

#### Geocoding Population Census 2000. Lessons Learned

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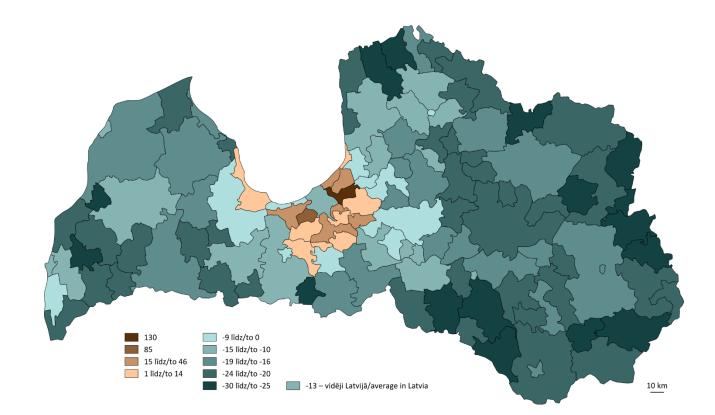


> Geocoding data of Population Census 2000 is a part of Eurostat (statistical office of the European Union) supported grant project *Merging Statistics and Geospatial Information in Member States*. Project includes also analysis of migration flows and reasons for emigration and depopulation of certain areas based on the geocoded data.

Starting date 04.01.2016, duration 24 months

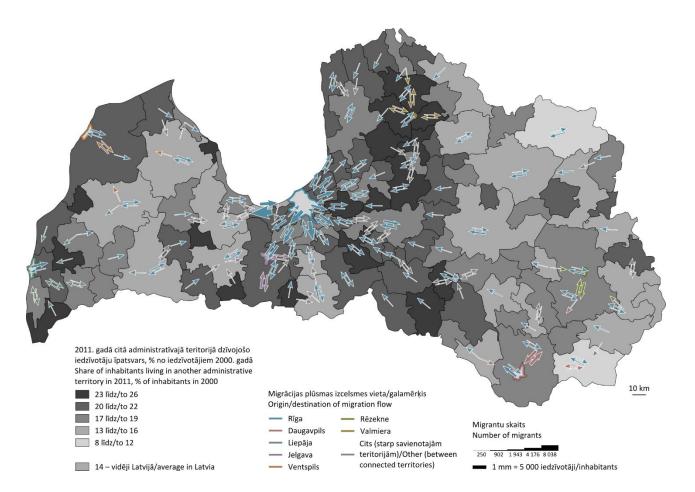


#### Population change in LAU 2 in 2000–2011, %





#### Internal migration of population at LAU 2 level, 2000–2011





> For research on depopulation in regional breakdown, longitudinal geocoded dataset on population, employment and housing conditions is required. Such data can be obtained only in population censuses.

Data of Population Census 2011 are already geocoded, while data of Census 2000 are not, therefore their use in longitudinal research of depopulation is limited



> Geocoded data from Population Census 2000 and 2011 would provide ability for spatial planning professionals, researchers, students and other data users to analyse spatiotemporal patterns at more detailed level than at present when only data aggregated to administrative territories is available

> Source codes of scripts created in the course of the project will be published and reusable



#### Action stages of the project

- Geocoding Population Census 2000 dataset
- Data publishing:
  - 1×1 km grid for Latvia and 100×100 m grid for the largest cities on population and housing indicators
  - Remotely accessible scientific use dataset containing geocoded data of Census 2000, as well as identifiers which will ensure compatibility between datasets of the Census 2000 and 2011
- Migration and depopulation data analysis using local indicators of spatial association



# Geocoding Population Census 2000 dataset

Census 2000 dataset contains information on the place of residence – address and territorial unit code

Address information (house number and street name or house name) from questionnaires was optically recognized and contains errors that must be eliminated



House number	Street name
/1	TARTU
11	
11	TART4
11	TARTU
2A	TA.RTU .
2A	TAR+4
2A	TART4
2A	TARTU
2A	TART-U
-2A	TARTU
5	
5	TART4
5	TARTU
5	TARTU -
5	TARTU.
ZA	TARTU



