

# Introduction to OneCGIAR Genetic Innovations Action Area & the Accelerated Breeding Initiative

Biswanath Das, WP3 (Transform) lead

# OneCGIAR Transformation

- Initiated in 2019 and 1<sup>st</sup> phase implementation 2022-2024
- Urgent need to have more impact in the face of unprecedented global challenges (in breeding = GG and variety turnover)
- Closer integration of CGIAR centers for faster, more coordinated response - avoid duplication, share technical and human capacity
- Attract more funding for CGIAR and its partners
- Alignment with partner strategy (national and regional), clear roles and responsibilities in research pathways, targeted capacity development and augmented roles of partners for long term sustainability

# Structure of the new OneCGIAR

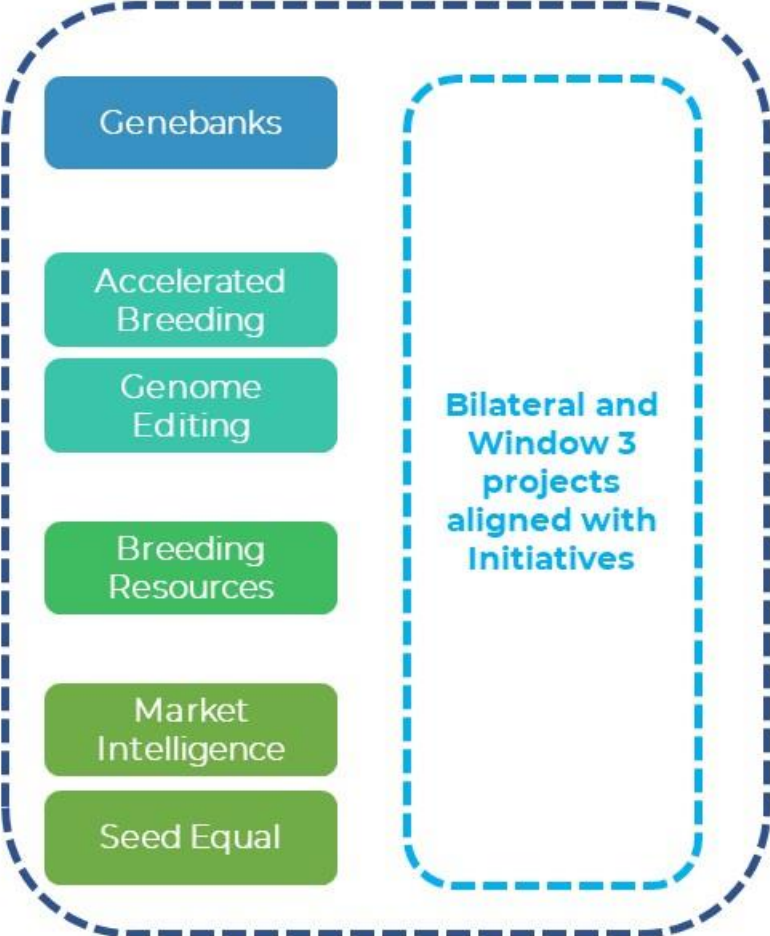
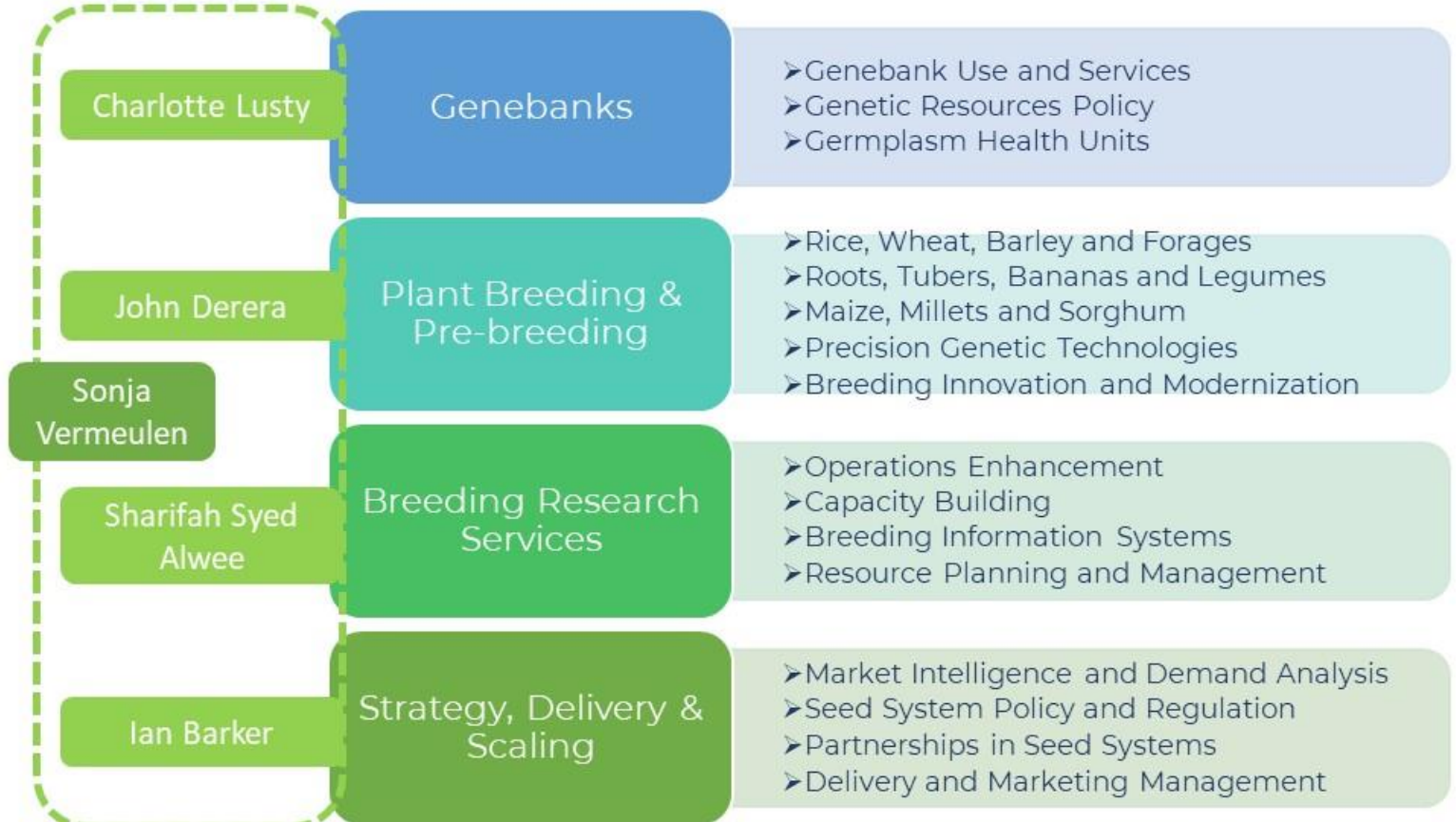
Three Research Action Areas

