Components of Census Operations

- Housing Census
  - georeferenced

- Population Census
  - CAPI/CAWI/CATI

- Complete Geo-Referenced national Population
  - (including administrative/statistical boundaries)
Census Operations Pose Challenges
(in comparison to sample surveys)

➢ **Large** Volumes of Data need to be processed, stored and analyzed

➢ **Large** Workforce needs to be managed

➢ **Large** stakeholder landscape needs to be addressed

➢ **Large** public interest and scrutiny
CAPI for Census Operations Has Particular Requirements
(in particular in 2020/2021)

• A tested system that can process and store large volumes of data
• A tested system that can handle simultaneous access of (00,000) of tablets
• A tested survey management system for reviewing and taking actions on (000,000) interviews daily
• A tested system that allows monitoring work progress and census coverage in real time
• A tested system that protects the privacy of the respondents at every stage to the utmost degree.
• In particular in LIC/MIC:
  • A tested system, that does not require an army of programmers or system admins to be set up, but which just works out of the box.
  • A tested system which can easily facilitate the integration of geo-spatial information.
The Survey Solutions CASS
(CASS = Computer Assisted Survey System)

- One platform for different Survey Modes
  ➢ CAPI, CAWI, CATI or a mix of them
- One platform for a wide range of data collection operations: from sample surveys through agricultural censuses to population and housing censuses
- One platform for data collection, data management and survey management
- One platform to collect and store geospatial information
- One platform where new users (i.e. questionnaire designers, enumerators) do not require lengthy and expensive training courses
- One platform which works seamlessly in cloud, local and hybrid data environments.
The Survey Solutions Feature

- Integration of the ESRI toolkit, which allows for immediate spatial processing of the collected data.

- Highly flexible REST API.
  - The API can be used to connect any 3rd party software to the server, and in this way allows for the automation of certain processes (i.e. quality checks, visualizations etc.)

- Stable backend infrastructure and data protection features suitable for the requirements of National Statistical Agencies.

- Strong and responsive support.

- Build for use in low-skill environments.
Survey Solutions Worldwide

- 112 countries and counting
- 800+ (CAPI) surveys
- 12M+ face to face interviews
## Survey Solution’s “out of the box” approach

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
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<tbody>
<tr>
<td>Robust data synchronization</td>
<td>= no data loss</td>
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<tr>
<td>Robust data management</td>
<td>= no double counting</td>
</tr>
<tr>
<td>Built-in rich reporting on data collection process</td>
<td>= efficient fieldwork management</td>
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<tr>
<td>Built-in user and device management</td>
<td>= efficient technical and security management</td>
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<tr>
<td>CAPI/CAWI/CATI in a single system</td>
<td>= one database</td>
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<tr>
<td>Consistent Meta/para data on the full data collection process</td>
<td>= efficient Quality Management</td>
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<tr>
<td>Full-featured, yet still extensible via API and C#</td>
<td>= high degree of customization possible</td>
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<tr>
<td>Powerful, flexible, user friendly data capturing</td>
<td>= workforce can be easily expanded even in low skill environments</td>
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<tr>
<td>Data fully encrypted from end to end</td>
<td>= consistency with all Data Protection Standards.</td>
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