//////WEBINAR SERIES: SPECIAL SESSION

BUILDING NEXUS RESILIENCE: ADDRESSING MIGRATION AND CONFLICTS IN WATER-ENERGY-FOOD (WEF) SYSTEMS

Special Session: Dresden Nexus Conference



Wednesday April 9, 2025

































BASSEL DAHER

Texas A&M Energy Institute SustainFood Network International Water Resources Association

BUILDING NEXUS RESILIENCE: ADDRESSING MIGRATION AND CONFLICTS IN WATER-ENERGY-FOOD (WEF) SYSTEMS











WM nternational Water Management Institute







3:35







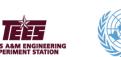


REWA ASSI

International Water Resources Associations (IWRA)















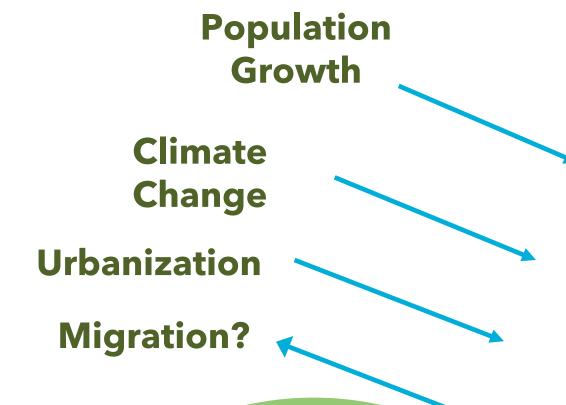












FOOD +50-60% by 2050

2.2 Billion people lack access to safe drinking water WATER +20-30% by 2050

70% of freshwater used by agriculture sector

15% of global freshwater withdrawals for energy production

30% of world energy consumed by food sector

783 Million people suffer chronic hunger 746 million people lack access to electricity

COVID-19 Extreme events



ENERGY +50% by 2050

(Daher and Mohtar, 2022; IRENA 2015)



281 million

international migrants globally in 2020, or 3.6 per cent of the world's population



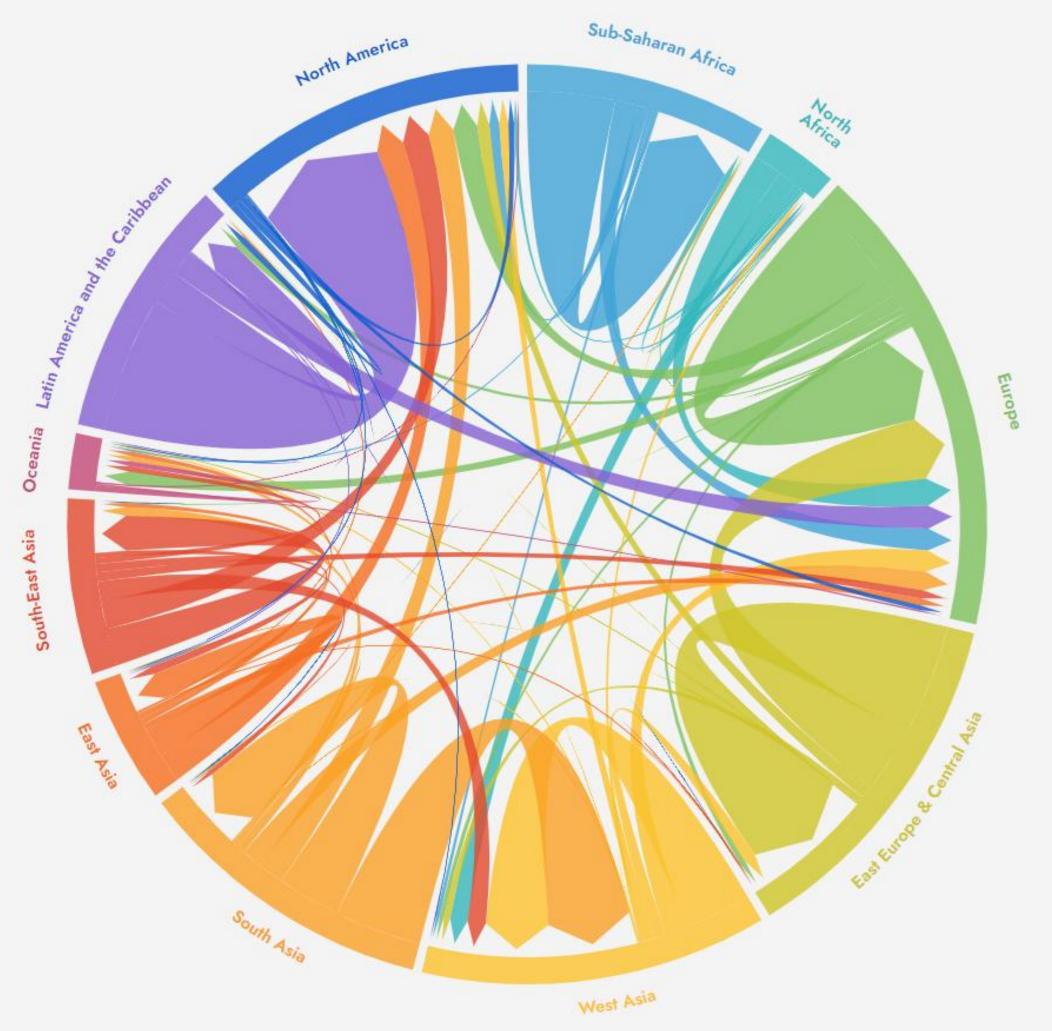
117 million

people were living in displacement globally at the end of 2022 (includes refugees, asylum-seekers, IDPs and others)



WORLD MIGRATION **REPORT 2024**





Abel, G.J., Cohen, J.E. (2019). Bilateral international migration flow estimates for 200 countries. Sci Data 6 82





Catalyze cross-disciplinary, crossinstitutional, and international dialogues toward understanding the knowledge gaps and opportunities in taking a holistic, systems approach to addressing interconnected challenges at the intersection of migration and waterenergy-food systems.

























- 1in nexus assessment tools.
- **Contribute** to exploring and 2and resilient solutions.

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Facilitate the development of a common framework and road map for integrating migration

developing anticipatory tools and strategies incorporating migration dynamics into nexus assessments, aiming to guide policymakers, researchers, and practitioners toward evidence-based, sustainable,











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Special Session April 9, 2025

Dresden Nexus Conference











WEBINAR SERIES CONTRIBUTORS



TEXAS A&M UNIVERSITY Texas A&M **Energy Institute**









COLUMBIA CLIMATE SCHOOL CENTER FOR INTERNATIONAL EARTH SCIENCE INFORMATION NETWORK





BUILDING NEXUS RESILIENCE: Governance Considerations and Evidence-based Policy Making



















Food and Agriculture Organization of the **United Nations**



PUBLIQUE

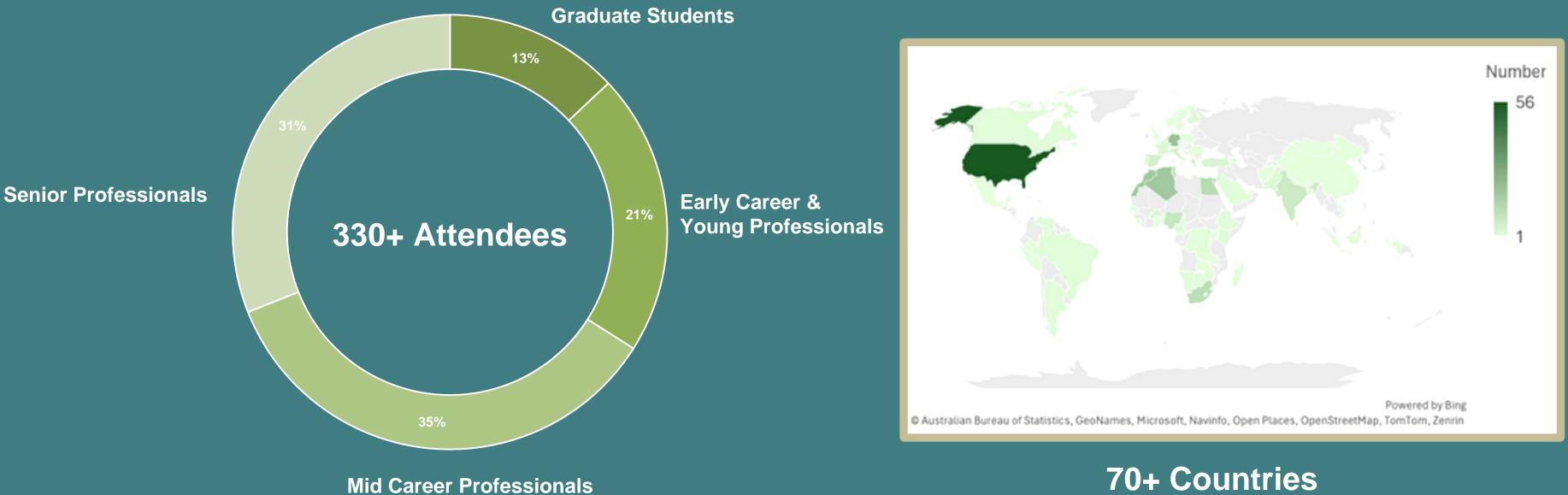








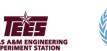
///// WEBINAR SERIES KEY STATS



BUILDING NEXUS RESILIENCE: ADDRESSING MIGRATION AND CONFLICTS IN WATER-ENERGY-FOOD (WEF) SYSTEMS











(WM) International Water Management Institute













WEBINAR SERIES KEY TAKEAWAYS: Case Studies Highlights

In the Congo Basin and Sahel regions, increasing water stress driven by climate change, population growth, and large-scale hydropower threatens food security, livelihoods, and ecosystems, contributing to migration and conflict.

Floods in **South Sudan** affected 1.4 million people, displaced 380,000, submerged critical infrastructure, and devastated crops and livestock, worsening food insecurity in a nation where six out of ten people already face food insecurity.

climate policy Russia's shifted has significantly global since 2022—from efforts mitigation inward-focused to adaptation—driven by political isolation, reduced state-controlled funding, and narratives. Africa Climate Mobility (ACMI) Initiative revealed that water availability affects migration in Africa: flooding can lead to changing rainfall due to migration and droughts reduce agricultural productivity which promotes rural populations to migrate to urban areas, but can also lead to trapped populations.

Migration in Pacific SIDS, such as Kiribati, Tuvalu, and Nauru, is driven by environmental factors, including flooding and droughts. These challenges create pressure for internal migration, often moving populations from vulnerable outer islands to more urbanized ones. Rural **Zimbabwe** is influenced by economic and climatic drivers of mobility: declining vields patterns and droughts exacerbate poverty and food insecurity and make migration a desired alternative.



