1. Systems Transformation (Dr Johan Swinnen)
2. Resilient Agri-Food Systems (Dr Martin Kropff)
3. Genetic Innovations (Dr Sonja Vermeulen)

32 individual initiatives spread across the 3 Action Areas

# How Genetic Innovation is structured

## Centers and cross-center teams



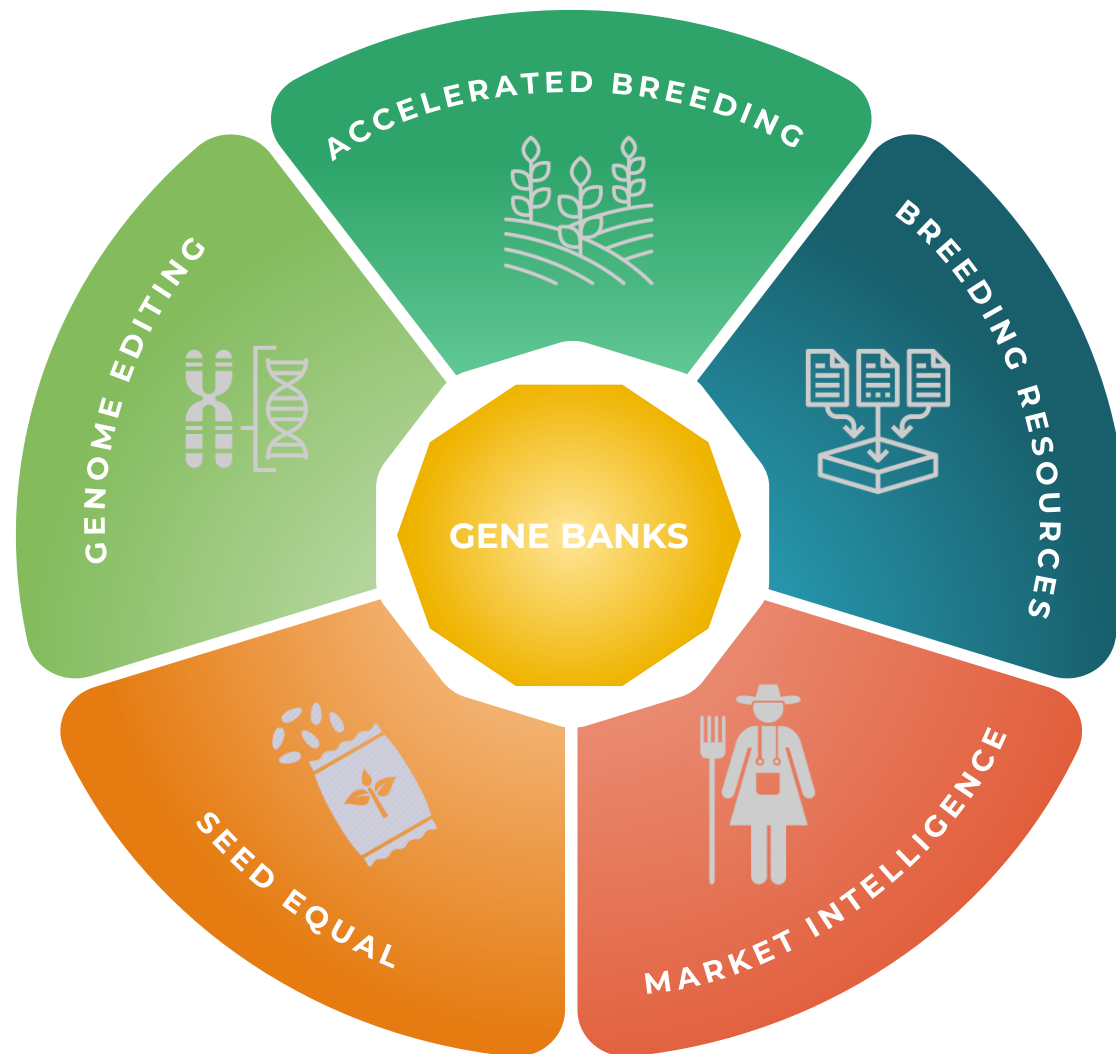
Management Team

Departments

Units

Initiatives and Projects

