CGIAR Global Research Portfolio: Regionally Integrated Initiatives (RIIs)

Donor Meetings – Drop In Sessions (June 2022)

Dr Martin Kropff
Global Director
Resilient Agri-Food Systems, CGIAR

Agenda:

- Opening/ Initial Remarks (RAFS SGD) – 10 min
- Initiatives: Detailed Presentation (Leads/ Co leads) – 10 min each
- Q&A (All participants) – 40 to 50 min

Opening/ Initial Remarks

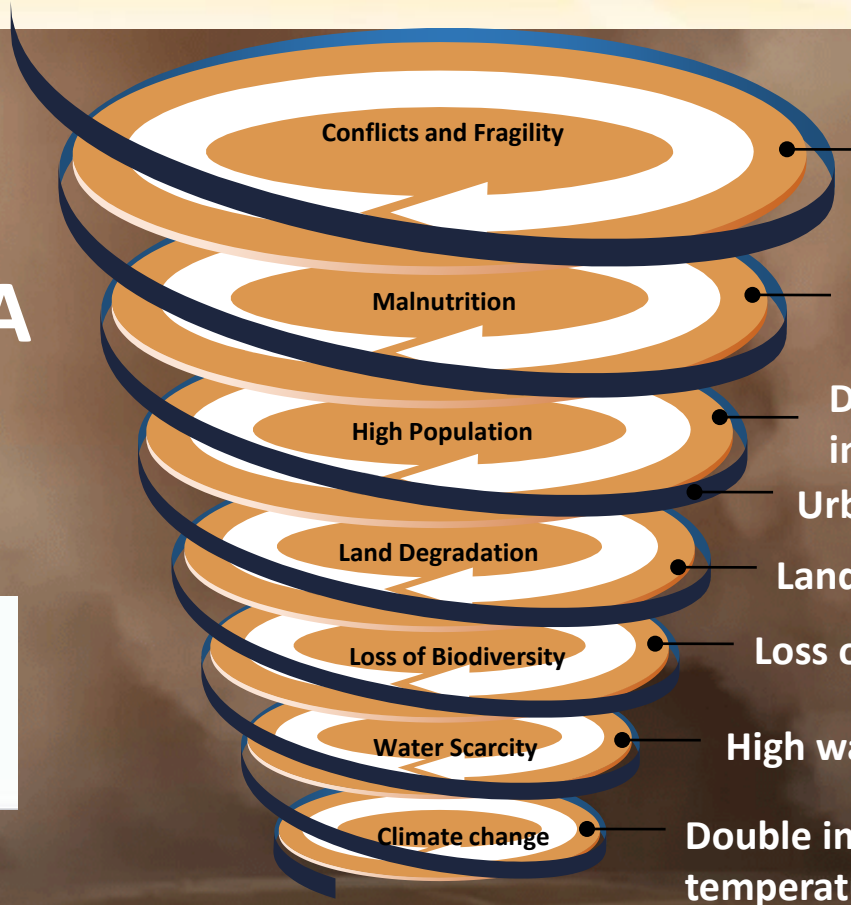
AFRICA AND SOUTH ASIA: 2022 MEGA CHALLENGE

- Number of hungry people: now 700+ mln
  mainly in SA and SSA
- 2 billion more people in 2050 mainly in SA and SSA
- Climate change reducing yields, especially in SA and SSA
  - Drought
  - Heat

- +COVID
- + Ukraine war !!!
  - Food Prices
  - Fertilizer cost
  - Energy cost

Need Action: CGIAR with partners support innovations at scale

2022 MEGA Challenge



- High unemployment, unrest and migration
- Food and nutrition insecurity
- Demographic change, gender inequality
- Urbanization and heat islands
- Land degradation and desertification
- Loss of agrobiodiversity
- High water scarcity and low efficiency
- Double impact of climate change; increasing temperature and reducing precipitation

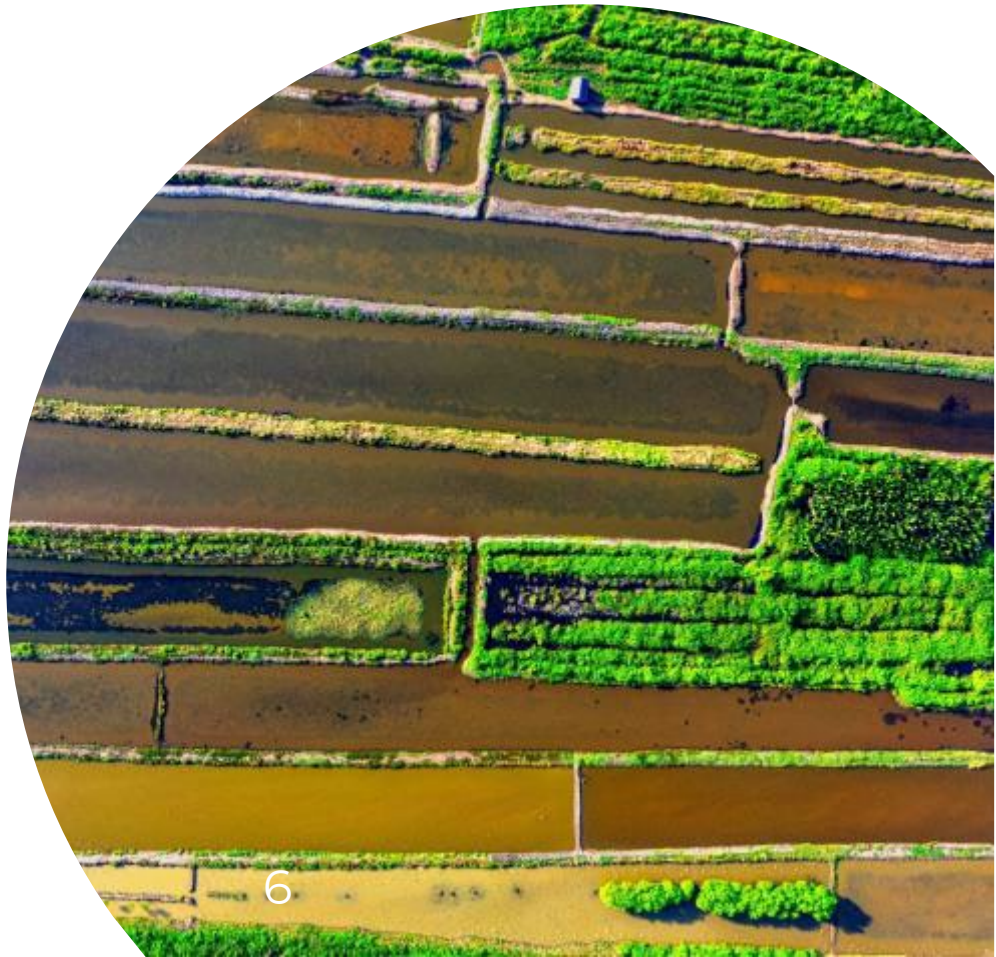
SUSTAINABLE DEVELOPMENT GOALS

BY 2030

But with only nine harvests left, we need to move fast to accomplish our vision of thriving and resilient dryland livelihoods

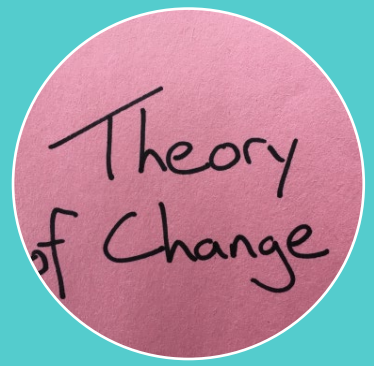
RII OVERARCHING OBJECTIVE

Contribute to regional Agri-Food systems transformation for affordable sufficient and healthy diets produced within planetary boundaries in a climate crisis



RIIS OVERALL AREAS OF IMPROVEMENT HIGHLIGHTED BY ISDC

Clearly defined **research problem** that addresses Impact Areas, is a high priority in the targeted geographies, is well aligned to shared, multi-funder priorities, and is well informed by previous research findings & evaluations



Overall Theory of Change (ToC) with intended outputs, outcomes, and impacts at scale clearly described

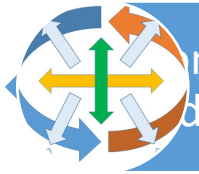
/ Individual Work Package ToC

Analysis of **trade-offs and synergies** across the CGIAR; Impact Areas; ex-ante assessment of project benefits provides logical rationale for scaling of impacts

Evidence that the Initiative will likely lead to **impact at scale** through integrated systems approaches that drive innovation in research and partnerships, including linking to and leveraging of other Initiatives within and outside CGIAR

Monitoring, evaluation & learning (MEL) plan for the Initiative is clearly defined, with flexibility to adapt

UPDATES / ADDITIONAL ACTIONS



mprehensive process to update Initiatives based on ISDC feedback, including Initiative data on Theories of Change, Results Frameworks, Partners, Innovation Packages, etc.

evised CGIAR Results Framework , including specific/ additional targets, i.e. co defined Action Area (AA) Targets

Harnessing CGIAR MELIA capacity – revised Technical Reporting Arrangement and Performance and Results Management Framework

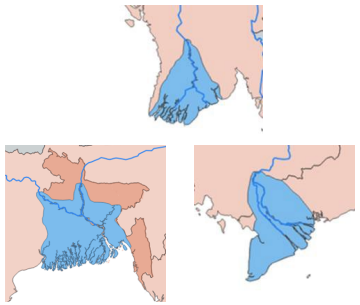
CGIAR Research Portfolio/ Initiatives Introduction and Stakeholder Dialogue; all the initiatives have been launched

tiatives' Leadership teams have been confirmed and initiatives are being implemented

RESPONDING TO PRESSING AGRI-FOOD SYSTEMS CRISES WITHIN REGIONS AND COUNTRIES

South Asia

East and Southern Africa



Southeast Asia: Deltas

West and Central Africa

Central and Western Asia

Latin America

- Collaboratively designed with over 2,000 stakeholders
- Responsive to stakeholder demand
- Researching, designing, and delivering innovations on key regional issues through multi-stakeholder platforms
- Day-to-day, on-the-ground and direct collaboration with national research and extension partners
- Comprehensive agri-food systems contexts (from farm to fork and back again)

STRUCTURE OF CGIAR'S INITIATIVE PORTFOLIO

Global Thematic Initiatives (GTIs)

- Largely building on strong existing capacities
- Investigates **thematic issues that by nature are not specific to a single region** or country
- Strong focus on **genetic innovations, management of crops, livestock, fish, foresight and policy**
- Delivering **broad research insights**, knowledge, technologies
- Global relevance: May not always be applicable in the regional context

- **Articulates demand** for integrative research from the regions and national partners
- **Offers 'plug-in' opportunities** for GTIs
- Forms and sustains **innovation platforms** that can assist GTIs

- Tools, technologies, knowledge
- **Insights from global research** that can be regionally applied
- **Opportunities for national researchers to engage with global programs**

Regionally Integrated Initiatives (RIIs)

- **Long histories** of bilateral **systems research**
- Responsive to **pressing, regionally unique and relevant agri-food systems crises**
- Highly participatory, **partner demand responsive**
- **Links innovations across CGIAR** to amplify impact at scale
- Conducts **research on *unique* topics of regional and national importance** beyond the scope of the GTIs

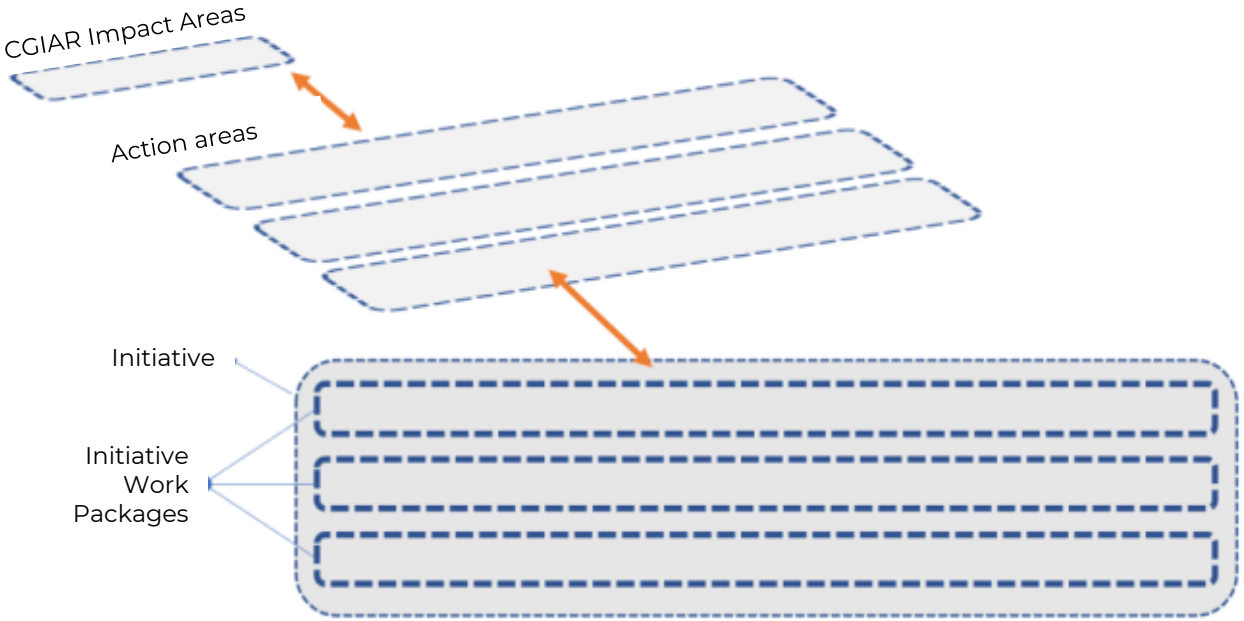
Research support, research monitoring and evaluation

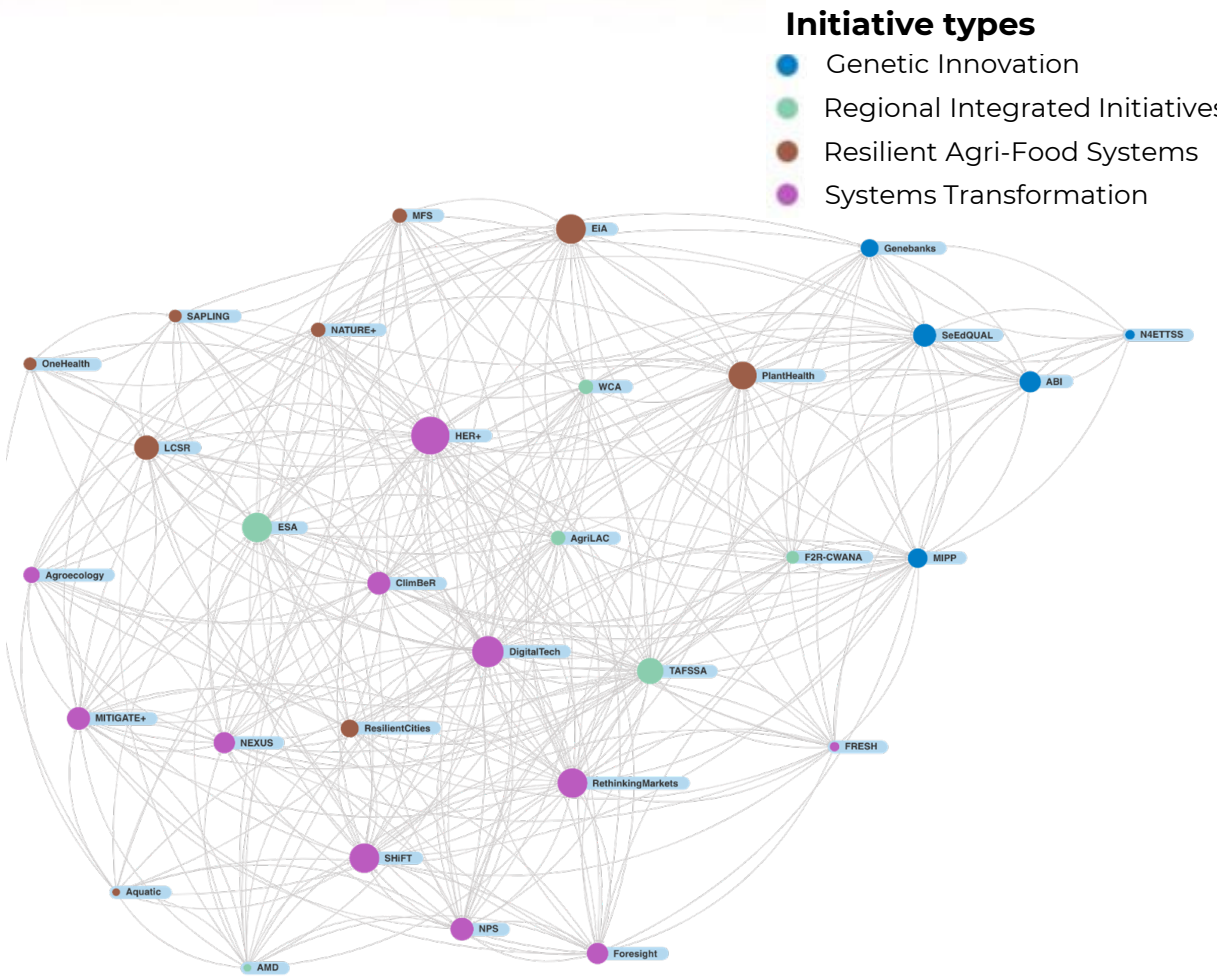
CGIAR Research Platforms

INITIATIVES NESTED THEORIES OF CHANGE AND MULTIPLE INTERCONNECTIONS WITH THE RIIS

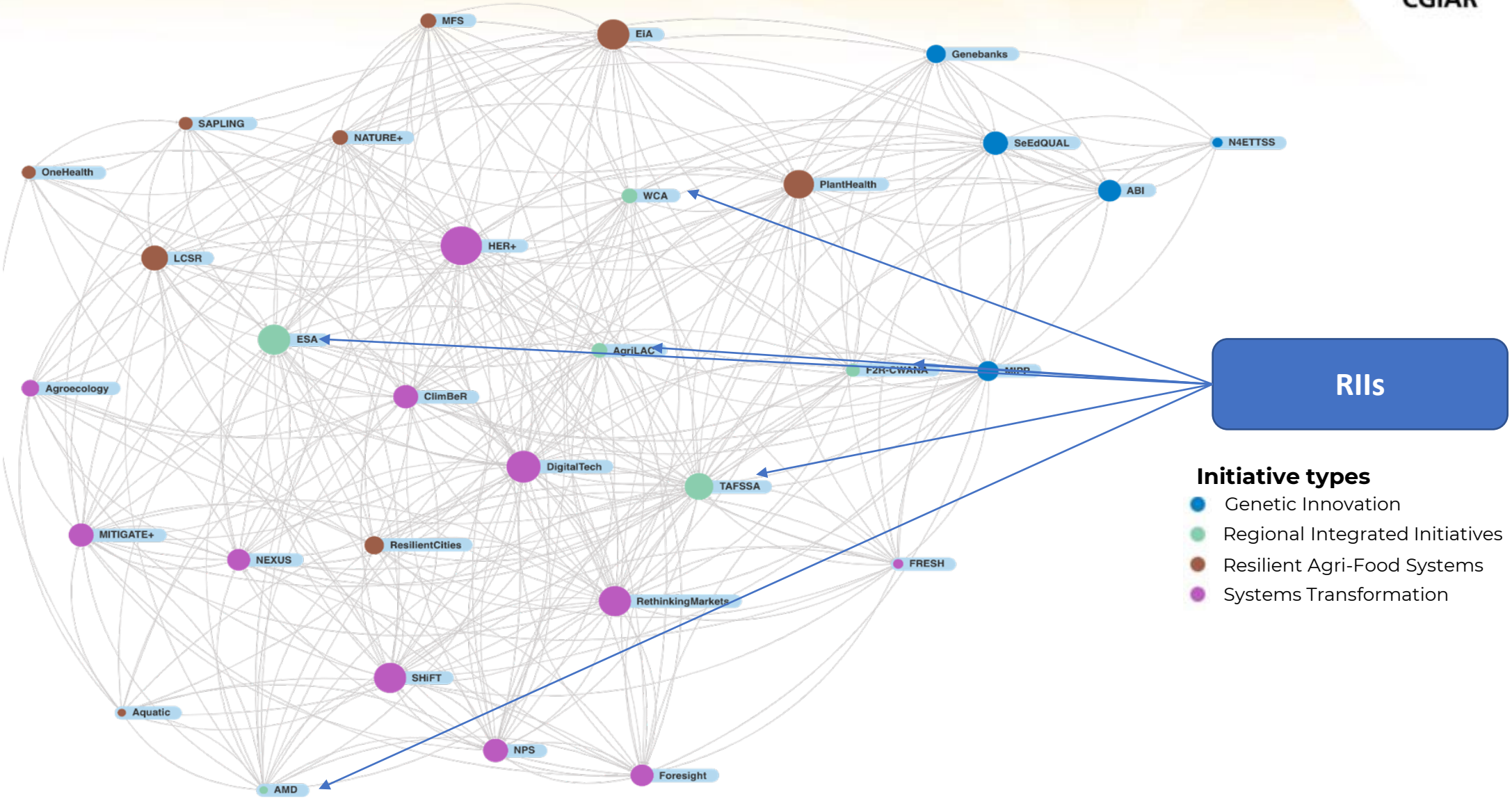
Innovation Packages and scaling readiness is monitored for the whole portfolio

