Caribbean Netherlands (CN)

- Islands Bonaire, Saba and Sint-Eustatius
- Original part of the Dutch Antilles
- Since 2010 municipalities of The Netherlands
- Small office of Statistics Netherlands on Bonaire
- Languages: Dutch, English, Spanish and Papiamento
- Currency: US $
Starting with tablets

- Until 2012 all surveys paper based
- November 2012: study visit to Sint-Maarten
  - Using Android tablets, questionnaires with Open Data Kit (ODK)
- After the visit a successful Business Case was created
  - Windows tablets, questionnaires in Blaise
- 10 Dell tablets were bought and delivered first week of March 2013 and 5 more in May
- First pilot 15th March 2013 with existing Access application for Household Budget Survey
Pilot with Blaise

- Omnibus Survey: June - July 2013
- Consumer Price Index: start Bonaire April 2013, Sint-Eustatius August 2013, Saba November 2013
- Economic Cycle Survey: November 2013

- Individual management shell
- Improved but separate data import/export
- No “track & trace”
- Data communication with separate sending and receiving
Needs and features

Next survey LFS (starting October 2014) but:

Need of a structural solution including:
– “Track & trace”
– Integrated 2-way data communication
– Multilingual
– Logging
– etc...
A CAPI Logistic System: The “PILOT OF THE CARIBBEAN”!
BLS-Collector

- Runs on the network (or computer) in the main office of the data collector
- Controls the complete CPLS Instruments and Survey cases are imported in BLS-Collector before they are sent directly to interviewers
- The completed statements are received by BLS-Collector and distributed to the survey departments
- This action is registered so the main office always has an overview of the progress of the data collection
BLS-Agent

- Runs on the computer of a local agent (a local agent is an in-between the office and a group of interviewers)
- Receives instruments and survey cases sent with the BLS-Collector application and divides them over interviewers
- The completed statements received from these interviewers are sent directly to the main office
- This action is registered so the local agent always has an overview of the progress of the data collection
BLS-Connect

- Serves as a connection hub between the main office or local agent on one side and interviewers on the other side.
- Connects 2 different types of data communication e.g. secure FTP (sFTP).
BLS-CAPI

- Runs on the laptop or tablet of an interviewer.
- Manages the assigned interviews.
- Communicates with the local agent or the main office using the messaging function.
- A laptop or tablet can be used by several interviewers each with his or her own working space.
Configurations

- BLS-Collector — BLS-CAPI
- BLS-Collector — BLS-Connect — BLS-CAPI
- BLS-Collector — BLS-Agent — BLS-CAPI
- BLS-Collector — BLS-Connect — BLS-CAPI
The dashboard (BLS-CAPI)
Results (1)

- The interviewers were quite satisfied with the tablets and the application
- No problem with the size or the weight of the Dell tablets
- The contrast of the screen was sufficient
- As the interviews were held inside they were not bothered by sunlight
- The battery lasted for several days so there was no problem during the interviews with the power
Results (2)

- Logging on twice (tablet and application) was annoying
- This protection is regarded as necessary: pre-filled interviewer number added in later version
- The layout was ok
- All the texts were clear and no buttons were missing
- No need for context sensitive help
- Faulty USB-keys, a firewall and the migration of the sFTP-server caused errors: the data communication should be more robust
- Separate configurable scripts, multi channel
- Two-way traffic (Off2Int & Int2Off)
- Client-server concept: office side is always the server
- Encrypted packages
  - Client identification in package name
  - ZIP with 256 bits AES, 64 character key per client
  - Containing one or more data objects
- Data object containing properties file and payload
- Robust
  - Receipt confirmations
  - “Resend” setting at client side
What next?

In Caribbean Netherlands:
– First week of May: implementation of new version
– Price Level Survey (Maniplus instrument)
– Visitors Exit Survey (Blaise 5 instrument)

In The Netherlands:
– Not yet sure: an investigation if the CPLS can be connected to the current survey system “SEA”
  (a small PoC showed the data is rich enough)
A CAPI Logistic System

DEMO TOMORROW!