# CGIAR Genetic Innovation Initiatives: working tightly together, with partners, for broad-based impact



SIX CLOSELY INTEGRATED INITIATIVES  
CO-DELIVERED WITH PARTNERS



WORKING ACROSS CGIAR'S  
THREE ACTION AREAS

TO ACHIEVE SYSTEMS CHANGE  
IN FIVE IMPACT AREAS



Nutrition, Health &  
Food Security



Poverty Reduction,  
Livelihoods & Jobs



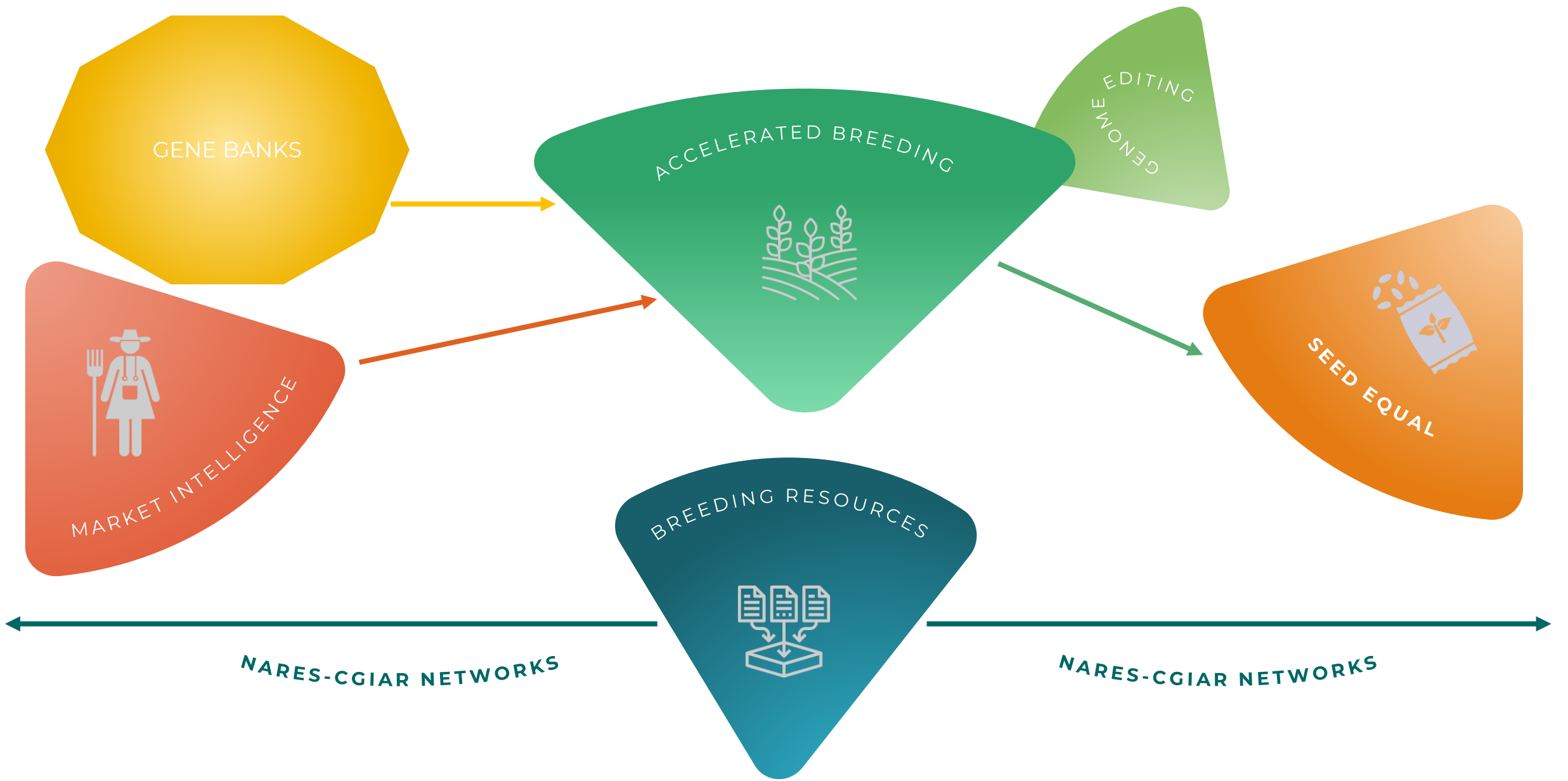
Gender Equality, Youth  
& Social Inclusion



