROCESS EXPLORE DATA RESOURCE CENTER ▾ CONTACT En ▾

About VIC

Publications

Guideline and Tools

Videos

Publications

Irrigation research is a vital field that focuses on improving water management practices to enhance agricultural productivity and sustainability.

All Years Search by Text and Tags Search

ALL DATA

BRIEFS

BROCHURES

JOURNAL ARTICLES

REPORTS

SUCCESS STORIES

01 November, 2024
How a simple tool is reducing conflict and preserving water in Uzbekistan
Smartsticks help farmers get a fair allocation of water while protecting land from aridity and strengthening farmers' resilience in the face of climate change.
To be a successful farmer, you must have four key things: A crop, land, willing hands, and a reliable supply of water. Without water, land will lose its richness, crops won't grow, and willing...
[Read More](#)

01 November, 2024
How solar-based innovations are helping farmers in Africa become water and food secure
Agricultural productivity has increased and farmers are more water resilient thanks to innovative

<https://vict.itechmission.org/toolkit/page/publications>

PUBLICATIONS

Select a category to view and download available publications.

All Years ▾

Search by Text and Tags

Search

ALL DATA

BRIEFS

BROCHURES

JOURNAL ARTICLES

REPORTS

SUCCESS STORIES



01 November, 2024

How a simple tool is reducing conflict and preserving water in Uzbekistan

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[Read More ➔](#)



01 November, 2024

How solar-based innovations are helping farmers in Africa become water and food secure

Agricultural productivity has increased and farmers are more water resilient thanks to innovative solar-based irrigation solutions.

As climate change threatens water and food security in many parts of Africa, governments are promoting small-scale, farmer-led irrigation as a crucial climate adaptation measure. At the sam...

[Read More ➔](#)



01 November, 2024

Empowering rural women with multiple-use water services

Increasingly common around the world, multiple-use water services (MUS) place villagers in charge of the design and governance of their own water infrastructure, with local government bodies and non-profit organizations supporting these efforts by developing villagers' water-management capacities, supplying materials, and monitoring implementation....

[Read More ➔](#)



01 November, 2024

How hi-tech insurance is helping farmers survive floods

The availability of high-resolution satellite data has made it possible to develop a low-cost

PUBLICATIONS

Search by year, name, or tags, then click the **Search** button to apply.

All Years ▾

Search by Text and Tags

Search

ALL DATA

BRIEFS

BROCHURES

JOURNAL ARTICLES

REPORTS

SUCCESS STORIES



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[Read More ➔](#)



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PUBLICATIONS

Click on the **Read More** button to read the description of the desired publication.

All Years ▾

Search by Text and Tags

Search

ALL DATA

BRIEFS

BROCHURES

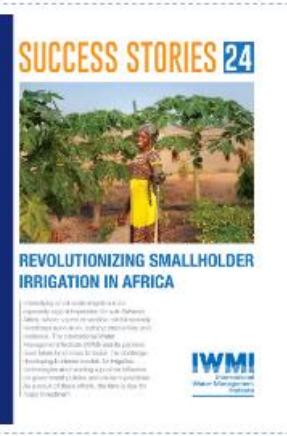
JOURNAL ARTICLES

REPORTS

SUCCESS STORIES

Digital Downloads

Online Stories



01 June, 2019

Revolutionizing smallholder irrigation in Africa

Intensifying small-scale irrigation is an especially urgent imperative for sub-Saharan Africa, where scarce or variable rainfall severely handicaps agriculture, curbing productivity and resilience. The International Water Management Institute (IWMI) and its partners have taken bold steps to tackle this challenge, developing business models for irrigation technologies and exerting a positive...

[Read More](#) ↗ | 



01 January, 2015

Boosting household irrigation in Ethiopia

Agriculture in Ethiopia accounts for half of the country's gross domestic product (GDP) and 85% of employment. However, around 95% of smallholder farms rely solely on rainfall. According to the report, household irrigation involving simple water-lifting and water-saving technologies, together with the cultivation of high-value horticultural crops, could more than double farmers'...

[Read More](#) ↗ | 

Showing 1 to 2 of 2 results

All Years ▾

ALL DATA

BRIEFS

BROCHURES

JOURNAL ARTICLES

REPORTS

SUCCESS STORIES

Digital Downloads

Online Stories

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Search

an Africa, where resilience. The steps to tackle a positive...

GDP) and 85% According to technologies, double farmers'...

irrigation schemes households food production income farmers agriculture

IWMI

PUBLICATIONS

Click on the **Download** button to download the desired publication.

All Years ▾

Search by Text and Tags

Search

ALL DATA

BRIEFS

BROCHURES

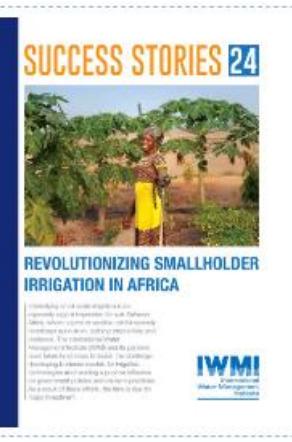
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[Read More](#) ➔



Showing 1 to 2 of 2 results

4

Resource Center – Guidelines and Tools



GUIDELINE AND TOOLS

Navigate to the “Guideline and Tools” sub-module available under the “Resource Center” module.