Nested Theories of Change

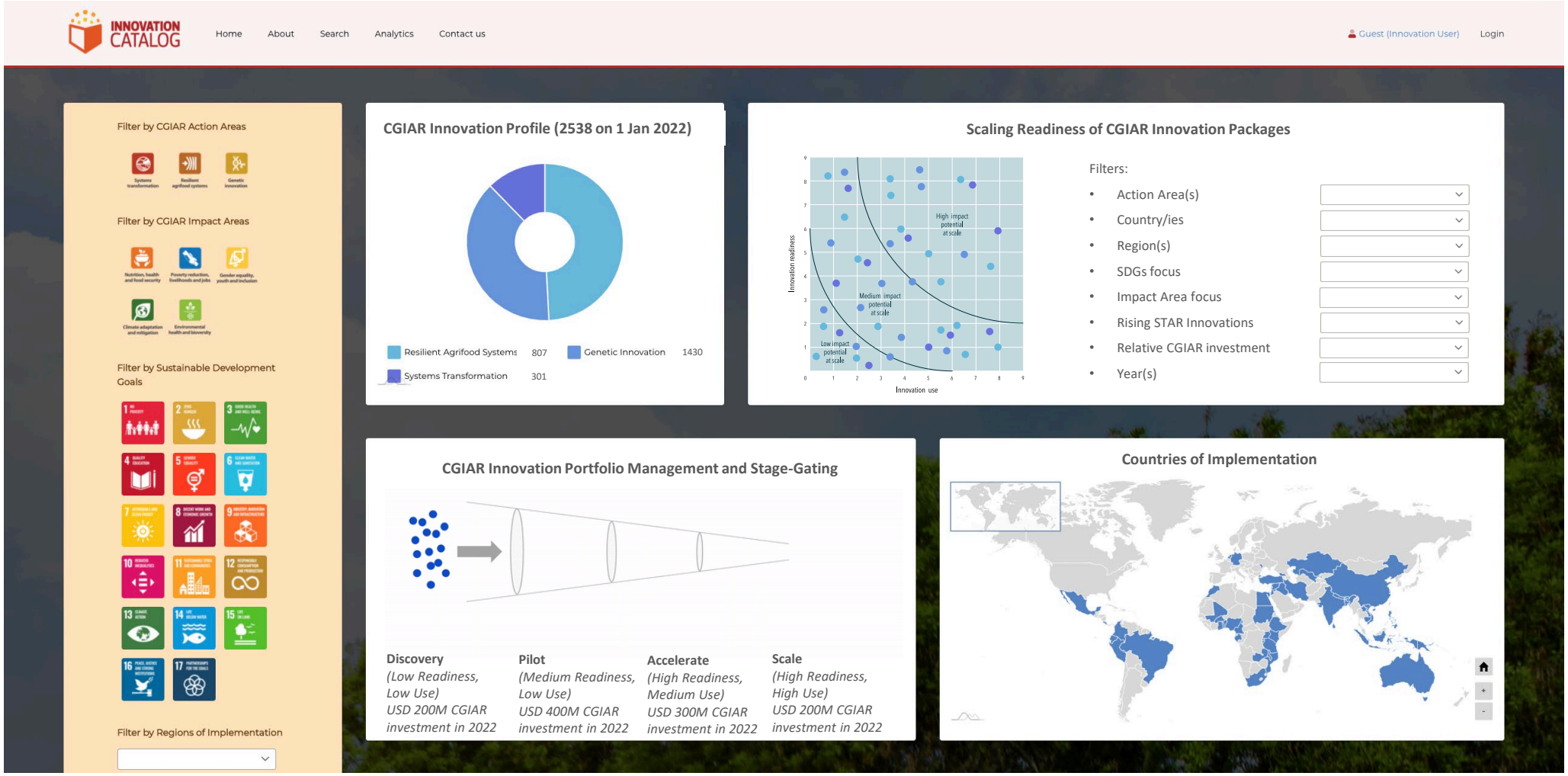




INITIATIVES NESTED THEORIES OF CHANGE AND MULTIPLE INTERCONNECTIONS WITH THE RIIS



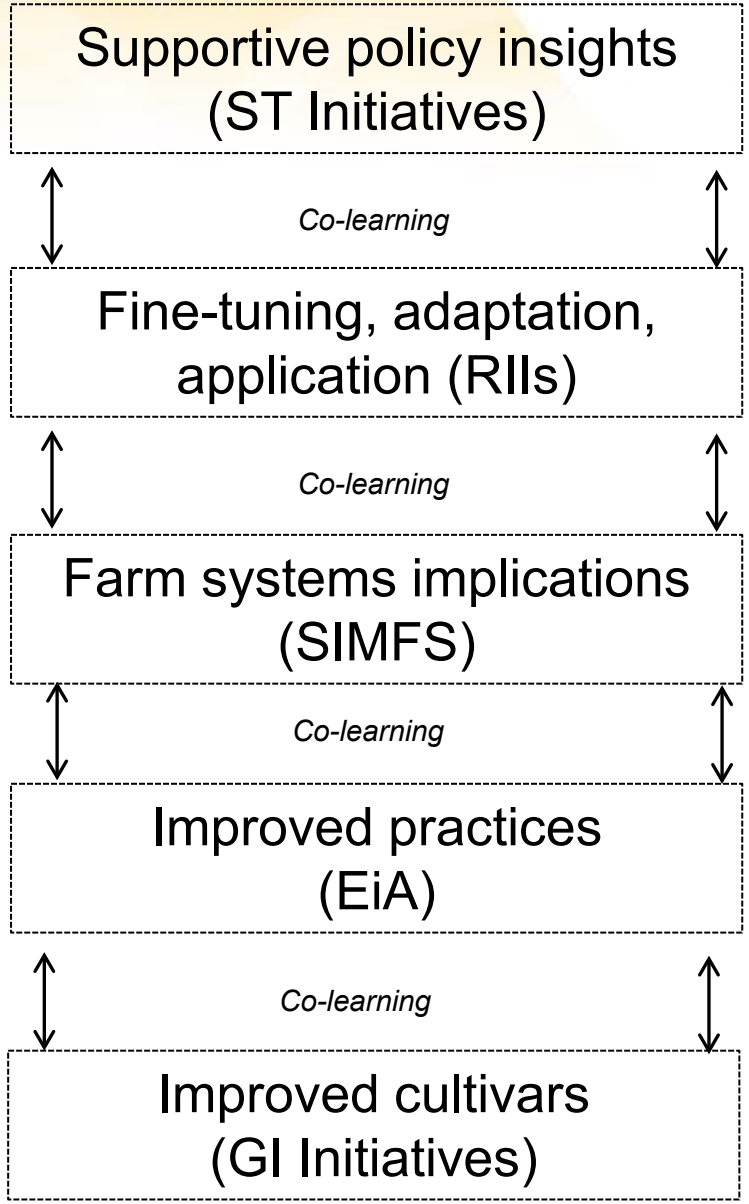
END-GAME: INNOVATION PORTFOLIO MANAGEMENT AVOIDING OVERLAP AND FACILITATING A STAGE GATING PROCESS FOR INNOVATIONS (ESCHBORN PRINCIPLE)



Disclaimer: RTB Innovation Catalog does currently not provide all these functionalities; Figures are illustrative

RII PRINCIPLES

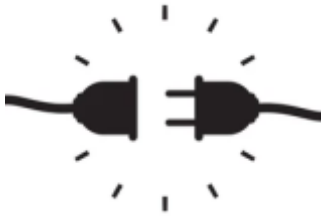
1. **Aligned with ISDC guidance**
   - Not development projects (but offering scaling mechanisms)
   - Clear, regionally relevant research questions, common methodologies
   - Research at scale
2. **Build on regional policy, stakeholder demand, and strong prior investments**
   - Regional problem identification, problem response
   - Prioritized agroecological and market stems
   - Strong pathway towards CGIAR impact areas
3. **Bundling and integrating: Demand and supply feedback loops**
   - Integrating & offering innovations to and from other initiatives, bilaterals
   - NARES and private sector innovations
4. **RIIS:**
   - Interdependent with Global Thematic Initiatives
   - Do not have to work with all initiatives
   - Not the sole and only demand identification channel
   - Not working in all agroecologies, production or market systems
5. **Vertical and horizontally integrated**
   - Vertically integrate ST high-level policy with bottom-up GI and RAFS innovations
   - Horizontally integrate from farms to landscapes to markets and across value chains



THE REGIONAL INTEGRATED INITIATIVES WILL:

Assure responsiveness to partner demand

Provide coordination and cohesion among the initiative portfolio

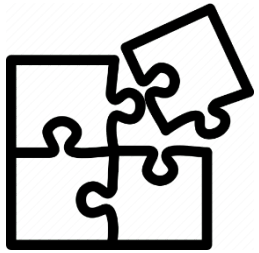


Offer ‘plug-in’ opportunities for global initiatives

Maintain, build-on and launch established and new regional partnerships

Ensure accountability and relevance to national demands

Apply, test, provide feedback on relevance of global initiative innovations



Maximize cross-portfolio synergies

Amplify impact potential

Align research efforts

Multiply development impact

HOW IS DUPLICATION AVOIDED, AND HOW ARE SYNERGIES ACHIEVED?

COORDINATION
By the RAFS Science Group and led by a Principal and Co-Principal Investigator with strong systems science and collaboration credentials, supported by Regional Directors and Country Conveners (Task Force)

COMMUNICATION
Regular coordination meetings across the Science Groups and with GE&I

SYNERGIES
Within regions and countries, cross-initiative scientific and technical coordination is addressed by Science Group Regional and Country Leads

PARTNERSHIP
Regional Directors and their country teams (a) facilitate partner engagement and operations, (b) flag risks of duplication, and (c) aid in priority setting

ACCOUNTABILITY
GTI and RII leads accountable for cooperative planning, implementation

ADAPTIVE MANAGEMENT
Inception period learning, adjustments, and fine-tuning

This assures

- Internal and external scientific synergies
- Internal portfolio coherence: coordination between RIIs and global thematic initiatives
- External portfolio coherence: Alignment with partners' demand
- Maximization of research investments and partnerships

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Science for a food-secure future

Thank You!

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AgriLAC Resiliente:
Resilient Agrifood Innovation Systems in Latin America and the Caribbean

AgriLAC Resiliente

Resilient Agri-Food Innovation Systems Driving Food Security, Inclusive Growth and Reducing Out-Migration in Latin America and the Caribbean (LAC).

A One CGIAR Regionally Integrated Initiative (RII).
May 2022

Deissy Martinez Barón, Lead of AgriLAC Resiliente.

Bram Govaerts, Co-lead of AgriLAC Resiliente.

Content

AgriLAC Resiliente:
Resilient Agrifood Innovation Systems in Latin America and the Caribbean

- ❑ Initiative Overview
- ❑ Response to ISDC Comments
- ❑ Implementation to date
- ❑ Partner engagement + Inception Meetings
- ❑ Collaboration with other Initiatives/ synergies
- ❑ Challenges / risks – and mitigations of these
- ❑ Q&A

AgriLAC Resiliente proposal overview

Climate-smart village in Olopa, Guatemala

LAC's unique potential for scaling science and innovation through strong partnerships across scales and both regionally and globally

AgriLAC Resiliente leverages on:

- 50+ years of research, 3 largest genebanks +10 years of cross CGIAR research on basic crops, nutrition, climate change and participatory action research.
- Co- design process with +160 organizations across the region.
- Integrated research focus: Collaborative demand-driven scientific research

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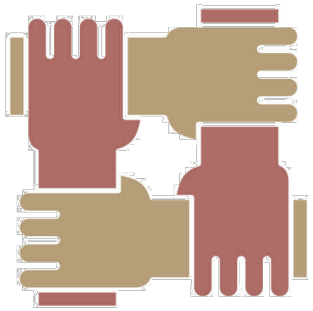
AgriLAC Resiliente: Resilient Agrifood Innovation Systems in Latin America and the Caribbean

Work packages of AgriLAC Resiliente AR4D systemic and integrated approach

AgriLAC Resiliente: Resilient Agrifood Innovation Systems in Latin America and the Caribbean

AgriLAC Resiliente will work through **five work packages** together with **agrifood innovation systems (AFS)** partners and stakeholders to **co-design, adapt, assess and scale social-ecological-technological (SET) innovations** to meet region's AFS needs to accelerate the transition to more **resilient, competitive and low-emissions** AFS.

Partnerships and alliances will lead



AgriLAC Resiliente's implementation

Regional

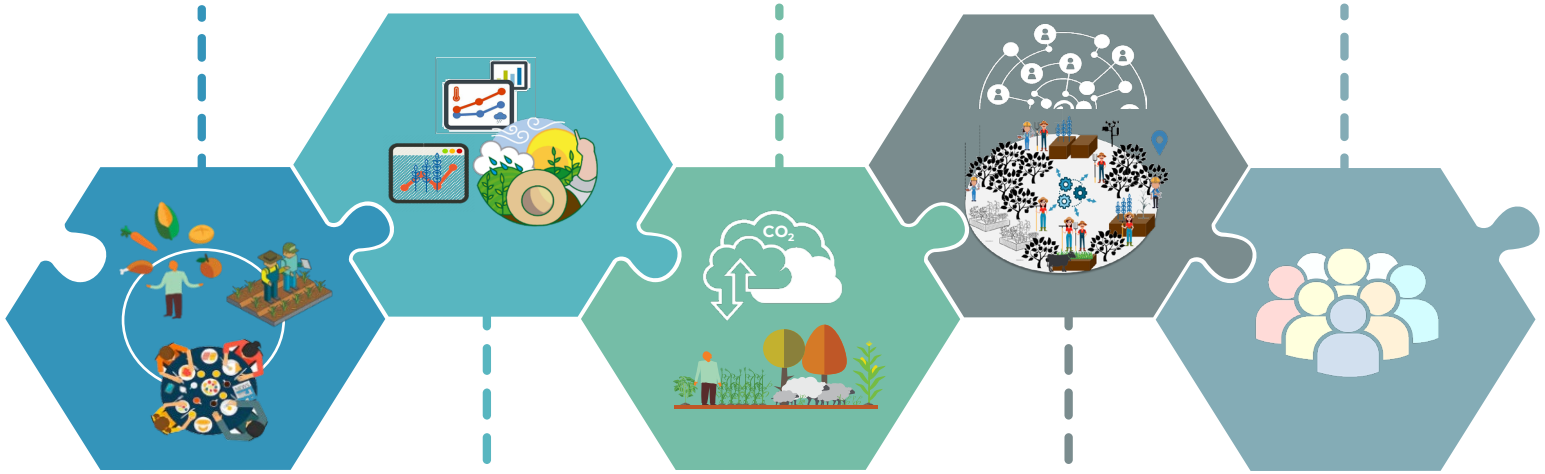
National

Local

Work Package 1
Shaping nutrition-sensitive socioecological-technological (SET) 'best bets'

Work Package 3
AFS development to both mitigation and sustainable development goals

Work Package 5
Science-informed policies, investments and institutions



Work Package 2
Inclusive digitally enabled agro-advisories for risk management

Work Package 4
InnovaHub networks for agrifood innovation and scaling

Scaling

Monitoring, evaluation, learning and impact assessment

Gender, youth and social inclusion

AR4D systemic and integrated approach

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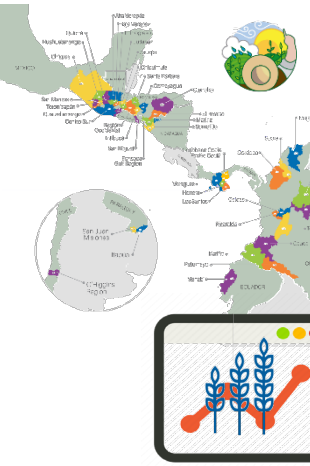
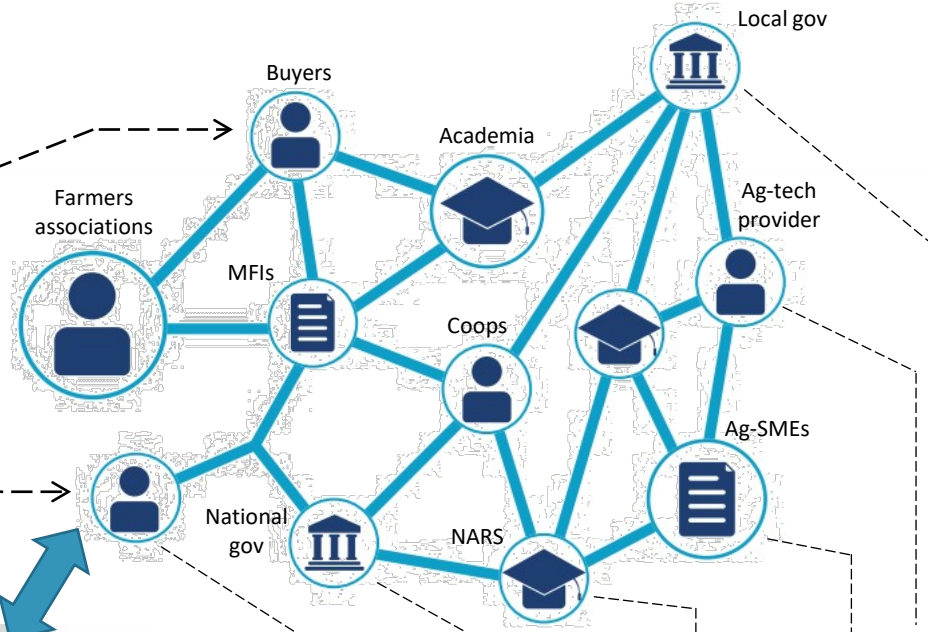
Digitally enabled agro-advisory services combined with agroclimatic forecasts – **WP2**

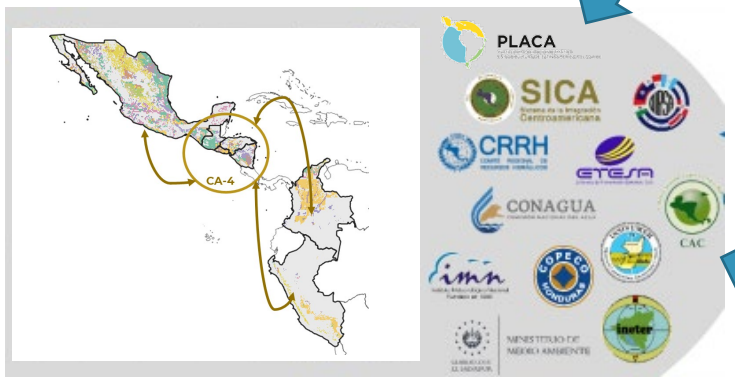


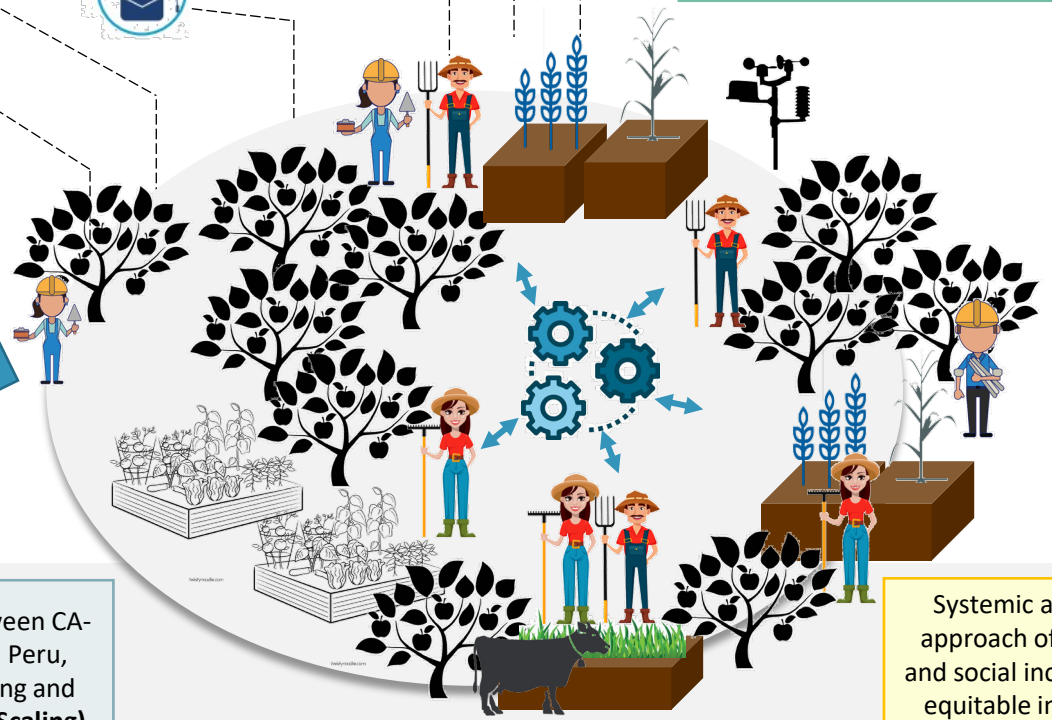


InnovaHubs for collaborative innovation and scaling of SET innovations – **WP4**

Tailored socio ecological technical (SET) innovations and portfolio of climate-smart practices – **WP1, WP4**

Informing policies and investments to achieve SDGs and meet low emissions development goals through IASI 2.0 – **WP5, WP3**





MEL data and the learning studies to account for the contribution. Building on e-agrology monitoring system **(MELIA)**

Multidimensional scaling approach between CA-4 countries and Colombia, Mexico and Peru, prioritizing continuous collective learning and co-creation of tailored SET innovations **(Scaling)**.

Systemic and systematic approach of gender, youth and social inclusion to ensure equitable implementation and outcomes **(GYSI)**

AgriLAC Resiliente at a glance

WORK PACKAGE	INNOVATIONS	2024 OUTCOMES
WP1	Nutrition-sensitive **socio-ecological-technological** (SET) innovations	Local and national research institutions **better equipped with diversified technologies and digital tools** for agroclimatic advice and provide options to improve diets.
WP2	Agrifood innovation systems empowered by a **digitally enabled ecosystems**.	Farmer associations, NGOs and extension services use **technical assistance provided by digital means** to reduce climate risks, anticipate actions and intensify sustainable production.
WP3	**Low-emission strategies** integrated to development goals	Actors from agri-food systems **integrate low-emission strategies into development goals** to reduce emissions and increase productivity.
WP4	**InnovaHubs** to better accelerate on-farm uptake of SET innovations	Actors of AFS jointly establish **innova-hubs to adapt, adopt and scale** climate-resilient, low-emission and nutritious productive strategies in various agroecological zones.
WP5	Transformative and climate adaptation-friendly AFS-related **policies**, **incentives**, and **investments**.	National governments formulate and implement **transformative, sustainable and resilient agri-food policies** and use science to inform the redistribution of investments with a gender perspective.