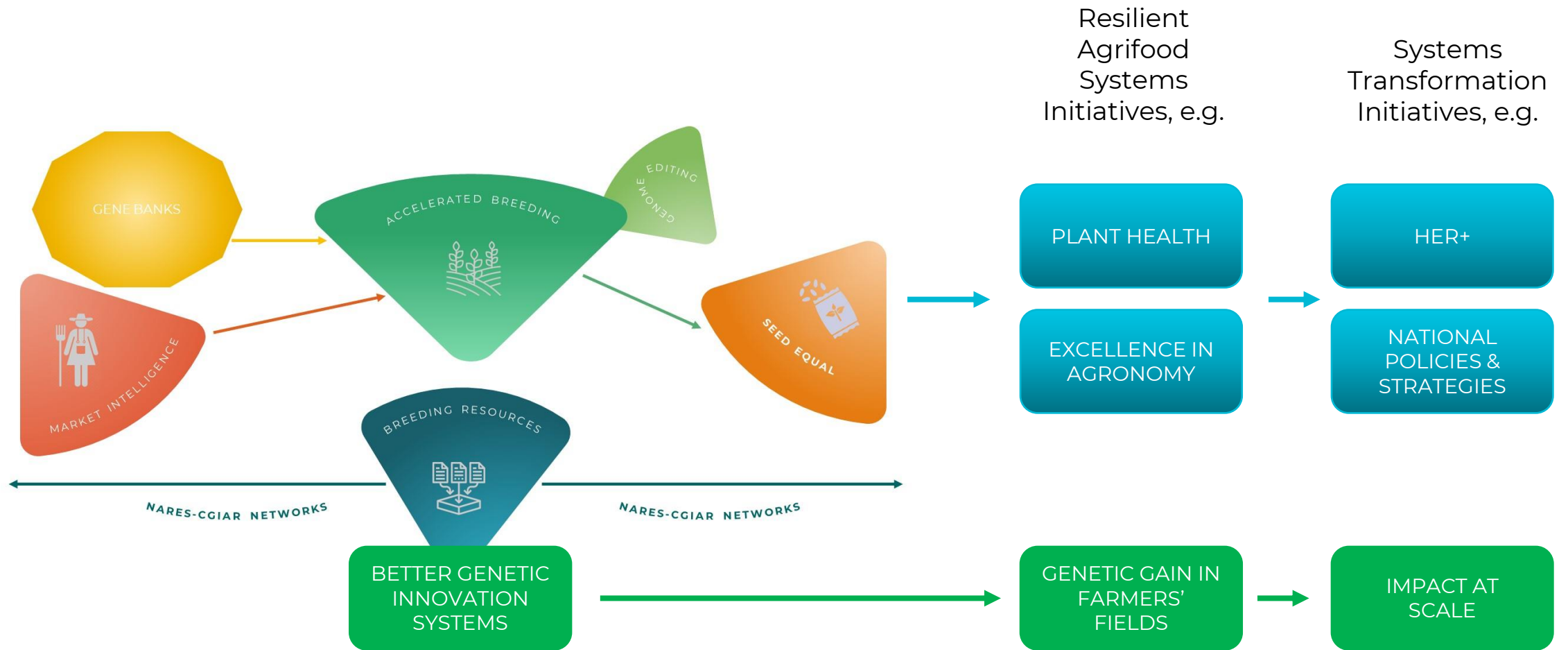
Climate Adaptation &  
Mitigation



Environmental Health  
& Biodiversity



# GI Initiatives: from customer demand to farmers' fields



# GI Initiatives: integrated into whole CGIAR portfolio and theory of change

# Accelerated Breeding Initiative (Michael Quinn and Claire Mukankusi)



## Work Packages

1. Refocus – aligning to markets
2. Reorganize – pipeline organization
3. Transform – stronger breeding networks
4. Discover – targeted prebreeding
5. Accelerate – optimized breeding schemes



# Transform: Building Effective CGIAR-NARES Breeding Networks

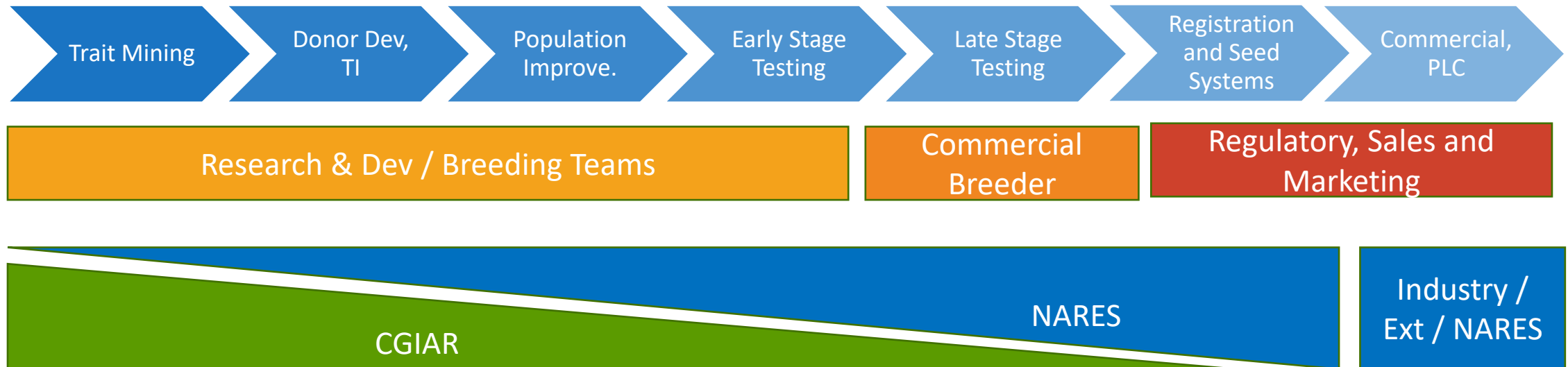


INITIATIVE ON  
Accelerated Breeding

There is no alternative to collaboration and partnerships

No Single public entity can handle all aspects of the breeding chain

- CGIAR does not have mandate for delivery or universal presence
- NARES & SMEs often lack resources, germplasm and modern technology at scale



