

A decorative blue circle with a white dot inside, positioned on the left side of the slide, connected to a horizontal line that spans the width of the slide.

Using IST – integrated system of data processing and online data collection in the Pilot Census of population 2019

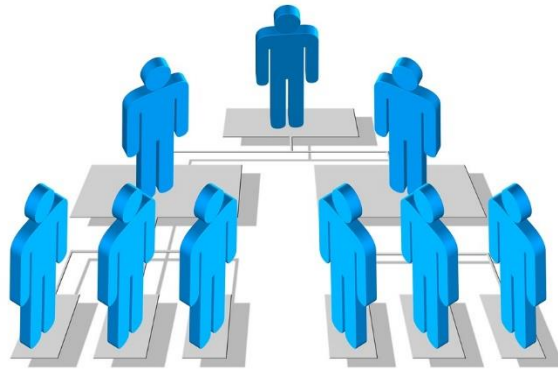
Branko Josipović

Branko Dragišić

Workshop on Statistical Data Collection
Geneva, 14-16 October 2019

Introduction

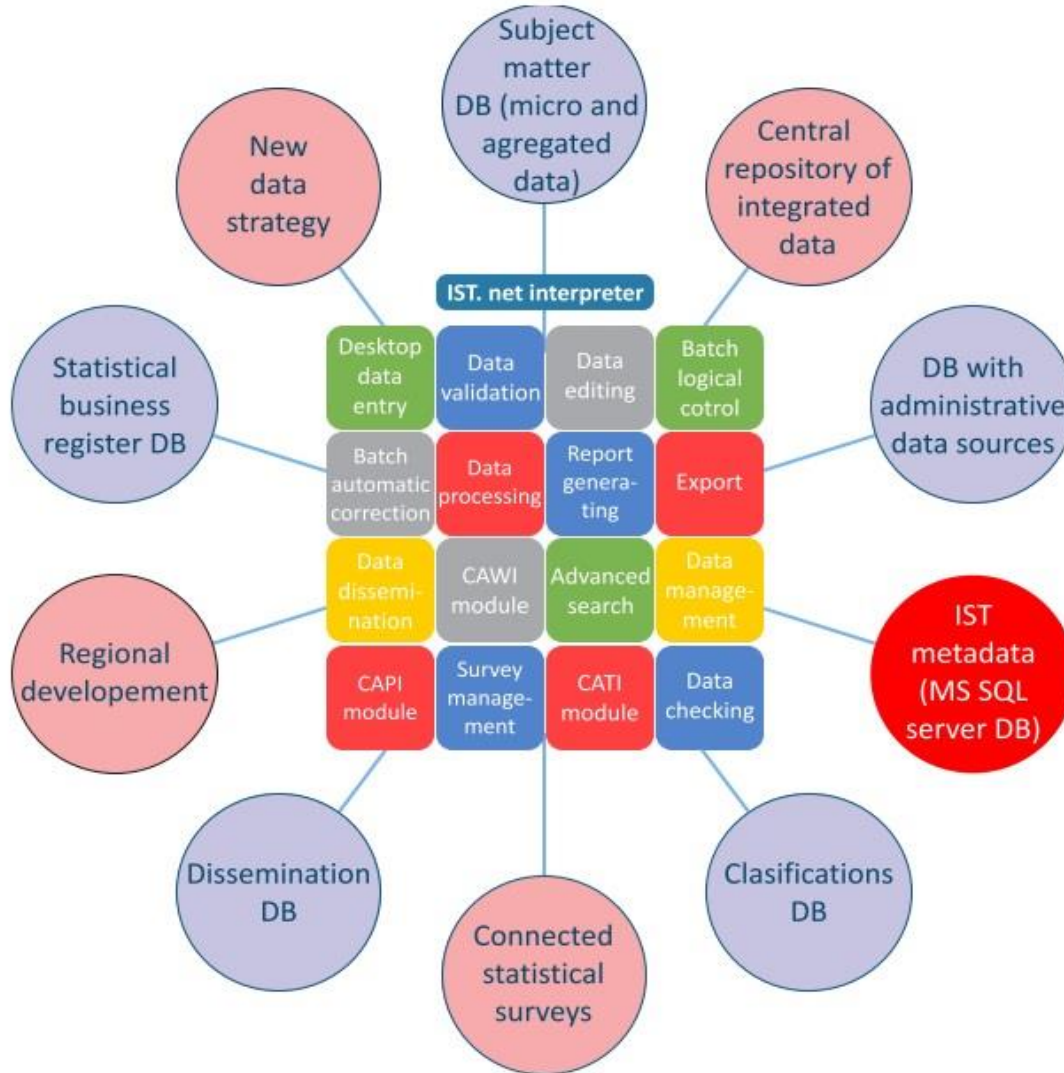
- Organisational structure
- Modernisation of regional offices
- Replacing paper questionnaires
- CAPI, CAWI, CATI
- Standardize data entry





Solution for processing statistical data. It covers multiple stages of statistical production.