WEBINAR SERIES KEY TAKEAWAYS:

- Addressing water, energy, food, and ecosystem challenges requires integrated solutions that consider their impact • on migration dynamics, socioeconomic fragmentation, sociocultural dynamics, and sociopolitical volatility; requires a systems approach, interdisciplinary collaboration.
- Novel, context-specific tools are needed to quantify interlinkages, assess trade-offs, and guide strategic planning • and decision-making.
- Integrating WEFE Nexus assessments with migration models presents significant opportunities for a better • understanding of how resource insecurities may contribute to migration, particularly in vulnerable regions. However, achieving this integration requires addressing challenges related to theory, data compatibility and model resolution.
- Current migration models often focus on physical factors like water and crops, overlooking key social and • economic drivers. Greater emphasis is needed on social networks, culture, and governance, which strongly influence migration choices
- Without holistic and targeted support and interventions that address the root causes of vulnerability in rural areas, migration may present challenges for populations left behind (loss of labor and reduced land cultivation; children dropping out of school) that can hinder its potential to build long-term resilience























/////WEBINAR SERIES KEY TAKEAWAYS: Open Research Questions

- **Data Gaps & Interdisciplinary Collaboration** How can we improve access to granular, disaggregated data and promote interdisciplinary methods to support evidence-based, cross-sectoral decision-making?

?

- **Integrated Modeling** How can WEF Nexus assessments be effectively integrated with migration models to reflect complex, multi-scalar drivers and outcomes?
- ?
- **Social Dimensions in Migration Modeling** How can migration models better incorporate social networks, governance systems, and cultural practices-beyond environmental and economic factors?
- ?
- Vulnerability-Focused Research How can models and policies better capture the specific experiences of vulnerable groups (women, children, ethnic minorities)?
- ?

Governance & Policy Coherence What multilevel governance structures and integrated policy frameworks can optimize WEF management and migration outcomes under growing climate stresses?





























Hind Aissaoui **International Migration** Organization (IOM)



Mohsin Hafeez

International Water Management Institute (IWMI)



BUILDING NEXUS RESILIENCE: ADDRESSING MIGRATION AND CONFLICTS IN WATER-ENERGY-FOOD (WEF) SYSTEMS











(WM) International Water **Management Institute**





Ali Rhouma PRIMA foundation









Human mobility in the context of climate change in West and Central Africafrom fair narrative to concrete action

HIND AISSAOUI

International Migration Organization (IOM)



























Climate-Induced Migration: Case Study from Southern Indus Basin in Pakistan

MOHSIN HAFEEZ

International Water Management Institute (IWMI)

























Climate-Induced Migration: Case Study from Southern Indus Basin in Pakistan

Mohsin Hafeez, Kanwal Waqar, Novaira Juanid Strategic Program Director - Water, Food and Ecosystems, IWMI

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Pakistan Case Study

- Pakistan highly vulnerable to climate change, disasters and water and food insecurity (Top 10 countries)
 - 173 climate extreme events between 2000-2019
 - Predicted to reach water scarcity by 2025
- Floods caused 1.2 million displacements in South Asia in 2023, with Pakistan accounting for 647,000 displacements, more than half (IDMC 2024).
 - As of 2023, Pakistan has around 1.2 million IDPs from disasters, the second largest in the South Asia region
- First study of its kind capturing challenges of climate-inducted migrant communities' vulnerabilities

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Damages	2022 Flood
Area Hit	33 percent
ple Affected	33 million
Deaths	1,700
Houses st/Damaged	1.7 million
ps Damaged	8.3 million acres
estock Lost	1.1 million
Monetary Damages	Over USD 15 billion in damages; USD 15 billion in losses and USD 16 billion needs estimate



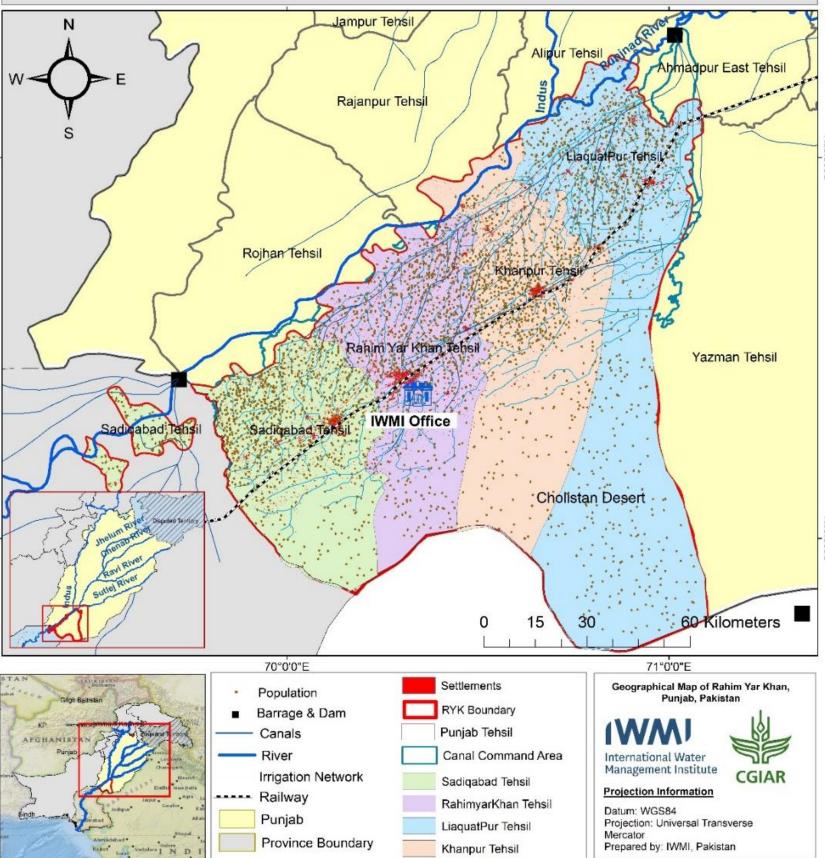




Data Source Punjab Irrigation Department

Study Area: Rahim Yar Khan District

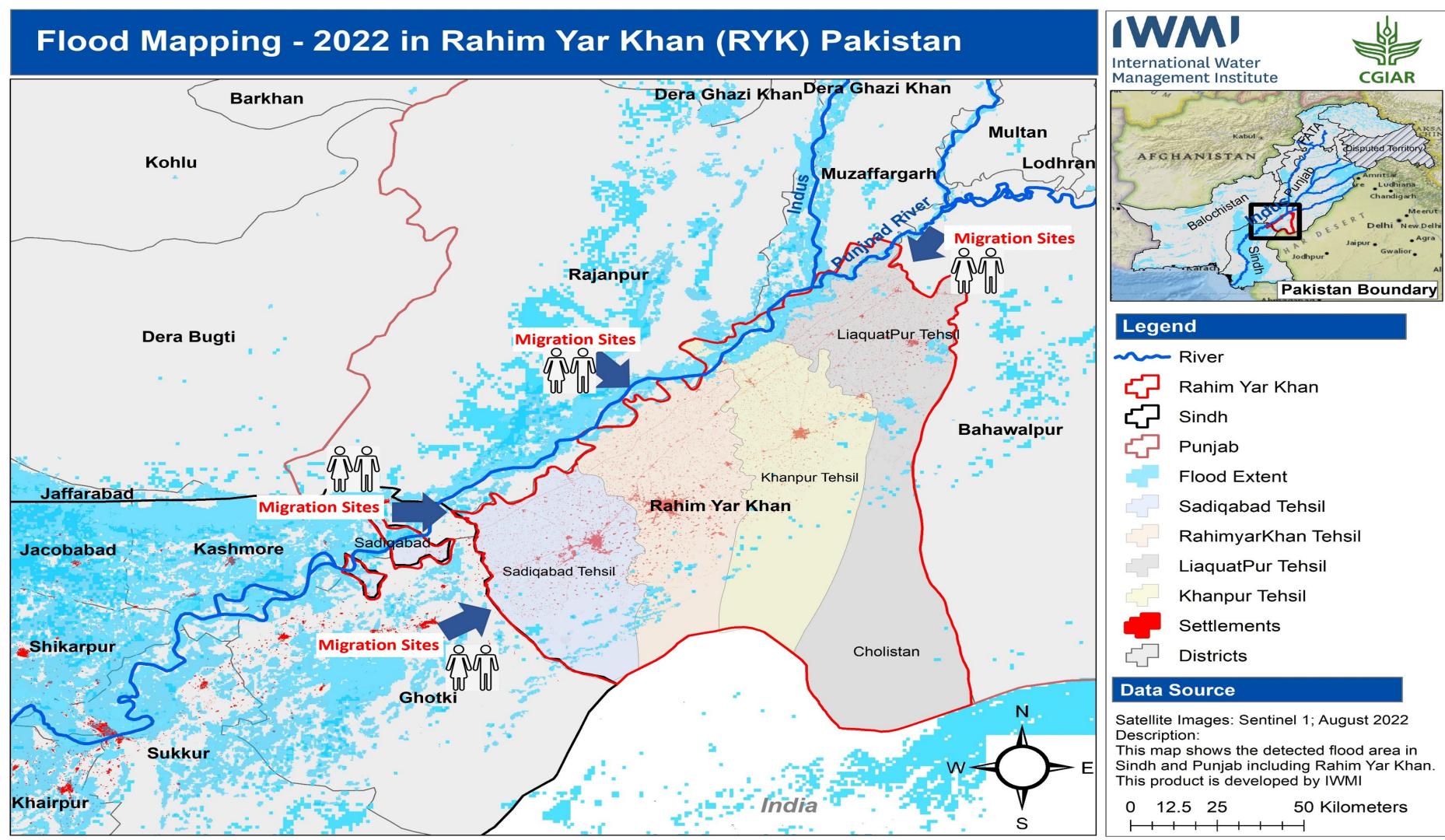
Administrative Map of Rahim Yar Khan, Punjab