# Geocoding Population Census 2000 dataset

By linking address information of Census 2000 with the one of Population Register as of 1 March 2000 probability of equality between the both is determined

Address information of Population Register still contains format errors but much less than Census 2000 dataset



# Geocoding Population Census 2000 dataset

Probabilities were calculated in R software using fields:

- 1. Street/house name
- 2. House number
- 3. House block number
- 4. Territorial unit code



### Geocoding Population Census 2000 dataset

For each record's field, the Levenshtein distance was calculated (Levenshtein distance between two words is the minimum number of changes required to transform one word into the other). Afterwards it was divided by the longest of both words and subtracted from 1 thereby calculating the probability that the fields are equal.

DAUGAVPIL.5  $\rightarrow$  DAUGAVPILS (distance is equal to 2)

$$Probability = 1 - \frac{2}{11} \approx 0.82$$



# Geocoding Population Census 2000 dataset

Special cases when one word fits completely into the other. Even though fields often described the same geographic feature, calculated probabilities were low since one of the fields was shortened. Therefore some adjustments were made in probability calculation for these cases.

KR BARONA → KR<mark>IŠJĀŅA</mark> BARONA

 $Probability_{before} = 0.6$ 

 $Probability_{after} \approx 0.87$ 



#### Geocoding Population Census 2000 dataset

Probabilities were calculated for each of the four fields and then combined with weights to calculate the combined probability for each record

In several (~30) steps, addresses from Census 2000 dataset were linked between 1) historical data from State Address Register and 2) Census 2011 dataset (only addresses which doesn't link with State Address Register) using MS SQL Server 2016

Linked datasets contain coordinates to be added to the Census 2000 dataset



## Geocoding Population Census 2000 dataset

In some steps, calculated probabilities were used to substitute address information from questionnaires with the one from Population Register

E.g., if probability of address equality between the Census 2000 dataset and Population Register is >0.85, address from Population Register was used to link with data from State Address Register (linked fields – village name, street name and house number)



# Geocoding Population Census 2000 dataset

Probability that address in Census 2000 dataset and Population Register is the same 900 000 800 000 0.85 

 700 000

 600 000

 500 000

 400 000

 300 000

 200 000

 100 000 0 0.01 0.06 0.11 0.16 0.21 0.26 0.31 0.36 0.41 0.46 0.51 0.56 0.61 0.66 0.71 0.76 0.81 0.86 0.91 0.96

Probability (>0 and <100)



### Geocoding Population Census 2000 dataset

For the remaining addresses, probability of address equality between Census 2000 and 2011 datasets was determined and under several conditions used to assume that address from Census 2011 can be used

E.g., if probability of equality between house name in the Census 2000 dataset and village name in the Census 2011 dataset is >=0.7 (in the Census 2000 dataset, only village name was given in the field of house name and address from Census 2011 can be used if at least one person from the household lives at the same village according to Census 2011)



### Geocoding Population Census 2000 dataset

For addresses which were unable to be linked automatically and cover ~245 000 persons (10%), probability of address equality between Census 2000 and State Address Register was determined and 10 highest probabilities for each address used for manual linking (all in case highest probability is equal for more than 10 addresses)

Number of records to be manually linked is considerably less than ~245 000 (initially ~37 000) due to grouping by address but in some cases addresses must be split into households or persons



# Geocoding Population Census 2000 dataset

For manual linking, software was programmed to ease the process. Besides addresses from State Address Register with the highest probabilities of being equal, also access to these sources are given:

- Scanned questionnaires
- All surveyed addresses of the interviewer
- Registered places of residence up to year 2016 and address according to Census 2011