2030 PROJECTED BENEFITS

Nutrition, health, & food security

Poverty reduction, livelihoods & jobs

8.3 million people including youth

Gender equality, youth & social inclusion

2.5 million women

Climate adaptation & mitigation

8.7 million people

Environmental health & biodiversity

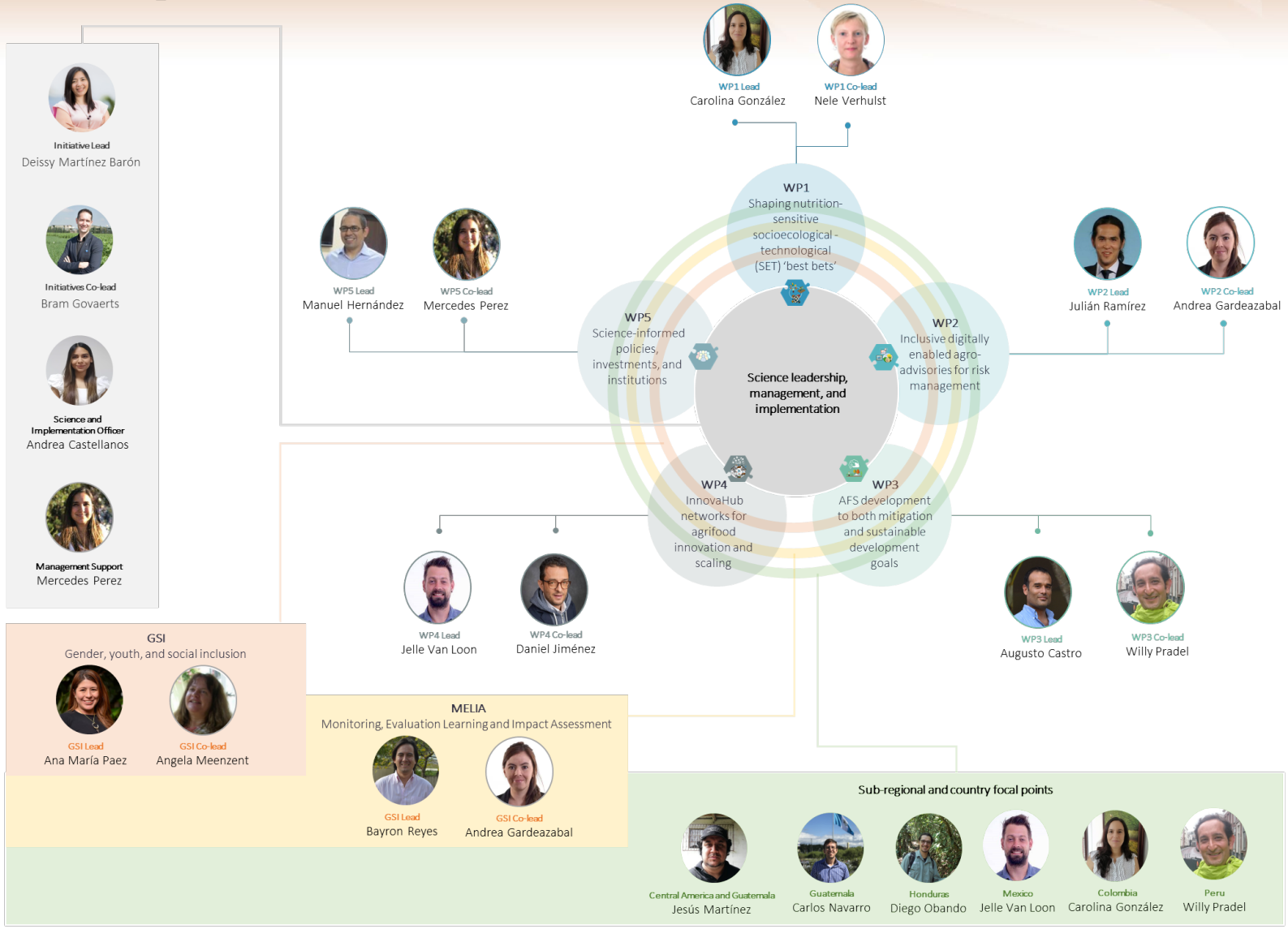
19 million hectares

GEOGRAPHIC PRIORITIZATION

- CA-4 countries (Guatemala, Honduras, El Salvador and Nicaragua) primary target.
- Colombia, Mexico y Perú co-learning and scaling countries.
- In 2022, focus will be on Guatemala and Honduras plus specific activities in Mexico, Colombia and Peru.

AgriLAC Resiliente leadership team and focal points

AgriLAC Resiliente: Resilient Agrifood Innovation Systems in Latin America and the Caribbean



Current status of AgriLAC Resiliente Initiative Staff

	Gender			Center			
	M	F	New positions	Alliance Bioversity - CIAT	CIMMYT	CIP	IFPRI
Overall initiative	54	38	6	(X)	(X)	(X)	(X)
Initiative Leadership (Leads, Co-Leads, WP Leads)	8	7	0	(X)	(X)	(X)	(X)
WP1	5	7	0	(X)	(X)		
WP2	13	1	1	(X)	(X)		
WP3	4	7	2	(X)		(X)	
WP4	16	4	0	(X)	(X)		
WP5	5	5	0	(X)	(X)		(X)
GSI	0	2	0	(X)	(X)		
MELIA	2	3	1	(X)	(X)		
Management	1	2	2	(X)	(X)		

73% of the leadership positions of AgriLAC Resiliente are held by scientists from Latin American countries.

ISDC comments and response

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AgriLAC Resiliente:
Resilient Agrifood Innovation Systems in Latin America and the Caribbean

ISDC comments - summary

AgriLAC Resiliente: Resilient Agrifood Innovation Systems in Latin America and the Caribbean

- Assessment's average score was 2.2/3.0.
- Most critical comments were related to:
  - Impact attribution of the initiative vis a vis global thematic initiatives working in the region,
  - Scaling approach; and
  - MELIA.
- ISDC asked for more details on:
  - engagement and partnerships approach,
  - effective external communications,
  - gender and social inclusion approach; and
  - risk management due to region's specific context (e.g., political instability).

Response to ISDC comments

AgriLAC Resiliente: Resilient Agrifood Innovation Systems in Latin America and the Caribbean

1. **Need for clear identification of AgriLAC's impacts vs other initiatives**
   - Recognition of interdependency and need of alignment between AgriLAC and Global Thematic Initiatives (GTI), close articulation in the first phase of implementation.
   - Such articulation will be facilitated by the implementation of Integrated Agri-food Systems Initiative (IASI) methodology.
2. **Need for more clarity on AgriLAC Resiliente scaling approach**
   - AgriLAC Resiliente will bring proven innovations from Colombia, Mexico and Peru to Central American countries to be tested, validated, adapted and improved and then, return the lessons learned and further innovations applicable back in those countries.
   - Scaling in AgriLAC Resiliente is not unidirectional but rather it is a process with several feedback loops in both directions so that collective learning and innovation occurs across the region.
3. **Need for further details on MELIA approach.**
   - AgriLAC will adapt the MEL plan yearly, in coordination with the WP leads, more often during the first year.
   - Separating impacts is indeed a challenge, however we plan to estimate impacts of particular activities sthat will contribute to the overall impact at the initiative level (focus on baseline data and initial impacts given the 3-year timeframe).
   - AgriLAC will use MEL data and the learning studies to account for the contribution of the initiative to observed changes.
   - AgriLAC will build on and adapt the e-agrology system for monitoring key indicators useful to measure outcomes.

Implementation progress & 2024 milestones

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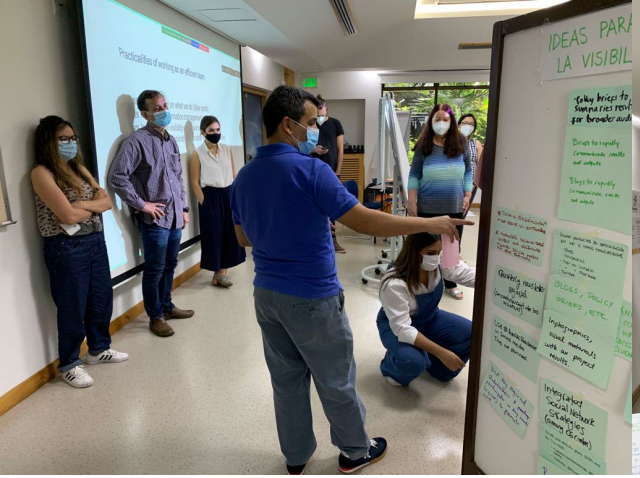
AgriLAC Resiliente:
Resilient Agrifood Innovation Systems in Latin America and the Caribbean

AgriLAC Resiliente milestones for 2022-2024 implementation

AgriLAC Resiliente: Resilient Agrifood Innovation Systems in Latin America and the Caribbean

2022	2023	2024
Assigned budget: *USD 4.4 million* *44% of aspirational 10 million annual budget.*	***Expected budget:*** *USD 10 million* *100% of aspirational 10 million annual budget.*	***Expected budget:*** *USD 10 million* *100% of aspirational 10 million annual budget.*
Full implementation in Guatemala, Honduras Strategic actions leveraging on previous work in Colombia, Mexico and Peru.	Full implementation in Guatemala, Honduras Kick-off in El Salvador and Nicaragua Further work in Colombia, Mexico and Peru.	Consolidation in Guatemala, Honduras, Colombia, Mexico and Peru. Full implementation in El Salvador and Nicaragua
Further design of integrative and systemic AR4D approach with partners	Partnerships set up Basis for implementation MELIA set up Kick-off events	Implementation of WP activities. Engagement at national & regional scale Scaling strategy design.	Consolidation of integrated and systemic approach in priority countries Enabling environment for additional CA-4 countries.	Collective learning activities. South-south cooperation and capacity building across all initiative's countries. Scaling strategy implementation.	Implementation of activities in additional CA-4 countries. Learning and experiences exchange with other RIIs. Review of MEL input on progress for learning and adjustment.	Consolidation of integrated and systemic approach across all countries. Engagement activities in new countries.	Implementation of impact assessment studies. Progress on scaling pathways.	Achievement of 3-year endo of initiative outcomes Progress towards 2030 impact targets.

Feedback loops and continued ToC assessment and tailoring processes





Partner engagement + Inception Meetings

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Resilient Agrifood Innovation Systems in Latin America and the Caribbean

AgriLAC co-design process

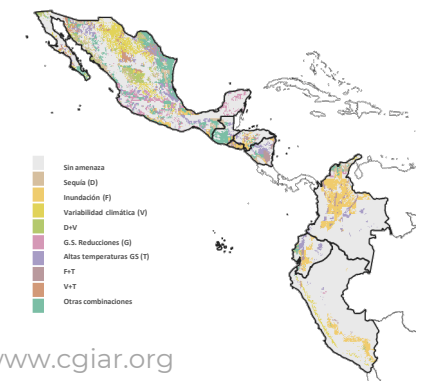
AgriLAC Resiliente: Resilient Agrifood Innovation Systems in Latin America and the Caribbean

See complete information on the process here.

1. Prioritization

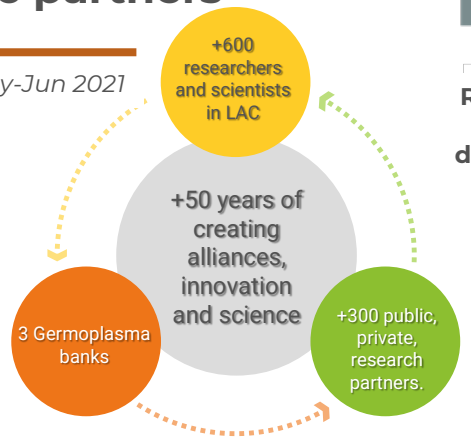
Apr-May 2021

Analysis of change and climate variability affecting LAC countries, as well as vulnerability in key agri-food systems



2. Joint strengths of the CGIAR and strategic partners

May-Jun 2021



Alliance

3. Responding to regional demand

Review of +10 consultation reports and diagnostic documents involving +1000 people.
Jun-Aug 2021

Focused consultation and validation workshops
Aug-Sep 2021

Definition of research actions for the development of the CGIAR

4. Scientific evaluation by ISDC

Nov 2021

Review and adjustment of AgriLAC Resiliente proposal based on ISDC comments

Full update of the proposal will be uploaded in the CGIAR Submission Tool by the end of June 2022.

5. AgriLAC Resiliente consolidation and planning process

AgriLAC Internal Planning Workshop - *April 2022*

AgriLAC launching event and co-design workshop with local stakeholders and CGIAR GTIs in Guatemala and Honduras - *June 27th to July 1st , 2022*

Collaboration & synergies with other Initiatives

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Resilient Agrifood Innovation Systems in Latin America and the Caribbean

1.7 Synergies with Global Thematic Initiatives in the region - 2022

AgriLAC Resiliente: Resilient Agrifood Innovation Systems in Latin America and the Caribbean

Resilient Agrifood Systems

1. Plant Health and Rapid Response to Protect Food Security and Livelihoods — WP1/WP4
2. Livestock, Climate and System Resilience — *WP2/WP3
3. Nature-Positive Solutions for Shifting Agrifood Systems to More Resilient and Sustainable Pathways — WP3
4. Excellence in Agronomy for Sustainable Intensification and Climate Change Adaptation (EiA) — *WP1/WP4
5. Resilient Cities Through Sustainable Urban and Peri-urban Agrifood Systems — WP1

Genetic Innovation

13. Accelerated Breeding (ABI): Meeting farmers' needs with nutritious, climate-resilient crops – GLOBAL/LAC — WP1/WP4
14. SeEdQUAL: Delivering Genetic Gains in Farmers' Fields – GLOBAL/LAC — WP1/WP4

Regional Integrated Initiative - AgriLAC Resiliente -

Systems transformation

6. Rethinking Food Markets and Value Chains for Inclusion and Sustainability — WP1
7. Harnessing Digital Technologies for Timely Decision-Making across Food, Water, and Land Systems — *WP2/WP4
8. National Policies and Strategies for Food, Land and Water Systems Transformation — *WP5
9. ClimBeR: Building Systemic Resilience against Climate Variability and Extremes — *WP2/WP4/WP5
10. MItigation and Transformation Initiative for GHG reductions of Agrifood systems RelaTed Emissions (MITIGATE+) — *WP3
11. Transformational Agroecology across Food, Land and Water systems — WP3
12. Sustainable Healthy Diets through Food Systems Transformation (SHiFT) — *WP1/WP4

* Synergies already identified, and actions planned

Challenges and mitigations actions

CGIAR

AgriLAC Resiliente:
Resilient Agrifood Innovation Systems in Latin America and the Caribbean

Challenges and mitigation actions

AgriLAC Resiliente: Resilient Agrifood Innovation Systems in Latin America and the Caribbean

Overall initiative's challenges

- Need for increasing awareness of LAC potential to support and contribute with expertise and innovations to Africa and Asia for addressing crucial challenges.
- Need for increasing System Council buy-in to support AgriLAC as per its potential to contribute to key impact areas (environment, climate change, gender) with more funding.
- Recognize the unique role AgriLAC can play to generate the underpinning methods and concepts for the RII
- Embed the initiative as a response to the current migration crisis and vehicle and response capacity for the Central America multilateral agenda

Challenges regarding 2022 implementation → mitigation actions

- **Adjustment of initial geographic focus** → consolidation of AgriLAC collaborative and integrated approach in Guatemala and Honduras to facilitate future scaling in other CA-4 countries. Work in Colombia, Mexico and Peru will leverage bilateral and CRP previous work to accelerate co-development of innovations.
- **Engagement and further co-design with local partners** → Launching events were designed as co-development workshops to ensure swift and solid coordination with local actors and CGIAR capacity through all initiatives.

Q & A

Thank you!

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AgriLAC Resiliente:
Resilient Agrifood Innovation Systems in Latin America and the Caribbean

CGIAR | Ukama Ustawi: Diversification for Resilient Agrifood Systems in East and Southern Africa

Alliance

IWMI International Water Management Institute | Bioversity International | CIAT | CIMMYT International Maize and Wheat Improvement Center

ILRI International Livestock Research Institute | IITA Transforming African Agriculture | IFPRI International Food Policy Research Institute | WorldFish

Initiative Update

June 2022

Ukama Ustawi (UU): Diversification for resilient agrifood systems in East and Southern Africa (ESA)

Initiative Design Team Lead(s):
Dr Inga Jacobs-Mata (IWMI) & Dr Evan Girvetz (ABC)

WP Leads:

WP1: Dr. Christian Thierfelder (CIMMYT)
WP2: Dr. Evan Girvetz (CIAT)
WP3: Mercy Zulu-Hume (CIAT)
WP4: Dr. Inga Jacobs-Mata (IWMI)
WP5: Dr. Deepa Joshi (IWMI)
WP6: Dr. Iddo Dror (ILRI)

CGIAR

Ukama Ustawi:
Diversification for Resilient
Agrifood Systems in East
and Southern Africa

Initiative Overview

A chronic food security crisis in East and Southern Africa

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Ukama Ustawi: Diversification for Resilient Agrifood Systems in East and Southern Africa

Up to **75%** maize-covered cropland

Nearly **50%** under 18 years

malnutrition only **5%** lower than in 1990

15% projected reduction in maize yields.

US$45 billion agricultural production at risk from ↑ temps, ↓ growing seasons, and more extreme weather.

ESA – a climate hotspot

Highest burden on the most vulnerable

Impacts on farms, businesses, ag value chains, and livelihoods

Lack of diverse diets, access, interest, equality, ownership, collaborative governance

Maize-based systems still reign supreme, but are increasingly vulnerable, degraded, poorly managed.

Need: sustainably manage land, water and energy, diversify, de-risk, empower and engage

Deploying and rapidly scaling in a coordinated and inclusive way

About Ukama Ustawi

Ukama Ustawi:
Diversification for Resilient Agrifood Systems in East and Southern Africa

Ukama Ustawi (UU) supports climate-resilient agrifood and agribusiness ecosystems in 12 east and southern African countries to help millions of vulnerable smallholder farmers **transition from maize-mixed systems to sustainably intensified, diversified, and de-risked agrifood systems**.

UU Impact Pathway

across all WPs

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Diversification for Resilient Agrifood Systems in East and Southern Africa

Science solutions for the region by the region

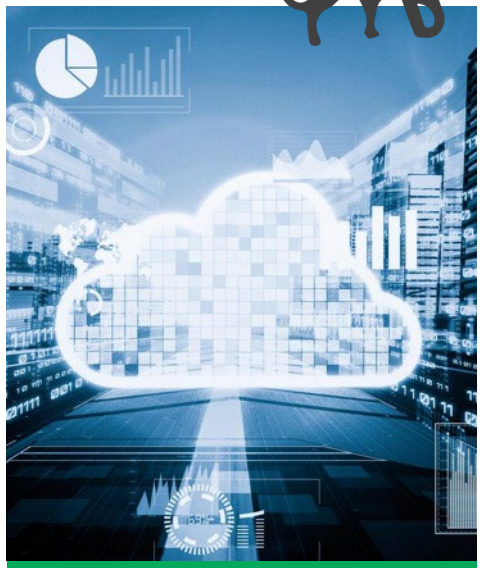
‘Big Five’ regional interventions to address agri-food systems development challenges in ESA

Ukama Ustawi: Diversification for Resilient Agrifood Systems in East and Southern Africa

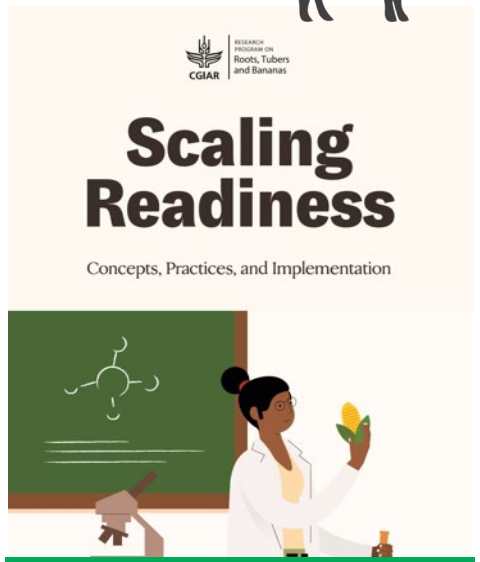
Diversification of maize-mixed systems for nutrition & resilience through mechanization, irrigation and improved varieties (building on SIMLESA, PABRA, AfricaRISING complementary to SI-MFS & EiA)

Bundled agricultural risk management and agro-advisory services (building on CCAFS; complementary to ClimBeR, LCSR and DX; with Mercy Corps AgriFin Sprout Platform)

Value chain support & inclusive agribusiness acceleration (building on AICCRA; complementary to Rethinking Markets, Shift, RAqFS; with Sus Fin team, Briter Bridges, Nourishing Africa & BongoHive)



Policy hub established that facilitates SI and diversification knowledge sharing for policy development (building on ReSAKSS, WLE, TAAT; complementary to NPS, Nexus Gains; with WCA, CCARDESA, ASARECA and FANRPAN)



The Scaling Hub advancing “science of scaling” and “practice of scaling” (building on IPSR; complementary to all initiatives; with GIZ Scaling Task Force; PABRA, WUR; TAAT)

Addressing the region's poverty & climate hot-spots

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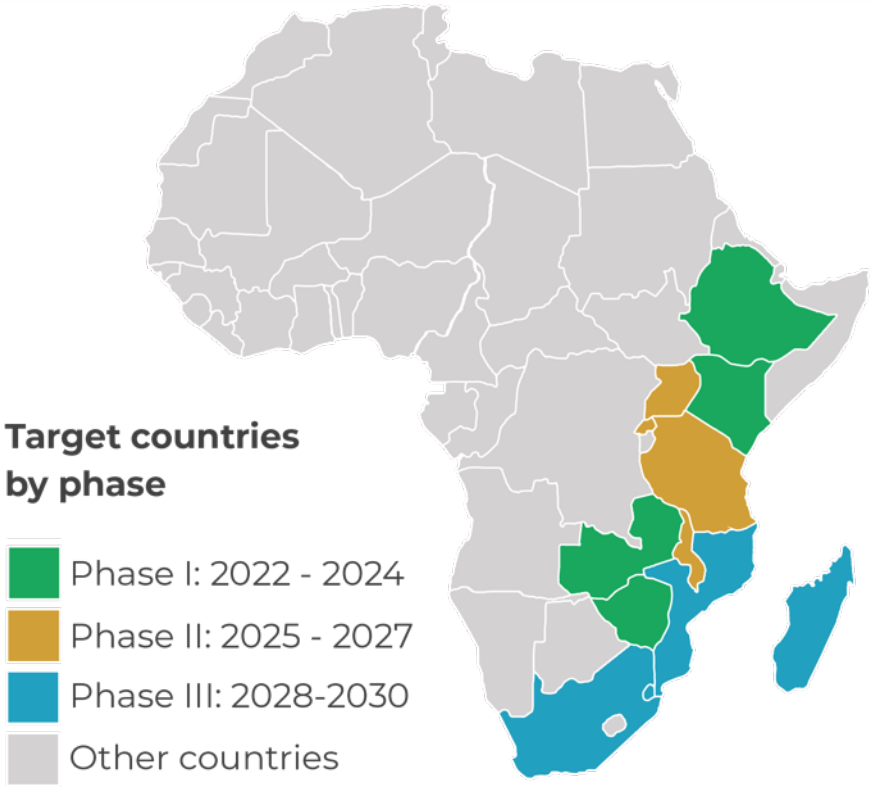
Ukama Ustawi: Diversification for Resilient Agrifood Systems in East and Southern Africa



In addition, partnership with regional platforms (e.g. PABRA, CCARDESA, ASARECA) ensure coverage across all 12 countries

Initiative outcomes by 2024

50,000 farmers (**40% women; 40% youth**) using climate-smart intensification and diversification practices with improved water and land management.