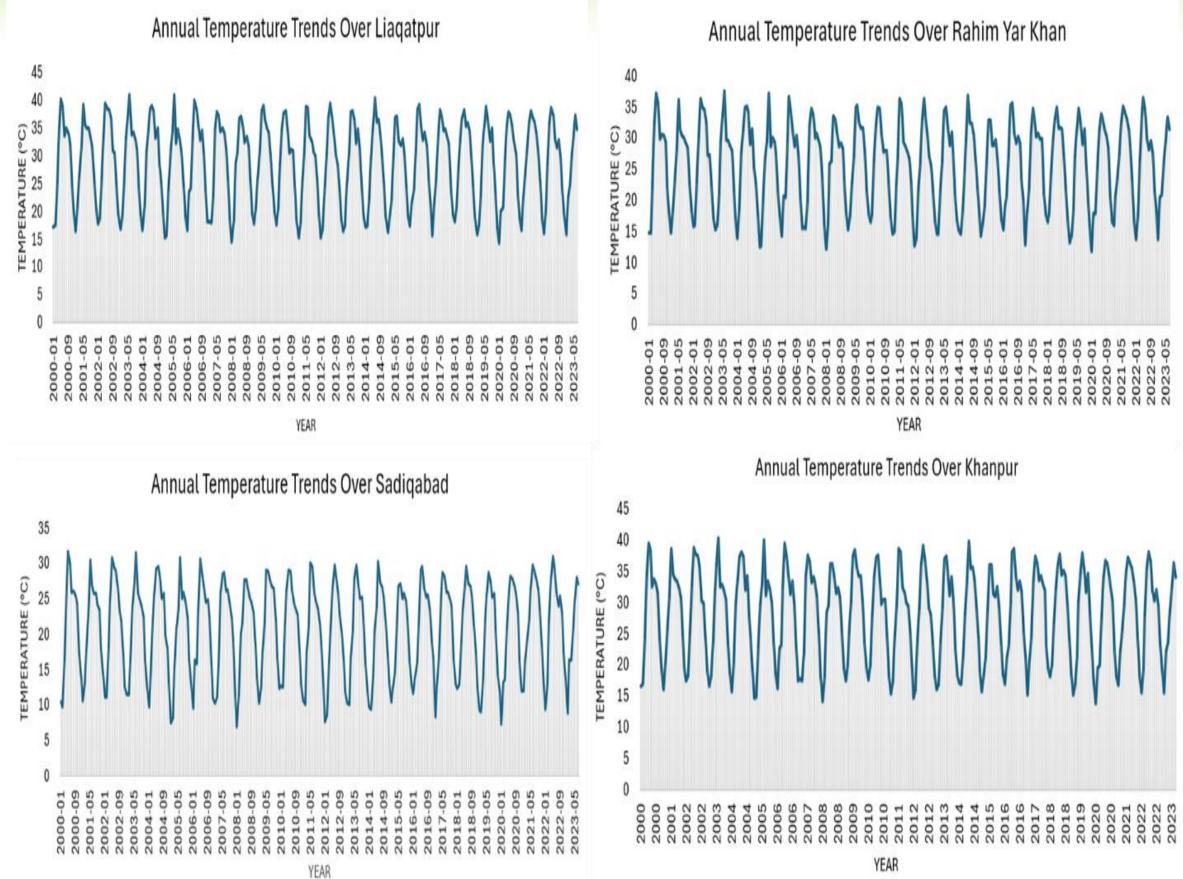




- **District Rahim Yar Khan** (comprised of 4 tehsils/administrative divisions and Cholistan Desert)
- Susceptible to floods, drought, locust attacks and resulting health impacts (water-borne illnesses, malnutrition)
- RYK serves as both disaster affected community and host community for neighboring areas (unique case study for learning)



Temperature Trends (°C)







NEXUS Gains: Realizing Multiple Benefits Across Water, Energy, Food and Ecosystems

A substantial seasonal variation is evident in monthly average temperatures as it is approximately 14.5°C in January which increases significantly to **32.1°C in May before reaching** 34°C in June.

Precipitation Trends (mm)

500

450

400

E 350

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e 150

50

0 0 0

2004-2005-

2005-

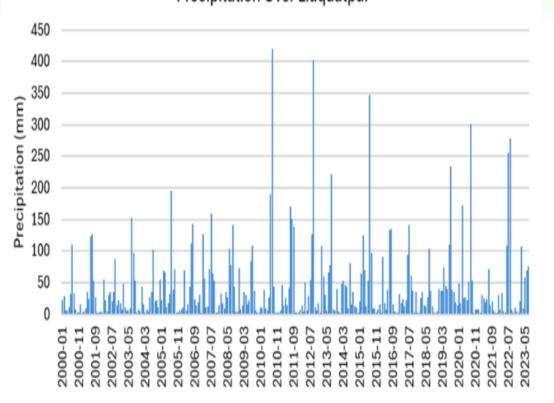
2000-2000-2001-2002-2003-

0 250

۵ 100

Precipitation Over Liaguatpur

Precipitation Over Rahim Yar Khan



Precipitation Over Khanpur

2010-2010-

008 2009

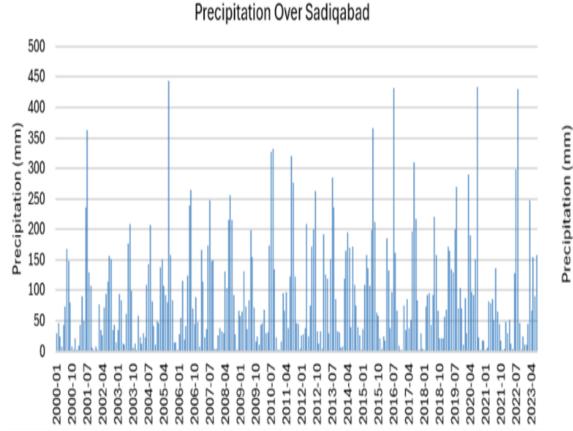
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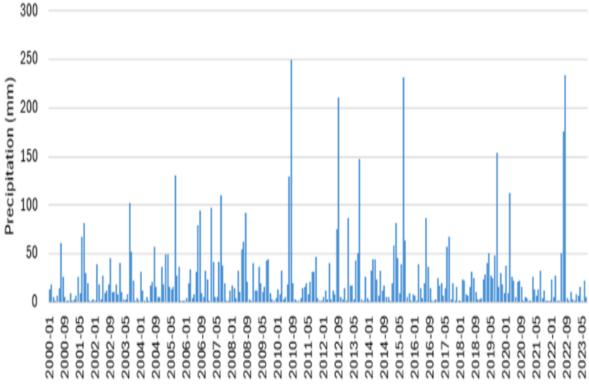
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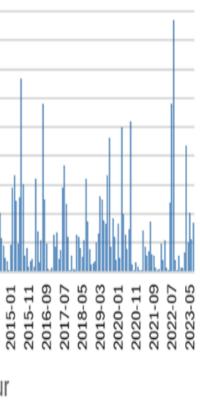






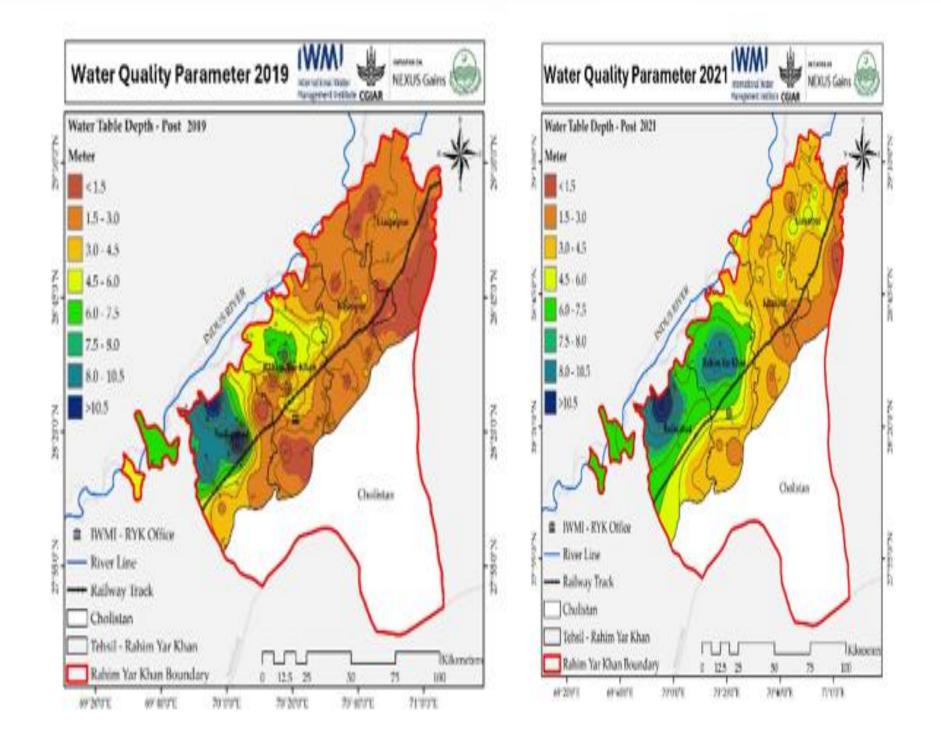


NEXUS Gains: Realizing Multiple Benefits Across Water, Energy, Food and Ecosystems



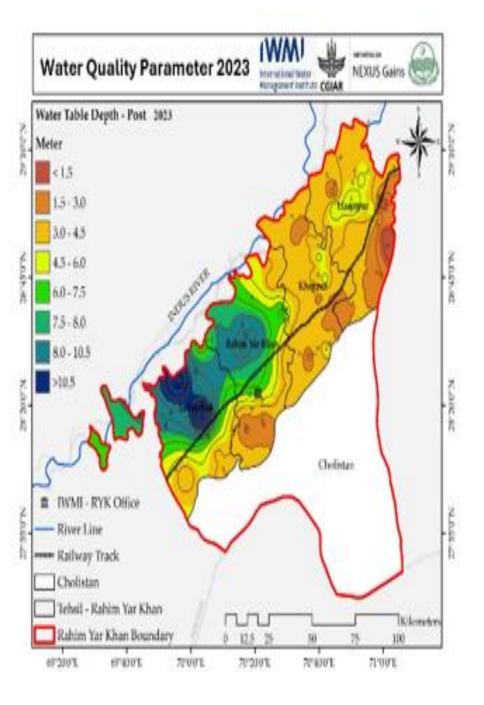
Exceptional monsoon activity is the primary cause of substantial variability in total annual rainfall which plays a crucial role in agricultural productivity, economic stability, and vulnerability in district Rahim Yar Khan.

