**"CGIAR will make the digital revolution central to its way of working."**

*-- 2030 Research and Innovation Strategy*

*-- By 2024, **D&D for impact and integrated management** is **a strategic contributor to advancing the 2030 research strategy**, and its team structure is operational and organized around **"value delivery digital products"** to deliver digital enablement to Business, Science, partnerships, and Innovation*

**==> 2023** will be the **Year of Data** and the year of building **Fusion Digital Products Teams**

CGIAR

# THE
# BIG DATA PLATFORM

**FOSTERING DIGITAL TRANSFORMATION IN AGRICULTURE**

**USING BIG DATA TO SOLVE AGRICULTURAL DEVELOPMENT PROBLEMS FASTER, BETTER AND AT GREATER SCALE.**

## JAWOO KOO
CO-FOUNDER

## BRIAN KING
COORDINATOR

## ORGANIZE

Open access, FAIR data, strengthening open science infrastructure and capacity

## CONVENE

Convene for shared learning, novel partnerships

## INSPIRE

Lead by example, show power of applied digital innovation for science and impact

# ORGANIZE
## THE GARDIAN ECOSYSTEM

**190K** publications & **38K** datasets discoverable

GARDIAN also includes guidance, workflows and tools to make CGIAR data assets open and **Findable, Accessible, Interoperable, Reusable (FAIR)**.

**GARDIAN**

**Collaborative GARDIAN Labs (CG Labs)** offers researchers a **secure analytic environment to find data and collaborate** on analyses within the GARDIAN ecosystem, integrating single sign-on and Globus, a service enabling secure data sharing.

**CG LABS**

**CGIAR EXPERT FINDER**

Enables **discovery of CGIAR research expertise** organized by people, geographies, Centers, funding agencies, and publications.

# CONVENE
## ALLIANCES FOR COLLECTIVE ACTION

**Communities of Practice** served as a partnership development mechanism for **digital research innovation** , as well as to build capacity internally and externally on big data approaches in agriculture. **Some 6500 public, private, and research members.**



