



INITIATIVE ON  
Fragility to Resilience in Central  
and West Asia and North Africa



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

CGIAR Initiative drop-in-call: RAFS-RIs

March 9, 2023

**Leads:** Michael Baum (ICARDA) & Maha Al-Zu'bi (IWMI)

**WP1:** Boubaker Dhehibi (ICARDA)

**WP2:** Zewdie Bishaw (ICARDA)

**WP3:** Mahesh Gathala (CIMMYT) & Mina Devkota (ICARDA)

**WP4:** Maha Al-Zu'bi (IWMI)

**WP5:** Oytüre Anarbekov (IWMI)



# CWANA Challenges & Opportunities



INITIATIVE ON  
Fragility to Resilience in Central  
and West Asia and North Africa



Desertification



Food and nutrition  
insecurity



Drought and heat

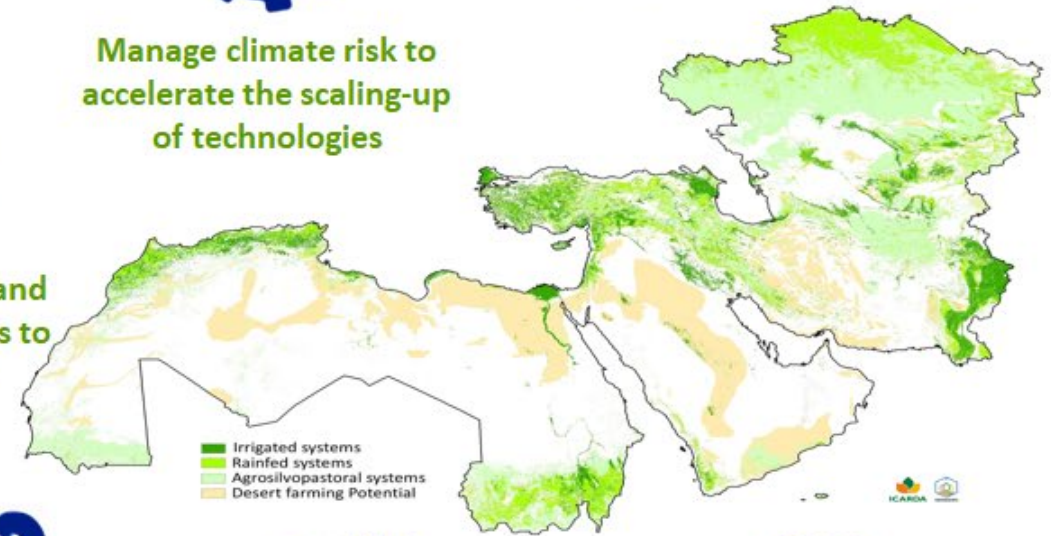


Manage climate risk to  
accelerate the scaling-up  
of technologies

## Resilience



Robust regulation and  
governance systems to  
enable success



■ Irrigated systems  
■ Rainfed systems  
■ Agrosilvopastoral systems  
■ Desert farming Potential