- One platform for all data
- One solution for all surveys
- Metadata driven
- One interpreter of metadata
- Tracking executed logical controls
- Tracking information of data edit or data imputation
- Different data from different surveys are connected
- Data entry, processing and reporting at one place
- Unique interface regardless of statistical domain or questionnaire type



IST CAPI

The purpose of the IST-CAPI system is to provide support to statistical surveys conducted by the CAPI method using laptop with Windows operating system.

- Authentication and authorisation of the interviewer
- Receiving of new and updating of the existing data and applications on the client computers
- Sending of the survey data from the client to the central location
- Archiving of the survey data on the client
- Offline and online mode

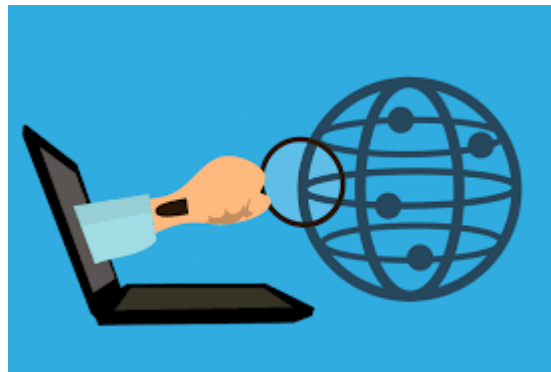
Basic information about population pilot census

- 51 municipalities / cities
- 20,000 households and dwellings
- 50,000 persons
- 85 enumerators, 25 instructors
- Two methods for data collection, CAPI and CAWI
- CAWI aimed to cover 13000 persons



CAWI

- Testing the online data collection method before the population census
- 5000 letters was sent during pre-census activities
- SORS and the Bidder provided respective support to interested parties in self-enumeration
- Security measures taken, all households were provided with user ID Unique Verification code



Monitoring dashboard – survey management

- Verify the progress of the pilot and to highlight any problems in the collection process



May 28, 2019 10:11:06 PM
Time of last refresh

Pilot census monitoring

Regiona...	Controlor	Enumerator
<input type="checkbox"/> 70	<input type="checkbox"/> 4014	<input type="checkbox"/> 40060
<input type="checkbox"/> 71	<input type="checkbox"/> 7001	<input type="checkbox"/> 40061
<input type="checkbox"/> 72	<input type="checkbox"/> 7121	<input type="checkbox"/> 70001
<input type="checkbox"/> 73	<input type="checkbox"/> 7122	<input type="checkbox"/> 70002
<input type="checkbox"/> 74	<input type="checkbox"/> 7123	<input type="checkbox"/> 70003
<input type="checkbox"/> 75	<input type="checkbox"/> 7124	<input type="checkbox"/> 70004
<input type="checkbox"/> 76	<input type="checkbox"/> 7125	<input type="checkbox"/> 71005
<input type="checkbox"/> 77	<input type="checkbox"/> 7202	<input type="checkbox"/> 71006
<input type="checkbox"/> 78	<input type="checkbox"/> 7303	<input type="checkbox"/> 71007
<input type="checkbox"/> 79	<input type="checkbox"/> 7304	<input type="checkbox"/> 71008

19584
Dwellings

12604
Households

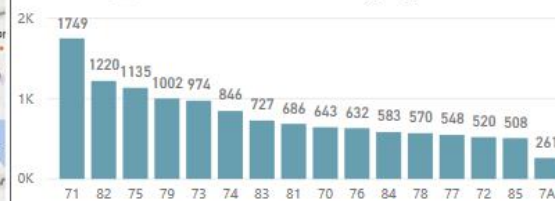
36153
Persons

286
Temporarily present persons

Location of enumerated dwellings



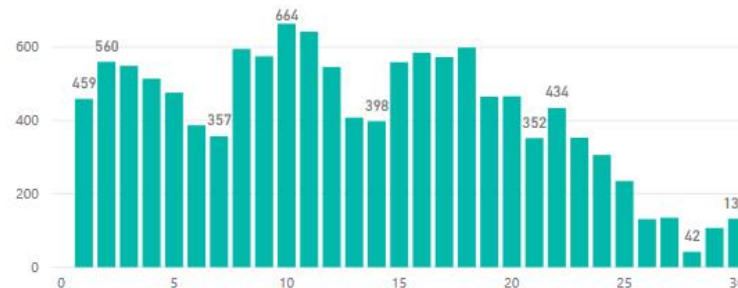
Number of enumerated households by regional office



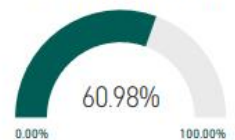
Number of dwellings and households by enumerator