Water Table Depth (m)

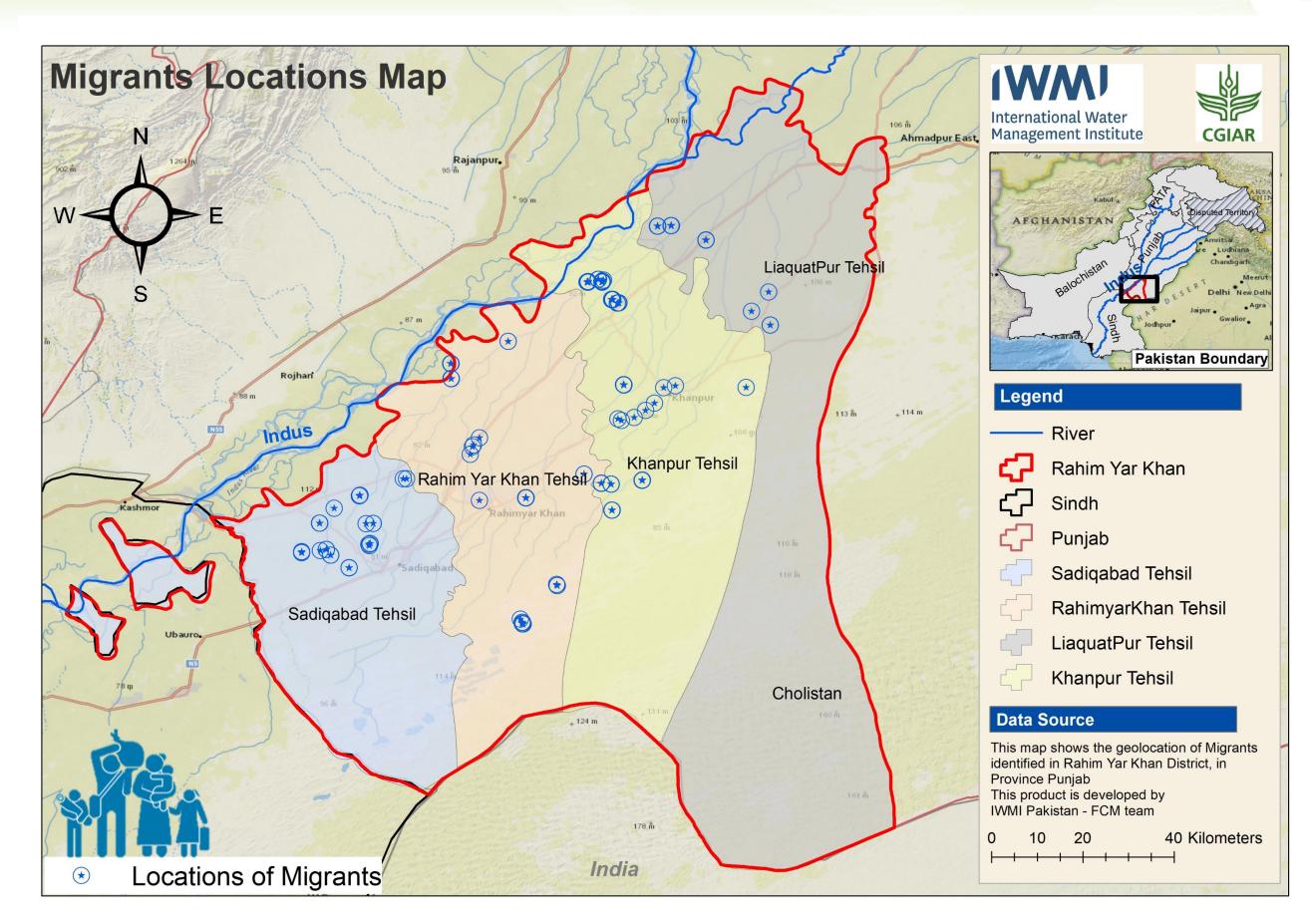


Tehsils Rahim Yar Khan and Sadiq Abad are facing groundwater depletion with declines crossing the depth of the water table by more than 10 meters. Tehsils Khanpur and Liaquatpur are reaching water table depths of 1.5 to 6.0 meters.





Migrant Community "hotspots" identified







Methods

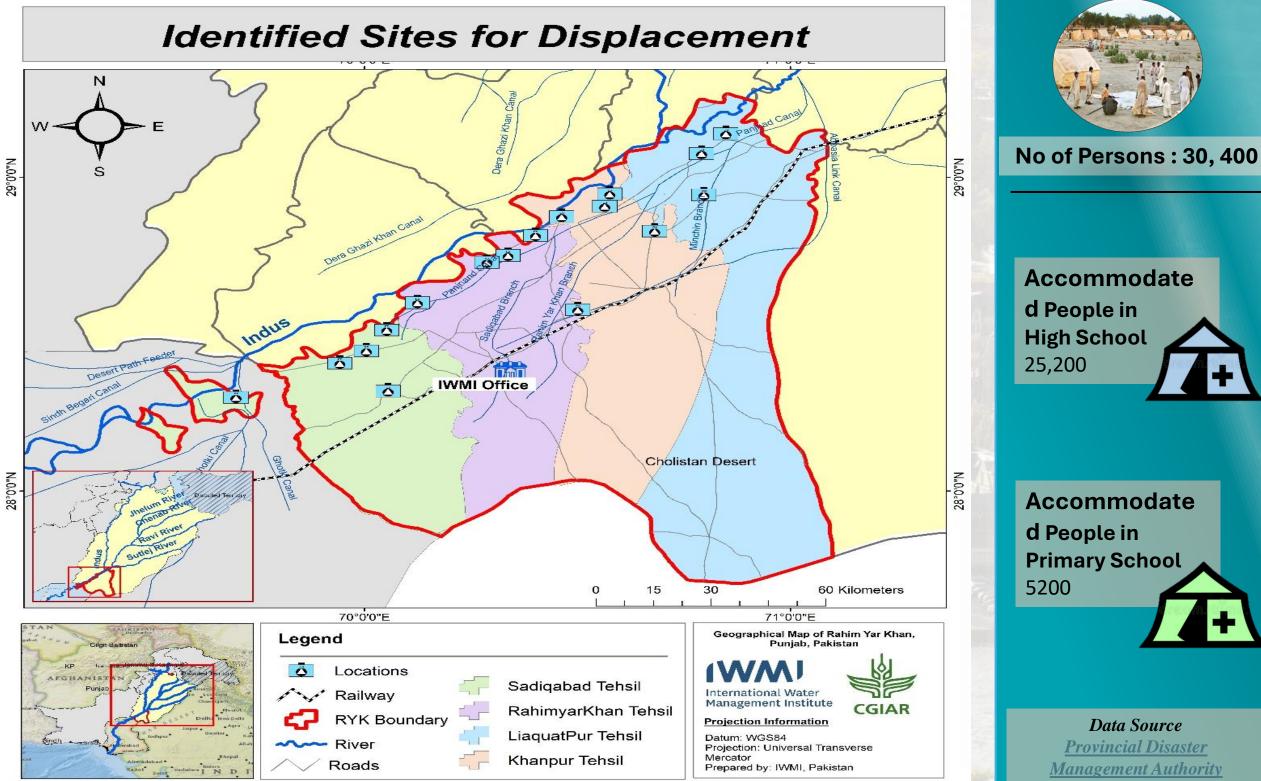
- Scoping of district (Sept-Dec 2023) to identify climate migrant communities helped inform sampling of larger field survey (Dec 2023-Jan 2024)
- Surveyed total of 826 climate migrants/displaced persons (322 women, 504 men)
- District survey complemented with KIIs and FGDs
 - 12 FGDs (7 women's and 5 men's)
 - 43 KIIs across district, province and federal level



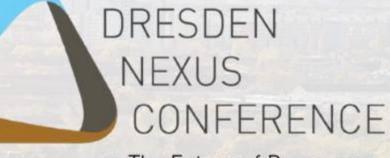




Designated Sites for Displaced Persons: Humanitarian Relief Map 2022



Rahim Yar Khan District for the Disaster Management Plan 2022 for displaced Persons.



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Scoping Visit (September 2023)



























DRESDEN NEXUS CONFERENCE DNC 2025 The Future of Resources Resources for the Future

Field scoping visit over RYK to identify climate migrants

- Migrants are from Balochistan, Sindh and Punjab provinces affected by 2022 floods
- Mostly are associated with agriculture sector
- Punjab government has established Model Village in Chak NP-48 in Rahim Yar Khan (1 of 3 Model Villages)
- Comprised of 100 houses (flood-affected • families chosen through lottery system by district administrators)
- People living there are flood victims of 2010 and 2022 floods
- Village contains a primary school, a health • center, a veterinary clinic and a technical training institute

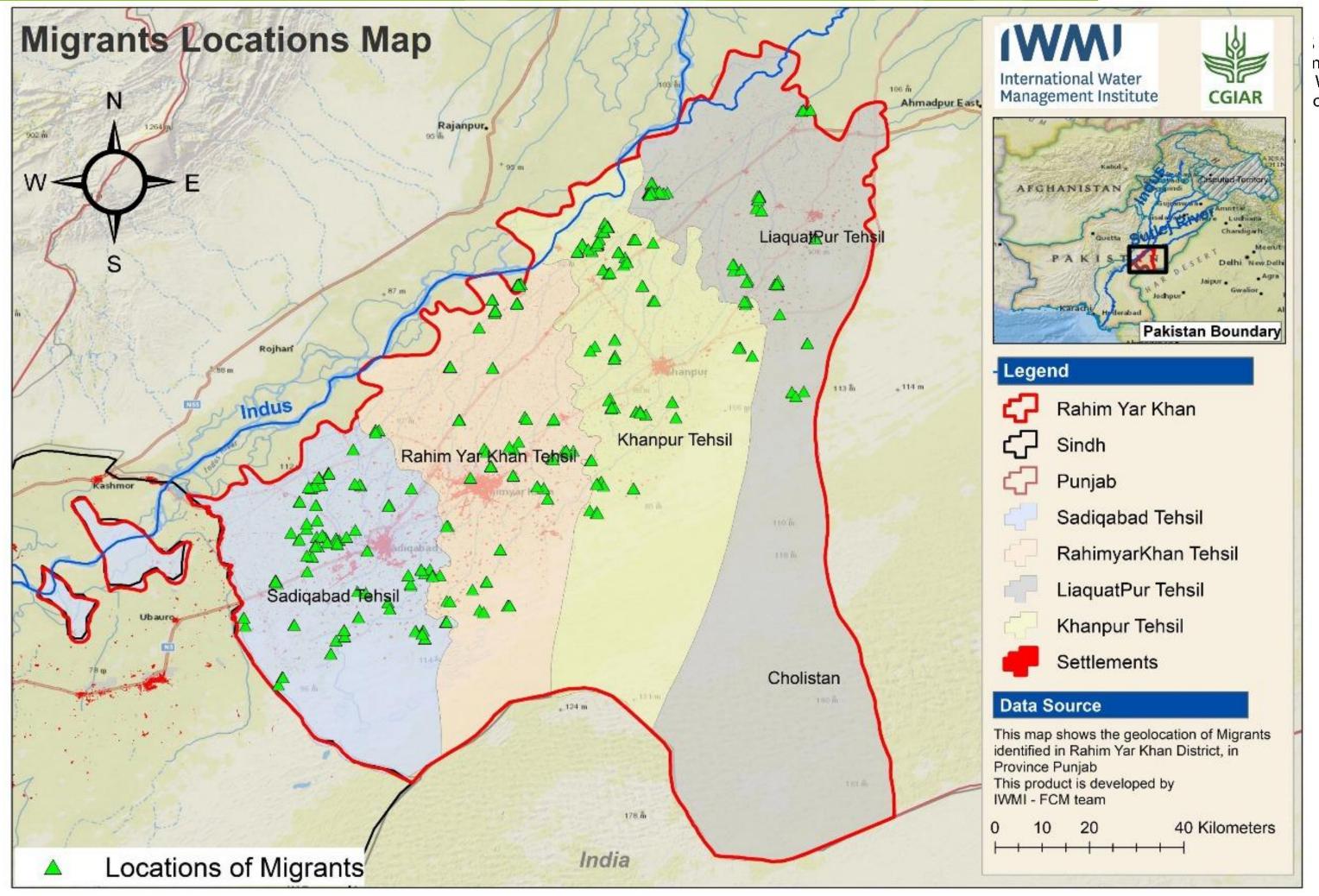
Survey and interview themes

Themes covered migration challenges related to:

- Livelihoods
- Water and food insecurity levels
- Water quality and access issues •
- Water, sanitation and hygiene (WASH) •
 - Menstrual Hygiene Management (MHM)
- Pre- and post- migration changes in wealth •
- Early warning information and digital ecosystem
- Survey supplemented with FGDs and KIIs with relevant disaster management government authorities, academia and humanitarian and civil society actors working on the ground – at the district, provincial and federal levels
- Research study aimed to answer the overall question: What challenges and barriers do climate-induced migrants and/or IDPs face in RYK and what strategies can we employ to enhance disaster management and climate resilience?