Nutritious, climate resilient  
food and agrobiodiversity  
preservation



Sustainably closing the yield  
gaps on farming systems



Improve water use,  
salinization and desertification

Population growth



Limited water for agriculture



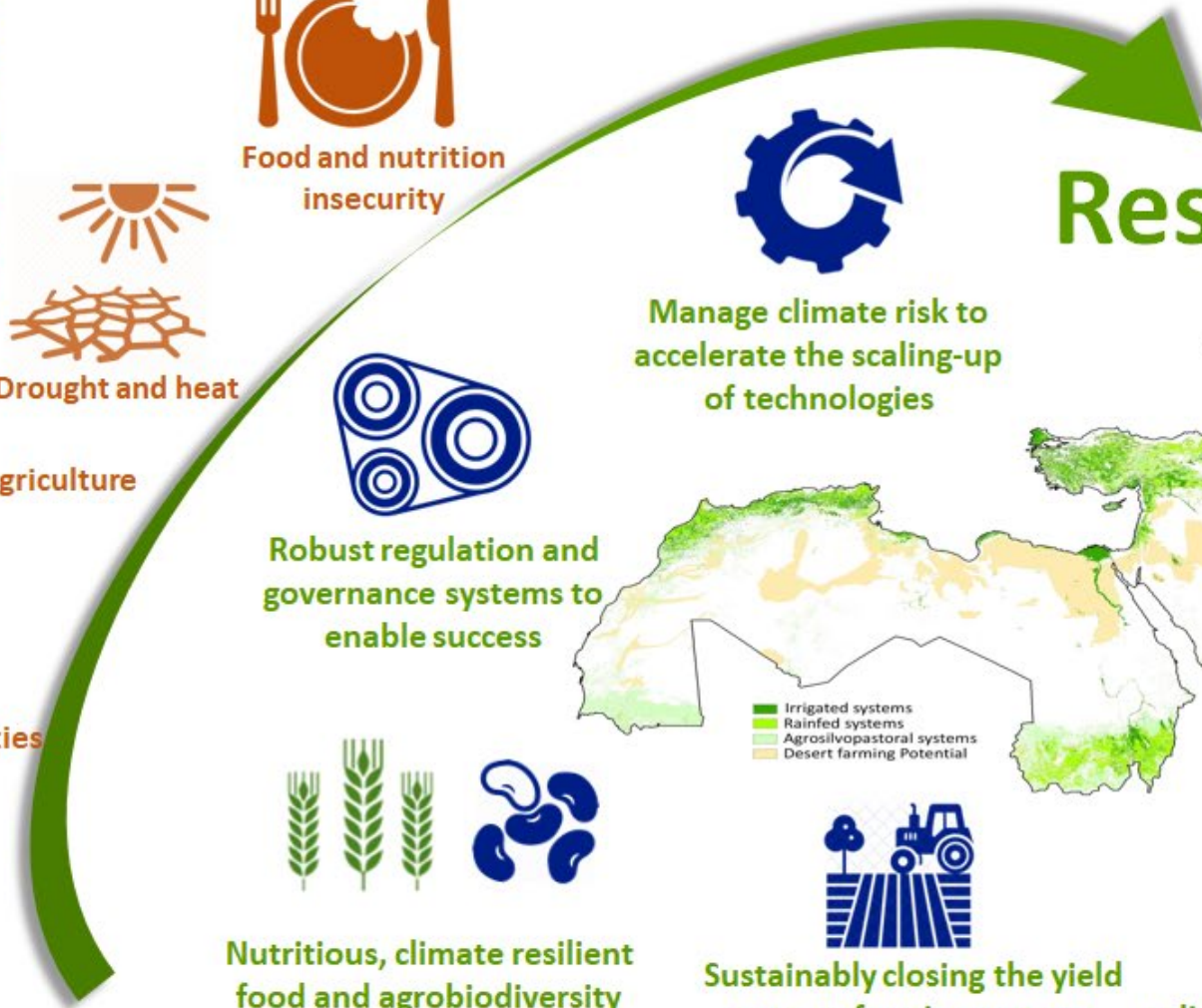
Weak governance,  
fragility and conflicts



