INTEGRATED COLLECTION SYSTEM (ICS): MODERNIZATION OF DATA COLLECTION AT STATISTICS INDONESIA

CONFERENCE OF EUROPEAN STATISTICIANS
EXPERT MEETING ON STATISTICAL DATA COLLECTION
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“ICS”

An integrated data collection system starting from the stages of design (design), development (build), collection (collect), and processing (process) using various modes of data collection (multimode data collection).
Multimode Data Collection

1. PAPI
   Paper and Pencil Interviewing

2. CAPI
   Computer Assisted Personal Interviewing

3. CAWI
   Computer Assisted Web Interviewing

4. Acquisition of Administrative Data
Components of ICS

- Questionnaire Designer
- Survey Collection Management
- CAPI
- CAWI
- Field Force Management
- PAPI
- Validation Engine
- Acquisition of Administrative Data
- Variable Metadata Repository and Working Database
CAPI

Intended for filling out questionnaires by officers

✔️ Faster data processing process
✔️ Monitoring in real-time
✔️ Better quality
✔️ Can run offline
❌ Requires a mobile phone
❌ Requires officer training
CAWI

Intended for filling out questionnaires independently by respondents

☑️ No staff required
☑️ Questionnaires should be easier to understand
☑️ Flexible time to fill questionnaire
☑️ Must be online
☒ Quality is a bit lacking
☒ Response Rate is lower than CAPI
WORK FLOW ICS

Design
Build
Collect
Process

Questionnaire Design
Survey Collection Management
Field Force Management

Validation Engine
Variable Metadata Repository
Working Database

Validation Engine
Unstructured/File
Json/XML
Database Access
WORK FLOW ICS

Survey Collection Management

Sample

Working Database

Unstructured/File

Json/XML

Database Access

Design
Build
Collect
Process

CAPI

Working Database Provinsi/Kab/Kota

CAWI
WORK FLOW ICS

Design  Build  Collect  Process

- Working Database
- Validation Engine
- Survey Collection Management
- Integrated Processing System
- Export Data

- Unstructured/File
- Json/XML
- Database Access
THANK YOU

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