



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

**CONFERENCE OF EUROPEAN STATISTICIANS
EXPERT MEETING ON STATISTICAL DATA COLLECTION
27-30 SEPTEMBER 2021**

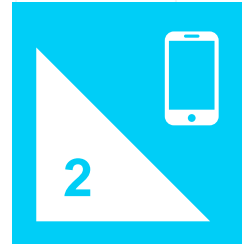
“ICS”

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

PAPI
Paper and Pencil
Interviewing



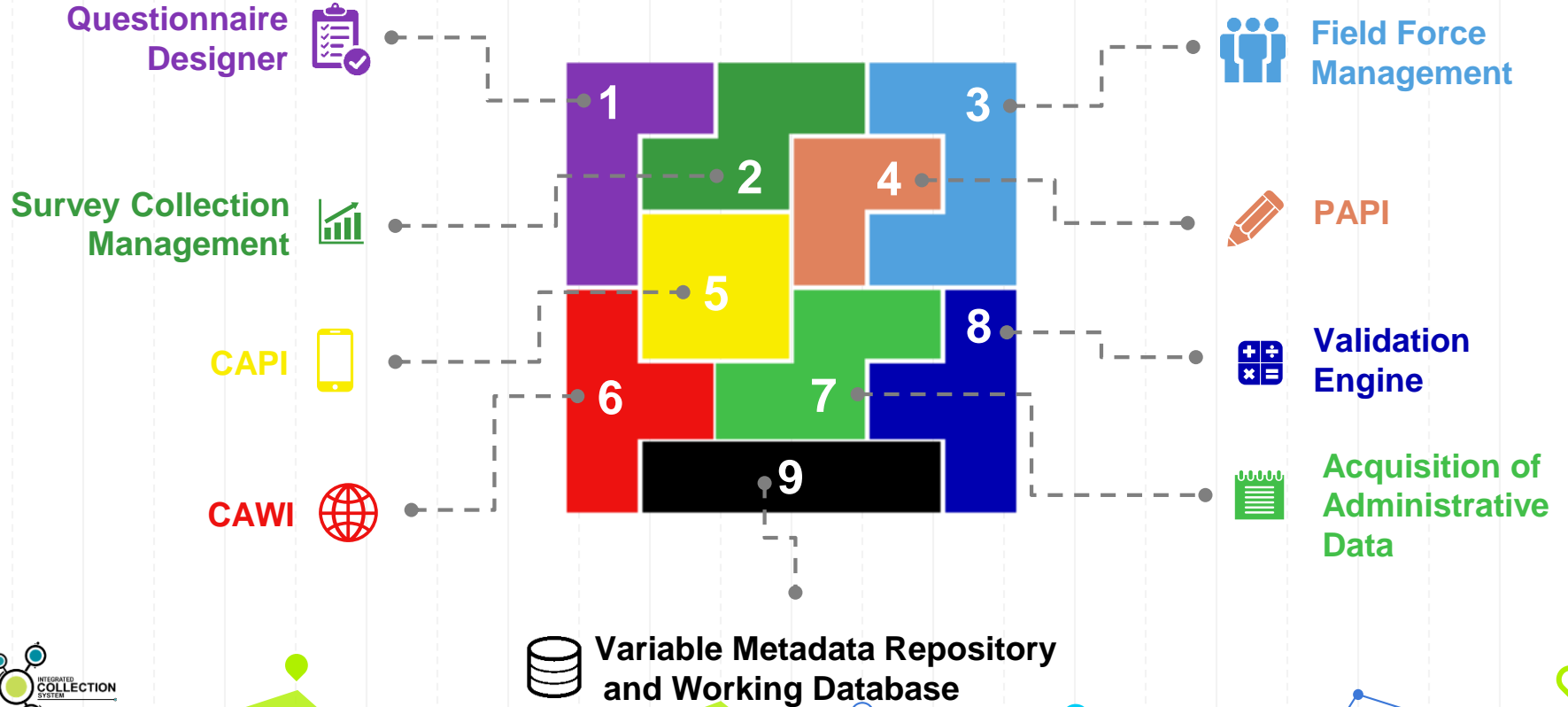
CAPI
Computer Assisted
Personal Interviewing