# SSA NARES-GI Leadership Meeting – Nairobi June 2022



INITIATIVE ON  
Accelerated Breeding



# Nairobi Meeting + 2021 NARES feedback – ABI proposal development



INITIATIVE ON  
Accelerated Breeding

- CGIAR remains an important technical and capacity development support partner

## **What is needed:**

- Stronger alignment needed with national and regional priorities
- Recognize the comparative adv (roles) that NARES have – mandate for delivery, knowledge of market, ability to scale
- Recognize NARES contributions
- Avoid competition for resources and duplicated efforts
- Sustainable capacity development at NARES required
- Ensure NARES participation in priority setting and key decisions

# Regional Customization



INITIATIVE ON  
Accelerated Breeding

Each region will have its own dynamics – different priorities and roles of partners

A collaborative model needs to be customized for local needs

# Establishing Breeding Networks



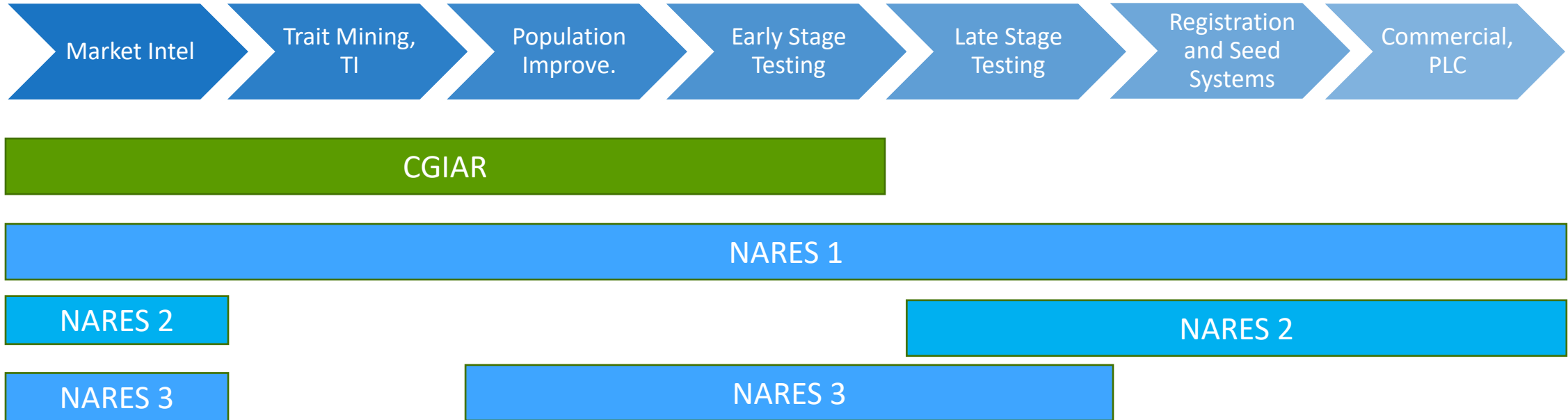
INITIATIVE ON  
Accelerated Breeding

1. Identifying regional market segments and target product profiles
2. Identifying network partners
3. Assessing the capacity of each network partner in order to:
  1. Assign roles in the breeding network
  2. Develop capacity development plan
4. Network Ensures:
  1. Capacity Dev support provided to partners
  2. Funds flow through to partners to execute their roles
  3. Coordination of activities (germplasm movement)
  4. Annual review of network / partner performance