Gender Inequalities



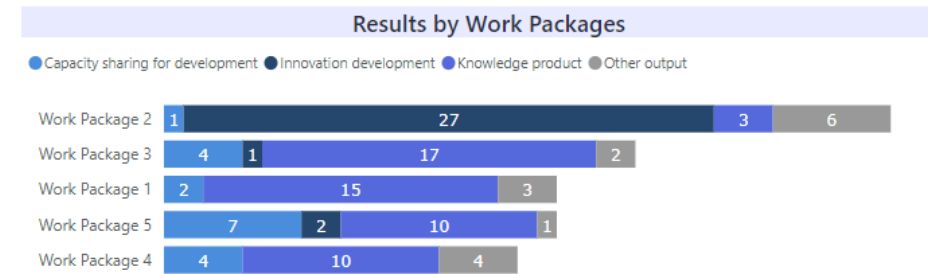
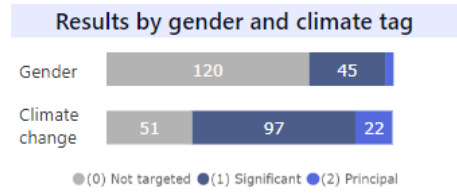
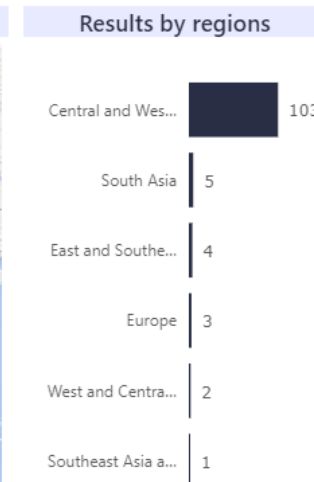
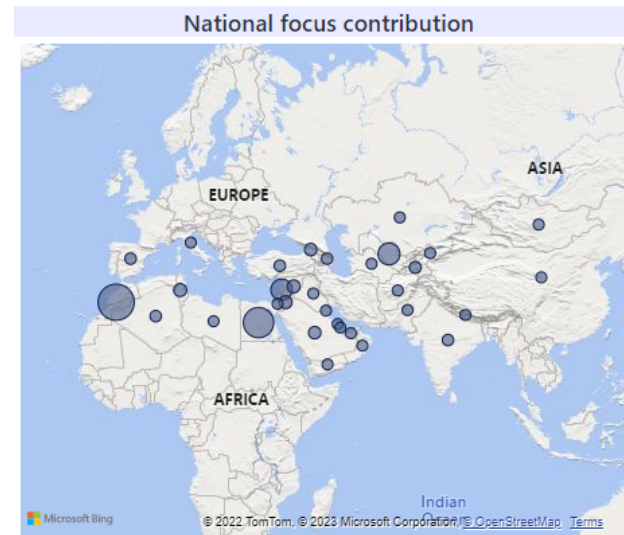
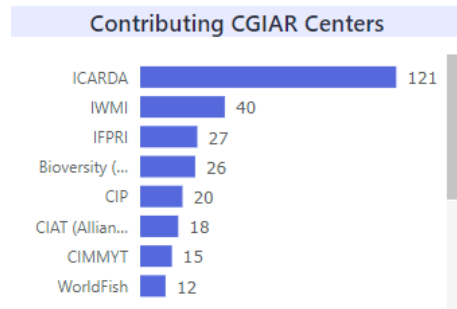
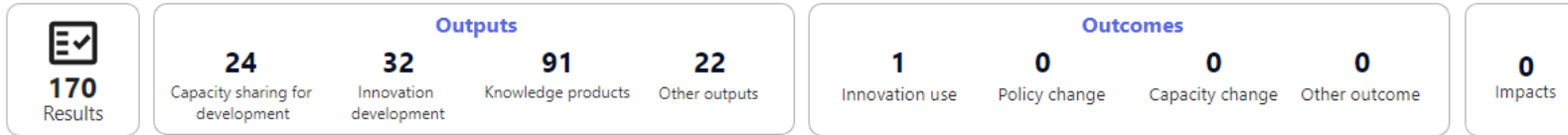
## Fragility



# Results Summary – Year 1 (Apr-Dec 2022)



INITIATIVE ON  
Fragility to Resilience in Central  
and West Asia and North Africa



# Selected Key Innovations (1/3)

## Genetic Innovations: 27 Crop x Country Combinations



## Selected Key Innovations (1/3)

# Genetic Innovations: 27 Crop x Country Combinations

In collaboration with ABI & Market Intelligence & Seed Equal:

Stakeholder meetings in:

- Morocco
- Egypt
- Sudan
- Lebanon
- Uzbekistan

To *prioritize* the:

- Breeding product profiles
- Elite lines
- Newly released varieties

Of regionally important crops:

- Barley
- Faba bean
- Lentil
- Potato
- Sweetpotato
- Bread wheat
- Durum wheat

→ 430 genetic innovations (elite lines and new varieties) prioritized for further breeding, participatory field evaluation, variety release, and demand creation