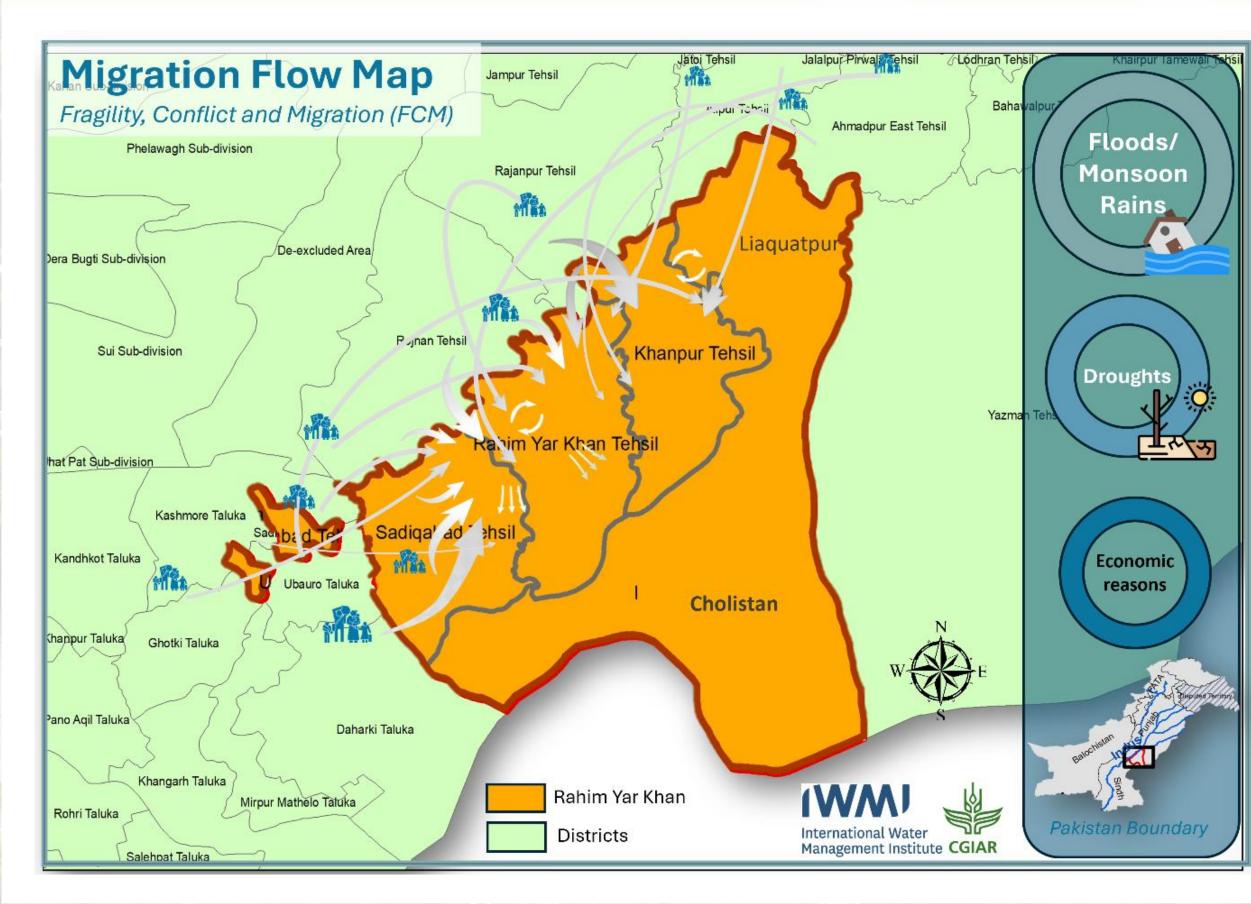






Gains: ng Multiple Benefits Water, Energy, Food osystems

Migration trends

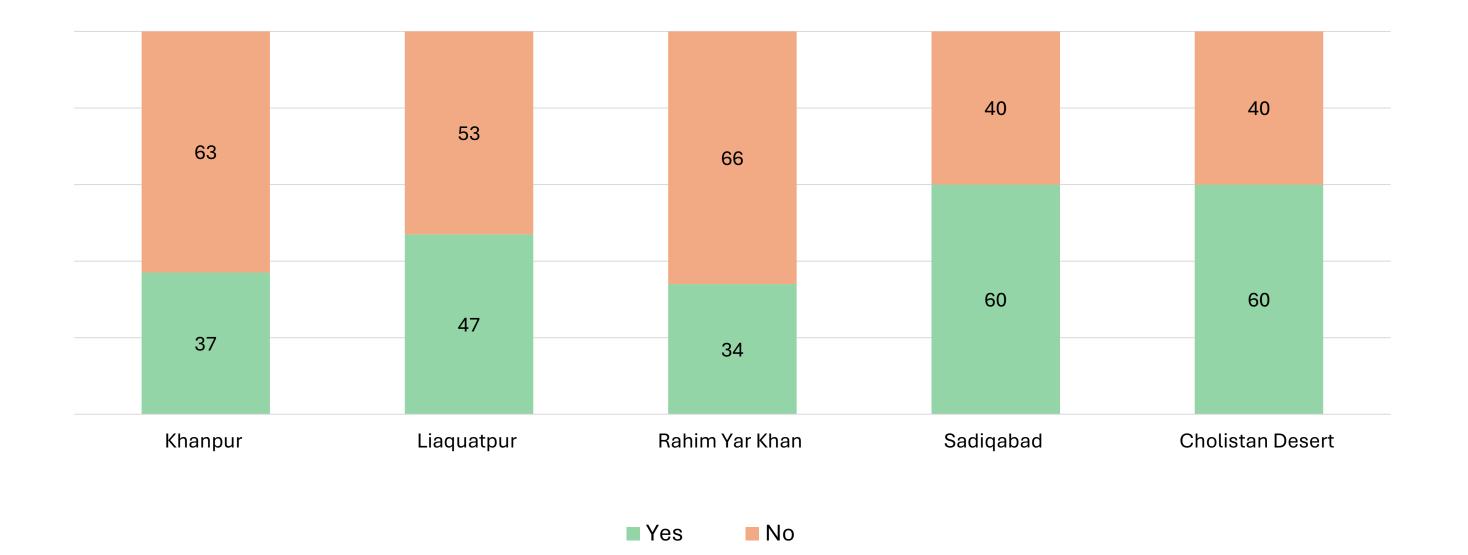




- Primary driver of migration or displacement was floods (98%)
- Majority migrated or were displaced from other districts in Punjab province (41%), within RYK (40%) or from Sindh province (18%)

Water Access Problems

Percentage of households with water access problems across tehsils



Tehsil variations suggest differences in access to water depending on where a household is settled and water availability across the district





Water Insecurity (IWISE Scale)

- IWISE Tool (Young et al. 2021) used in survey to assess water insecurity levels
 - 12-item validated tool to measure personal experiences of water insecurity scored on a range of 0-36
- Overall, 54% respondents are water secure while 46% are water insecure
- Who is more water insecure?

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659		
		659

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NEXUS Gains: Realizing Multiple Benefits Across Water, Energy, Food and Ecosystems

Water insecurity of men and women climate migrants across District RYK

 Women (n=322)
 Men (n=504)

 65%
 35%

 35%
 65%

 Water Secure
 Water Insecure

Water quality and health

- RYK faces issues of poor water quality (high arsenic, TDS, nitrate and fluoride levels)
- Floods exacerbated poor water quality and prevalence of water-borne diseases exacerbated
- High prevalence of diarrhea (80%), gastroenteritis (60%), typhoid (54%), skin irritation/rashes (51%) and cholera (45%) among migrant and displaced communities
- Women had higher reported prevalence of diarrhea, Hepatitis A, typhoid, malaria, gastroenteritis, cholera and skin irritations/rashes as compared to men and young boys and girls

The flood had shocking effects on health. The contaminated water caused various illnesses, and **people suffered from infections, fevers, hepatitis and itching**. Some even had complications during pregnancy due to the lack of proper nutrition. The water in the rivers, which used to be a source of drinking water, became polluted during the flood. (Men's FGD, Sadiqabad)







Waterborne diseases

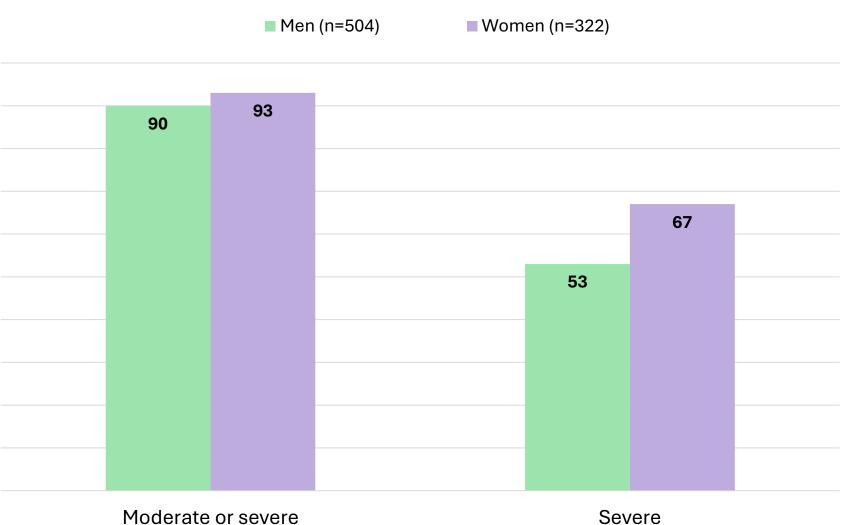
	Khanpur	Liaquatpur	Rahim Yar Khan	Sadiqabad	Cholistan Desert	Total
Diarrhea	88	75	76	82	81	80
Malaria	71	62	69	71	74	69
Gastroenteritis	67	60	53	63	64	60
Typhoid	70	42	47	59	57	54
Skin irritations or rash	59	52	44	54	45	51
Cholera	54	46	37	45	43	45
Hepatitis A	31	17	16	31	19	23
Hepatitis E	16	12	16	23	19	17
Intestinal worms	24	19	10	28	6	19
Dengue	15	12	10	11	11	12



Food Insecurity (FIES)

Women are more food insecure than men, experiencing higher prevalence of moderate or severe and severe food insecurity

Food Insecurity prevalence of men and women across RYK



Moderate or severe







NEXUS Gains: Realizing Multiple Benefits Across Water, Energy, Food and Ecosystems

% Respondents

Living Standards Before and After Migration or **Displacement**

Even before migration or displacement occurred, majority of men and women were already in the poor or poorest wealth quintiles.