CAWI
Computer Assisted Web
Interviewing



Acquisition of
Administrative
Data

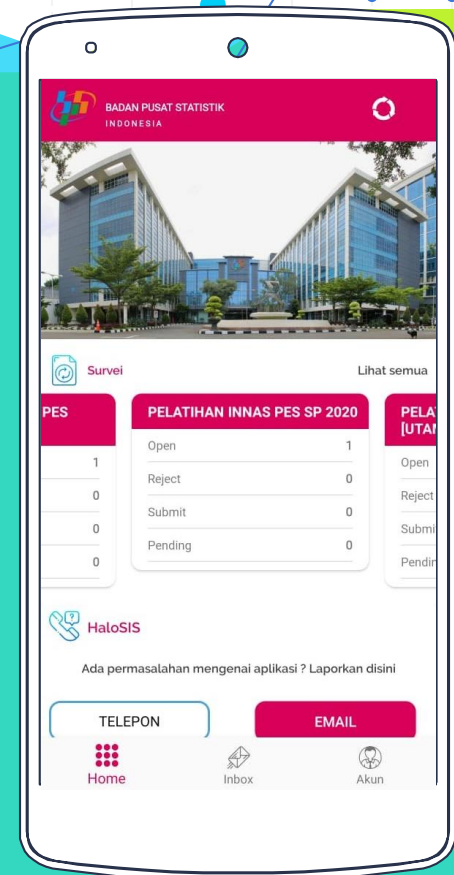
Components of ICS



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



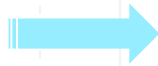
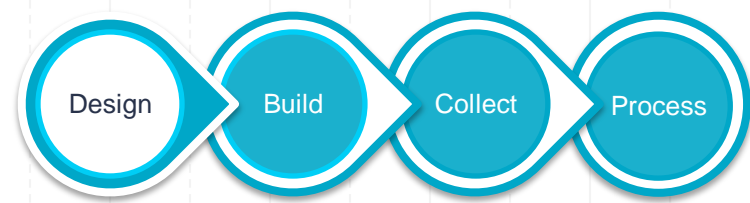
CAWI