## Selected Key Innovations (2/3)

# Capacity Development: AgriTech4Morocco Challenge



## Selected Key Innovations (2/3)

# Capacity Development: AgriTech4Morocco Challenge

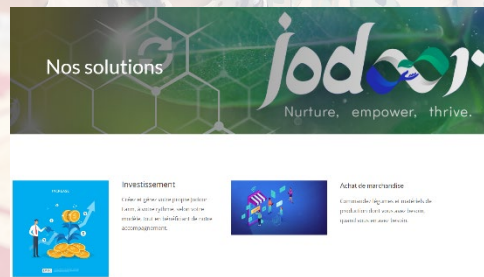
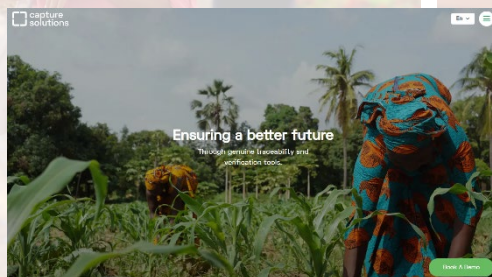
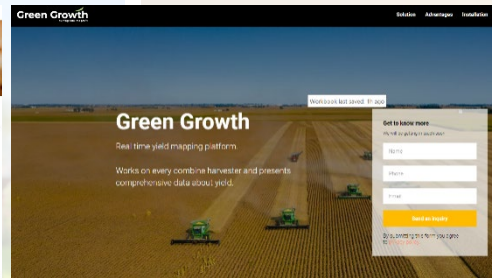
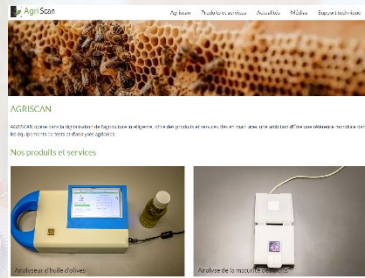
### Challenge call for Agri-Tech solutions to support Morocco's Generation Green 2020-2030 Strategy

- Country-specific assessment, design, and launch of the Challenge Call
- Kick-off event
- **Bootcamp & pitch day** to build capacity on user-centric design, user participatory evaluation, how to pitch to investors – 20 teams from eight countries
- **Nine-week long Acceleration program & demo day** for teams to develop actionable pathways to scale, strengthen the scientific validity of their solution, and create networking opportunities with CGIAR and industry players – 10 teams
- **Post-program support** – 3 teams
- Dissemination