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7642           7642		RUSONAS JAUNAGLO RUSONAS JAUNAGLONA TRUŠU JAUNAGLONA TRUŠU JAUNAGLONA TRUŠU JAUNAGLONA		9 9 5 15 22 4 5 7 7 9 -9 -9 -9 9 9 28 28	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	16067         1.7%           16067         1.77%           16057         1.7%           16067         1.7%           16067         1.7%	56574TVX-7542ELJ-MÄJA-RUSOT 5657ATVX-7542ELJ-MÄJA-SRUDF 5657ATVX-7542ELJ-MÄJA-SRUDF 5657ATVX-7542ELJ-MÄJA-SRUDF 5657ATVX-7542ELJ-MÄJA-SRUDF 5657ATVX-7542ELJ-MÄJA-SRUDF 5657ATVX-7542ELJ-MÄJA-SRUDF 5657ATVX-7542ELJ-MÄJA-SRUDF 567		Villa		ques	otionr	naire	ado Sta Reg Jau	dress te Ac gister	fron ddres ona	n ss
7642           7642		RUSONAS JAUNAGLO RUSONAS JAUNAGLONA TAUDZEMU 7AUDZEMU 7AUDZEMU		9 9 5 15 22 4 5 7 9 9 5 9 5 9 28 28 28 54	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	16067         1.7%           16067         1.7%	8657ATVX:7642IEL/MÄJARUSOT 8657ATVX:7642IEL/MÄJARJD2 8667ATVX:7642IEL/MÄJARJD2				ques	otionr	naire	ado Sta Reg Jau	dress te Ac gister nagle	fron ddres ona	n ss
7642           7642		RUSONAS JAUNAGLO RUSONAS J		9 9 5 15 22 4 5 7 9 9 9 5 5 9 9 28 28 28 54 6 6	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	16067         1.76           16067         1.77           16067         1.76           16057         1.76           16057         1.76           16057         1.76           16057         1.76           16057         1.76           16057         1.76           16057         1.76           16057         1.76           16057         1.76           16057         1.77 </td <td>5657471VX-7542EL-J/MÄJA-RUSO 5657471VX-7542EL-MÄJA-STRV2 567471VX-7542EL-MÄJA-STRV2 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUDO 567471VX-7542EL-MÄJA-RUDO 567471VX-7542EL-MÄJA-RUDO</td> <td></td> <td></td> <td></td> <td>ques</td> <td>otionr</td> <td>naire</td> <td>ado Sta Reg Jau</td> <td>dress te Ac gister nagle</td> <td>fron ddres ona</td> <td>n ss</td>	5657471VX-7542EL-J/MÄJA-RUSO 5657471VX-7542EL-MÄJA-STRV2 567471VX-7542EL-MÄJA-STRV2 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUDO 567471VX-7542EL-MÄJA-RUDO 567471VX-7542EL-MÄJA-RUDO				ques	otionr	naire	ado Sta Reg Jau	dress te Ac gister nagle	fron ddres ona	n ss
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7642           7642		RUSONAS JAUNAGLO RUSONAS J		9 9 5 15 22 4 5 7 9 9 9 5 5 9 9 28 28 28 54 6 6		16057         1.76           16057         1.77           16067         1.77           16067         1.77           16067         1.77           16067         1.77 </td <td>5657471VX-7542EL-J/MÄJA-RUSO 5657471VX-7542EL-MÄJA-STRV2 567471VX-7542EL-MÄJA-STRV2 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUDO 567471VX-7542EL-MÄJA-RUDO 567471VX-7542EL-MÄJA-RUDO</td> <td></td> <td>Stre</td> <td></td> <td>ques</td> <td>otionr</td> <td>naire</td> <td>ado Sta Reg Jau</td> <td>dress te Ac gister nagle</td> <td>fron ddres ona</td> <td>n ss</td>	5657471VX-7542EL-J/MÄJA-RUSO 5657471VX-7542EL-MÄJA-STRV2 567471VX-7542EL-MÄJA-STRV2 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUSO 567471VX-7542EL-MÄJA-RUDO 567471VX-7542EL-MÄJA-RUDO 567471VX-7542EL-MÄJA-RUDO		Stre		ques	otionr	naire	ado Sta Reg Jau	dress te Ac gister nagle	fron ddres ona	n ss

