Pant Genetic Resources

- Plant Genetic Resources (PGR) contribute enormously towards achieving the Sustainable **Development Goals of**
 - Zero hunger
 - No poverty
 - Good health and Well-being
- Genetic variation is finite, vulnerable and fast eroding due to
 - modern varieties replacing traditional cultivars, industrialization, urbanization, floods, fire hazards, mining, over grazing and climate change, etc.
- PGR therefore, must be conserved to combat new pests and diseases, and to produce high yielding, nutritionally dense cultivars with broad genetic base and better-adapted to the changing climate.

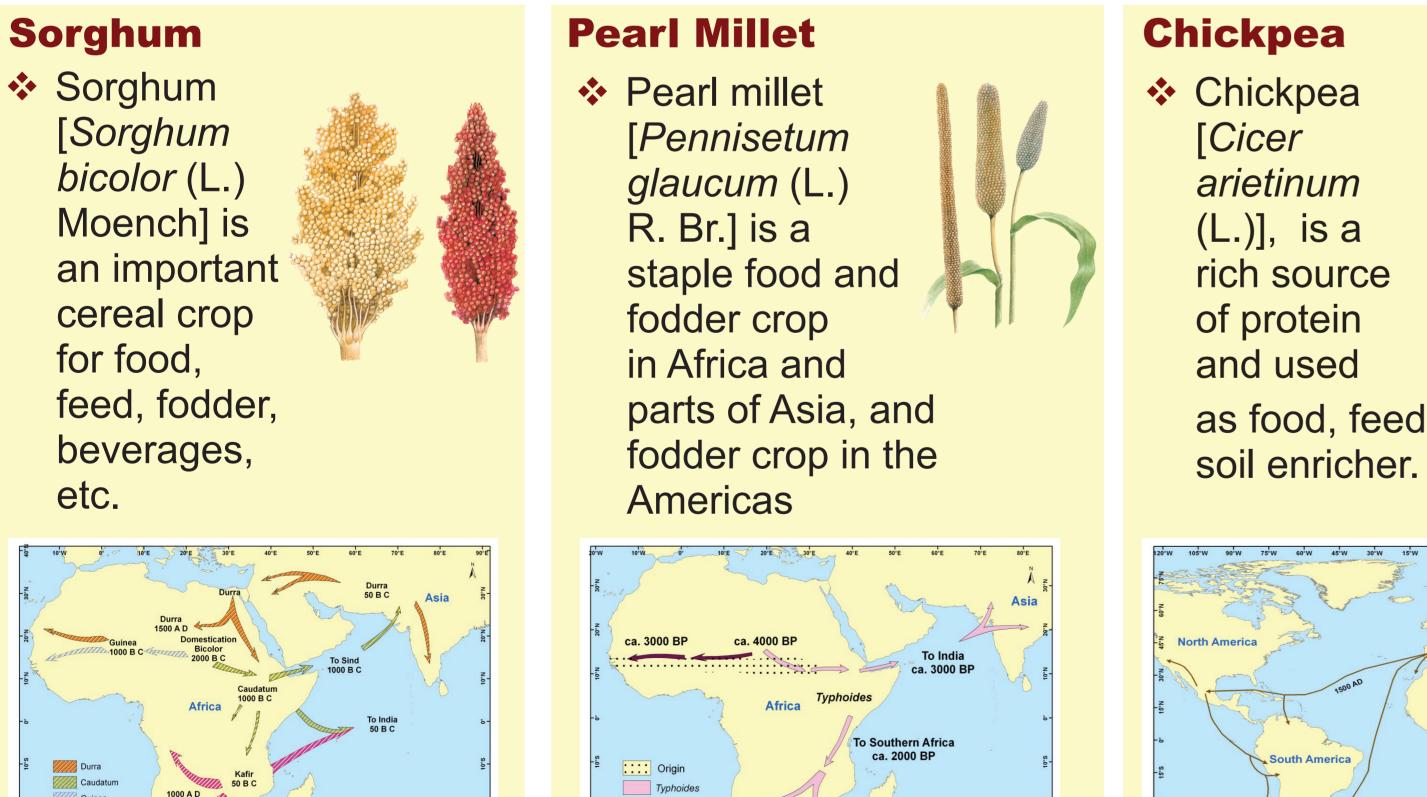
Oil crops 3% Roots and tubers 3%

Nuts, Fruits, -Berries 6%

Vegetables

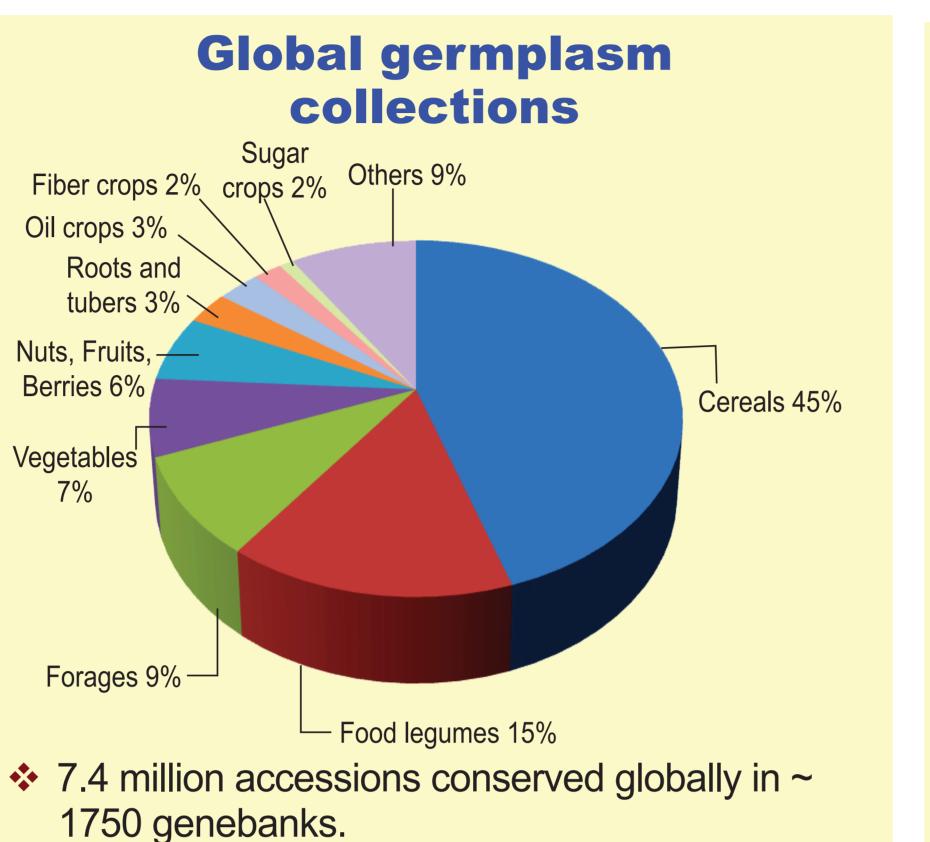
Forages 9% —

11% (741,319 accessions of 3,346 species) in 11 CGIAR genebanks ✤ 17% of total accessions in CGIAR genebanks are conserved at ICRISAT genebank.