# Transform: Building Effective CGIAR-NARES Breeding Networks

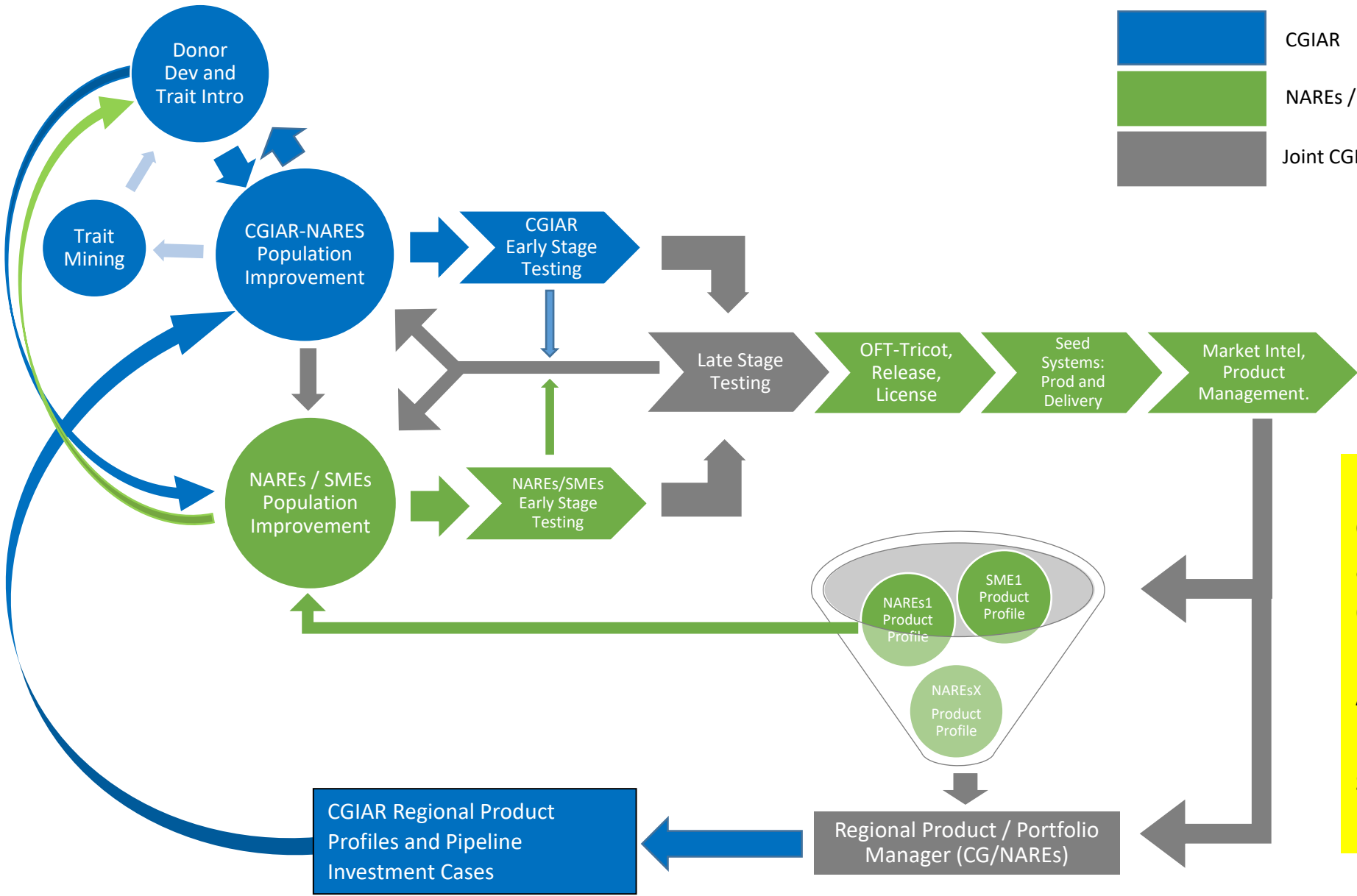
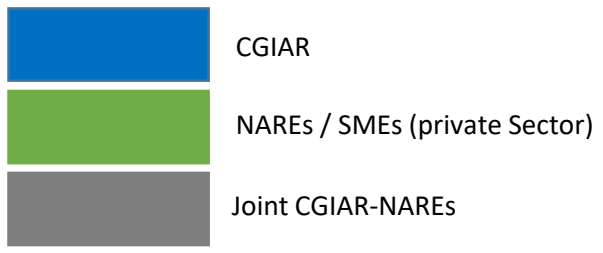


INITIATIVE ON  
Accelerated Breeding



# Effective CGIAR/NARES/SME Breeding Networks: Roles & Responsibilities

## Function Led By:



Model Ensures that partners contribute to product design and have ownership for delivery

As roles are defined, partners need technical and financial support to execute