1 million farmers and other value chain actors (40% women, 40% youth) accessing bundled digital agro-advisory and risk management services.

At least **50 start-ups** and SMEs—40% run by women and 40% by youths—will have scaled climate-smart solutions

US$100 million of investments enabled by **4 strategies/ policies** supporting collaborative governance and management of multifunctional landscapes.

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Diversification for Resilient Agrifood Systems in East and Southern Africa

6 interlinked WPs facilitating the development and delivery of innovations to boost diversification and resilience at scale

UU Workpackages

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WP 1. Diversify & Intensify (from maize-mixed to diversified systems for nutritious diets)

Integrated maize-legume intensification practices using promising innovations coupled with conservation agriculture and mechanization in collab with ***SI-MFS and EiA***

WP 3. Support & Accelerate (SMEs, markets, inclusive finance, MSDs)

Accelerator and technical assistance with ***Sustainable Finance Unit and Markets and Value Chains Initiative***

WP 2. De-risk and Digitize (agricultural risk management, agroadvisories, digital finance)

Commercially viable financial products bundled with digital climate and advisory services delivered through mobile and TV/radio in collab with ***ClimBeR, LCSR, and Digital***

WP 4. Govern and Enable (shared vision, cascaded targets, coordination & co-implementation)

ESA Policy hub and ESA Learning Platform in collab with **FANRPAN, CCARDESA, ASARECA**

WP 5. Empower & Engage (youth, women, capacity)

Gender Empowerment Index and an actionable GESI framework in collab with ***Gender Platform, HER+***

WP 6. Scale and Coordinate (U2 Scaling Hub, spillover effects, regional coordination of initiatives, embedding One CGIAR)

One CGIAR ESA Scaling Hub in collab with the ***GIZ Scaling Taskforce and One CGIAR scaling teams (IPSR)***

One CGIAR Impact Areas

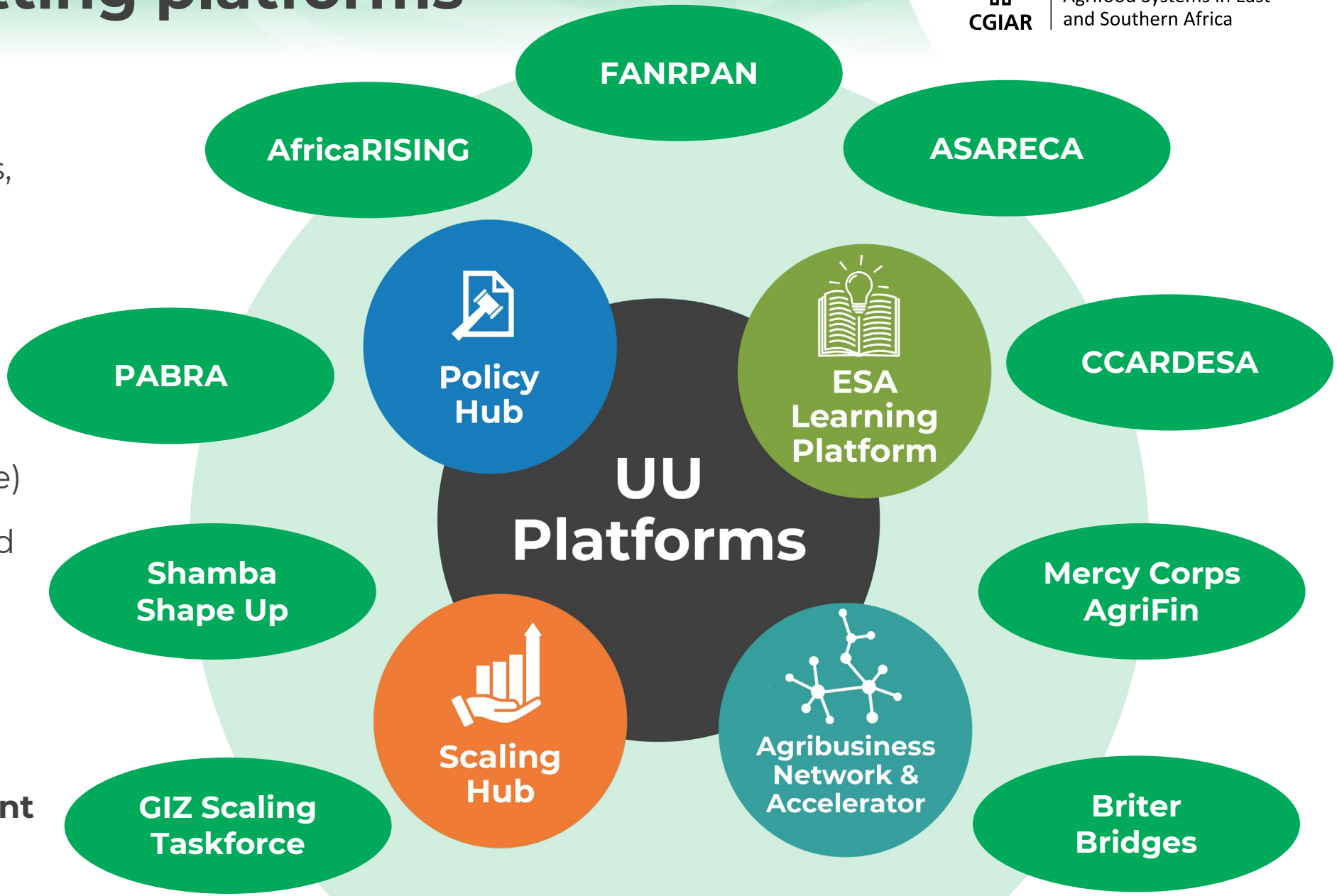
- Nutrition, health and food security
- Climate adaptation and mitigation
- Poverty Reduction, Livelihoods and Jobs
- Environmental health, water security, and biodiversity
- Gender Equality, Youth and Social Inclusion

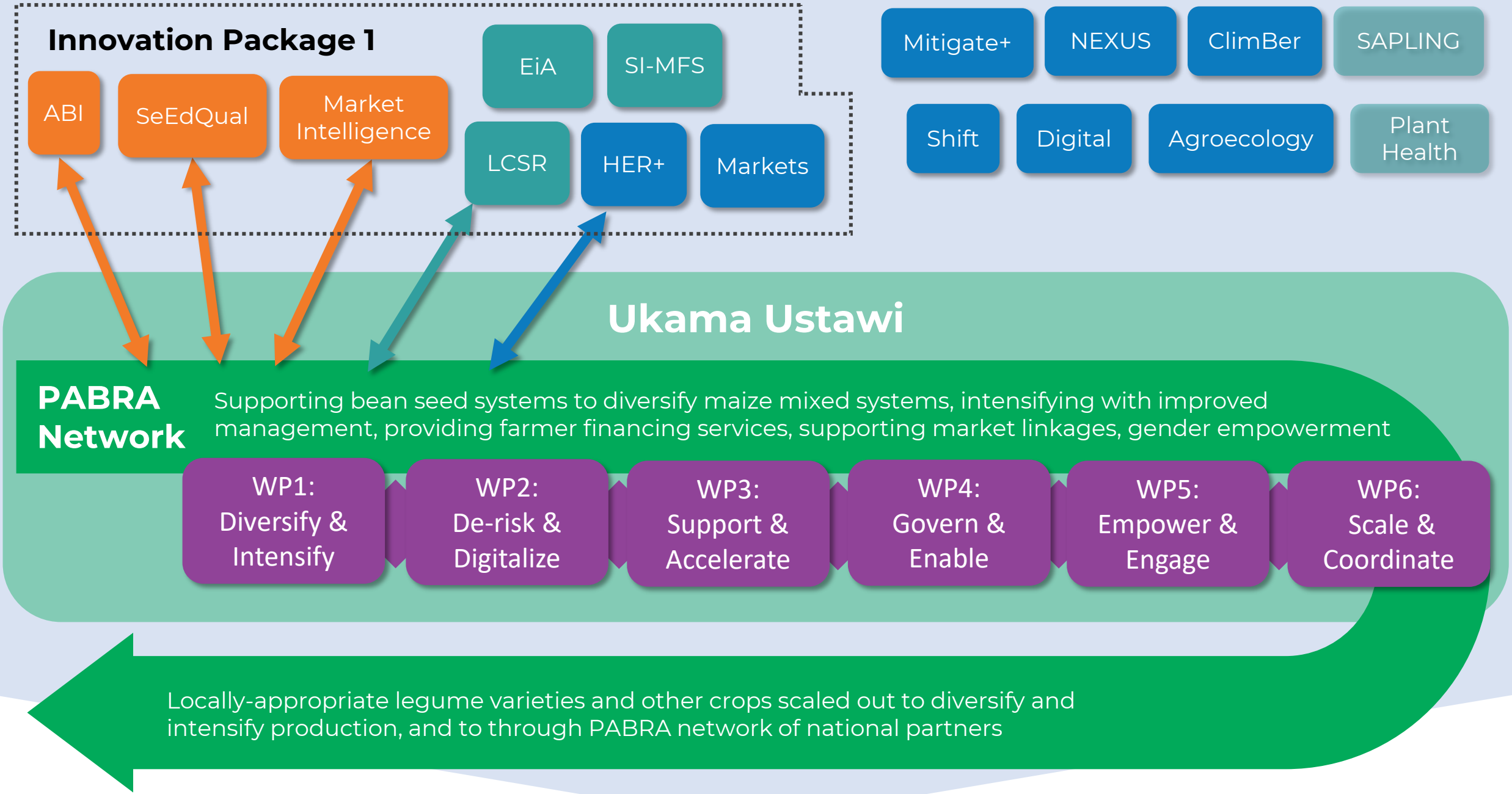
UU cross-cutting platforms

Ukama Ustawi: Diversification for Resilient Agrifood Systems in East and Southern Africa

Key principles:

- **Integrated** (value chains, countries, sub-regions, farm-to-landscape, stakeholder groups, UU priorities)
- **Multi-partner** (and embedded in existing platforms, processes, initiatives where possible)
- **Demand-led** (embedded in the region)
- **Inclusive**
- **Business unusual**
- Enhanced **knowledge sharing and engagement**




Innovation Package 1
ABI
SeEdQual
Market Intelligence
EiA
SI-MFS
LCSR
HER+
Markets
Mitigate+
NEXUS
ClimBer
SAPLING
Shift
Digital
Agroecology
Plant Health
Ukama Ustawi
PABRA Network
Supporting bean seed systems to diversify maize mixed systems, intensifying with improved management, providing farmer financing services, supporting market linkages, gender empowerment
WP1: Diversify & Intensify
WP2: De-risk & Digitalize
WP3: Support & Accelerate
WP4: Govern & Enable
WP5: Empower & Engage
WP6: Scale & Coordinate
Locally-appropriate legume varieties and other crops scaled out to diversify and intensify production, and to through PABRA network of national partners

ABI

SeEdQual

Market Intelligence

LCSR

Agroecology

ClimBer

Mitigate+

NEXUS

Shift

EiA

SAPLING

SI-MFS

Plant Health

Digital

Markets

HER+

Ukama Ustawi

PABRA

Shamba Shape Up & iShamba

AfricaRISING

FANRPAN

WP1: Diversify & Intensify

WP2: De-risk & Digitalize

WP3: Support & Accelerate

WP4: Govern & Enable

WP5: Empower & Engage

WP6: Scale & Coordinate

Millions of vulnerable smallholder farmers transition from maize-mixed systems to sustainably intensified, diversified, and de-risked agrifood systems with a strong maize base, through improved public and private extension and delivery channels enabled by the agribusiness ecosystem, enterprise development, policy action and investment.

Initiative team and people process

Dr Inga Jacobs-Mata
Initiative Lead
WP 4 Lead (IWMI)

Dr Evan Girvetz
Initiative Co-Lead
WP 2 Lead (ABC)

Dr Christian Thierfelder
WP 1 Lead (CIMMYT)

Mercy Zulu-Hume
WP 3 Lead (ABC)

Dr Deepa Joshi
WP 5 Lead (IWMI)

Iddo Dror
WP 6 Lead (ILRI)

- 50% female leadership team
- 7 CGIAR entities involved
- 69 initiative assignments, 27 of 20% FTE and above including 11 new roles
- Good balance of local staff presence
- Capacity strengthening of younger researchers, as well as a mix of early and mid-career staff and senior staff
- Efforts underway to improve gender balance at WP level.

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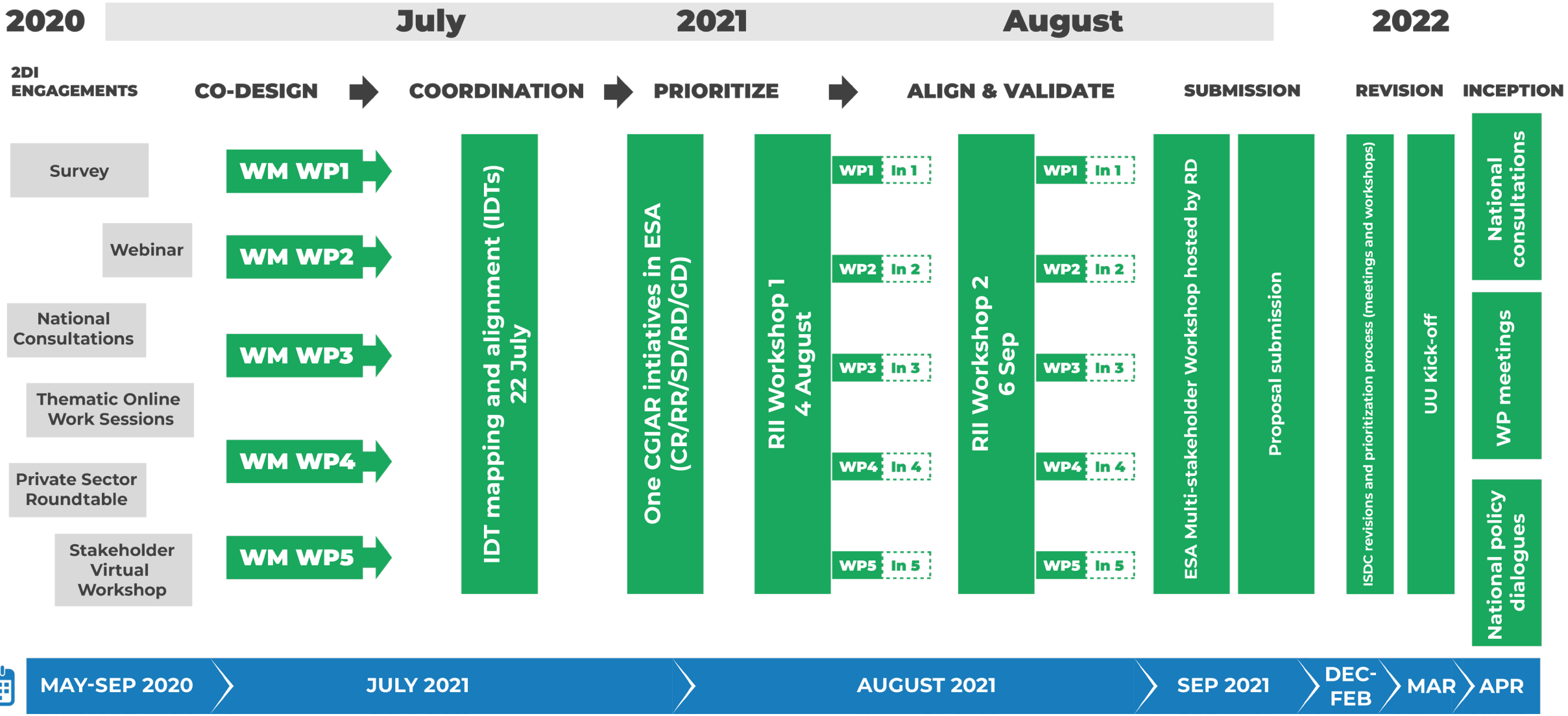
Diversification for Resilient
Agrifood Systems in East
and Southern Africa

Summary of Proposal Development Process

Proposal Development Process Summary

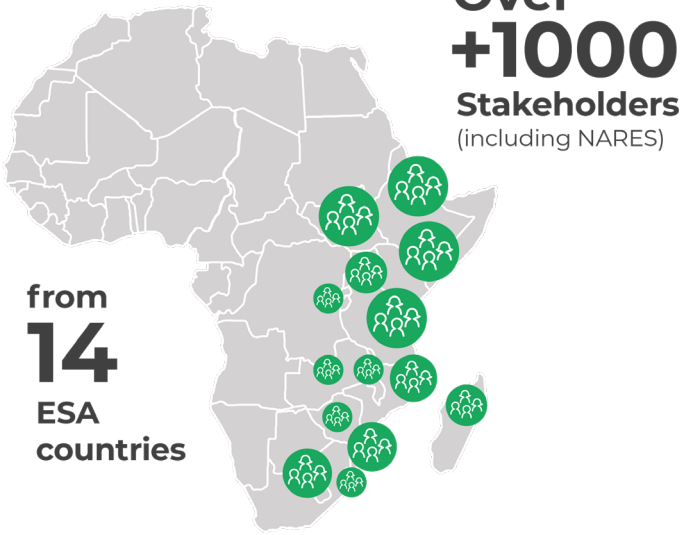
CGIAR | Ukama Ustawi: Diversification for Resilient Agrifood Systems in East and Southern Africa



ISDC Review feedback

CGIAR | Ukama Ustawi: Diversification for Resilient Agrifood Systems in East and Southern Africa

The UU participatory co-design process involved



- Partnerships with CCARDESA and ASARECA, the sub-regional NARES networks for ESA.
- PABRA as a part of UU with its strong network with the NARES.
- Work with the NARES is included in WP1, WP2, WP4, and WP5.

The need for increased capacity building:

UU has added an East and Southern African learning platform as one of the hubs under UU.

- Capacity building is now integrated into all work packages
- Community-based design and co-creation in full collaboration with NARES partners to allow for joint learning
- Capacity strengthening of agriculture SMEs/start-ups from entrepreneurial support organizations and UU technical assistance
- Strengthening researchers' capacity to translate and communicate results and evidence and increasing policymaker awareness
- Gender equity and social inclusion (GESI) skills relevant across the agri-enterprise ecosystems
- Capacity strengthening on the science and practice of scaling

ISDC Review feedback

Ukama Ustawi: Diversification for Resilient Agrifood Systems in East and Southern Africa

Integration and disciplinary silos of WPs:

- Integration between work packages is critical for the success of the initiative
- WP 4 has been rescoped to focus explicitly on governance and institutional arrangements. Environmental sustainability elements have migrated to WP 1.
- Explicit links and synergies have been made through the kick-off workshop and activity planning (UU Kick-off Summary Report)

High level themes to include and strengthen:

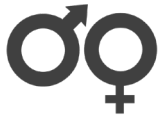
- Livestock; governance, policies, and institutions; gender have been emphasized and integrated in all work packages.