This became even worse after migration/displacement

Need to address not only immediate humanitarian needs but also long-term economic resilience and adaptation strategies for climate-displaced populations

	Before Migration/ Displacement	After Migration/ Displacement
Poorest	56%	78%
Poor	31%	19%
Middle	11%	2%
Rich	2%	1%
Richest	1%	0%





- Links between climate change and migration are missing from policies/plans in Pakistan
- Gender plays a significant role in affecting water and food insecurity and should be considered in policy and planning (and women are more vulnerable to disasters)
- Communities most vulnerable to climate change and the impacts of disasters were likely already experiencing water and food insecurity before the floods struck.
 - These populations, already facing significant socio-economic challenges, were already experiencing compound vulnerabilities, and the floods intensified the severity (with women feeling harsher impacts)
- Need for more proactive planning (Anticipatory Action) and not just focus on immediate humanitarian needs post-disasters



NEXUS Gains: **Realizing Multiple Benefits** Across Water, Energy, Food and Ecosystems

Synthesis of Key Recommendations

Short-term

- Improve access to essential services (clean water, sanitation facilities, shelter, food, mobile health units, etc.) immediately following disaster
- Support climate-resilient agriculture and water management through coordination/collaboration between disaster management authorities and Irrigation Departments (OFWM)
- Map migration and insecurity hotspots for targeted support

Medium-term

- Integrate migrant and IDP households into national programs for better social protection and access to assistance
- Enhance shelter and camp infrastructure
- Improve Early Warning Systems (EWS)
- Develop a Disaster Management Information System (DMIS) with standardized data to serve as a harmonized platform for enhancing disaster response decision-making and streamlining operations





NEXUS Gains: Realizing Multiple Benefits Across Water, Energy, Food and Ecosystems



• Facilitate regional cooperation to adapt best practices



Applying a nexus approach to climate action planning: the climate change, rural livelihoods and human mobility nexus

GIORGIA PRATI

Food and Agriculture Organization of the United Nations (FAO)

BUILDING NEXUS RESILIENCE: ADDRESSING MIGRATION AND CONFLICTS IN WATER-ENERGY-FOOD (WEF) SYSTEMS

























Applying a nexus approach to climate action planning: linking climate change, rural livelihoods and human mobility

Dr Giorgia Prati, Climate Change and Migration Thematic lead, FAO



Food and Agriculture Organization of the United Nations



Overview

Integrating the climate change, rural livelihoods and human mobility nexus into climate adaptation and mitigation planning

- Why it is necessary
- How it can be done
- How it can help

Rural populations are on the frontline of climate change

Between 2007 and 2022 agriculture absorbed:

- 23% of all disaster impacts;
- 65% of drought-related losses.

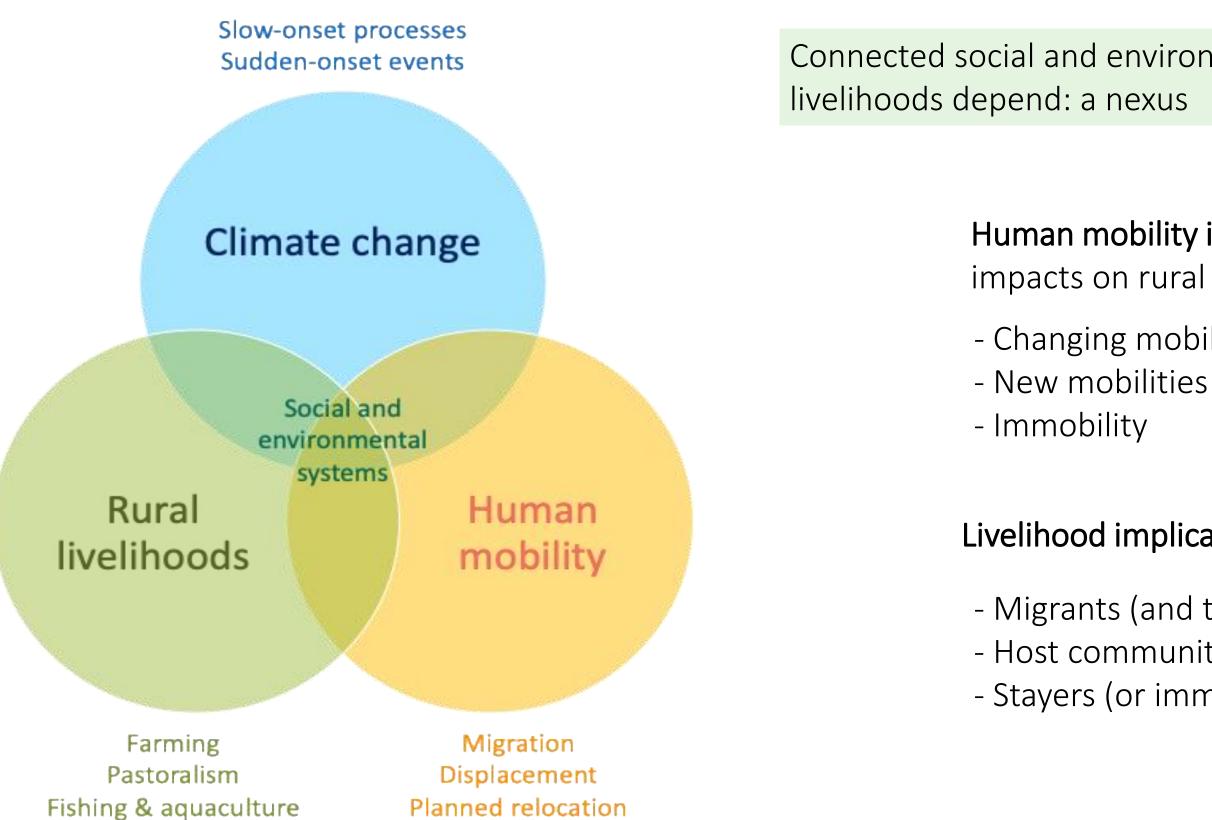
Rural agricultural livelihoods at risk:

- 1.23 billion people globally are employed in agrifood systems;
- 3.8 billion people globally depend on agrifood systems for livelihoods;
- In sub-Saharan Africa, 60% of the population depends on agriculture and over 95% of cultivated land is under rainfed agriculture,

Implications for food security and human mobility.



Climate change, rural livelihoods and human mobility: a nexus



Immobility

Forestry

Connected social and environmental systems upon which rural

- Human mobility implications of climate change impacts on rural livelihoods:
- Changing mobility patterns
- **Livelihood implications** of human (im)mobility for:
- Migrants (and their families) - Host communities (and environments) - Stayers (or immobile populations)

Rural livelihoods and mobility in climate action plans

National Adaptation Plans (NAPs) and Nationally Determined Contributions (NDCs) recognize agriculture as one of the most climate vulnerable sectors

But only around 6 percent mention farmers

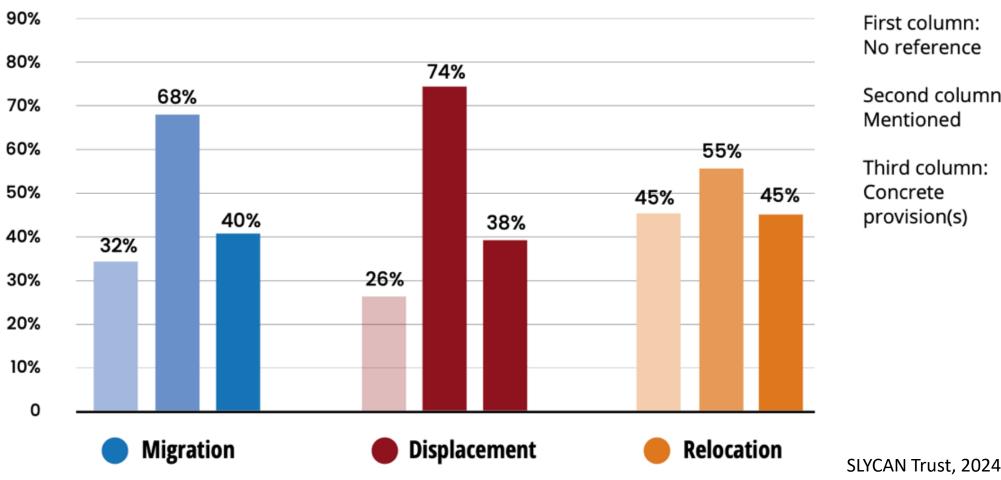
Mobility and immobility are largely overlooked in adaptation and mitigation planning



Mobility in 53 National Adaptation Plans (NAPs):

85% mention some form of human mobility

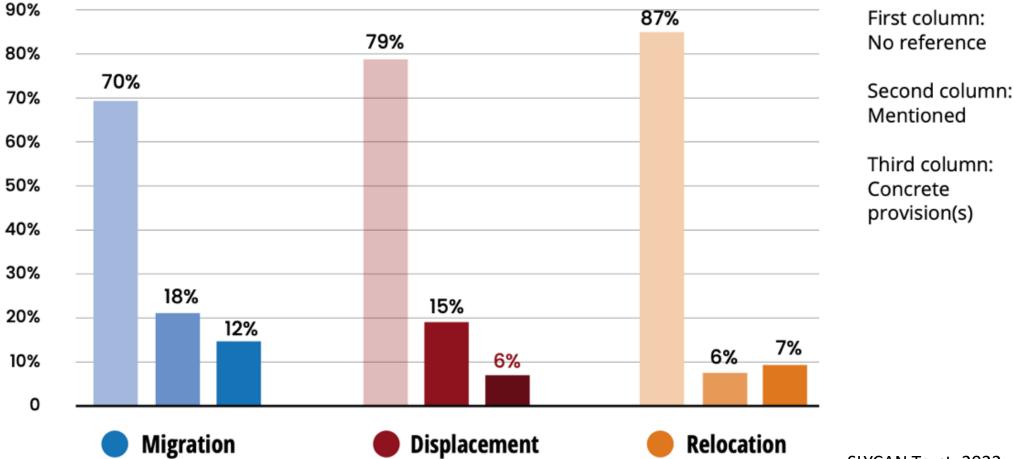
66% include actions to address human mobility



Mobility in 156 Nationally Determined Contributions (**NDCs**):

39% mention some form of human mobility

Immobility is still a blind spot in NAPs and NDCs



First column: No reference

Second column: Mentioned

Third column: Concrete provision(s)

SLYCAN Trust, 2022

Missed opportunities in climate action planning

Many NAPs and NDCs tend not to consider mobility, immobility and rural livelihoods together.

