CGIAR Global Thematic Initiatives (GTIs): Livestock + Aquatic Systems

Donor Meetings – Drop In Sessions (February 2023)

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Agenda

1. Opening/ Initial Remarks (CGIAR RAFS MD) – 10 min
2. Initiatives: Detailed Presentations (Initiative Leads/ Co leads) – 10 to 15 min each
   - LCSR
   - SAPLING
   - OneHealth
   - RAqFS
3. Q&A (All participants) – 40 to 50 min
4. Final Remarks (CGIAR RAFS MD & SDs) – 10 min
The 'Perfect Storm' especially in Africa and South Asia

- Number of hungry people: now 700+ million mainly in SA and SSA: 3 billion suffering from malnutrition
- 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

Emerging/ Evolving crises

- Sudan: Political tensions amid regional drought and conflict
- Ethiopia: Climate change and continued conflict in different regions
- Afghanistan: The crisis after the conflict
- Pakistan: Recovering after devastating Floods in Pakistan
- With more coming every day

Action: CGIAR with partners support innovations at scale
RAFS Overall Mission

Contribute with research to Agri-Food systems transformation for affordable, sufficient and healthy diets produced within planetary boundaries in a climate crisis ...:

Regional resilient production systems

Required innovations

- Genetics
- Management
- Governance
What have we achieved with the OneCGIAR Transition so far?

It's been two years since the ambitious OneCGIAR transition began. Working together, so far we have:

1. Launched the **2030 Research and Innovation Strategy**

2. Created a **new portfolio of research initiatives** (demand driven) with benefits across 5 Impact Areas; independent review ISDC, which are being implemented effectively and in an exemplary manner.

3. Mobilized more than **US $1 billion** in funder pledges and commitments

4. Appointed the first **CGIAR System Board + Senior Leadership Team**

5. **New integrated operational structure** (Research Delivery & Impact + Global Engagement and Innovation + Institutional Strategy & Systems) with coordinated presence in six regions across the world (CWANA, ESA, WCA, SEA, SA, LAC)

6. Affiliated staff to new groups, informing and involving staff along the way (e.g., All staff webinars, Newsletters, Surveys, Transition Task Teams, etc.)
RAFS: The integrative, cross-disciplinary science group for CGIAR’s research on agri-food systems

As the ‘heart’ of the Agri-Food System, RAFS is the integrating science group assuring farm-level impact and coherence between CGIAR’s work in genetics with markets and policy.
Initiatives cohesion and complementarity

**Livestock and Climate**: It aims to partner with public and private actors to develop and deliver actionable innovations that measurably help producers, businesses, and governments adapt livestock agri-food systems to climate change and reduce greenhouse gas emissions, contributing to sustainability and development goals across livestock systems.

**One Health**: It aims to demonstrate how One Health principles and tools integrated into food systems can help reduce and contain zoonotic disease outbreaks, improve food and water safety, and reduce anti-microbial resistance, benefitting human, animal and environmental health.

**Sustainable Animal Productivity**: It aims to transform livestock sectors in Ethiopia, Kenya, Mali, Nepal, Tanzania, Uganda and Vietnam to make them more productive, resilient, equitable and sustainable.

**Aquatic Foods**: It aims to transform the aquatic food system to be healthier, fairer and more sustainable and benefit consumers and producers of aquatic foods.
Livestock + Aquatic Systems

Current challenges require livestock/aquatic sector stakeholders to better coordinate their work to adapt practices and demonstrate how livestock/aquatic systems can address a myriad of development issues (e.g., poverty, food and nutrition insecurity and increased risks of zoonotic disease transmission).

Addressing these challenges requires linked technological, social and institutional innovations to achieve change. Likewise, trade-offs and synergies will arise between different domains of sustainability.

There are existing solutions to some of the challenges facing sustainable livestock and aquatic production which can be scaled up.

Addressing one aspect of livestock/aquatic production, such as genetics or feeding practices, can have benefits with other outcomes such as animal and human health or climate resilience.

Assessing the trade-offs between these areas needs more in-depth research working in partnership with communities and value chain actors.
Most year 1 results are at output level, within which knowledge products contribute over 50%.

The largest category of outcome level results were innovation use, at 44%.
Initial analysis: subject to change as data QA is completed

Result Type by Action Area

- **Impact**
  - Capacity sharing for development: 1
  - Innovation development: 3
  - Knowledge product: 14
  - Other output: 49

- **Action Area Outcome**
  - Capacity sharing for development: 736
  - Innovation development: 1200
  - Knowledge product: 556
  - Other output: 793

- **Initiative Outcome**
  - Genetic Innovation
  - Resilient Agrifood Systems
  - Regional Integrated Initiatives
  - Systems Transformation

- **Initiative Output**
  - Knowledge product: 41%
  - Innovation development: 19%
  - Capacity sharing for development: 29%
  - Other output: 17%

- **Impact**
  - Capacity sharing for development: 12%
  - Innovation development: 14%
  - Knowledge product: 57%
  - Other output: 17%

- **Action Area Outcome**
  - Capacity sharing for development: 19%
  - Innovation development: 18%
  - Knowledge product: 45%
  - Other output: 18%

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Results count by country

Countries with most results

<table>
<thead>
<tr>
<th>Country</th>
<th>Results</th>
</tr>
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<tbody>
<tr>
<td>Kenya</td>
<td>191</td>
</tr>
<tr>
<td>Nigeria</td>
<td>140</td>
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<tr>
<td>India</td>
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<tr>
<td>Ethiopia</td>
<td>133</td>
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<tr>
<td>Bangladesh</td>
<td>127</td>
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<tr>
<td>Tanzania, United Republic</td>
<td>94</td>
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<tr>
<td>Zambia</td>
<td>89</td>
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<td>The Socialist Republic of Viet Nam</td>
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<td>Ghana</td>
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<td>Uganda</td>
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<td>Colombia</td>
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<td>Peru</td>
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<td>Cambodia</td>
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<td>Benin</td>
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<td><strong>Total</strong></td>
<td><strong>3370</strong></td>
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Initial analysis: subject to change as data QA is completed

Partners **who co-delivered results** by partner HQ
Deep dive: the innovation pipeline

Innovation readiness

- **Proven Innovation**: 65 innovations (14%)
- **Uncontrolled Testing**: 53 innovations (7%)
- **Prototype**: 46 innovations (13%)
- **Semi-controlled Testing**: 45 innovations (12%)
- **Middle/Early Prototype**: 37 innovations (14%)
- **Controlled Testing**: 65 innovations (8%)
- **Proof of Concept**: 58 innovations (9%)
- **Formulation**: 60 innovations (10%)
- **Basic Research**: 32 innovations (11%)
- **Idea**: 14 innovations (14%)

Total profilied innovations: 475
Thank You!