GPHALC/
PRESENTATION OF
THE COMPUTING DEVICE
COLLECTION

BACKGROUND AND JUSTIFICATION

- Delay: delay occasioned data processing in past implementation ;

- Opportunities: technological advances in recent years and successfully tested in many countries;

- Recommendations: (UN 2010 Census round) to use ICT in surveys and censuses ;

- Study Trips : Senegal has identified two countries using PDAs in their census (Cape Verde and Brazil)

ICT EXPERIENCES OF NASD

➢ DHS-MICS_2010-11

➢ PMS_2010-11 (Poverty Monitoring Survey)

Hardware used:

- Tablet (Lap top);

- Key internet ;

- Mobile phones;

- Batteries;

- Kits vehicle electric loading.

COMPUTING DEVICE OF PHALC

EQUIPMENT COLLECTION (PDA)

PDA (Personal Digital Assistant) is a handheld with a processor, RAM, a touch screen and multiple features all in a compact box of small size.

The PDA is a device widely used in the collection of information, the georeferencing and localization, thanks to its GPS (Global Positioning System) device.

BENEFITS USING PDA

- Collection of support: no paper questionnaires , no printing
- Tasks performed at the time of interview: operating time reduced, gain resources
- Correcting errors during interview: better data
- Secure data transfer : paper questionnaires could be lost or damaged

PRINCIPAL ACTIVITIES

1) Acquisition of PDA

2) Definition of technical architecture

3) Development applications (collection , supervision, data processing and dissemination)

4) Test applications and definition of Maintenance Plan

5) Deploying applications on PDA collection

6) Data collection PDA

7) Output results

HARDWARE

Hardware provided :

- 20.200 PDA;
- 900 lap top with accessories;
- 300 Internet key
- 45 computer.

USE OF HARDWARE

- A cell phone available to every ICT coordinator and supervisor for communication with the Central level;

- Internet key available to each supervisor and coordinator for ICT Technical Support and send the data collected by enumeration teams at central level;

- Electric vehicle charging kits provided.
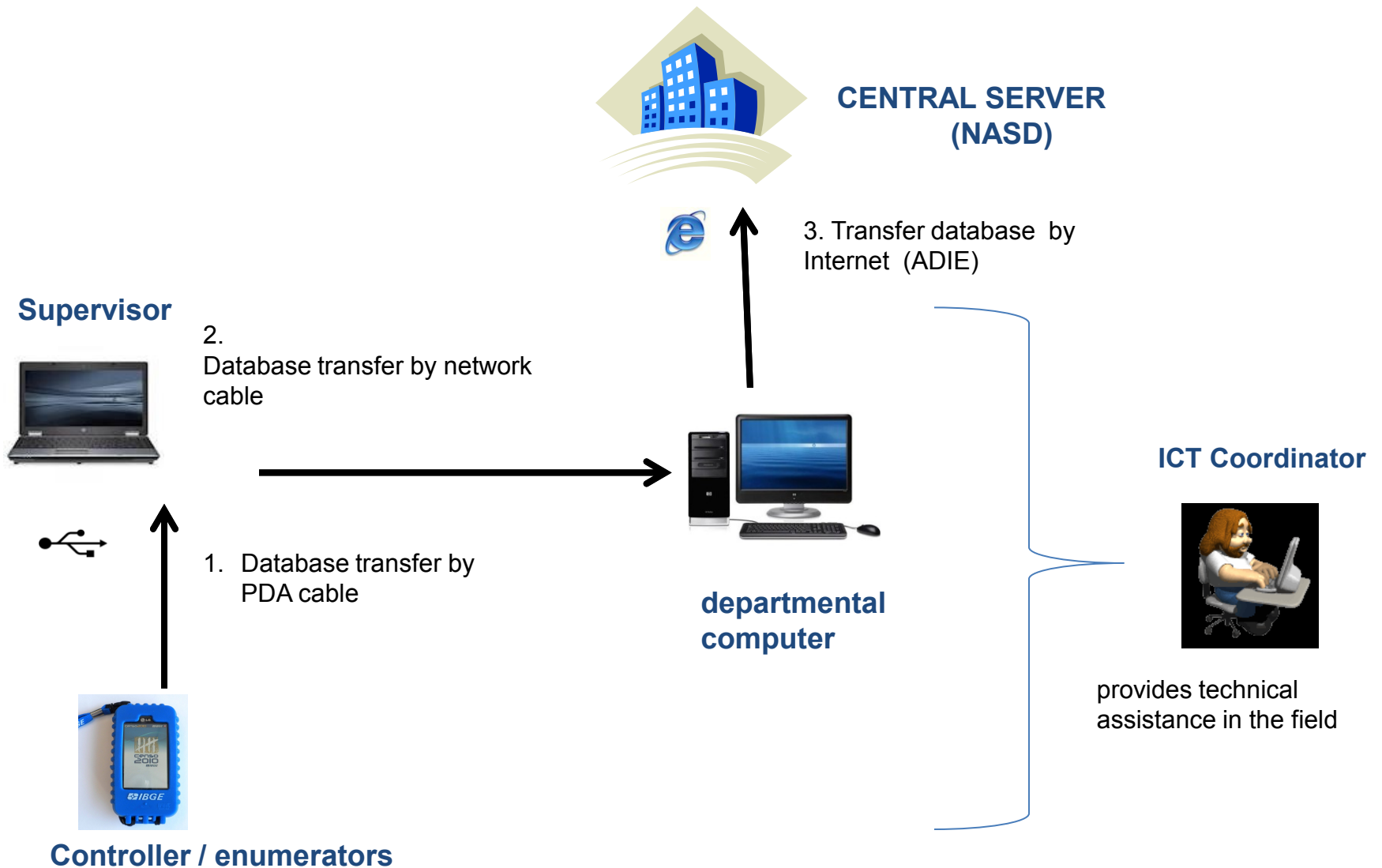
ORGANIZATION OF THE COLLECTION (1/2)

3 Levels of responsibilities are envisaged in the PDA-assisted interview system:

1. Central (NASD Experts)
2. Supervisor (Supervisors and Coordinators ICT)
3. Enumerators and Controllers

ORGANIZATION OF THE COLLECTION (2/2)

• Enumerators are distributed by teams of 5;

• Each team consisting of a controller and enumerators;

• Each team member has a PDA and accessories for the collection of data;

• Supervisors responsible for collecting of the data collected by the enumerators and to transmit them to the central level using an Internet connection.

ARCHITECTURE DATA TRANSFER

CENTRAL SERVER
(NASD)

3. Transfer database by Internet (ADIE)

Supervisor

2.
Database transfer by network cable

1. Database transfer by PDA cable

departmental computer

ICT Coordinator

provides technical assistance in the field

Controller / enumerators

MONITORING COUNTS AND UPDATES

A website at Central for :

- inform all stakeholders involved in the process of collecting, sending, data processing and supervision;

- monitor the quality of data collected;

- make online updates of applications for PDA collection ;

PERSONAL COMPUTER SUPPORT

- 6 developers , 1 database administrator , 1 technical architect responsible for carrying out applications for collecting, monitoring, transfer and processing of data;

- A network administrator is assisted by two technicians responsible of setting up network architecture and security access to server data from the field

- 270 ICT coordinators for assistance.

THANK YOU FOR YOUR ATTENTION