The screenshot shows the homepage of the "Vegetable Irrigation for Climate Resilience" website. At the top, there is a navigation bar with links for HOME, DECISION PROCESS, EXPLORE DATA, RESOURCE CENTER (with a dropdown menu), CONTACT, and a language switcher (En). A search icon is also present. The main content area features a large image of a person wearing a straw hat working in a field of green leafy vegetables. Overlaid on this image is a dark blue banner with the title "Guideline and Tools". Below the banner, a subtitle reads: "Irrigation research is a vital field that focuses on improving water management practices to enhance agricultural productivity and sustainability." On the left side of the page, there is a sidebar with filters: "All Years" (dropdown), "Search by Text and Tags", and a "Search" button. The main content area includes a sidebar with categories: ALL DATA, CORE GUIDELINES, GENERAL GUIDELINES, and TOOLS. The "CORE GUIDELINES" section is currently active. It displays a card for "Vegetable interventions as a humanitarian response: Best practice guidelines and assessment tool" (published on 01 June, 2024). The card summary states: "These guidelines were developed for humanitarian practitioners engaged in emergency and recovery programs with a vegetable production component. This includes home garden projects for improved household-dietary diversity or those that recover and/or rehabilitate irrigated vegetable production within a larger region. The need for this set of guidelines arose after it became clear that organizations were increasingly investing time and resources into vegetable production activities in response to slow-onset, rapid-onset,...". A "Read More" link is provided. Below this, another card is partially visible, published on 01 January, 2024, titled "The Farmer-led Irrigation Development Guide: A What, Why and How-to for Intervention Design". A watermark for "Activate Windows" is visible in the bottom right corner.

Vegetable Irrigation for Climate Resilience

HOME DECISION PROCESS EXPLORE DATA RESOURCE CENTER ▾ CONTACT 🔎 En ▾

Guideline and Tools

Irrigation research is a vital field that focuses on improving water management practices to enhance agricultural productivity and sustainability.

All Years ▾ Search by Text and Tags Search

ALL DATA

CORE GUIDELINES

GENERAL GUIDELINES

TOOLS

01 June, 2024

Vegetable interventions as a humanitarian response: Best practice guidelines and assessment tool

These guidelines were developed for humanitarian practitioners engaged in emergency and recovery programs with a vegetable production component. This includes home garden projects for improved household-dietary diversity or those that recover and/or rehabilitate irrigated vegetable production within a larger region. The need for this set of guidelines arose after it became clear that organizations were increasingly investing time and resources into vegetable production activities in response to slow-onset, rapid-onset,...

[Read More ➔](#)

01 January, 2024

The Farmer-led Irrigation Development Guide: A What, Why and How-to for Intervention Design

Water is essential for communities – for drinking, for growing the food we eat and sell, for supporting the ecosystems within which we thrive. Ensuring sustainable management and access to water and sanitation for all is key for resilient livelihoods and for achieving the

Activate Windows
Go to Settings to activate Windows.

<https://vict.itechmission.org/toolkit/page/guideline-and-tools>

GUIDELINE AND TOOLS

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4

Resource Center – Videos



VIDEOS

Navigate to the “Videos” sub-module available under the “Resource Center” module.

The screenshot shows the homepage of the "Vegetable Irrigation for Climate Resilience" website. At the top, there is a navigation bar with links for HOME, DECISION PROCESS, EXPLORE DATA, RESOURCE CENTER (with a dropdown menu), CONTACT, and a language switcher (En). The RESOURCE CENTER dropdown menu is open, showing options like About VIC, Publications, Guideline and Tools, and Videos, with the Videos option highlighted by a red box. Below the navigation is a large banner image showing farmers working in a field under umbrellas. On the left side of the banner, the word "Videos" is displayed in white. Below the banner, there are search filters for "All Years" and "Search by Text and Tags", along with a "Search" button. The main content area displays two video thumbnails. The first video, titled "Bundling solar irrigation technologies and services | IWMI", was posted on 22 September, 2022. It features a play button over a thumbnail image of a presentation slide with the text "IWMI Bundling solar ...". A "Read More" link is provided below the thumbnail. The second video, titled "How to organize demand and supply linkage workshop | IWMI", was posted on 14 September, 2022. Its thumbnail is partially visible at the bottom left. At the very bottom left of the page, there is some JavaScript code: "javascript:void(0)" and "How to organiz".

Vegetable Irrigation for Climate Resilience

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5 Contact



CONTACT

Navigate to the “Contact” module from the navigation panel on the homepage.

The screenshot shows the homepage of the 'Vegetable Irrigation for Climate Resilience' website. At the top, there is a navigation bar with links for HOME, DECISION PROCESS, EXPLORE DATA, RESOURCE CENTER, and CONTACT. The CONTACT link is highlighted with a red box. Below the navigation bar is a large banner image of a irrigation system spraying water onto a field of green plants under a cloudy sky. On the left side of the page, there is a 'Contact' section with fields for Name, Email address, Your organization, and Enquiry Message. On the right side, there is a 'Regional Office' section for CGIAR System Organization located at 1000, Avenue Agropolis, F-34394 Montpellier cedex 5, France, with contact information including a phone number (+33 (0)4 26 69 00 20) and email (contact@cgiar.org). The URL https://vict.itechmission.org/toolkit/page/contact is visible at the bottom left.

Vegetable Irrigation for Climate Resilience

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Vegetable irrigation is a critical component of climate resilience, particularly as shifting weather patterns and extreme events become more common.

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Email address

Your organization

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Regional Office

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