



# Genome Editing

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# Accelerating Crop Improvement through Genome Editing Technologies (Genome Editing)

## **GOAL:**

**Co-development** of innovative gene editing technologies (GE) and enabling conditions to deliver **accelerated genetic solutions** that are difficult to achieve with conventional technologies within a **coordinated breeding mindset**.

Initiative Lead: Inez Slamet-Loedin

Initiative Co-lead: Judith Chambers

*Building capacity of CGIAR and NARES on gene editing technology has tremendous potential application for consumers, farmers and society and there are high NARES demand for capacity development for gene editing*

### **Update:**

The initiative has sought for funding through Window 3 bilateral mechanism to Genetic Innovation (GI).

Discussion has been initiated with BMGF, USAID, ACIAR and FCDO as potential multi lateral donors to GI.

The BMGF, USAID, ACIAR are willing to fund in total 2.7-3 M for the period of 2023-2025

Revision is required for the current proposal with the main focus on funding the work package 1 (REO) focusing on capacity development within CGIAR and NARES to support current existing bilaterally funded genome editing projects.

FCDO has agreed to fund £ 0.6 M for initial steps in 2023 for development of potential innovation.

### **Work package 1 (*Research Enabling and Oversight (REO) Unit:***

- **Centralized oversight platform** to provide strategic direction and implementation around **policy, and regulatory alignment, stewardship, IP, messaging/outreach/social licensing**
- **Capacity building** on enabling conditions

### **Work package 2 (*Innovations and Enabling Technologies for accelerated delivery of demand driven novel crop traits***

- **Foundational toolbox** with application for CGIAR crops
- Initiation of demand driven co-developed multi center innovation
- **Technical capacity** building on for CGIAR and research partners