Ensuring scientific research is prominent

Testing of diversification and intensification innovation bundles with farmers

Technical design of digital services for farmers

Economic policy analysis, advancing innovations in environmental management



Advancing research on gender transformative approaches to address systemic barriers to inclusivity

Advancing the science of scaling in the region

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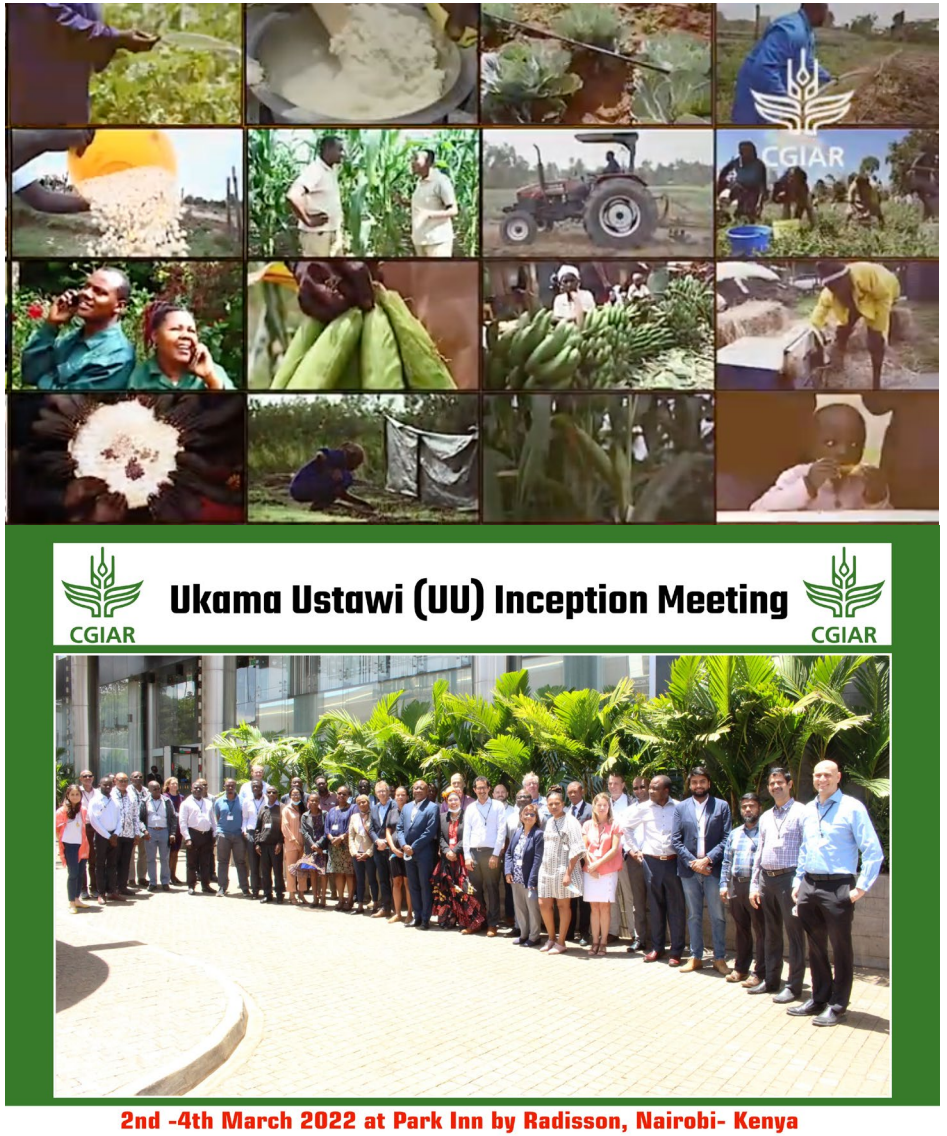
Diversification for Resilient
Agrifood Systems in East
and Southern Africa

Update on Implementation of Activities and Progress

Prioritization, inception, and engagement

- Prioritization exercise (meetings and WP workshops) following ISDC review and reduced budget (reduced scope of proposal)
- Kick-off meeting with 85 in person and virtual participants to understand roles and responsibilities, identify priorities for 2022, and review the cross-cutting programmatic underpinnings of UU.
- UU Video: https://www.youtube.com/watch?v=JRtqoLJyyrw and other comms activities rolled out.
- Joint workplan developed with Pan-African Bean Research Alliance (PABRA) across all work packages and linked with national research programs across all 12 countries.
- Implementation of activities in all WPs.
- Continued engagement with One CGIAR initiatives and regional/national partners.
- Continued participation in One CGIAR national consultations (Madagascar, Rwanda, Kenya completed)



Update of Initiative Implementation Activities and Progress

CGIAR | Ukama Ustawi: Diversification for Resilient Agrifood Systems in East and Southern Africa

WP 1: Diversify and Intensify Maize-Mixed Systems

- Planning meeting with national partners to kickstart project activities in target countries (April 2022, completed)
- Target locations, partners, implementation modalities and budgets agreed upon (April 2022, completed)
- Scaling agri-business environment in target countries commenced (May 2022, initiated)
- Protocols for field implementation, sensitization meetings and procurement in progress

WP 2: De-risk and Digitalize with Bundled Services for Farmers

- Landscaping of commercially viable bundled services for farmers to identify bottlenecks to scaling and sustainability with Busara Center for Behavioral Economics (June 2022, initiated)
- Digital Climate Smart Agriculture Sandbox initiated to develop commercially viable services for farmers, in partnership with Mercy Corps Agrifin Digital Farmer program, integrated with AICCRA activities (May 2022, initiated)
- Impact assessment study and scoping study of Shamba Shape Up in Zambia (May 2021, initiated)

WP 3: Support and Accelerate Value Chains and Agribusiness

- Planning meeting to kickstart project activities (April 2022, completed)
- Entrepreneur Support Organisation (implementing partner) selection process initiated (May, in progress)
- Innovation bundle development process initiated (June 2022, in progress)
- Market Analysis with Briter Bridges initiated (June 2022, in progress)
- Work plan, budget and team roles and responsibilities agreed (April 2022, completed)

Update of Initiative Implementation Activities and Progress

Ukama Ustawi: Diversification for Resilient Agrifood Systems in East and Southern Africa

WP 4: Govern and Enable

- WP 4 team identified and engaged (February 2022, completed)
- Planning meeting to kickstart project activities (March 2022, completed)
- Partnership agreement with FANRPAN finalised (to be completed in June 2022) and national policy dialogues planned for Zambia (July) and Kenya (September)
- Discussions on Partnership agreements with Rheos Partners (UU CoP), CCARDESA, ASARECA commenced (May onwards)
- Concept note for national indicators in process (March onwards)
- Discussions underway to develop Policy Hub and ESA Learning Platform (March onwards)

WP 5: Empower and Engage

- Team set up (April 2022)
- Defining of workplan, budget, role of different partners agreed upon
- Engagement with WorldVeg and Solidaridad on synergies and complementary activities (began April)
- Terms of Reference for the GESI Framework finalized (June 2022)

WP 6: Scale and Coordinate

- WP 6 team identified and engaged (March – April 2022, completed)
- All UU core innovations to be profiled using the new IPSR tools (June 2022)
- WUR partnership negotiations in progress

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Ukama Ustawi:
Diversification for Resilient Agrifood Systems in East and Southern Africa

Ukama Ustawi: Together we grow and develop.

Thank You!

Ukama Ustawi:
Diversification for Resilient Agrifood Systems in East and Southern Africa

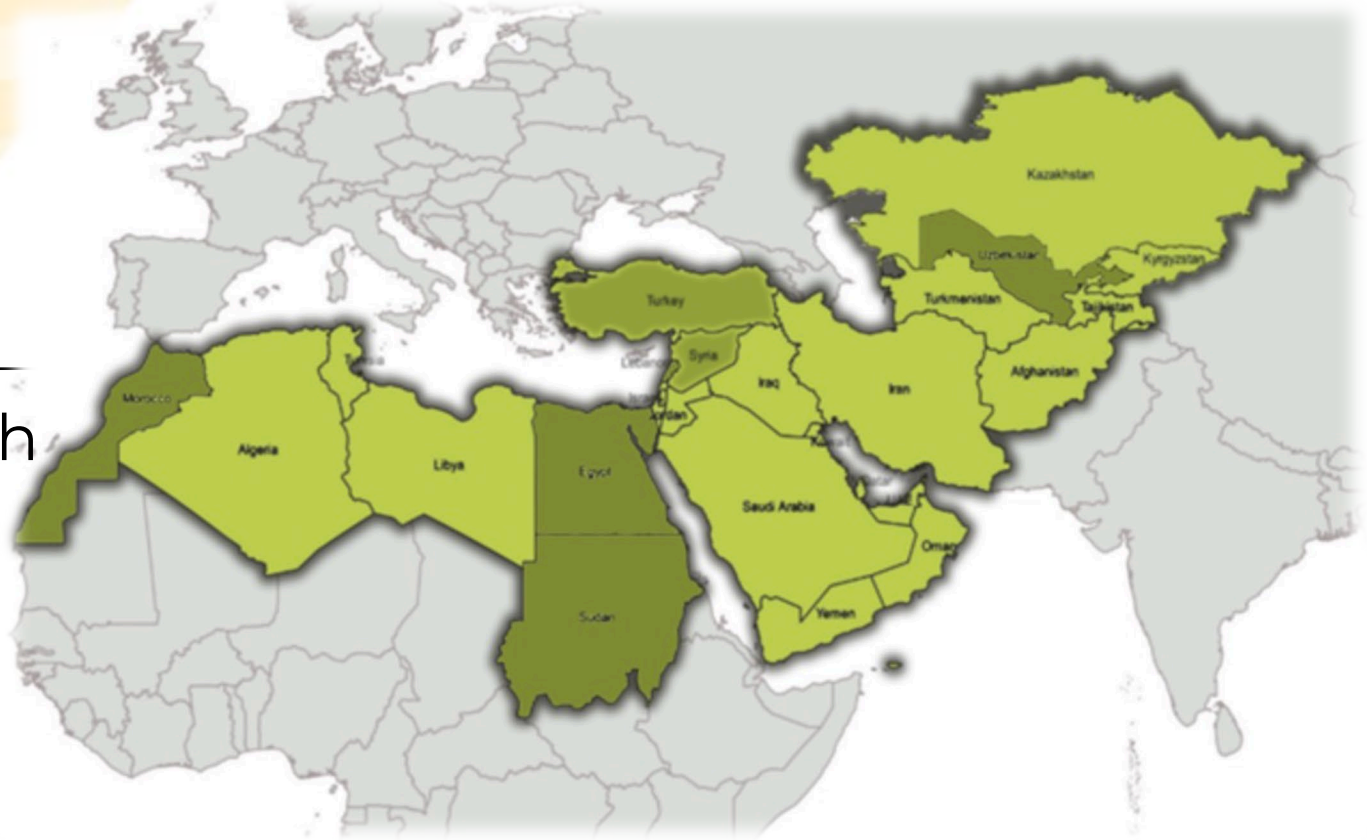
From Fragility to Resilience in Central and West Asia and North Africa (F2R-CWANA)

Michael Baum, Lead

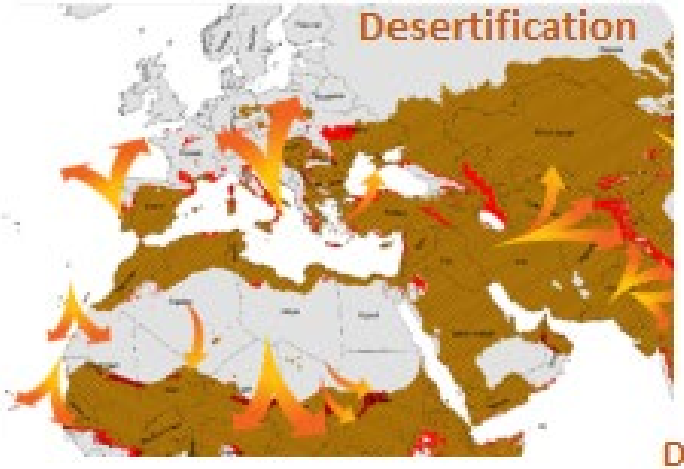
Maha Al-Zu'bi, Co-Lead

June 2022

ICARDA, IWMI, CIMMYT, WorldFish
IFPRI, ABC, CIP, IRRI



F2R-CWANA Challenges



Food and nutrition insecurity

Drought and heat

Population growth

Limited water for agriculture

Weak governance, fra[illegible]licts

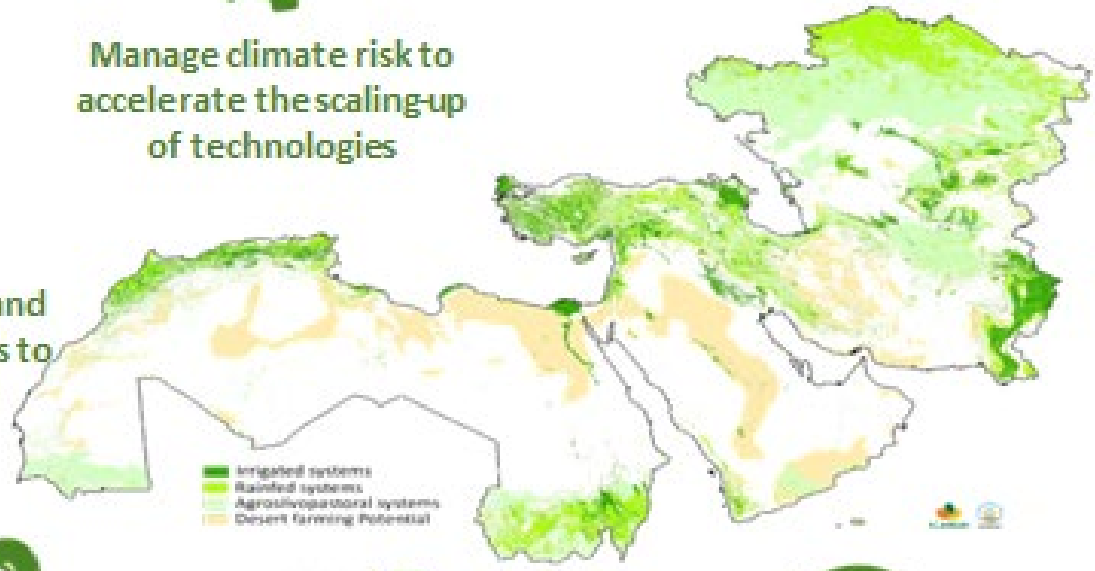
Gender Inequalities

Fragility

Manage climate risk to accelerate the scaling-up of technologies

Resilience

Robust regulation and governance systems to enable success



Nutritious, climate resilient food and agrobiodiversity preservation

Sustainably closing the yield gaps on farming systems

Improve water use, salinization and desertification

F2R-CWANA Work Package structure

WP1

Innovations in partnerships, policies and platforms for the efficient, inclusive and climate resilient transformation of agrifood systems.
Link with: NPS, ESA-U2,

WP2

Genetic innovations, seed systems, and agrobiodiversity conservation for climate resilient food and nutrition security.
Link with: ABI, MIPP, SeEdQUAL Genebank, Breeding Resources, Nature+, SI-MFS

WP3

Sustainable farming-systems intensification for the climate resilient decomposition of yield gaps.
Link with: EiA, Sapling, Plant Health,

WP4

Integrated food, land, water, and energy systems for resilient landscapes.
Link with: NEXUS Gains,

WP5

Scaling innovations and digital tools for climate resilient food value chains.
Link with: ClimBer

F2R-CWANA Innovations and Outcomes

WP1 Innovations in partnerships, policies and platforms for agri-food systems transformation

WP2 Genetic innovations, seed systems, and agrobiodiversity conservation

WP3 Sustainable intensification of farming systems

WP4 Integrated food, land, water and energy systems

WP5 Scaling innovation and digital tools

Innovations

- Farm to basin smart tools for water efficiency and management
- The Rural Investment and Policy Analysis Modeling Toolkit
- CGIAR Accelerator and Open Innovation Program
- Promoting in-situ conservation of CWANA dryland agrobiodiversity
- Participatory Product Profile Performances
- Toolbox of Nature-based Solutions for people and planet
- Weather station-based irrigation advisory system
- Resilient food and feed crops adapted to MENA region
- Scale-appropriate mechanization for CWANA

In 2030:

Farmers

use Best Bet Genetic and Agronomic Innovations developed for CWANA.

adopt best practices for the on-farm conservation of agrobiodiversity.

Government, civil society, private sector and INGOs

work together to create efficient, inclusive and resilient national agri-food systems.

scale up innovations and digital tools for food value chain climate risk management.

work together to scale up bundled solutions to bridge yield gaps.

practice integrated management of food, land, water, and energy systems.

WP1: CGIAR Innovation Accelerator and Open Innovation Platform

Example: Dryland Morocco

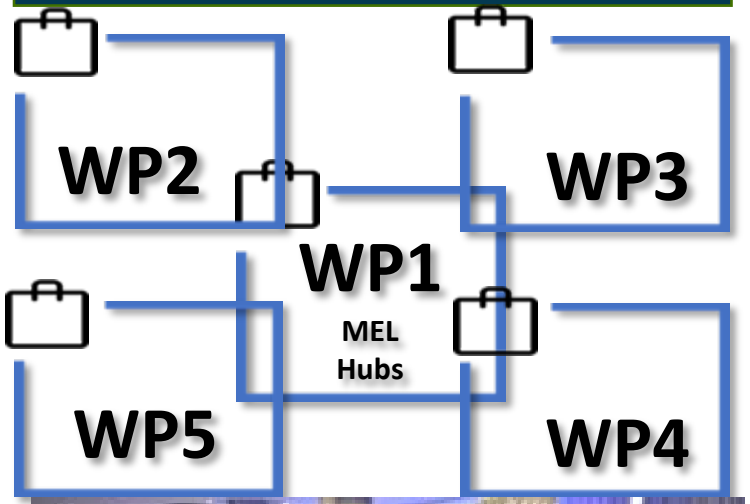
Objectives

Digital (ICT) platform

Innovation (know-how) hubs

Scaling hubs

Level of Innovation Platform



Alliance of stakeholders: AMAC

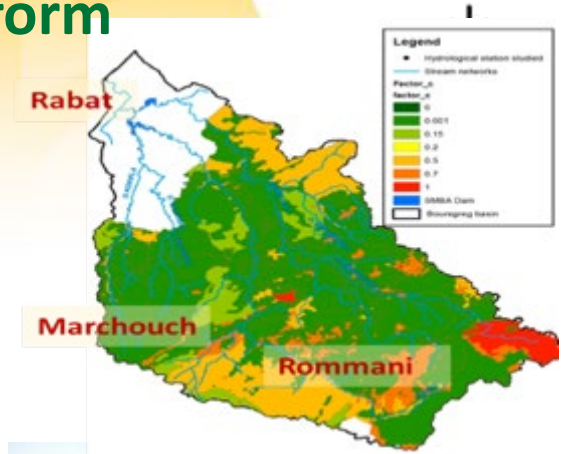
Level of Integration

Value chain: Rainfed Cereals with small ruminants

Watershed
Bouregreg River

Farming community

Research farm Marchouch



AgriTech4Morocco Innovation Challenge

300+ Applications submitted

90 Eligible Applications

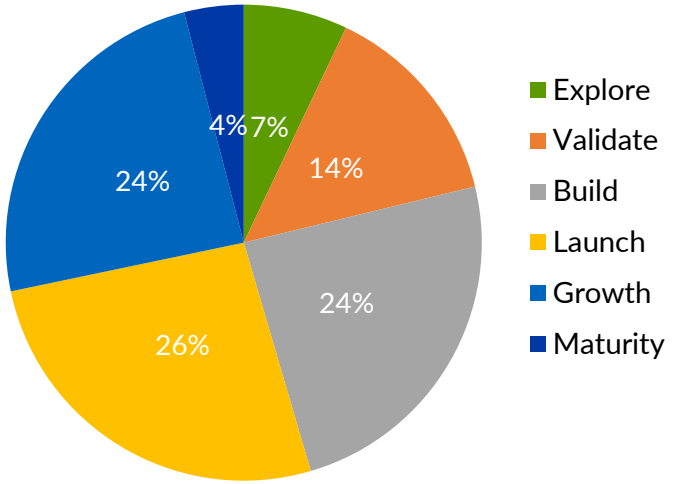
23 Countries represented

41 of these innovations have patents or pending patents

59 applications have 3 or more women in their team

Five priority areas

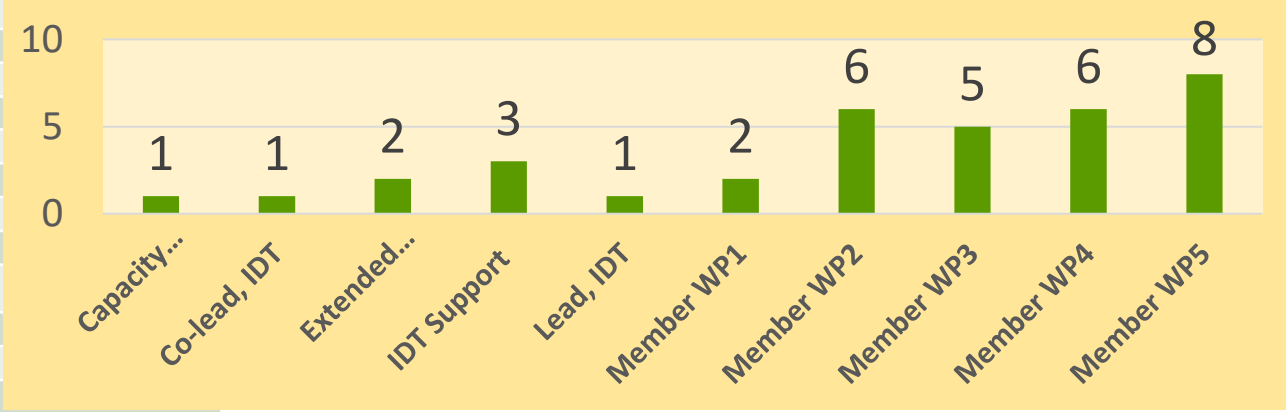
Stage of development of innovations

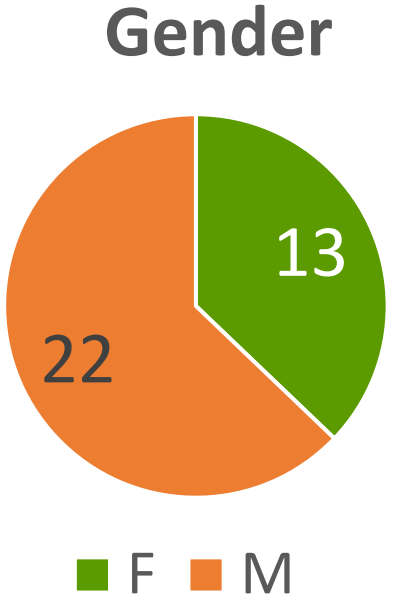


- Climate risk adaptation
- Value chains efficiency
- Capacity building
- Financial services
- Market traceability and transparency

IDT Composition: F2R-CWANA

Name	Role	CGIAR	Gender	% time allocation	Externlal
Michael Baum	Lead, IDT	ICARDA	M	46	
Maha AL-Zu'bi	Co-lead, IDT	IWMI	F	32	
Boubaker Dhehibi	Lead, WP1	ICARDA	M	20	
Kamiljon Akramov	Member, WP1	IFPRI	M	25	
Sikandra Kurdi	Member, WP1	IFPRI	F	17	
Dina Najjar	Member, WP1, Gender Expert	ICARDA	M	9	
Zewdie Bishaw	Lead, WP2	ICARDA	M	23	
Rusudan Mdivani	Member, WP2	CIP	F	5	
Miguel Sanchez Garcia	Member, WP2	ICARDA	M	16	
Ahmed Amri	Member, WP2	ICARDA	M	15	
Filippo Bassi	Member, WP2	ICARDA	M	11	
M.L. Jat	Lead, WP3, Member, WP4	CIMMYT	M	15	
Mina Devkota Wasti	Member, WP3	ICARDA	F	34	
Vinay Nangia	Member, WP3 and WP4,	ICARDA	M	16	
Rachid Moussadek	Member, WP3 and WP4	ICARDA	M	25	
Mahesh Kumar Gathala	Member, WP3	CIMMYT	M	35	
Maha Al-Zu'bi	Lead, WP4	IWMI	F	20	
Ahmad Nasrallah	Member, WP4	WorldFish	M	17	
Ahmed Ashraf Elewa	Member WP4	Worldfish	M	33	
Ibrahim Salah Elsera	Member WP4	Worldfish	M	17	
Youssef Brouziyne	Member, WP4	IWMI	M	23	
Oyture Anarbekov	Lead, WP5	IWMI	M	15	
Kibrom Abay	Member, WP5	IFPRI	M	15	
Akmal Akramkhanov	Member, WP5	ICARDA	M	0	
Ramy Boujawdeh	Member, WP5		M	0	Berytech
Caroline Milow	Member, WP5		F	0	GIZ
Sandra Ruckstuhl	Member, WP5	IWMI	F	0	
Godefroy Grosjean	Member, WP5	ABC	M	0	
Rachael McDonnell	Member, WP5	IWMI	F	0	
Charles Kleinermann	Cap Dev Specialist	ICARDA	M	0	
Laila Annouri	Extended IDT Member		F	0	IUCN
Akissa Bahri	Extended IDT Member		F	0	Minister a.d. of Agriculture, Water
Rhiannon Crichton	IDT Support	ICARDA	F	25%	
Julia Hedtjärn Swaling	IDT Support	ICARDA	F	30%	
Mary Margret McRae	IDT Support	ICARDA	F	25%	

