

# Managing and Assessing a Pre- breeding Project

# Aim of the module

At the end of the module, we should be able to:

- identify what is required to keep a pre-breeding project running
- describe the process of monitoring and evaluation of a pre-breeding project

# Day-to-day management

- Resources
  - Human
  - Material
  - Financial
- Science
- Partnerships

# Day-to-day management

Typical items to be accounted for in budget:  
Materials

- Field
  - Screening germplasm
  - Screening segregating populations
  - Producing seed of selected lines
- Greenhouse
  - Maintaining pest colonies for infestation
  - Seedling tests
- Laboratory
  - Studies on host-pest relationship at whole plant and molecular level

# Day-to-day management

- Staff
  - Field labour, Greenhouse and Laboratory technicians
  - Students
- Services
  - Field preparation
  - Molecular characterization of materials
  - Data analysis
  - Publication assistance
- Contingencies
  - Reserve funds to cope with unforeseen circumstances, e.g. adverse weather conditions

# Day-to-day management

- Personnel
  - Team work; ownership
- Time
- Communication
- Science
- Risk
- Quality

# Monitoring and Evaluation

- Monitoring is the continuous assessment of project implementation in relation to agreed schedules and the use of inputs, infrastructure and services by project beneficiaries.
- Evaluation is the periodic assessment of the relevance, performance, efficiency and impact (both expected and unexpected) of the project in relation to stated objectives.

# Monitoring

Monitoring should be carried out ideally with reference to baseline information

Indicators

Databases

Data quality

Reporting



# Evaluation

Could comprise three components -- effectiveness of:

- identifying pest resistance among wild relatives
- transferring the identified resistance into cultivars of the crop
- the transferred resistances in the crop cultivars.

# Evaluation

A series of questions based on indicators:

- How many accessions of the wild relatives were screened?
- What percentage of the screened accessions was 'resistant' to the pest?
- How many resistances were you able to transfer from wild relatives into crop cultivars?
- How well did the transferred resistances perform when exposed to pest pressure?

# Summary

- Keys to good management:
  - be well organized, think through and communicate
  - Same principles as any other type of project.
  - make good decisions on how to use the resources -- materials, finance, personnel and time.
  - Knowing ultimate aims allows one to work backwards
- Project monitoring allows one to assess the extent of progress being made
- Evaluation will provide recommendations and direction for further work.
- Ultimately success depends on management and scientific skills