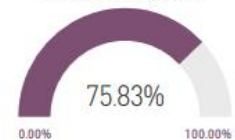
Number of enumerated households per day



Households 2019/2011



Persons 2019/2011

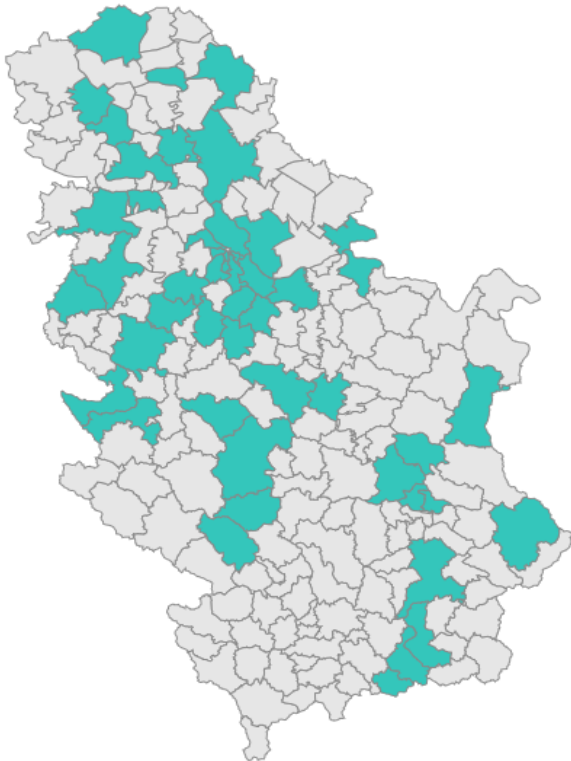


Monitoring dashboard – survey management

- Making the census more visible and attractive to all population

Select municipality with click or enter name in search box

Search



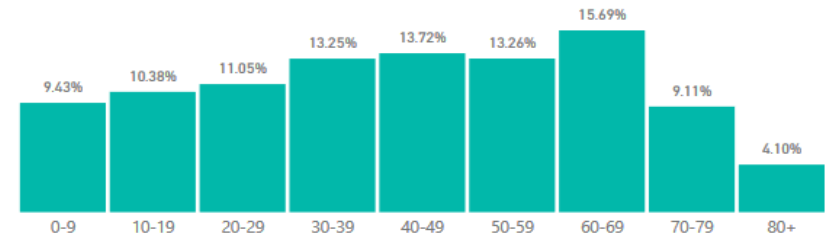
44.00

Median age

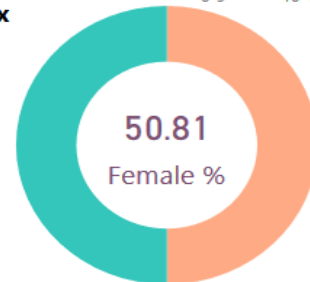
42.88

Average age

Population by age range

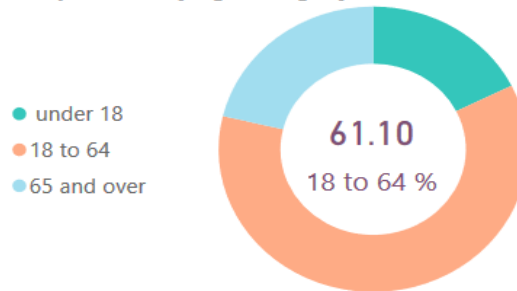


Sex

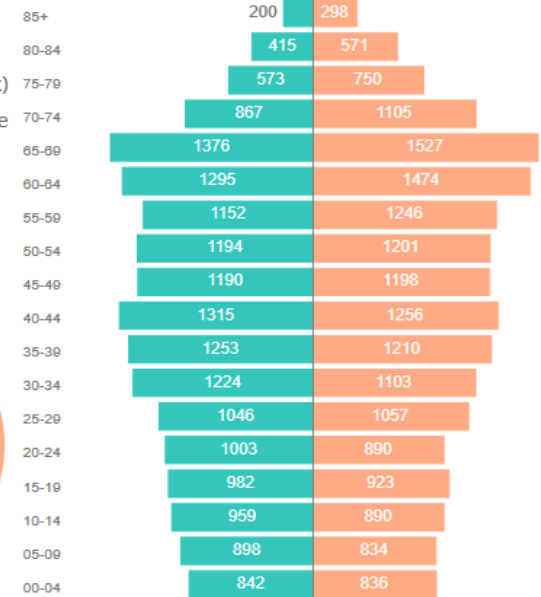


- (Blank)
- female
- male

Population by age category



- under 18
- 18 to 64
- 65 and over



Communication framework

Perfect! 🙌

Thank you! 😊

Like! 👍

UPS! 😬

Enumerator:
My question is ...

Instructor:
The answer is...

😊 Great!

Now I get it! 😎

Conclusions

- CAPI solution will be upgraded with numerous logical controls which can be used in the real time to underpin data collection process
- Machine learning algorithm and chatbot will be implemented
- The response rate for the CAWI self enumeration method was very low
- Difficulties with monitoring the coverage with CAWI
- Monitoring dashboards for survey management will be enhanced and widely used

A decorative blue circle with a white dot inside, located on the left side of the slide.

Using IST – integrated system of data processing and online data collection in the Pilot Census of population 2019

Thank you!

Branko Josipović

Branko Dragišić

Workshop on Statistical Data Collection
Geneva, 14-16 October 2019