for the Semi-Arid Tropics



ICRISAT Genebank

ICRISAT established its genebank in 1979

Objective

small millets.

Responsibilities

- ✤ Germplasm assembly
- Conservation
- ✤ Maintenance
- Characterization and evaluation
- Documentation
- Distribution



Our Crops – Origin, Domestication and Movement

Chickpea

Chickpea [Cicer arietinum (L.)], is a rich source of protein and used as food, feed and as a

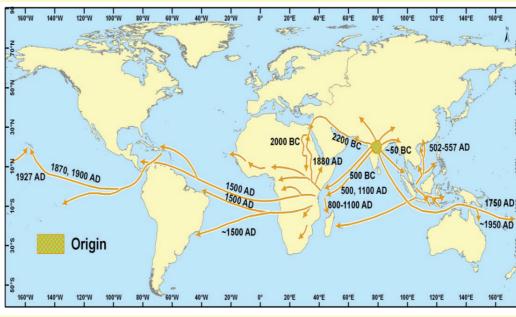


Pigeonpea

Pigeonpea (Cajanus cajan (L.) Millsp.) is a rich source of protein and used



as food, feed, fuel, for fencing, roofing, basket making and as a soil enricher.



Groundnut [Arachis hypogaea (L.)] is an important source for high quality edible oil (about 45%) and easily digestible protein (about 20%) and soil enricher.