# Selected Key Innovations (2/3)

## Capacity Development: AgriTech4Morocco Challenge

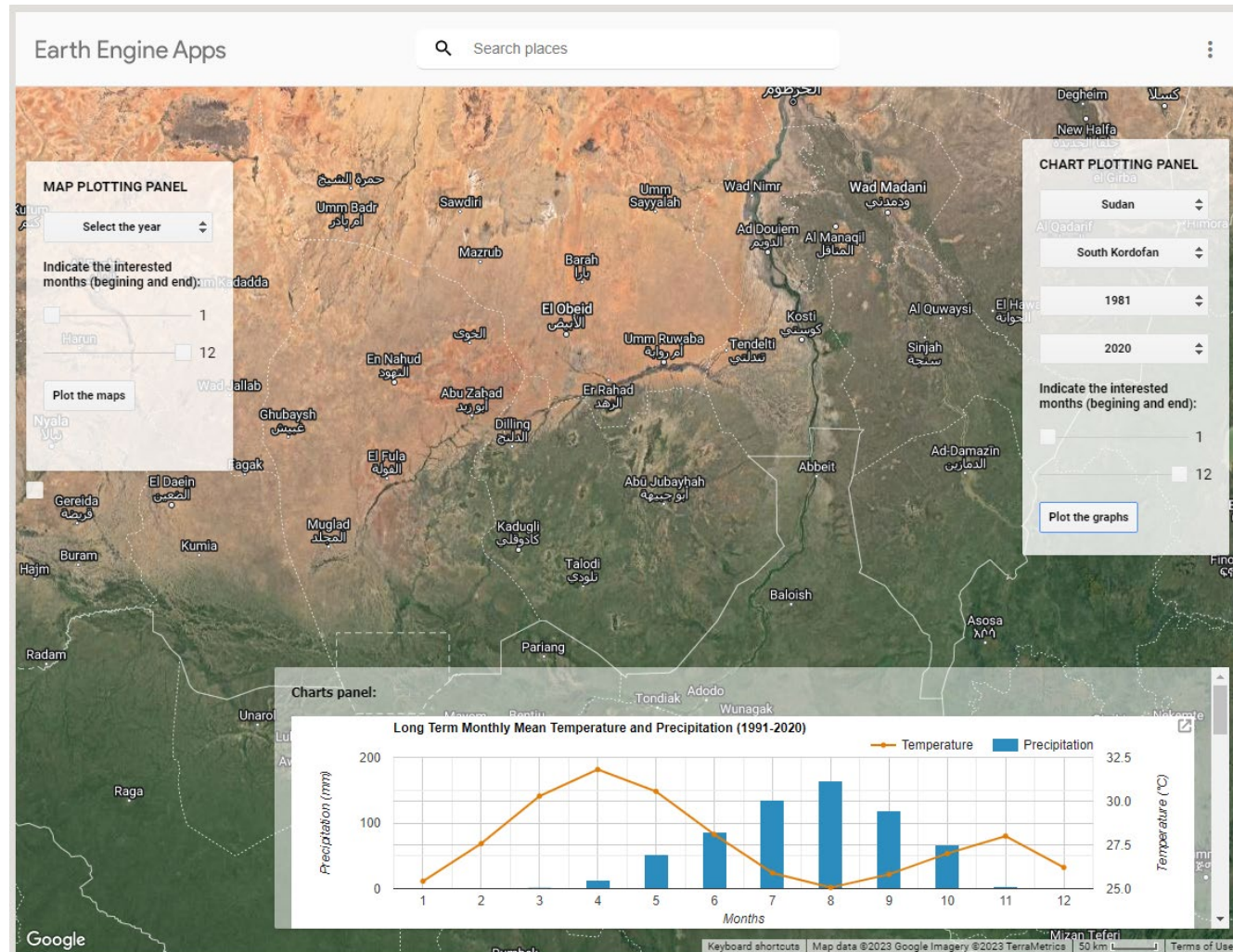
Examples of teams participating in the Acceleration Program





# Selected Key Innovations (3/3)

## Satellite-based Climate Data Extractor for CWANA



[Climate Profile \(https://sites.google.com/view/climate-portal\)](https://sites.google.com/view/climate-portal)



INITIATIVE ON  
Fragility to Resilience in Central  
and West Asia and North Africa

# Working with Global Initiatives & Platforms



INITIATIVE ON  
Fragility to Resilience in Central  
and West Asia and North Africa

## **Genetic Innovations:**

- Accelerated Breeding (ABI)
- Genebanks
- Market Intelligence
- Seed Equal

## **RAFS:**

- Excellence in Agronomy (EiA)
- Plant Health
- Livestock and Climate (LCSR)

- Sustainable Animal Productivity (SAPLING)

