הלשכה המרכזית לסטטיסטיקה
Central Bureau of Statistics
دائرة الإحصاء المركزية

Support to the Israeli Central Bureau of Statistics in Improving the Quality of Official Statistics

Component D: Methodological and geo-spatial tools for improving the quality and efficiency of field surveys

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Mandatory result

Optimization of field workload allocation using geo-spatial tools for managing field surveys in designated areas

If we simplify the MR:

1. **Optimization field workload allocation using geo-spatial tools**
2. **Using geo-spatial tools for managing field surveys in designated areas**

Activities Benchmarks

ID1: *Definition of indicators to measure the efficiency of field work and reliability of estimates with a view to reduce costs and improve sample quality developed*

ID2: *Methodological paper on managing and monitoring field work using geo-spatial procedures during data collection process*

ID3: *Methodological paper on optimization of workload allocation of fieldwork using geo-spatial procedures and other tools*

ID4: *Feasibility test for managing and monitoring field work evaluated*

Activities Benchmarks – cont.

ID5: *Feasibility test for optimizing workload allocation of field work evaluated*

ID6: *Design specification of a geo-spatial application, to identify and analyse regional non-response and enable rapid reaction and handling of problematic "hot spots”*

ID7: *Design specification of a geo-spatial application, to optimize allocation of field workers’ workload and enable multi-survey sampling*

ICBS GOALS
Improve fieldwork Quality & Efficiency

Methodology that would yield optimized planning and allocation of workload units to interviewers:

- ✓ **Lower costs – by having the same interviewer conducting several surveys in defined geographical areas**

- ✓ Improve coverage quality – our assumption is that geo-spatial tools can help visualize and identify problematic areas of regional under coverage. Improving the ICBS ability to manage the field work during midst of data collection will enable to reallocate resources for optimal treatment

24.05.2016 - 26.05.2016

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Activity D.2:

Preparation of design for methodology to allocate interviewers' workload in multi-field surveys

Background 1

- *Sampling Frames:*
  - *The Central Population Register (CPR): for sampling individuals and households*
  - *Dwelling Register: for sampling dwelling units*

- *Currently, all field surveys conducted by ICBS are sampled after geocoding of each unit in the sampling frames*

Background 2

- *Main field surveys:*
  1. *Labour Force Survey (Lfs)*
  2. *Household Expenditure Survey (Hh)*
  3. *Social Survey (Ss)*
  4. *Longitudinal Survey (Sampled from the CPR in the first wave 2012)*

The samples of these surveys are drawn separately for each survey

Background 3

- *ICBS typical interviewer works in one survey*
- *The workload distribution thereby is performed independently for each survey*
- *Each survey has its own constraints created by its methodology:*
  - *Data collection period*
  - *Time span feasible for collection*
  - *Reference period, and so on.*

Schedule for D2 workshop

DATES	SUBJECT	PRESENTER
4/9	Introduction, sampling methodology, Gis tools for allocation	ICBS
5/9	Demo about multi surveys allocation Discussion	ICBS, MS-experts
6/9	Finalizing	MS and ICBS

Lets have a great time together