Genetic Innovation by the Numbers

CGIAR's Genetic Innovation (GI) Action Area enables rapid improvement of crops and stewardship of genetic resources, with the aim of boosting food security, rural livelihoods, gender equity and environmental sustainability. GI builds on and sharpens CGIAR's unparalleled 50-year impact legacy.



Numbers are vital to help us set goals and make decisions. They also demonstrate how we're delivering impact.

How we work: by the numbers

countries

supported across sub-Saharan Africa, South Asia and other areas facing urgent food security, nutritional and climate challenges



funders

supporting GI through:

Aligned major investments (>\$1M in 2023)

Additional projects (>\$1M in 2023)

interconnected initiatives



Market Intelligence

Working together to understand markets

Accelerated Breeding

Optimizing trait and variety delivery



Breeding Resources

Modernizing breeding methods



Genebanks

Conserving crop genetic diversity



Seed Equal

Ensuring adoption by farmers



Genome Editing

Using cutting-edge technologies

2000+ staff

Scientists, operations staff, administrators and more work together to deliver varieties needed by smallholder farmers

25+ core crops

GI invests in breeding the most needed crops, in the most vulnerable regions: banana, barley, beans, cassava, chickpea, cowpea, durum wheat, faba bean, finger millet, forages, grass pea, groundnut, lentil, maize, musa, pearl millet, pigeon pea, plantain, potato, rice, sorghum, soybean, spring wheat, sweetpotato, winter wheat, yam













- 1. AfricaRice
- 2. CIMMYT
- 3. CIP
- 4. ICARDA
- 5. IITA
- 6. IRRI
- 7. Alliance of Bioversity & CIAT
- 8. ILRI
- 9. IFPRI

911 partners



Plus international institutions, global companies and more

200 NARES

National Agricultural Research and Extension Services - our primary peers in delivering varieties to farmers

553 other partners

institutions, global companies and more





Including funders, international

580,000 genebank accessions





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Our vision: by the numbers

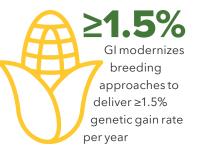
Benefiting 5 CGIAR Impact Areas



Poverty reduction, livelihoods & jobs: product profiles raise productivity and returns to farmers, seed systems include inclusive livelihood opportunities, Genebank accessions are equitably distributed



Environmental health & biodiversity: productivity increases are coupled with incentives for sustainable agriculture and landscape management, Genebanks enhance agrobiodiversity, varieties require less water and chemicals





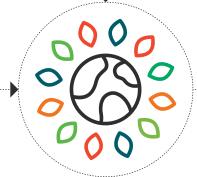
Gender equality, youth & social inclusion: product profiles, seed delivery and program management decisions target needs of women and other vulnerable groups



Climate adaptation & mitigation: new varieties counter drought, heat, flood, disease and pests, and require less fertilizers and chemicals



Nutrition, health & food security: new varieties improve food accessibility, affordability and biofortification



31,000,000+

0 years goal

Replacing outdated varieties that struggle against climate and other challenges, GI aims to reduce the area weighted average age of varieties in farmers' fields to <10 years

Low-income smallholder farmers, both women and men, adopting improved varieties of cassava, rice, maize, sweet potato, beans and other crops with higher yields/cost saving, increased nutritional value, and/or climate-resilience

135,000,000+

Consumers and producers expected to benefit via targeted cassava, rice, bean, maize, sweetpotato and other crop varieties



3,500,000+

Women engaged directly through the research as we target their needs with the best market intelligence and investment decisions