

Objective

The aim of the International Mungbean Improvement Network is to increase farmer income, productivity and food security by delivering high-yielding, disease and pest-resistant mungbean varieties to smallholder farmers.

The objectives are to:

- Develop and provide access to a rich annotated germplasm collection of diverse mungbean accessions.
- Develop and release improved mungbean varieties with farmer-required and consumer-preferred traits in each partner country.
- Increase the scientific and policy capabilities within partner countries through the development of improved and more efficient mungbean breeding programs.

Expected scientific results

- New traits and methods for improvement of mungbean varieties through genomics assisted breeding.
- Increased knowledge of legumes and legume traits, including identifiers for agronomic performance and nutritional quality to enable more rapid generation of better, market-oriented lines.
- Identification of genetic markers for pest and disease resistance, and for abiotic stress tolerance.

Expected impact/outcomes

- Strengthened capacity of national programs in Bangladesh, India, Indonesia, Kenya and Myanmar to use modern breeding methods, including genomic tools, digital data collection tools and product profile designs.
- Strengthened seed delivery systems in the partner countries through the involvement of private companies, farmer associations and non-government organisations.
- Higher incomes and enhanced soil fertility on smallholder farms growing mungbean.
- Improved nutrition and food security for mungbean farmers and consumers.