## **Systems Transformation:**

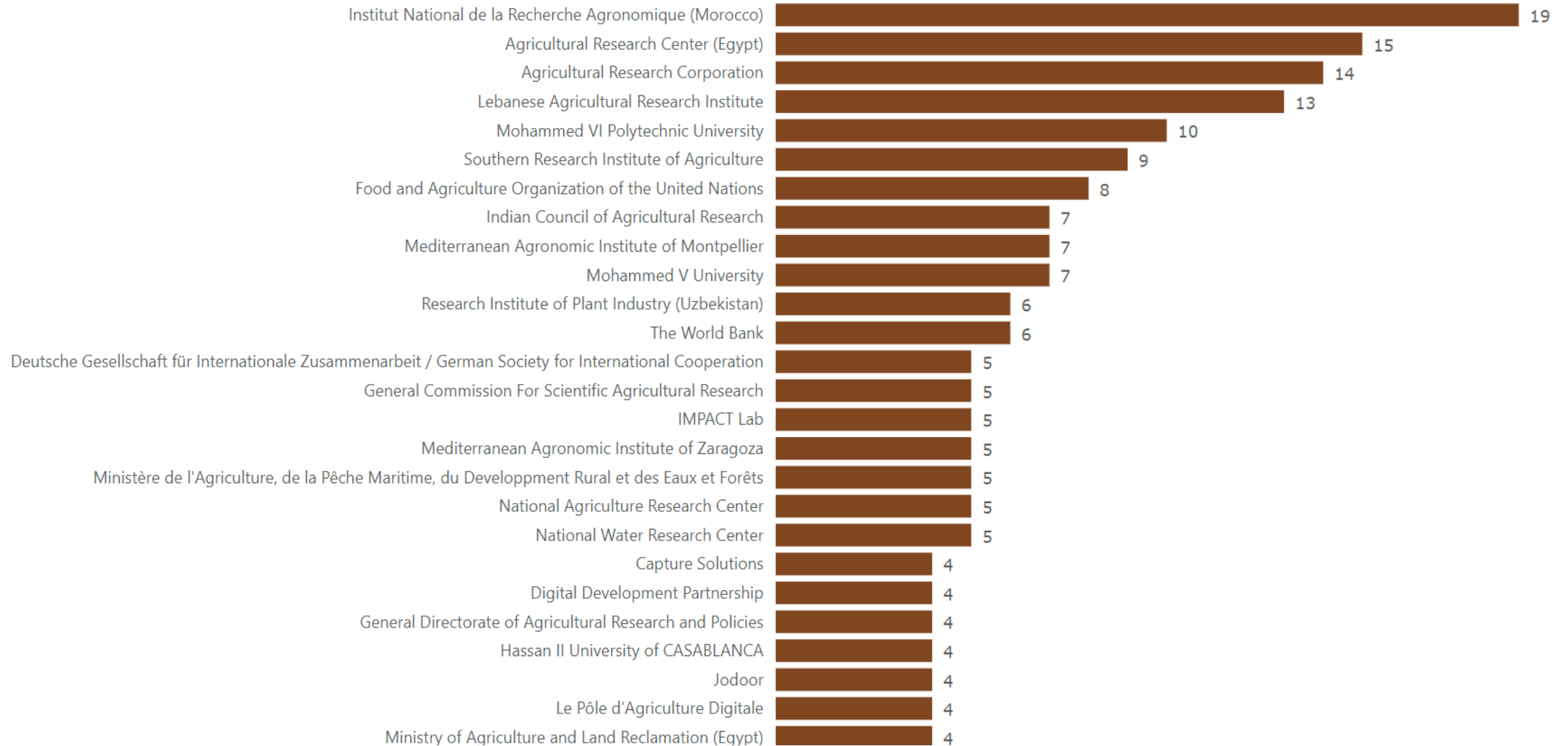
- Climate Resilience (ClimBer)
- National Policies and Strategies (NPS)
- NEXUS Gains
- Agroecology

## **Gender Platform**

# Working with Partners



INITIATIVE ON  
Fragility to Resilience in Central  
and West Asia and North Africa



# What's Next – 2023 Key Results



INITIATIVE ON  
Fragility to Resilience in Central  
and West Asia and North Africa

- Launch of the CWANA Gender & Climate Strategy.
- Participatory selection of genetic innovations.
- Analysis of Egyptian seed systems and seed sector.
- Local community co-development and approval of conservation management plans for landraces and wild relatives in Morocco, Lebanon, and Uzbekistan.
- Launch of the Potato Tracker app in Uzbekistan.
- Analysis of the Water-Energy-Land-Food-Fragility Nexus for the Karshi Watershed in Uzbekistan and the Bouregreg Watershed in Morocco.
- Launch of the AgriTech4Uzbekistan Challenge Call.
- Compilation of a complete inventory of F2R-CWANA innovations and beginning of Innovation Packaging and Scaling Readiness work.





INITIATIVE ON  
Fragility to Resilience in Central  
and West Asia and North Africa



Alliance



**THANK YOU!**