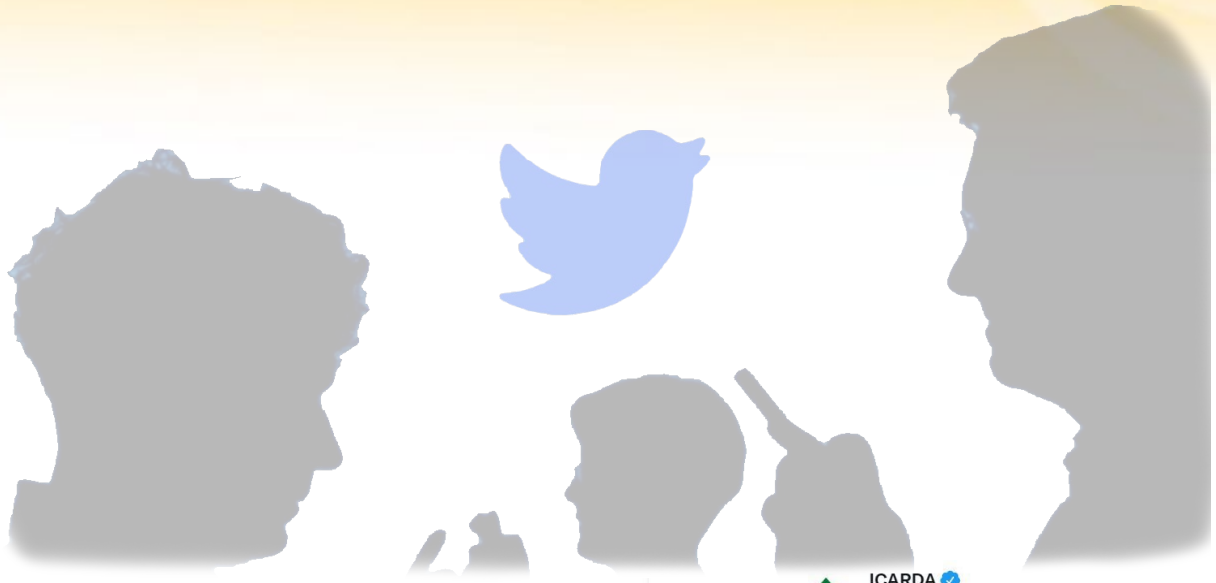




Responses to the ISDC

COMMENT	RESPONSE
1.The Initiative combines elements of two CGIAR Action Areas: **Resilient Agrifood Systems** and **Genetic Innovation**. The absence of a rationale in terms of **"integrated systems approaches"**	1. Elements of all three science areas ST -WP1,5), GI -WP2), RAFS -WP2,3,4). For the **integrated systems approach** we apply better packaging of synergistic technological solutions (varieties, agronomic packages, diversification of cropping) supported by institutional and enabling policy arrangements along with the empowering of local communities and key stakeholders (access to inputs, markets, better transfer of technology).
2. Characterization of research problem - lack of hard evidence and scientific documentation of the scope of these problems and the corresponding prospects for the Initiative to address them at significant scale.	**2. We have revised and rewritten large** parts of the research problem and have referenced them. A trans-disciplinary research approach has been used to deal with these specific challenges based on our experiences.
3. Analysis of trade-offs across Impact Areas Credible *ex-ante* assessment necessary to understand regional scope for impacts is absent.	3. The projections of beneficiaries and benefits in F2R were based on past **ex-ante and ex-post** studies and suitability analysis for different technologies using environmental and economic models, and agent-based modeling, to determine the long-term benefits (Frija et al., 2021).
4. Overall theory of change, especially lack of clarity on causal linkages and roles of partners in delivering outcomes and impacts.	4. We have **re-focussed the ToC based on work-package** integration and synergies through the integration and two-way synergies between F2R-CWANA and the Global Initiatives. The technologies will be tested, validated, evaluated synergies and trade-offs and packed in IPs situated on the ground in the agro-ecologies that have been prioritized by the National Alliance of Stakeholders.

Social Media Platforms for Marketing and Communication



Michael Baum
@BaumBCI

IDT lead and co- lead of F2R-CWANA in Rabat Morocco kicking off the initiative together with Global RAFS director Martin Kropff, regional director CWANA Aly Abousabaa, and senior directors (finance) Marion and people and culture Fiona. @ICARDA @IWMI @IFPRI @CIMMYT @BiovIntCIAT

ICARDA
@ICARDA

"Climate challenges will always evolve. The adaptability & resilience elements of the @CGIAR global portfolio are at the center of our minds & work." - @KropffMartin at the #F2RCWANAInitiative launch @ICARDA @INRAMaroc @CIMMYT

ICARDA
@ICARDA

#Live: @ICARDA @INRAMaroc @CGIAR is launching the #F2RCWANAInitiative #Morocco to build smallholder livelihood resilience in the country & region.

More: cgiar.org/initiative/23-……

#Onecgiar #OurInitiatives

F2R-CWANA Proposal Development Process

Proposal Development Process started March 2021

Pre-Concept Submission April 16th, 2021

Proposal Submission Nov 30th, 2021

1 IDT Established March 2021

8 CGIAR Centers; Donors, private sector, key scientists and professionals , INGOs and policymaking worked with the core-IDT to develop the specific detail of the proposal

2 Regional Consultation July 2021

120 participants representing NARs in 22 countries to hear from partners and stakeholders view of the regional challenges, needs, and how to best address these

3 Regional Online Survey July 2021

Shared with 400 key stakeholders (government, private sector, donors, SMEs, research centers, academia, technology and innovation centers) in 5 languages (English, French, Arabic, Russian and Georgian) across 12 countries

4 Online Country Consultations August 2021

In Egypt, Morocco, Lebanon, and Uzbekistan, with more than 200 stakeholders participating, to again confirm that the F2R-CWANA Initiative proposal was meeting country needs.

5 Kick-off Workshops May-July 2022

17 May – Morocco
17 June – Uzbekistan
29 June – Egypt and Sudan
4 July – Lebanon and Syria)
5-7 Mangm Committee
8 Submission POR

Over 30 subject matter experts engaged; ongoing interactions stakeholders/partners and with 10 donors via email and bilateral follow-up

F2R-CWANA - Main challenges/opportunities faced by the team

Challenges	Opportunities
Limited time during proposal development phase	Synergies with other initiatives
IDT availability (engagement with other CGIAR Initiatives and projects)	Demand-driven approach that addresses pressing challenges
CWANA Region has diverse agro-ecological, socio-political, and economic contexts – all which require diverse solutions	Multi-CGIAR center engagement reflects widespread expertise and long experience in the region
Not business as usual proposal development process - challenge to keep up with different templates and needs	Potential to scale innovations
Instability in some countries in the Region hinders face-to-face consultations	Stakeholders (demand, innovation, scaling) consultation and engagement process started from design phase
Bringing all CGIAR centers in CWANA working together for this initiative	Bringing existing partnerships with various stakeholders into the initiative


CGIAR
One CGIAR
THANK YOU!

Resilient Agri-food Systems Regionally Integrated Initiatives

Transforming Agri-Food Systems in West and Central Africa (TAFS-WCA)

Aminou Arouna

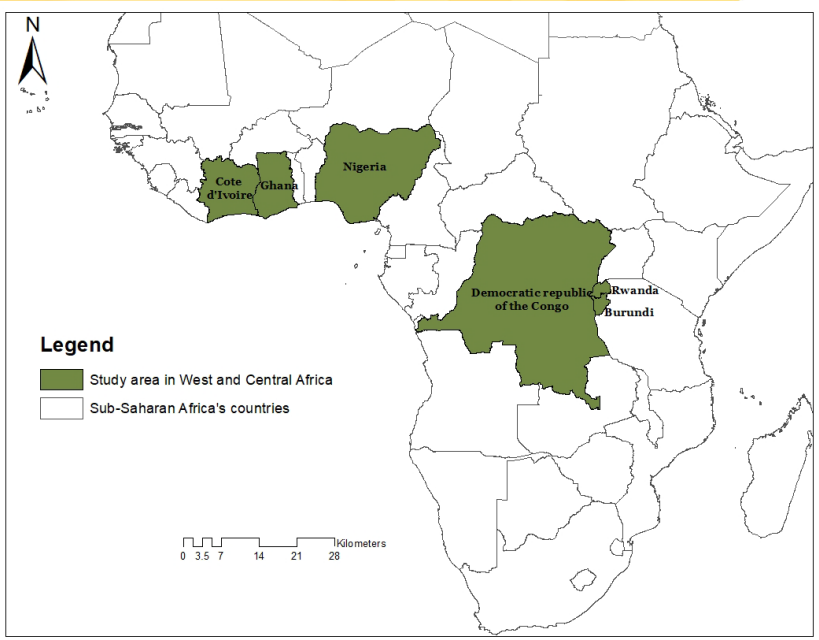
20 June 2022
(13.00 – 15.00 CEST)

Outline

1. Initiative Overview
2. Response to ISDC Comments
3. Implementation to date
4. Partner engagement & Inception Meetings
5. Collaboration with other Initiatives/ synergies
6. Challenges / risks – and mitigations of these

Overview of TAFS-WCA

- West and Central Africa
- 22 countries and phase in approach



- Nutrition, Health & Food Security
- Poverty Reduction, Livelihoods & Jobs
- Gender Equality, Youth & Social Inclusion
- Climate Adaptation & Mitigation
- Environmental Health & Biodiversity

TAFS-WCA Key Research Questions

CGIAR

Challenges

CLIMATE CHANGE	How can smallholder farming systems be made more productive and adaptive to climate change?
FOOD	What are the critical factors that incite consumer demand for biofortified and other nutritious foods?
MARKET	What are key determinants to seek for and adopt digital-based knowledge information systems?
YOUTH & WOMEN	What are the social constraints that affect gender equality in agribusiness?

Priority Science

The aim is to blend socio-economic issues with bio-physical to transform food systems

- Making food systems more **nutritious, safe and resilient** to climate change
- Promoting digitalized information systems in bundling innovations at landscape level.
- Participatory toolset for **inclusive landscape management** and citizen science for one health
- Addressing **social barriers to create equality for women and youth** doing business in value chains
- **Taking to scale Innovations** with proven impact in the region

WP and RESPONSIBILITIES BY CG CENTERS & PARTNERS

WP1	• Sustainable Intensification and Diversification for Nutritious and safe food and Resilient Food Production through Sustainable Seed and Management Systems **(IITA, CIP, AfricaRice, Bioversity-CIAT, World Fish, WorldVeg)– R. ASIEDU**
WP2	• Informed Digital Agriculture for Climate Resilience - Managing Climate Risks and Accessing Services **(Bioversity–CIAT, IITA, icipe) – M. OUEDRAOGO**
WP3	• Sustainable and Inclusive Landscape Management for a Healthy Environment and Safe Food **(IWMI, AfricaRice and IITA) – O. COFIE**
WP4	• Youth and Women Entrepreneurship Models in Food Value Chains **(AfricaRice, IITA and CIP) - A. AROUNA**
WP5	• Technology, Innovation, Communication, Knowledge, and Stakeholder Management for Accelerating Impact Investments and Catalyzing Impact at Scale **(CIP, AfricaRice, IITA, CORAF)- J. LOW**
Cross-cutting and management	• Innovation Platform and Scaling Readiness (IPSR) (**All Centers**) **M. SARTAS** • AfricaRice (**Lead- A. AROUNA**), IITA (Co-Lead- **R. KAPINGA**)

Initiative Focus and Scope

Agro-ecology

Phase 1: Humid and Transition Zones

Phase 2: Semi-Arid and Arid zones

Commodities and Value chains

Roots/Tubers and Bananas

Cereals (rice and maize-based systems), Legumes (cowpeas/ beans)

Vegetables and Inland fish-GIFT

Geographic scope

Phase 1: Ghana, Nigeria, Cote d'Ivoire + Rwanda, Burundi and DRC

Phase 1 - 2: Cameroon; Benin and Liberia

Phase 2 : Sahelian Countries

Response to ISDC Comments

- Our IDT reviewed recommendations and provided feedback with focus on:
  - a more **integrated approach** to transform food systems, including **food safety** as part of the nutrition agenda
  - how the Initiative would likely lead to impact at scale through **integrated systems approaches and partnerships**
  - **Stage-gate of fruit innovations**

Update of the proposal based on ISDC feedback

- Comments were shared with WP leaders
- Access to online system for the review of the proposal
- Review of the proposal is on-going

Implementation to date

Proposal approval

- March 2022

Detailed Budget and Plan of Results

- The overall approved budget for 2022 amounted to **USD 4.4 million**
- IDT prepared a detailed **operational budget for 2022** in line with a corresponding **Plan of Results** (PoR)

Keys activities

- Launching of Initiative (April and June 2022)
- A baseline to support the validation of **agroecological practices** in DRC
- Demonstration and participatory selection of the **best climate-smart agricultural practices** in DRC and Burundi

Implementation to date

Keys activities

- To evaluate their knowledge, perception and attitudes on nutrient dense foods, a **consumer survey** was done in Bukavu (DRC) town using a structured questionnaire with a sample size of **400** and a plan was developed for Burundi
- Survey to understand the **adoption, use and markets of vitamin A banana** in Burundi
- Baseline tools developed and baseline started in Cote d'Ivoire in 6 regions (Belier, Yamoussokro, Sasandra, Marahoue, Gkeke and Humbol) with a sample size of **1200** rural households

Partner engagement + Inception Meetings

Stakeholder engagement workshops

- **Stakeholder consultation survey** between June 6-23, 2011
- **Online stakeholder design workshop** on Sept 1st, 2021
- **First stakeholder workshop** was successfully conducted on **28-29 April in Kigali, Rwanda**; 85 participants (**60 physically and 25 online)**
- The workshop in West Africa is scheduled for **21-22 June in Abidjan, Cote d'Ivoire**

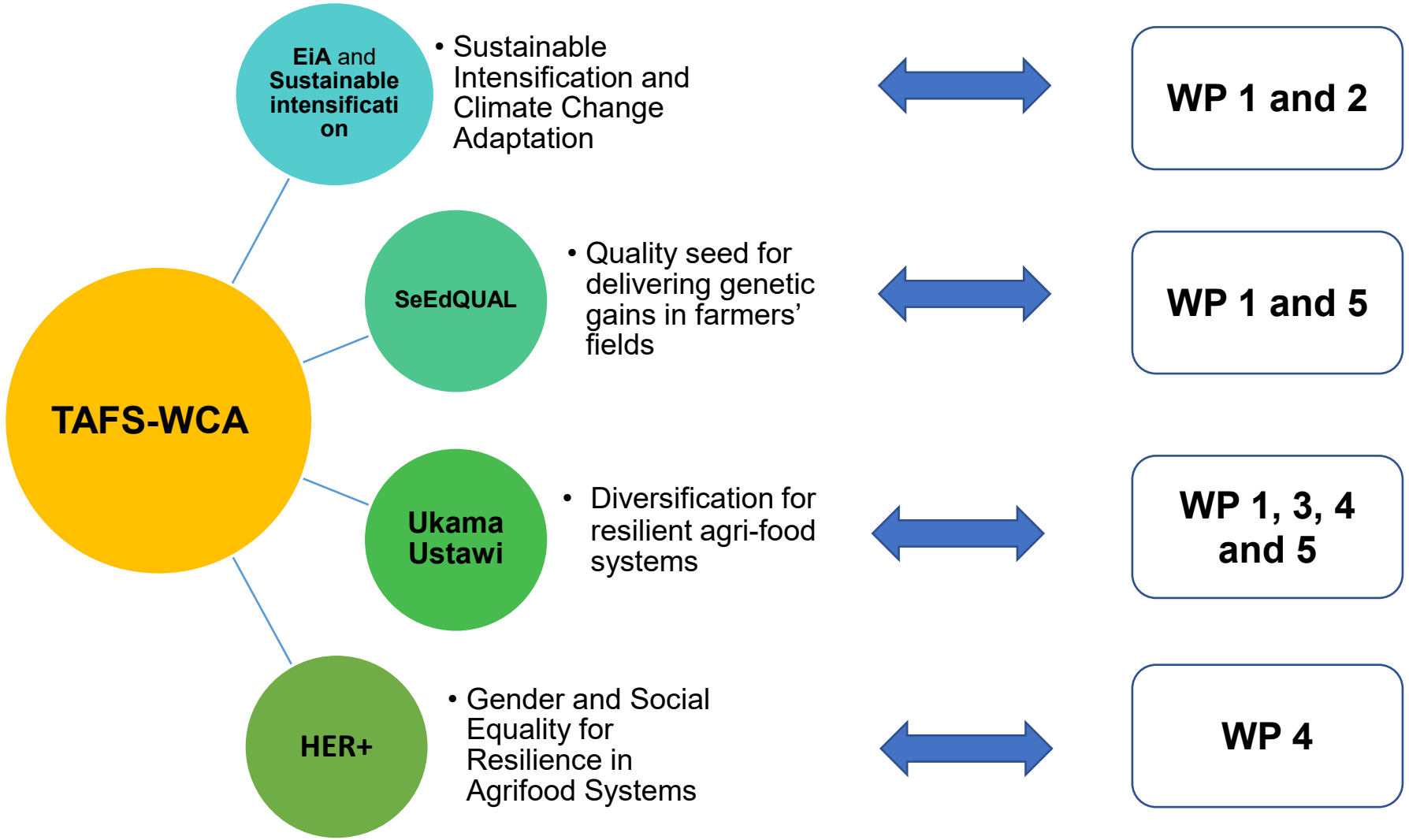
Planning for scaling out to the Sahel

- Meetings to discuss potential synergies with **WUR** in partnership with CORAF**,** **ENABEL** (Euro 50 million in Mali, Niger and Burkina Faso), and **GTI** on livestock

Partnership discussion with programs

- Meeting with the **Pan-Africa Bean Research Alliance (PABRA) and TAAT** to explore areas of collaboration

Collaboration with other Initiatives/synergies



Challenges / risks – and mitigations of these

Challenges

- Expecting feedback from the People and Culture to fill **vacant positions** to accelerate implementation of activities
- Working with a **limited budget** in Year 1

Opportunities

- Partnership with CIALCA (16 years of experience)
- Possibility to collaborate with regional organization especially CORAF and ECOWAS
- Partnership with regional programs such as the **West Africa Food System Resilience Program (FSRP) and TAAT (2nd phase)**

Thanks …
Merci …

Transforming Agrifood Systems in South Asia (TAFSSA)

A One CGIAR
Resilient Agri-Food Systems
Regional Integrated Initiative

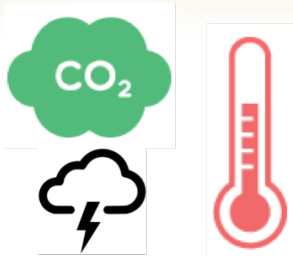
Progress updates | June 20, 202

Agrifood systems challenges affecting South Asia

Transforming Agrifood Systems in South Asia

1/4 of all of humanity

World's largest concentration of poverty & malnutrition



World's most crucial climate change 'hotspot'

Severe natural resource degradation and pollution

Systematic inequalities

Institutional and policy challenges

Food production & availability

- High production costs
- Need for diversification
- Unsustainable natural resource use
- Agricultural nonpoint source pollution
- Climate extremes and change
- Greenhouse gas emissions

Food access & affordability

- Connected market systems, but unequal access
- Loss of product quality from field to plate
- Gender and social inequalities
- Unhealthy foods widely available
- Environmental externalities

Consumption

- Multiple forms of malnutrition
- Poor diets main contributor to disease Low dietary diversity
- Heterogeneity in access to sufficiently nutritious foods
- Intrahousehold inequities

Social inclusion challenges (gender, youth, caste, tribe, ethnicity, religion)

TAFSSA builds on decades of deep regional research experience & established partnerships

Transforming Agrifood Systems in South Asia

CSISA

Rice Wheat

CCAFS

SRFSI

CGIAR RESEARCH PROGRAM ON Water, Land and Ecosystems

WINGS

POSHAN

SoLAR

CSRD CLIMATE SERVICES FOR RESILIENT DEVELOPMENT

LANSA Leveraging Agriculture for Nutrition in South Asia

transform nutrition

STRASSA

IFPRP Integrated Food Policy Research Program

Demand

Goverment Of India

Innovation

ICAR

SAARC Agriculture Centre (SAC)

BARC

NARC

RIMES

IDS

CSIRO

WAGENINGEN

USAID FROM THE AMERICAN PEOPLE

giz

ACIAR

DR. REDDY'S FOUNDATION

Scaling

Helen Keller INTERNATIONAL

KVK Krishi Vigyan Kendra

brac

iDE

ACI

grameenphone

Supreme Seed

CORTEVA agriscience

IDCOL

growindigo

CG CHAUDHARY GROUP Touching life everyday

AMMA-B

FACE

syngenta

RKM

Parmeeda

Crop Science

CLARO

Metal cultivating prosperity

Research

Impact

* Also a demand partner

Five work packages generating agrifood systems innovations

CGIAR | Transforming Agrifood Systems in South Asia

1 Inclusive, multi-stakeholder learning platforms and public data systems

2 Transforming agroecosystems to boost income and diversified food production

3 Evidence and actions boosting access to sustainably produced, healthy diets

4 Behavioural and structural determinants of sustainable healthy diets

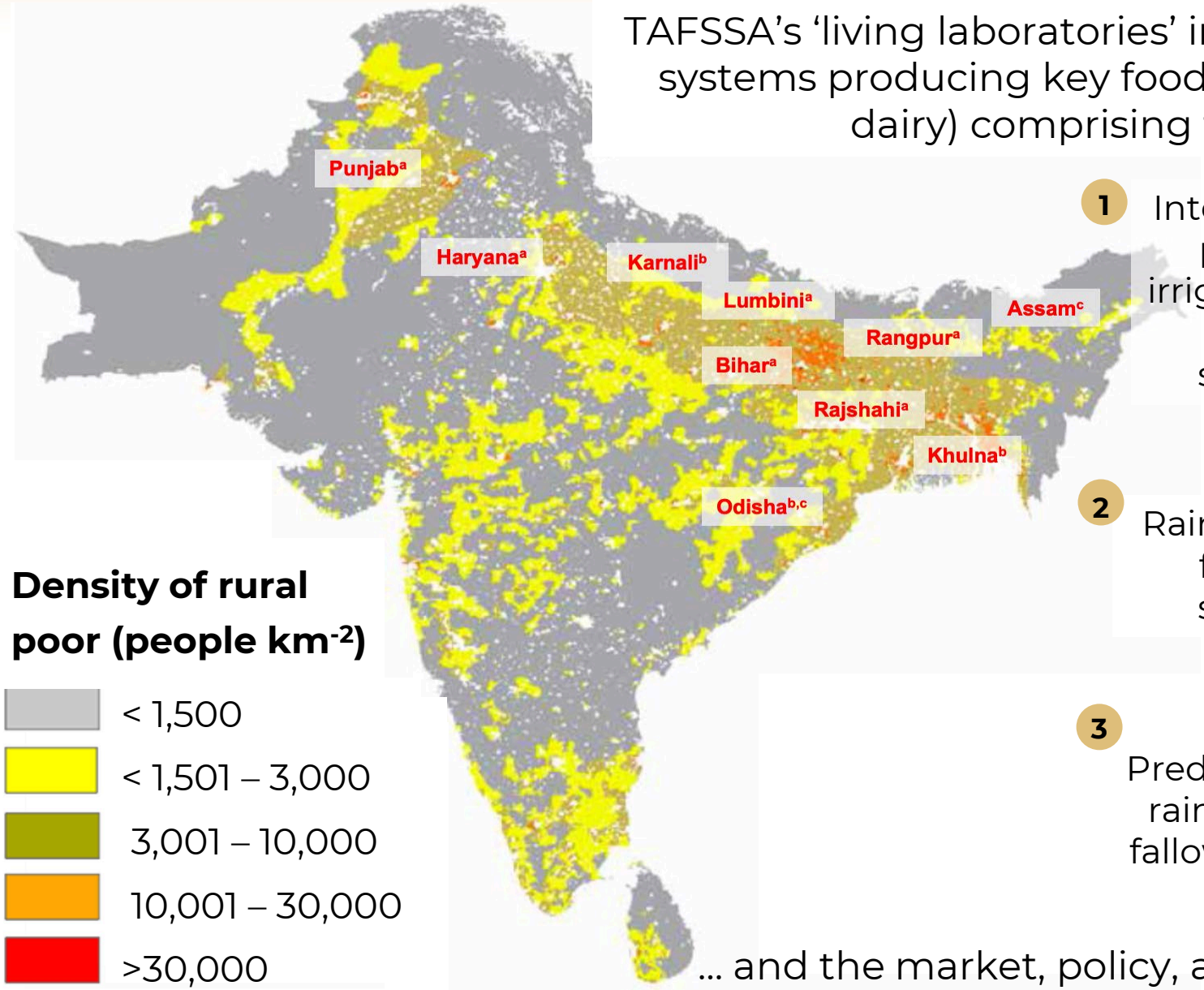
5 Building resilience to climate change & mitigating environmental degradation

Social inclusion (gender, youth, caste, tribe, ethnicity, religion)

Tackling South Asia's poverty hot-spots

Transforming Agrifood Systems in South Asia

TAFSSA's 'living laboratories' include locations with three major farming systems producing key food groups (cereals, vegetables, pulses, fish, dairy) comprising the bulk of South Asian diets....