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



 **Questionnaire Design**

 **Survey Collection Management**

 **Field Force Management**




 **Validation Engine**



 **Variable Metadata Repository**

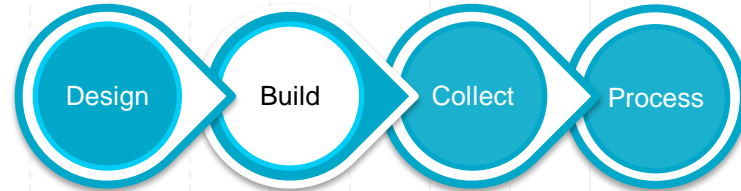


 **Working Database**

-  Unstructured/File
-  Json/XML
-  Database Access



WORK FLOW ICS

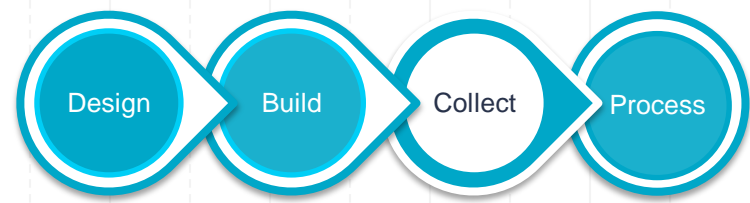


Working Database

- Unstructured/File
- Json/XML
- Database Access



WORK FLOW ICS



Working Database
Provinsi/Kab/Kota

PAPI

- Unstructured/File
- Json/XML
- Database Access

CAPI

CAWI

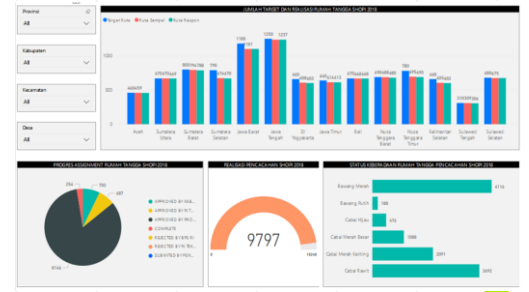
Working Database

Validation Engine

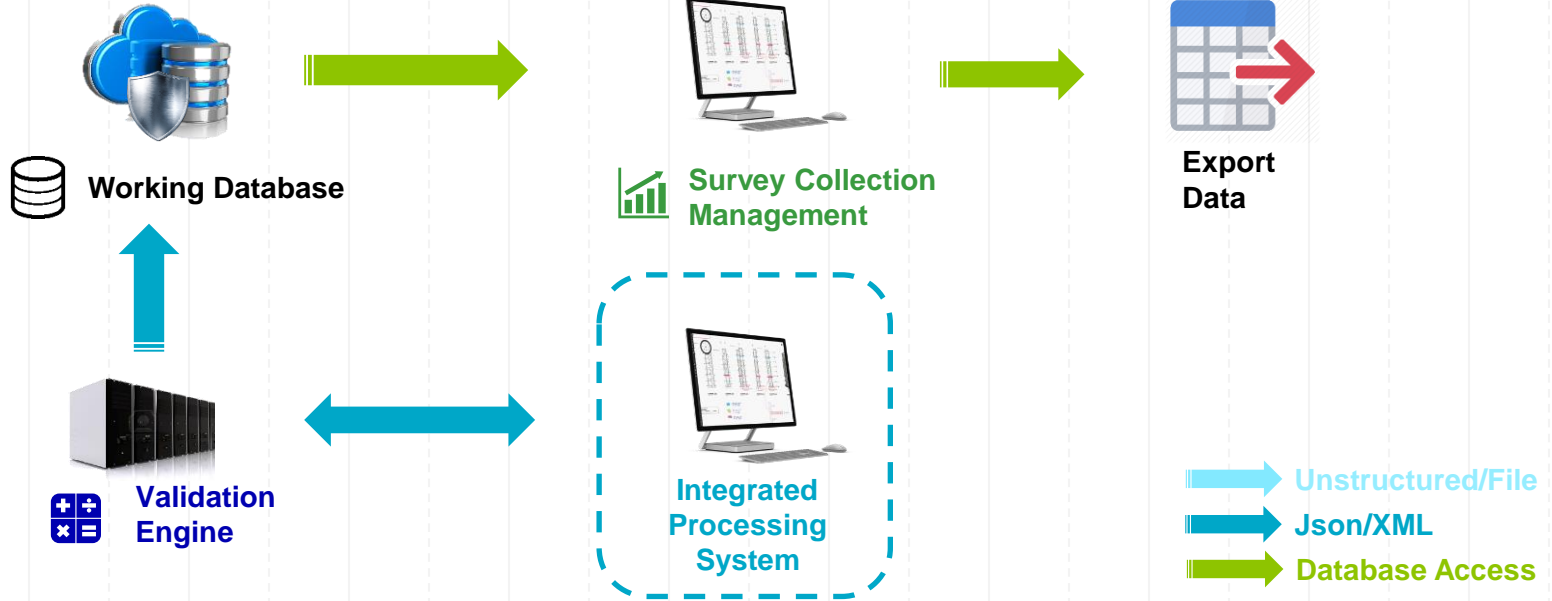
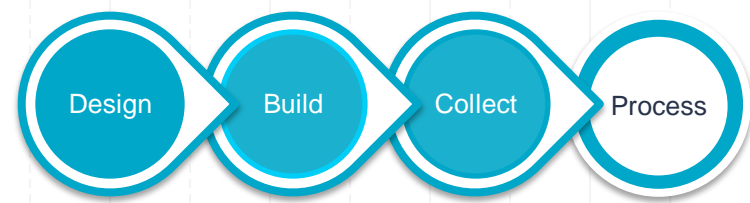
Survey Collection Management



Dashboard



WORK FLOW ICS



THANK YOU



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