Data management and Statistics

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Part I

Data Management
Research protocol

Research protocol - a written document, which details exactly how the research activity will be carried out.

Producing a research protocol should be one of the first activities when you are planning your project.
Data Management Strategy

Produce high quality, reusable and open data from research activities

- Accessibility and Open Access
- Ease of use
- Facilitating increased collaboration
- Ethical use and sharing of data
- Provision of support for data generators
- Adherence to international standards for data storage
Data Management Policies, Plans and Budget

- Developing a Data Management Policy and Plan
- Allocation of resources to data management, including financial resources, time, skills and equipment.
Data Ownership

- Owner of the data is the Program (CRPDS)
- Researcher will be the author of the data
Data and Document Storage

A Data Document Storage Facility (DDS) is basically an area where project data and documents are stored together with the rules that enable a team to use it effectively.

- Dataverse
- CGSpace
Archiving and Sharing

- Principles of archiving and sharing data, including Open Access, which is now official CGIAR policy.
- Before data are archived they need to be adequately documented; such documentation is often called the “metadata”.
Part II. Statistics

- Plan of Analysis
- SPSS, STATA, R
Part III. Surveys

- Organizing surveys: Preparing Analysis Plan
  - Purpose
  - Types of indicators
  - What should include this report
  - To whom to present the report
  - Making summaries to present
- Data entry: CSPro, ODK, MS Excel, MS Access
- Analyze a survey results on the basis of Analysis Plan