1. Intensively or partially irrigated, rice-based systems

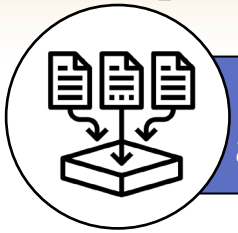
2. Rainfed mixed farming systems

3. Predominantly rainfed, rice-fallow systems

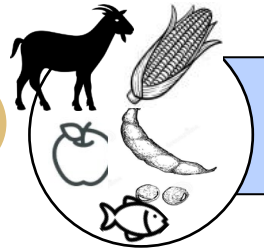
... and the market, policy, and socioecological systems affecting them.

TAFFSA outputs and innovations, by work package

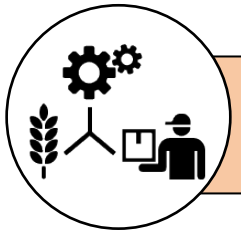
CGIAR | Transforming Agrifood Systems in South Asia

1 

Multi-stakeholder learning platforms and network maps, public agrifood systems indicators database

2 

Decision support framework for farm and agricultural landscape diversification & rural service market innovations

3 

Viable farm product aggregation and sales models, value stream maps, maps of consumer access to food environments

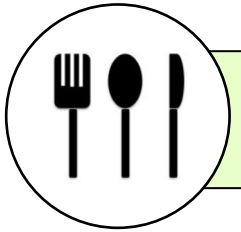
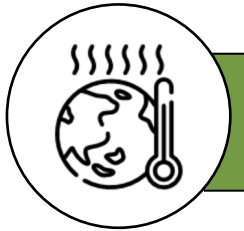
4 

Plate to farm maps, behavioural change communication toolkits, recommendations for improved social safety net programs

5 

Solutions for farm production & groundwater management, policy & technological options improving air quality, climate services

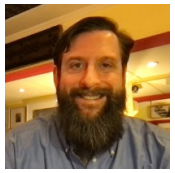
TAFSSA's Team Composition

Transforming Agrifood Systems in South Asia

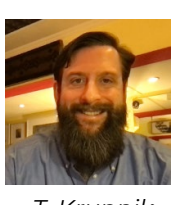
Work Package leads and co-leads

1


A. Kishore


T. Krupnik

2


T. Krupnik


ML Jat

3


P. Chellattan Veettil


S. Mohanti

4

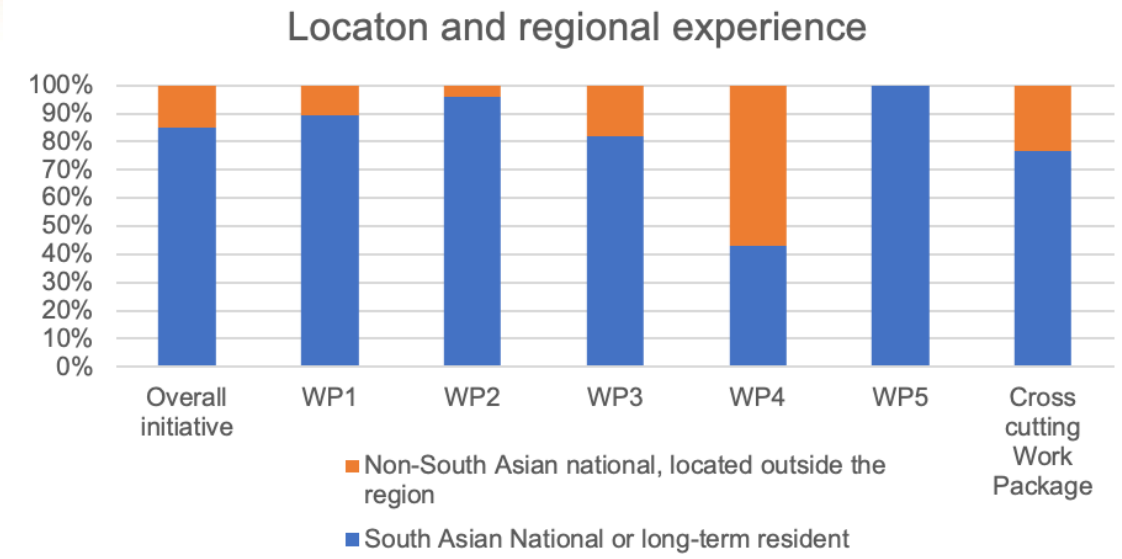

P. Menon

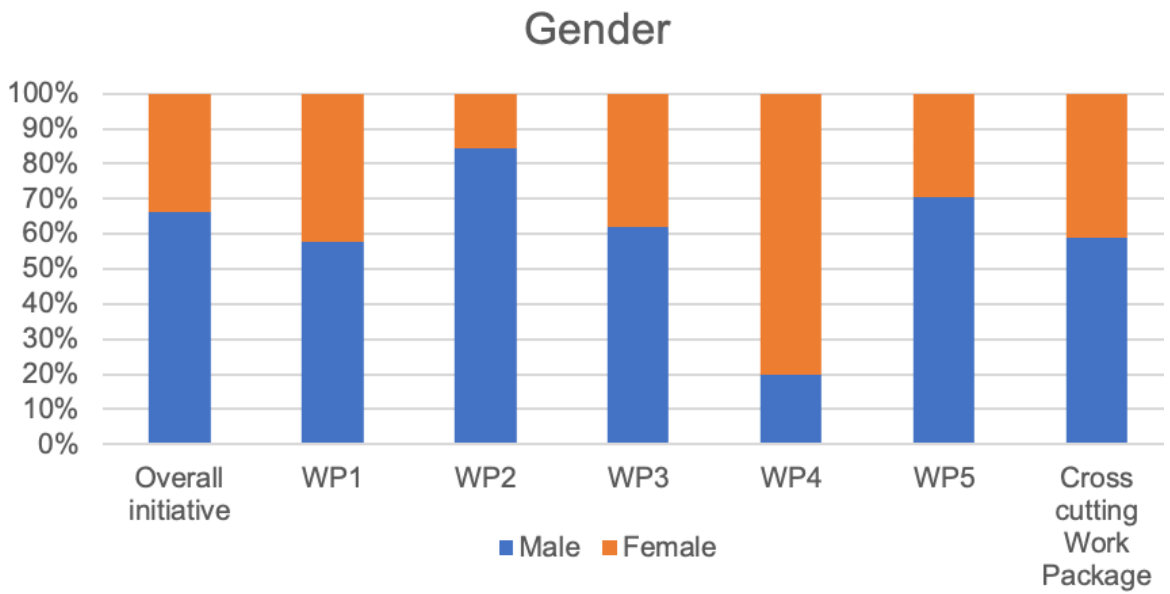

N. Kumar

5


A. Mukherji


A. Urfels





- 80 scientists, mostly South Asian nationals and/or with long-term regional experience

- CGIAR center composition:
  - ABC
  - CIMMYT
  - IFPRI
  - CIP
  - WF
  - ILRI
  - IWMI
  - IRRI

How is TAFSSA addressing the ISDC Review?

CGIAR | Transforming Agrifood Systems in South Asia

- **Overall, TAFSSA's ISDC review was favorable and no major concerns were raised.**
- TAFSSA's **strengths** were noted as: (a) strong research framing, (b) highly participatory design, and (c) strong team composition.
- **No major structural changes** for TAFSSA were identified, and the ISDC endorsed the Initiative to begin in full in January '22.
- Recommendations to **review prior research and other ongoing initiatives** relevant to Work Package 3 and 4 are being addressed through scoping reviews and inception meetings.
- Recommendations to **include institutional and policy analysis** are being addressed by refining existing and introducing new research activities in Work Packages 2 and 5.
- Recommendations to **integrate and connect WP theories of change** are being addressed through integrative activities across WPs

Work Package 2 field visits in India in June 2022

Participatory research planning linking farm production to nutrition in India during June 2022

Strong partner engagement

- TAFSSA's inceptions are aligned with One CGIAR Initiative Launches in each South Asian country
- Inceptions are organized with the support of the South Asia Regional Director and key governmental partners
- Inceptions are *externally facing*, participatory work plan development events
- Inclusion of NGOs, private sector, civil society, and international development organizations

WP2 research inception with ICAR, May 2022

TAFSSA inception in India in June 2022, co-organized with ICAR & CGIAR Regional Director

TAFSSA inception co-convened with CGIAR's Regional Director in Nepal, June 2022

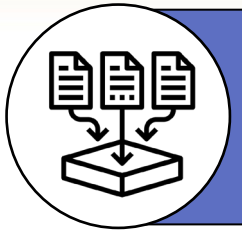
Work Package implementation

Transforming Agrifood Systems in South Asia

OVERALL

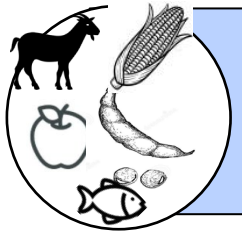
- **Teams and staff onboarded**
- **In-person internal leadership team retreat done**
- **2022 work plans aligned to Plan of Results**
- **Sub-geographies identified for research and engagement**
- **Routine work package and leadership team meetings**
- **Program management team**

1



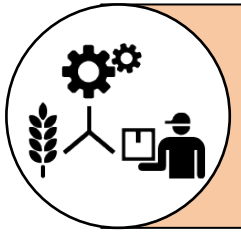
- Major indicators for agrifood data system identified
- Datasets being assembled
- Survey design and deployment plans Q3-4 of '22 underway.

2



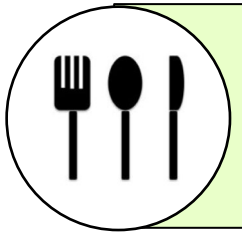
- Strategic learning trials for nutrition sensitive cropping systems initiated by ICAR in India.
- Design processes in Bangladesh and Nepal underway.
- EiA South Asia / CSISA research collaboration meeting completed

3



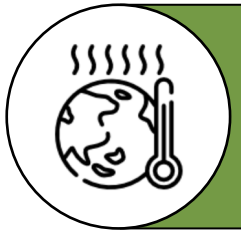
- Scoping review for farm product aggregation models initiated.
- Sub-grants to partners for value stream mapping under process.
- Methods for mapping consumer access to food environments under development.

4



- Research methods for plate-to-farm maps under development
- Reviews of literature on behavioural change communication for healthy diets underway.
- Implementation research on safety nets and research on affordability underway

5



- Historical review of drivers of groundwater use initiated.
- Ecological footprint research approach and framework under way.
- Experiments on crop residue burning and climate services under design

Challenges and risk mitigation

Transforming Agrifood Systems in South Asia

- Delays in budget allocation/release
- Limited budget availability for partnerships
- Mitigation measures:
    - Leveraging long-standing partnerships
    - Alignment with rich bilateral portfolio
    - Budget forecasting for 2023-24 with partners

Thank you!

Contact information:

Timothy J. Krupnik (t.krupnik@cgiar.org)

Purnima Menon (p.menon@cgiar.org)

TAFSSA amplifies CGIAR's reach & impact

Transforming Agrifood Systems in South Asia

Work package examples of early coordination and 'plug-in' synergies with CGIAR's global research initiatives

Initiative examples*	1 Learning platforms, public data systems	2 Transforming agroecosystems and landscapes	3 Evidence and actions across value chains	4 Behavioural determinants of sustainable healthy diets	5 Resilience to climate change & environmental degradation
National policies			Market policy analysis	Consumer policy analysis	Policy analysis, advocacy
SI-MFS	Survey co-design	Shared research sites, costs, staff, data			
SHiFT	Survey co-design			Survey co-deign & deployment	Climate service product scaling, design improvements
AMD		Shared research sites, costs, staff	Methods sharing (deltaic value chains)	Survey co-deign & deployment	
Nexus	Survey co-design & deployment	Cooperation in hydrological modeling			Data sharing, research co-design
Digital			Testing supply chain digital tools		
EiA		Research co-design & data sharing			Planting date implications for residue burning & groundwater policy
SAPLING		Research co-design & data sharing		Evidence on animal sourced foods	
GI Initiatives	Survey co-design	Testing biofortified genotypes	Value stream maps for key commodities		
All Initiatives	'Plug-into' stakeholder convergence & policy platforms				

** This list is illustrative and not exhaustive*

Multiple pathways to impact through partnerships, markets, and policies

CGIAR | Transforming Agrifood Systems in South Asia

1 Learning platforms and public data systems

- **1 |** Connected knowledge communities and science networks amplify integrated actions for food systems
- **2 |** Data-informed actions by multiple stakeholders improves policy and decision making by farmers and value chain actors

2 Transforming agroecosystems and landscapes

- **1 |** Farm diversification and nutrition-sensitive landscapes enabled by evidence and supportive policies and institutions
- **2 |** Socially inclusive farm service provision markets

3 Evidence and actions across value chains

- **1 |** Public-private partnerships encourage collective action among farmers and value chain actors
- **2 |** Enhanced knowledge and access to information fosters change in food environments

4 Determinants of sustainable, healthy diets

- **1 |** Stronger understanding of determinants of sustainable healthy diets enhances decision making
- **2 |** Behavior change investments focus on healthy diets
- **3 |** Evidence on affordability & equity to shape agricultural production, markets and consumer policy actions for the poorest

5 Building resilience and mitigating impact

- **1 |** Inclusive, resilient and low carbon agri-food systems within ecological boundaries

CGIAR Securing the Food Systems of Asian Mega-Deltas for Climate and Livelihood Resilience

Overview of CGIAR Initiative on

Securing the Food Systems of Asian Mega-Deltas for Climate and Livelihood Resilience

CIP INTERNATIONAL POTATO CENTER

CIMMYT MR International Maize and Wheat Improvement Center

Dr. Björn Ole Sander
Senior Climate Change Expert
Country Representative to Vietnam
International Rice Research Institute (IRRI)

IRRI

WorldFish

Alliance

Bioversity International

CIAT International Center for Tropical Agriculture Since 1967 Science to cultivate change

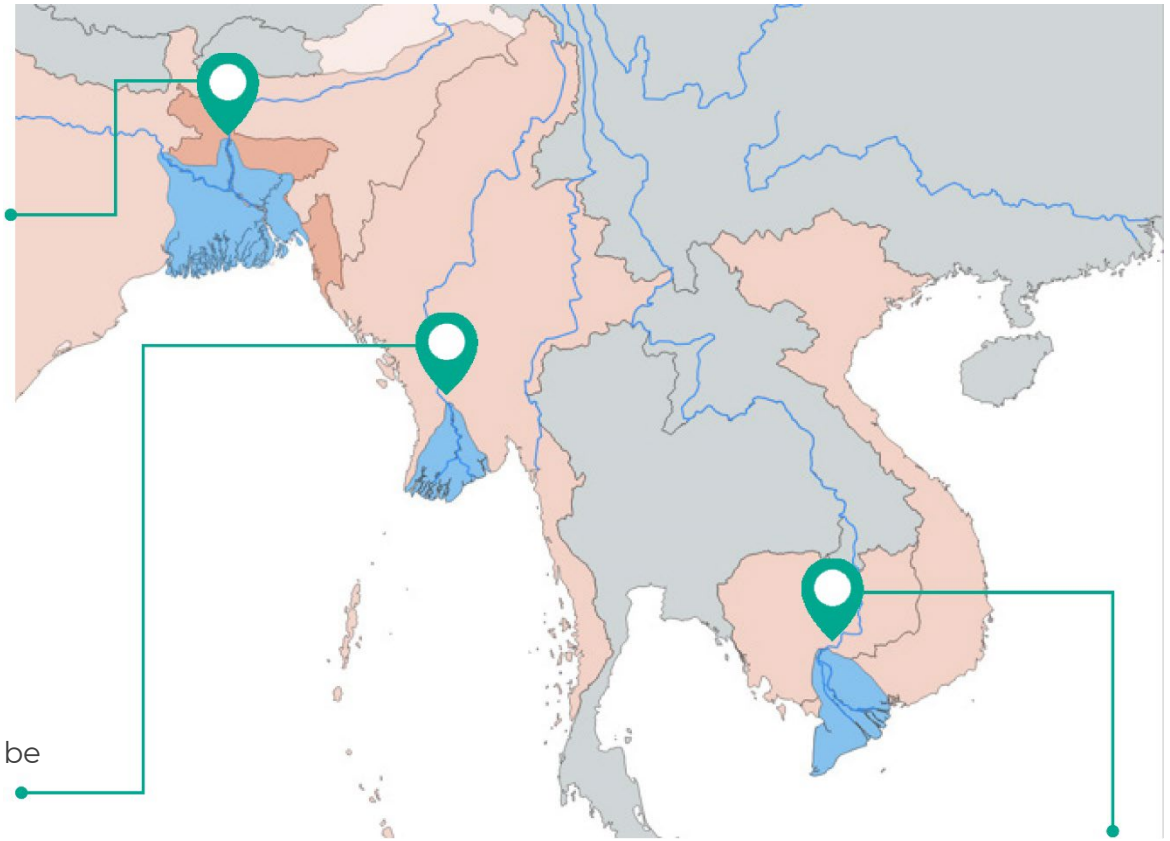
IWMI International Water Management Institute

Challenges

Securing the Food Systems of Asian Mega-Deltas for Climate and Livelihood Resilience

Ganges-Brahmaputra Delta
Bangladesh, India

- ~ 53% of the coastal area affected by **salinity jeopardizing 7% of the national rice production** (Schneider & Asch, 2020)
- An estimated **significant decrease (11%-30%) in the area suitable for agriculture**



Irrawaddy Delta
Myanmar

- **Millions of people** may be displaced
- Dry season crop **yield is estimated to be reduced by as much as 40%**, due to saline irrigation water (Asch & Wopereis, 2001)

Mekong River Delta
Vietnam, Cambodia

- A 0.5 meter rise in relative sea level would **inundate 37% of the MRD to a depth over 1m** (Thao et al. 2014)
- Increased vulnerability of rural poor and **increased labor burden of women** as urbanization increases (Ylipaa et al. 2019)

Importance of Asian Mega-Deltas

Food basket for the country
(Irrawaddy: ~70% of rice and Aquaculture Mekong: 54% rice, 60% fruits and 70% seafood)