Gaps and silos in climate policy:

- Undermine the success of migration as adaptation.
- Increase the risk of negative outcomes for migrants, host communities and those who stay behind.
- Increase the risk of adverse implications for rural livelihoods.





A nexus approach: bridging gaps and silos in climate action plans

- Solutions for any one dimension must explicitly consider the other two
- Interactions across different policy domains and disciplines
- Recognition of synergistic, divergent and trade-off outcomes across the nexus
- Sustainable livelihood pathways in the context of climate mobility

Integrating the climate change, rural livelihoods and human mobility nexus...

Break down silos within governance systems. Engage with all affected populations and their organizations Think beyond borders.

Accommodate different experiences, needs and capacities. Address gendered drivers of vulnerability.

Co-create a vision of an alternative future.Bring together relevant voices, experiences and expertise.Facilitate dialogue between all relevant actors.

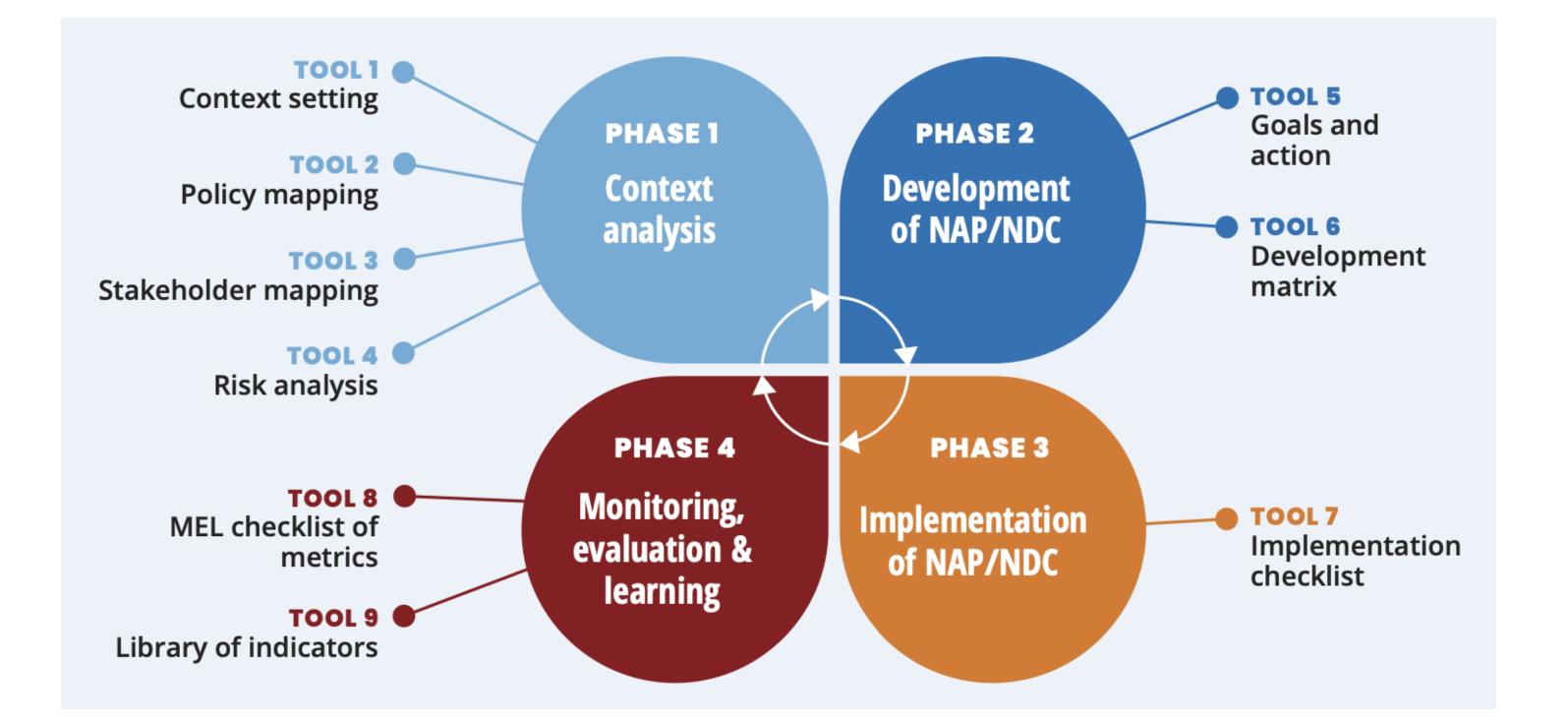
Overall approach Whole-of-government Whole-of-society Transboundary

Core principles Inclusion & diversity Gender responsiveness

Key actions Theory of Change Network creation Communication & coordination

FAO & UNU-EHS 2025a

...across all phases of climate action planning



FAO & UNU-EHS 2025b

A nexus approach can support transformative and migration-responsive climate action

- Addressing the adverse drivers of migration
- Promoting safe and orderly movement
- Supporting those who cannot or do not wish to move
- Leveraging the benefits of migration for climate action
- Promoting coherence and coordination between sectoral policies and at different levels of governance





Thank you!

<u>Giorgia.Prati@fao.org</u>



Food and Agriculture Organization of the United Nations



Beyond Technology: How the WEFE Nexus Strengthens Resilience to Migration and Conflict in Fragile Systems?

ALI RHOUMA PRIMA Foundation

BUILDING NEXUS RESILIENCE: ADDRESSING MIGRATION AND CONFLICTS IN WATER-ENERGY-FOOD (WEF) SYSTEMS











Management Institute















Beyond Technology: How the WEFE Nexus Strengthens Resilience to Migration and Conflict in Fragile Systems?

Prof. Ali Rhouma Project Officer - PRIMA





Challenges of Fragile Communities

Vulnerable communities lie at the core of the WEFE Nexus

Water

- Scarcity
- Poor quolity
- Unequal distribution

Food

- Low productivity
- Climate Impacts
- Market barriers
- Food insecurity

Social challenges

Community tensions Gender inequality Youth exclusion

Governance challenges

- Policy silos
- Lack of inclusivity
- Poor conflict resolution

Energy

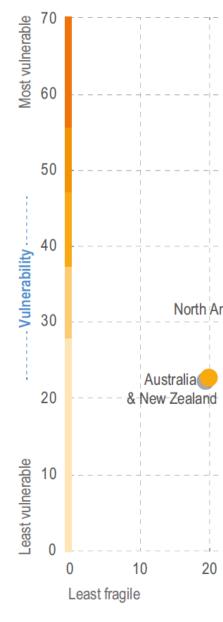
- Limited access
- Unsustainable sources
- Infrastructure gaps

Ecosystems

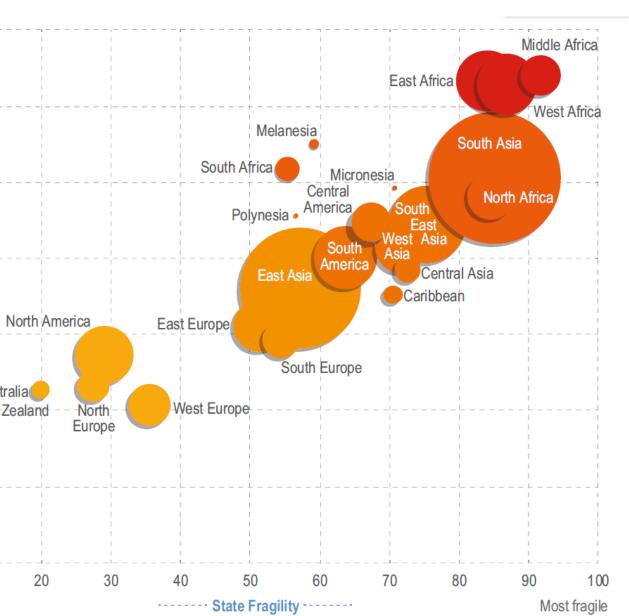
- Degradation
- Resource ove use
- Biodiversity loss
- Climate vulnefabiity

Institutional challenges

- Low capacity
- Poor coordination
- Funding gaps

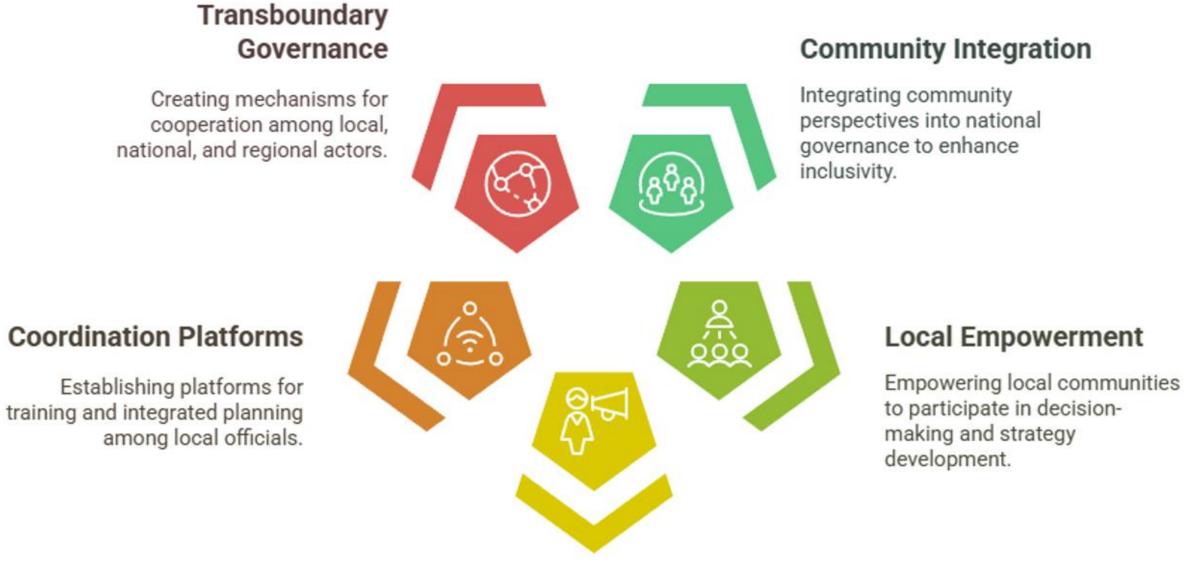






IPCC, 2023

How the Nexus helps to integrate and Inclusive Governance?