Agronomy

Crop Modeling

Geospatial

Info & data management

Livestock

Ontologies

Socio-Economic

# INSPIRE
## DIGITAL INNOVATION IN FOOD SYSTEMS

**500** Inspire Challenge applications submitted

**28** grants awarded to innovative projects

**3** Rapid Response grants awarded to mitigate COVID-19 impacts

**3.2+M** USD in total grants awarded

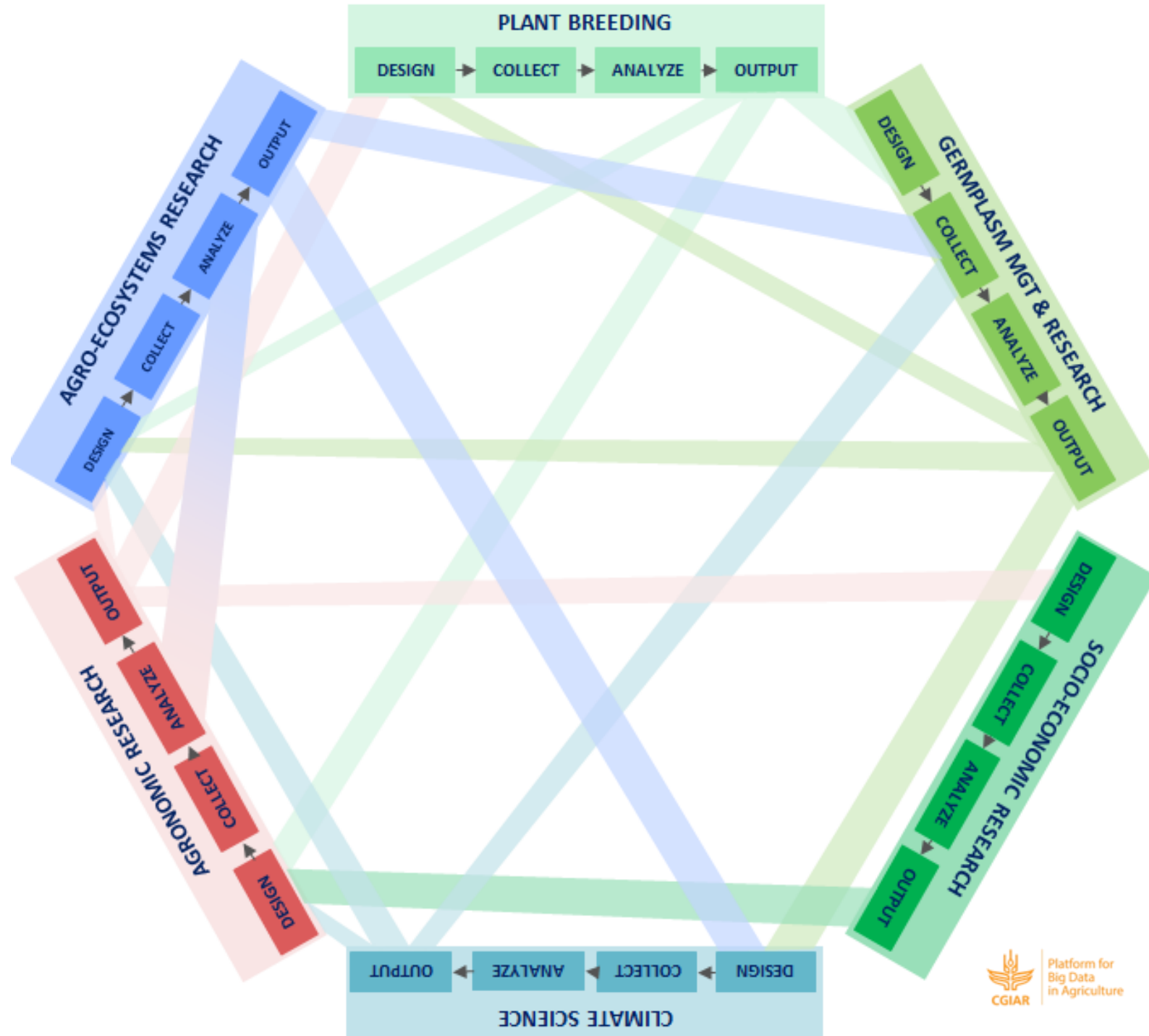**600,000 USD** raised -- and growing-- from external investors

**16** CGIAR Centers & Programs partnerships.

**53** expert industry partners

**Challenges and Solutions**

To guide global food security interventions, **multidisciplinary research** will be required, **linking data and analytic capabilities across domains**

# Challenges and Solutions



*Initial analysis: subject to change as data QA is completed*
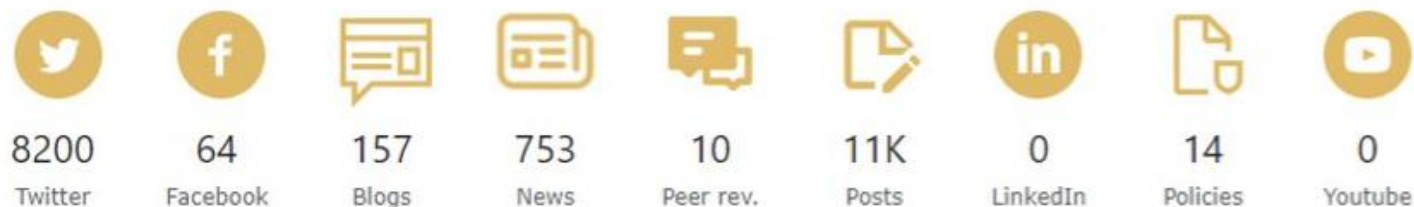
## Deep dive: knowledge products

CGIAR

### Knowledge products by type:

| Type | Count |
|------|-------|
| Journal Article | 694 |
| Report | 238 |
| Brief | 140 |
| Presentation | 133 |
| Blog Post | 84 |
| Book Chapter | 46 |
| Working Paper | 45 |
| Dataset | 34 |

### % research outputs that are:

| F | A | I | R |
|---|---|---|---|
| 87.58% | 100.00% | 65.51% | 72.04% |
| findable | accessible | interoperable | reusable |

**583** Altmetric Attention Score

### mentioned by:

| Twitter | Facebook | Blogs | News | Peer rev. | Posts | LinkedIn | Policies | Youtube |
|---------|----------|-------|------|-----------|-------|----------|----------|---------|
| 8200 | 64 | 157 | 753 | 10 | 11K | 0 | 14 | 0 |

www.cgiar.org

# THANK YOU