~400 million people

Hotspot of poverty

Malnutrition

Climatic risks

Extreme Precipitation

Drought

Salinity

Tropical storm

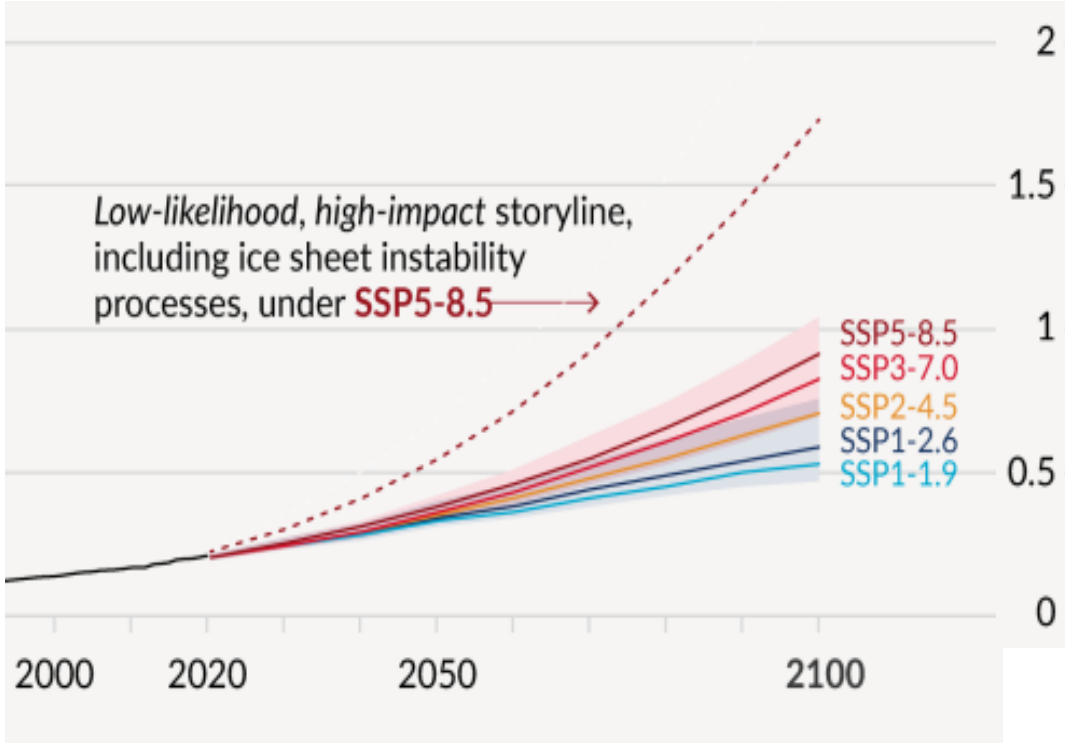
Sea-level rise

Extreme heat

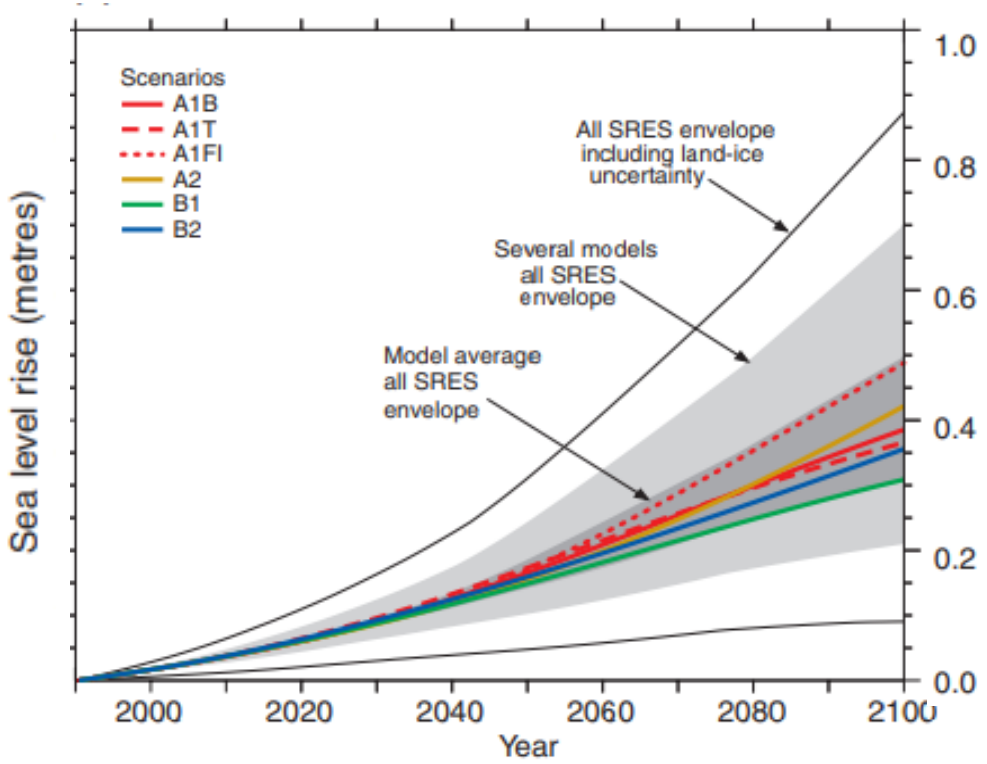
New IPCC sea-level rise projections

Securing the Food Systems of Asian Mega-Deltas for Climate and Livelihood Resilience

Global sea level rise (GSLR) by year 2100 will reach **0.6m (RCP2.6) to 1.1m (RCP8.5)**
(IPCC, 2019), compared to IPCC 2001's projection of 0.2-0.7m GSLR by 2100.



Source: IPCC (2019)



Source: IPCC (2001)

Research Areas and Key Outputs

CGIAR

Securing the Food Systems of Asian Mega-Deltas for Climate and Livelihood Resilience

- **Co-designed with >400 participants**
- **Aims to support the creation of resilient, inclusive, and productive deltas**
- **Builds on partnerships and learnings from the former CGIAR Research Programs and various bilateral projects in the focus regions**

Implementation to date (summary)

- **Focus Area 1: Adapting Deltaic Production Systems**
  - Rapid assessment for site selection as well as ongoing development of innovation packages
- **Focus Area 2: Nutrition-Sensitive Deltaic Agri-food Systems**
  - Review and synthesis of existing policies and interventions and analysis of existing datasets initiated
- **Focus Area 3: De-risking Delta-oriented value chains**
  - Review of key value chains and knowledge networks, with upcoming value chain climate risk & vulnerability assessments per country
- **Focus Area 4: Joined-up, gender equitable, inclusive deltaic systems governance**
  - Coordinating activities with partners; recently concluded visit to Bangladesh
- **Focus Area 5: Evidence-based Delta Development Planning**
  - Linking and integrating into existing knowledge networks, planning activities and partnerships
- **Cross-cutting**

  Initiating support of Agritechnica Asia Live (Aug.) and water security conference (Nov.), positioning AMD stronger within national contexts, partnership development

Partner engagement

Partners currently engaged and proposed participants in upcoming inception meetings

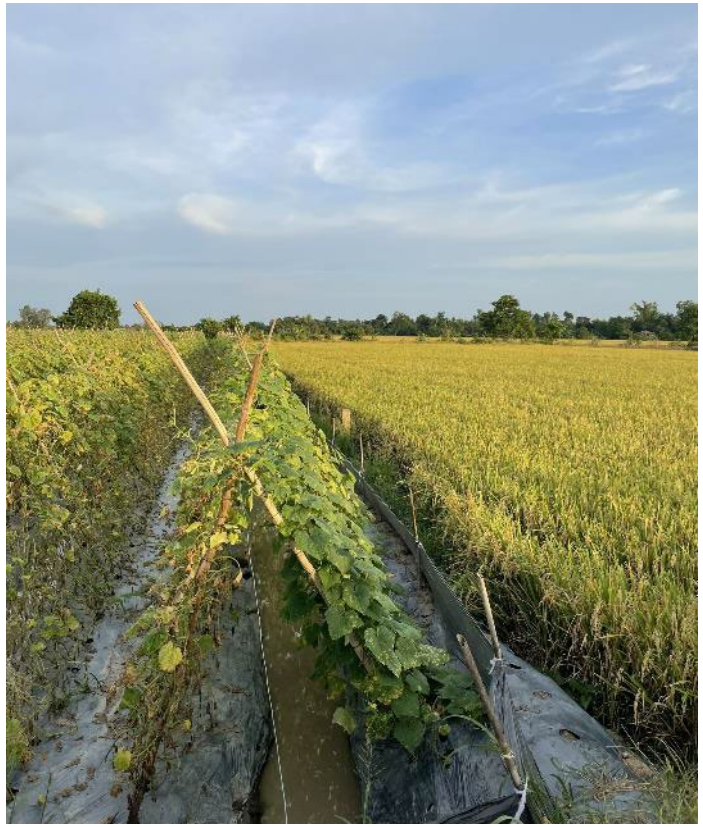
	Cambodia	Vietnam	Myanmar	Bangladesh	India
Focus Area 1	GDA, Provincial Dep't	Can Tho DARD		BARI, BRRI, DAE, Sushilan	ICAR
Focus Area 2	Royal University of Phnom Penh, CDRI	NIN, VAAS	NA	BRAC, Center for Natural Resource Studies	
Focus Area 3	GDA, MAFF, DOM, FIA	MARD, DCP South, NAEC, NCHMF	Village Link Company, Golden Plain, NAG, Ar Yone Oo Sust. Dev't	DAE, BMD, ICCCAD	
Focus Area 4		CanTho University, Mekong Envi. Forum		PPRC, IWM, IWFM, BUET, CNRS, BAU, Hellen Keller Int	
Focus Area 5	MAFF, MOWRAM	Local DARD, IPSARD, IAW, CanTHo University		BARI, BRRI, CGIS, MWR, WDB, ICCCAD	

Research Areas and Key Outputs

CGIAR | Securing the Food Systems of Asian Mega-Deltas for Climate and Livelihood Resilience

FOCUS AREA 1
Adapting Deltaic Production Systems

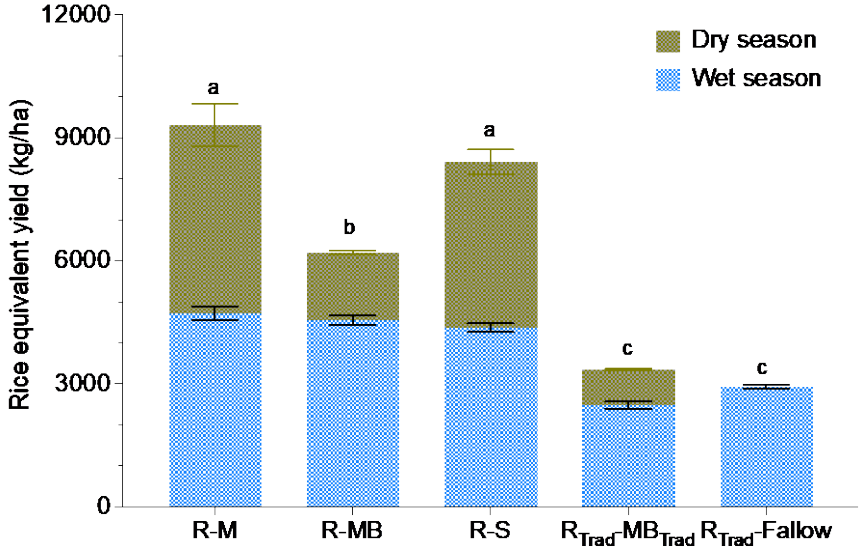
Facilitate **innovation scaling** to support **resilient diversified deltaic production systems** and reduce environmental footprints and climatic risks. This will be done by convening stakeholders in learning alliances, providing technical knowhow on **land suitability and agronomy, and enabling value chain development.**

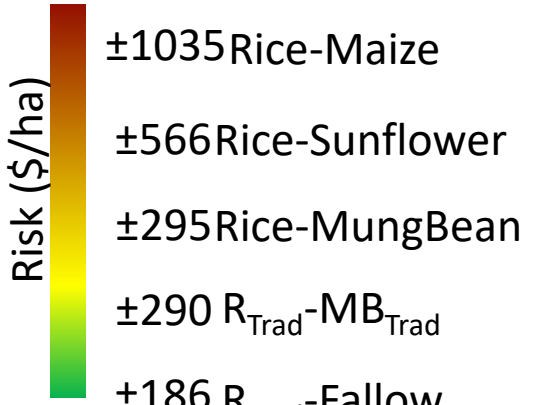


OUTPUTS

- **High resolution suitability assessment** of agri-production systems in deltas
- **Learning alliances** established to facilitate inclusive social learning around value chain development
- **Improved agronomy packages** for deltas scaled through stakeholder organizations
- **Agri-business models** developed for selected value chains to support diversified farming systems trialed with stakeholders.

Crop diversification options (SIIL-Polder project)





Scaling and adoption will heavily depends on resilience of agri-food system

Research Areas and Key Outputs

FOCUS AREA 2
Nutrition-Sensitive Deltaic Agrifood Systems

Ensure that deltaic food systems **sustain and enhance nutrition security** equitably, in a context of rapid change. The first requirement of designing appropriate nutrition sensitive interventions is to understand the characteristics of these systems and their **socially differentiated nutrition implications**.

OUTPUTS

- **Typology of effects of food system transformation on deltaic consumption and production** patterns and practices, differentiated by gender, age, socio-economic status.
- Quantified, socially-differentiated **evidence of the nutrition outcomes of deltaic food systems transformation**.
- **Menu of costed nutrition sensitive business cases** tailored for AMDs.
- **Guidelines for implementing nutrient sensitive actions** in deltaic food systems.

Research Areas and Key Outputs

CGIAR | Securing the Food Systems of Asian Mega-Deltas for Climate and Livelihood Resilience

FOCUS AREA 3
De-risking Delta-oriented Value Chains

Reduce climate risks among smallholders (including women and youth) and **facilitate investment** in deltaic value chains through **digital climate advisory and complementary services (DCAS+)**.

OUTPUTS

- **DCAS+ opportunity profiles** to identify inclusive intervention strategies and options for digital tools, platforms and services with public and private sector;
- **DCAS+ business models** to reduce risks in specific delta-oriented value chains through assessment and (co)development of inclusive digital products and services; and
- **Sustainable financing models and partnerships** to support scaling of inclusive DCAS+.

Research Areas and Key Outputs

CGIAR | Securing the Food Systems of Asian Mega-Deltas for Climate and Livelihood Resilience

FOCUS AREA 4

Joined-up, Gender-equitable, Socially-inclusive Deltaic Natural Resource-Food Systems Governance

Strengthen capacities of national, provincial and local actors to plan, design and implement NR-informed, gender-equitable and inclusive food systems governance, also by **improving accountability** of public, private and development agriculture and NR-related investments and interventions in the AMDs.

OUTPUTS

- **Dashboard of best practices** in NR-Food Systems
- **Pathways and decision support tools** for NR-informed food systems governance
- **Improved strategies, regulatory frameworks and methods** in strategic ongoing programs and projects
- Water resources institutions facilitated by **institutional arrangements within a decentralization framework**
- **Strategies and tools** from other AMD Focus Areas (1, 2 and 3) strengthen capacities of provincial and local stakeholders
- **Transdisciplinary tools and methods** to

Research Areas and Key Outputs

CGIAR | Securing the Food Systems of Asian Mega-Deltas for Climate and Livelihood Resilience

FOCUS AREA 5

Evidence-based Delta Development Planning

Improve the development of climate-resilient and inclusive food systems in Asian Mega-Deltas through **evidence-supported policy dialogue** and **strategic planning and investment**.

OUTPUTS

- **High resolution climate change risk vulnerability maps** for Mega-Deltas to inform strategic planning
- **Climate action plans** for leveraging financing from public and private sector
- **Inclusive climate-responsive delta development pathways** to guide transformative policies and investments
- **Knowledge integration network** established which provides effective networks to integrate CGIAR science in delta development strategies

Climate-Smart Maps: Planning support in response to salinity intrusion and flooding

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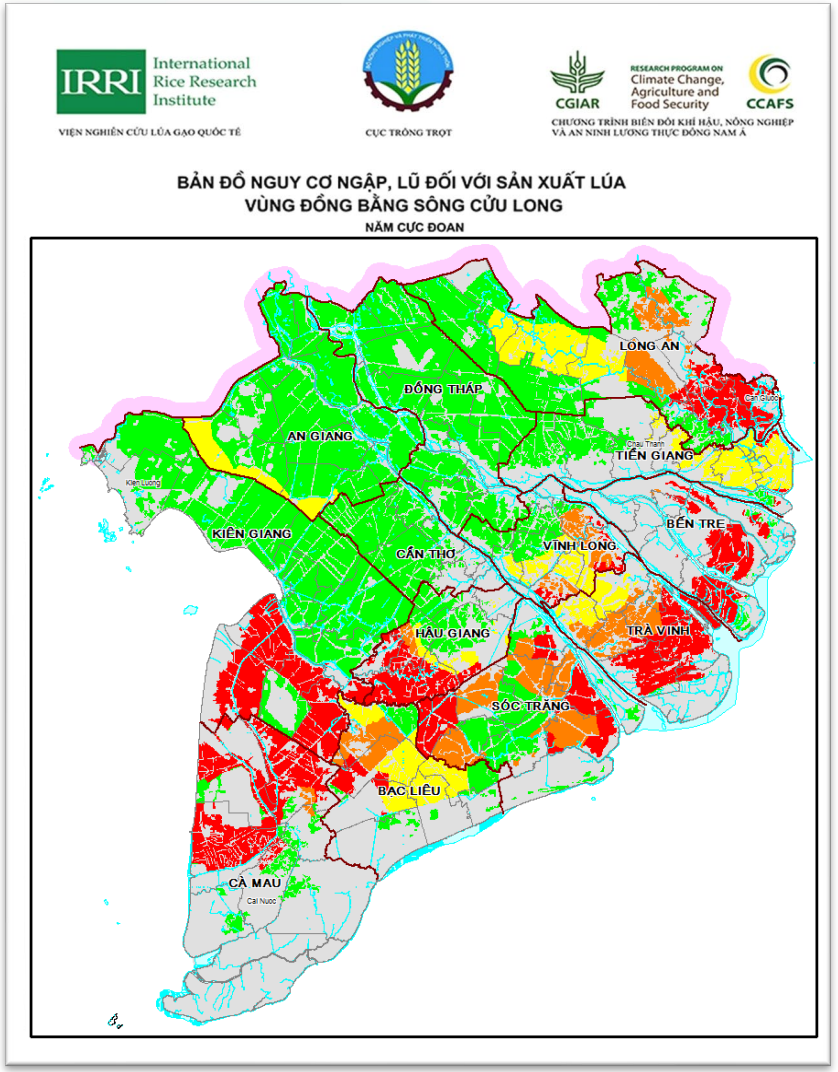

How much and where the land will become unsuitable to rice cultivation in future scenario of salinity intrusion ?

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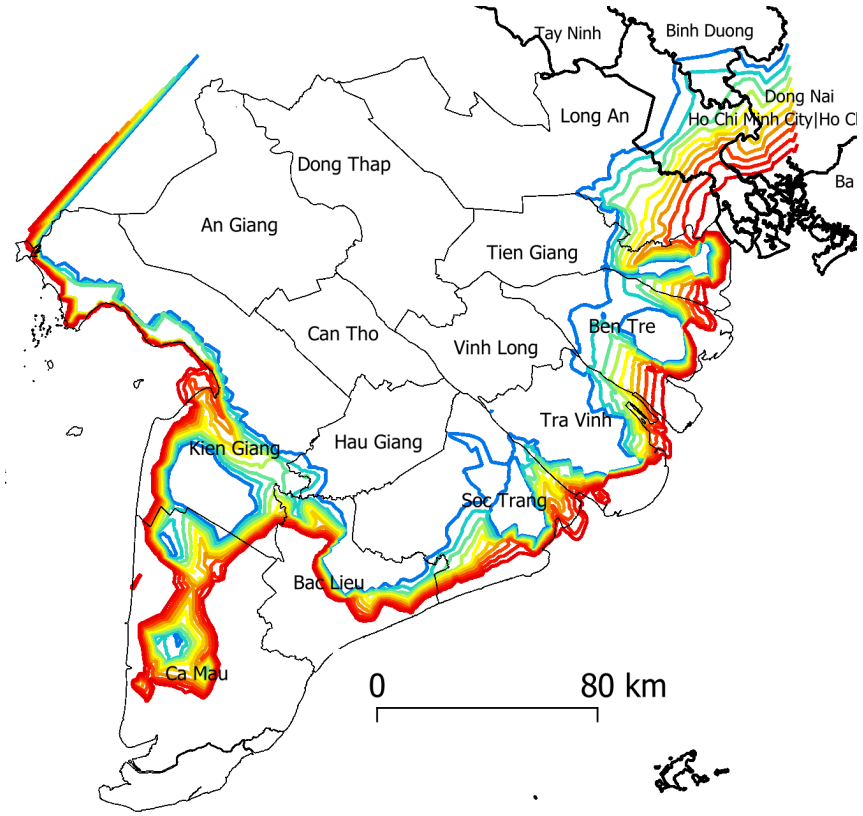
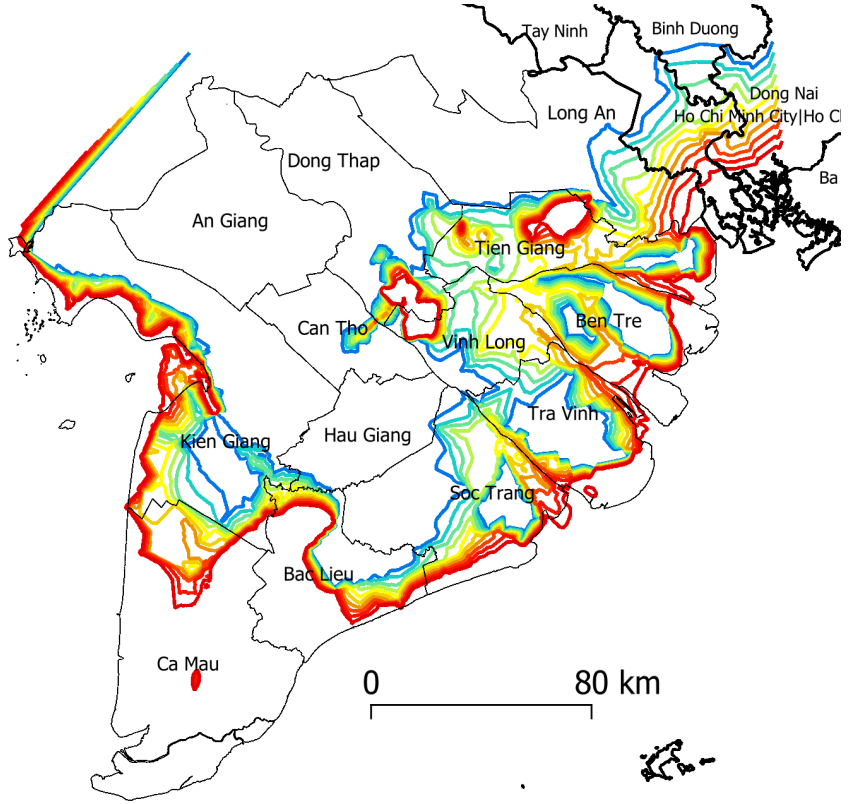
Present isolines



2050 Scenario



CESBIO

Next steps

- Inception workshop in Can Tho (28-29 June)
  → Co-development of work plans with partners
  → Scaling pathways
- Support of Agritechnica Asia Live (24-26 August)
- Co-organize water security conference (November)
- Define better the 'niche' for AMD with delta development context
- Develop 'plug-in' opportunities for global initiatives to work within regional agri-food systems innovation systems

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Securing the Food Systems of Asian Mega-Deltas for Climate and Livelihood Resilience

Response to ISDC Comments

- **Provided detailed response to ISDC comments** incl. three action points per WP in February
- **Currently revising the proposal** following the ISDC comments by WP and as a whole (to be completed in June)
- **Revision of results framework**
- **Engaging an external consultant** to address two main comments of the ISDC in view of positioning of AMD and scaling potential

Thank you!

For more information, please contact:

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