



# Data management and Statistics

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This presentation was prepared on the base of the document **“CCAFS Data Management Support Pack”**, which was produced by SSC, University of Reading, UK

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Part I

# Data Management




# Research protocol



**Research protocol** – a written document, which detail 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
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# 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.
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# 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
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# 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”.
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# 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: CPro, ODK, MS Excel, MS Access
- ▶ Analyze a survey results on the basis of Analysis Plan