International Crops Research Institute

Movement of Cicer arietinui

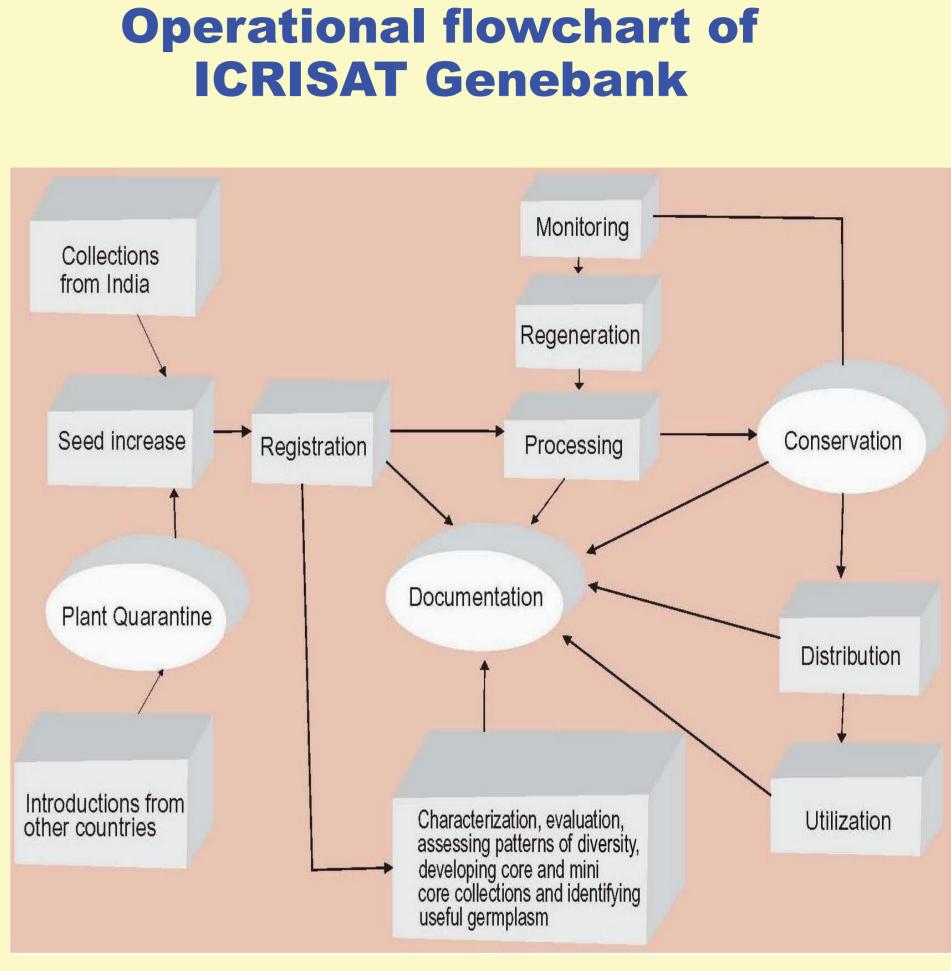
ICRISAT's scientific information: EXPLORE*it*.icrisat.org



To serve as a world repository for the genetic resources of its six mandate crops and five

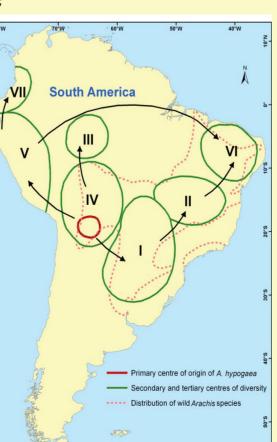


View of ICRISAT Genebank.



Groundnut

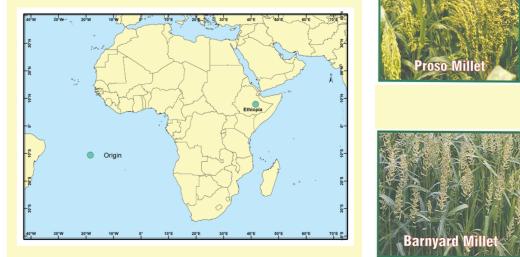




Finger millet

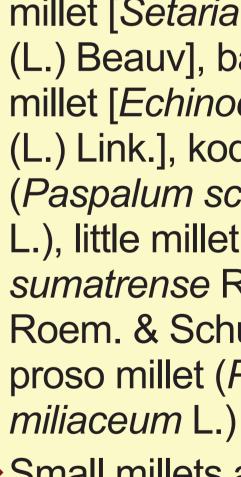


Finger millet [Eleusine coracana (L.) Gaertn.], is an important source for calcium.



Small millets





micronutrients.





CRISAT is a member of the **CGIAR System Organization**

Proso Millet

Small millets: Foxtail millet [Setaria italica (L.) Beauv], barnyard millet [Echinocloa colona (L.) Link.], kodo millet (Paspalum scrobiculatum) .), little millet (*Panicum* sumatrense Roch. Ex Roem. & Schult) and proso millet (Panicum ✤ Small millets are rich in Kodo millet
Proso millet
Little millet
Barnyard millet