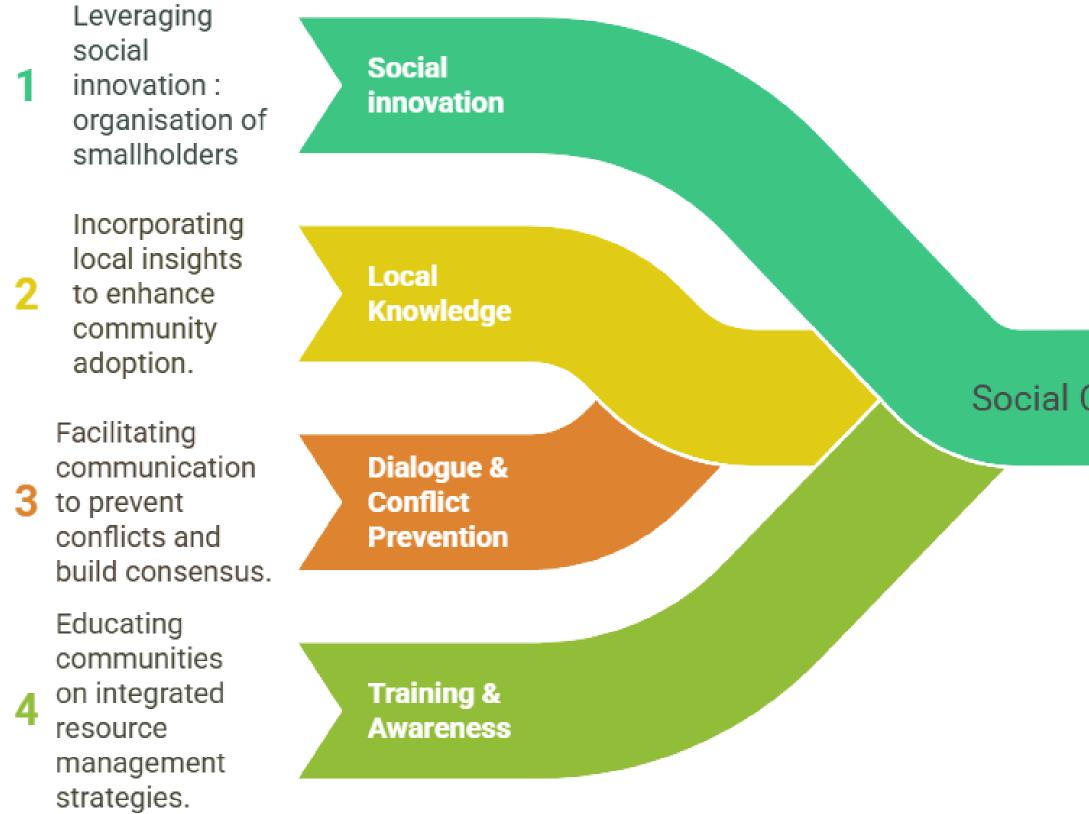


Marginalized Voices

Prioritizing the voices of marginalized groups in governance and recovery efforts.



How the WEFE Nexus improves social cohesion in fragile or vulnerable communities





Social Cohesion

How the Nexus helps to policy cohesion?





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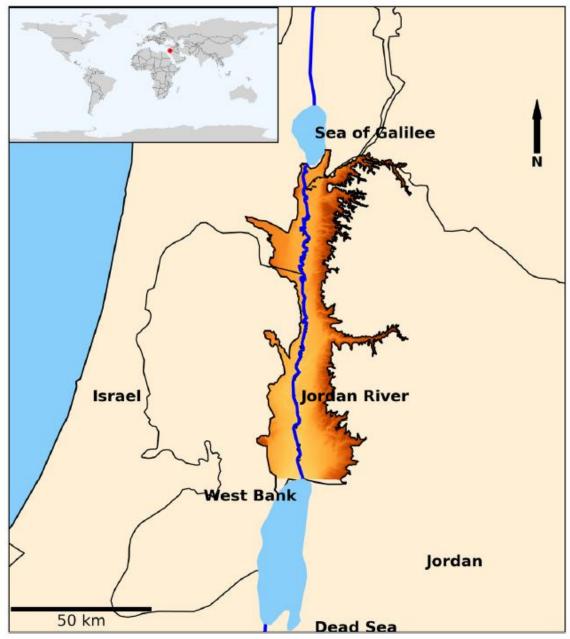


EcoFuture WEFE Nexus project didn't just consider **local communities**, it put them at the center of planning. By valuing their knowledge, assessing their capacities, and aligning policy goals with their priorities, it ensured that **solutions are locally rooted, socially** inclusive, and practically viable.









Nikolaidis et al. (2025)



Women's participation in WEFE NEXUS policies

NEXUS-NESS integrates capacity building and training to support the local communities including a specific actions for rural women

Profitability Enhancement

Linking women to boost agricultural product profitability



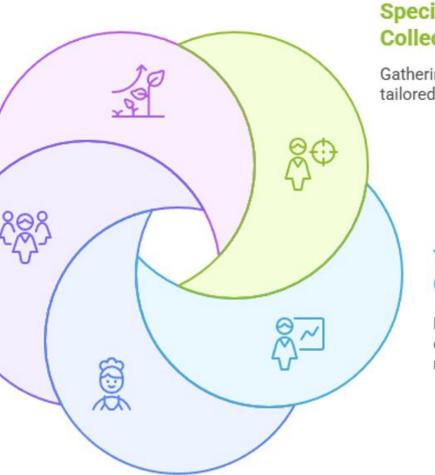
Figure 1: First participatory workshop in wadi Naghamish watershed, Egyptian NEL

Decision-Making Integration

Integrating women into cooperative boards

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DNC 2025 The Future of Resources Resources for the Future



Gender-Specific Data Collection

Gathering data for tailored policies

Training Opportunities

Providing skill development for rural women

Female Cooperatives

Targeting cooperatives for traditional food value



Farmers involved in co-design tools for water use and fertilisers



Provides a holistic crop-livestock water **management** system resilient to climate change

> **MODELS**: MOPECO; PRESUD; DOPIR; IREY; WRF; Agroclimatic-zoning; and Remote monitoring of crops

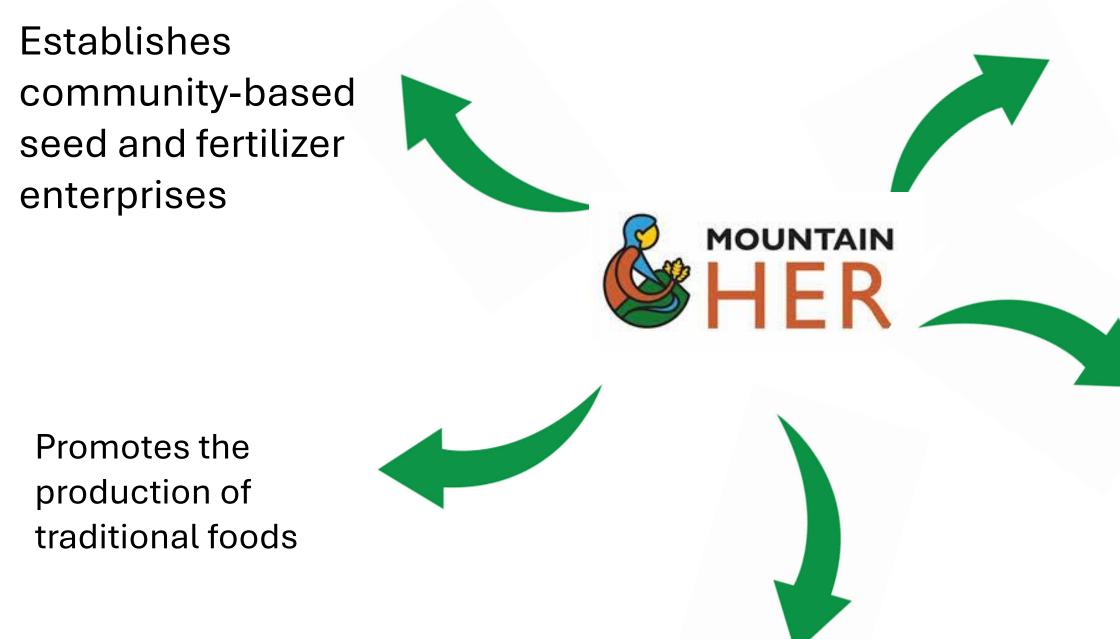
Farmers were involved in the development of the tools integrated in the platform, in the validation of the methodologies at field level, and in the demonstration other to farmers of the suitability of these methodologies for improving the management of their farms.







MountainHER Project empower women in remote areas



Implements agroecological practices to increase productivity and sustainability, benefiting women who manage farms. as DRESDEN NEXUS CONFERENCE

DNC 2025 The Future of Resources Digital innovations and retail assessments to create market opportunities for women-led cooperatives.



Cooperative governance to ensure decent work and enhance women's roles as income generators.





ali.rhouma@prima-med.org

Thank you



Prima Program



Prima Program Mediterranean Partnership @PrimaProgram







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prima_foundation_med





Hind Aissaoui International Migration Organization (IOM)

Mohsin Hafeez International Water Management

Institute (IWMI)

Giorgia Prati Food and Agriculture Organization of the United Nations (FAO)



Feel free to ask your question in the Q&A box

BUILDING NEXUS RESILIENCE: ADDRESSING MIGRATION AND CONFLICTS IN WATER-ENERGY-FOOD (WEF) SYSTEMS











(WM) International Water Management Institute





Ali Rhouma PRIMA foundation









BASSEL DAHER

Texas A&M Energy Institute SustainFood Network International Water Resources Association

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WE APPRECIATE YOUR PARTICIPATION



BUILDING NEXUS RESILIENCE: ADDRESSING MIGRATION AND CONFLICTS IN WATER-ENERGY-FOOD (WEF) SYSTEMS











(WM) International Water Management Institute







Share your feedback!

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