Session 1A:
Introduction to CAPI

Workshop on Computer Assisted Personal Interviewing (CAPI)
31 July – 4 August 2017, Chiba, Japan

Outline

- Definition of CAPI

- Different computer assisted technologies

- CAPI changes more than the interviews

- Survey Solutions and brief comparisons to other products

- Take a demonstration survey

Definition of CAPI

- Computer Assisted Personal Interviewing

- Interview takes place face to face and answers are recorded on a (tablet) computer.

- In addition to survey responses paradata (or data about the data collection) is captured. For example:
  - Time stamps for each question
  - Interview durations
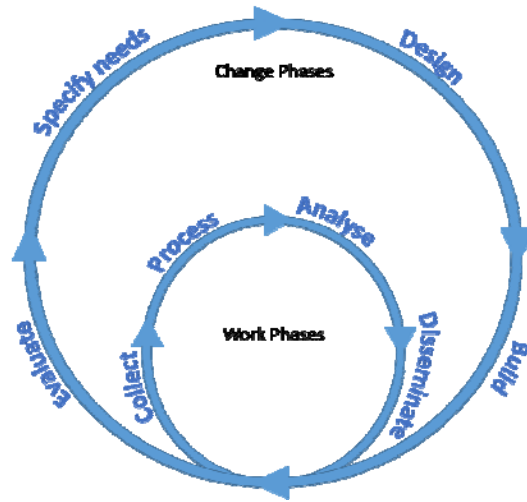 - GPS location of interviewer

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Computer assisted technologies

- CA**P**I: Computer Assisted **Personal** Interview
- CA**T**I: Computer Assisted **Telephone** Interview
- CA**S**I: Computer Assisted **Self** Interview
- CA**W**I: Computer Assisted **Web** Interview

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CAPI = Change

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CAPI in GSBPM

| Quality Management / Metadata Management							
Specify Needs	Design	Build	Collect	Process	Analyse	Disseminate	Evaluate
1.1 Identify needs	2.1 Design outputs	3.1 Build collection instrument	4.1 Create frame & select sample	5.1 Integrate data	6.1 Prepare draft outputs	7.1 Update output systems	8.1 Gather evaluation inputs
1.2 Consult & confirm needs	2.2 Design variable descriptions	3.2 Build or enhance process components	4.2 Set up collection	5.2 Classify & code	6.2 Validate outputs	7.2 Produce dissemination products	8.2 Conduct evaluation
1.3 Establish output objectives	2.3 Design collection	3.3 Build or enhance dissemination components	4.3 Run collection	5.3 Review & validate	6.3 Interpret & explain outputs	7.3 Manage release of dissemination products	8.3 Agree an action plan
1.4 Identify concepts	2.4 Design frame & sample	3.4 Configure workflows	4.4 Finalise collection	5.4 Edit & impute	6.4 Apply disclosure control	7.4 Promote dissemination products	
1.5 Check data availability	2.5 Design processing & analysis	3.5 Test production system		5.5 Derive new variables & units	6.5 Finalise outputs	7.5 Manage user support	
1.6 Prepare business case	2.6 Design production systems & workflow	3.6 Test statistical business process		5.6 Calculate weights			
		3.7 Finalise production system		5.7 Calculate aggregates			
				5.8 Finalise data files			

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CAPI software

- Survey Solutions
  - Produced and supported by the World Bank
- CSPro
  - Produced and supported by the US Bureau of Census
- Lime Survey
  - Free and open source developed by Carsten Schmitz (and others)
- Blaise
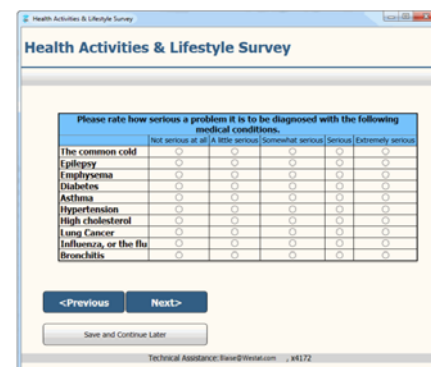 - Produced and supported by Statistics Netherlands

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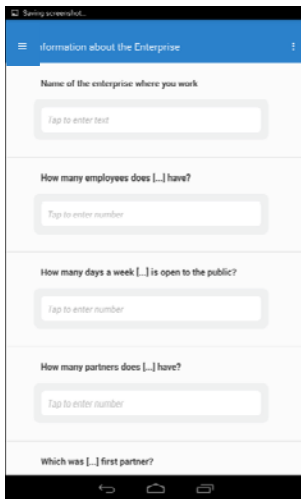
Lime Survey and Offline Surveys
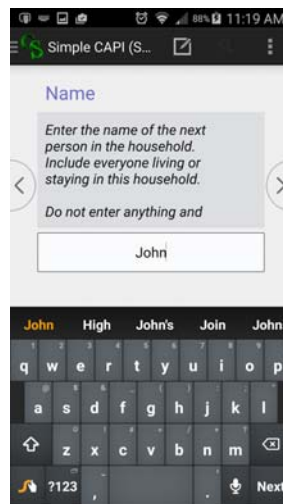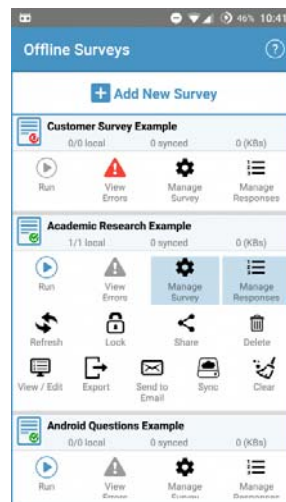
Survey Solutions

CSPro

Blaise

Comparison

| Criterion	Survey Solutions	CSPro	Lime Survey	Blaise
Software license	Free	Free	Free	$$$
Server requirements	Hosted by world bank	FTP, Dropbox	Hosted or In-house web server	IIS, ASP, relational database server
Learning curve	Shallow, uses simplified C# syntax	Steep, uses internal language	Shallow, uses PHP and JavaScript	Steep, uses internal language
Development time	Short	Long	Short	Long
Android questionnaire testing	Included	Not included	Included	Windows only
Questionnaire programming skills required	Minimal training required	Training required	Minimal training required	Training required
Case management	Built in	Use CSPro program	External program	Use Blaise program
Export data formats	SPSS, Stata, TXT	SPSS, SAS, Stata, R, CSV, TXT	SPSS, Stat, R, Excel, CSV	Text, XML, ASCIIRelational, OLEDB

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Take Demo Survey

- Open Blue Stack

- Launch Interviewer
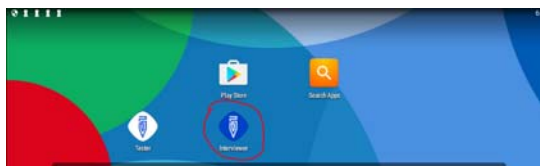
- Login with Interviewer information on your User Information Sheet (server, username, and password)
- When finished, Sync interview