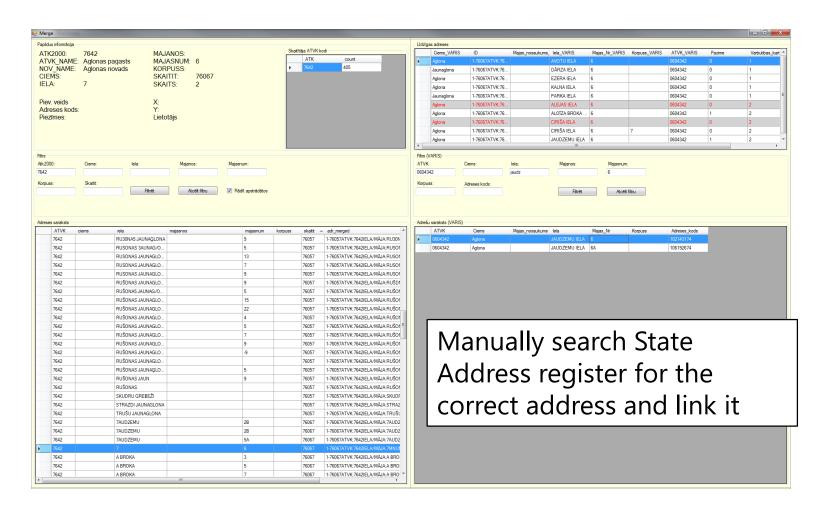


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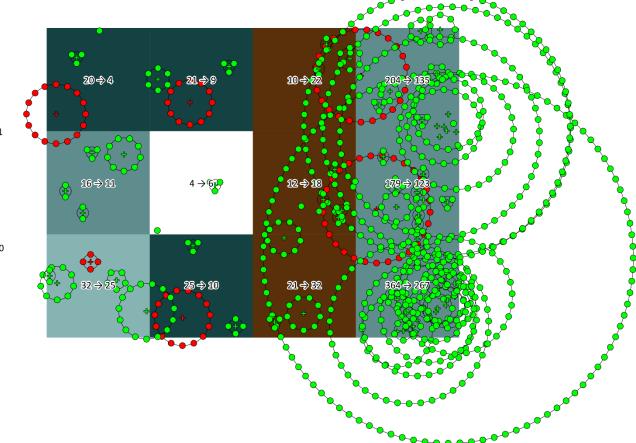




	Number of persons	% of population
Automatically linked	2 081 263	88
Manually linked (incl. automatically linked without coordinates, more than one address automatically linked and corrected errors in automatic linking)	295 931	12



#### Interpolating household coordinates if only village name given in questionnaires



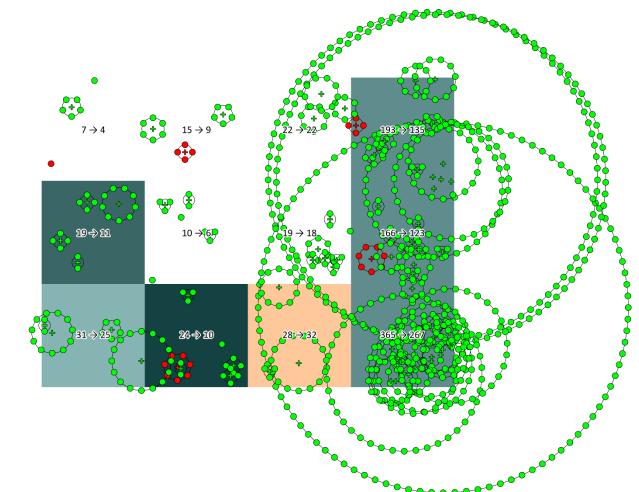
- Census 2000 person
- Census 2000 person assigned to village
- $20 \rightarrow 4$  Usually resident population change; 2000–2011

Usually resident population change; 2000-2011 (%)

- >45 or uninhabited in 2000
- 36 to 45
- 26 to 35
- 16 to 25
- 6 to 15
- -15 to -6
- -25 to -16
- -35 to -26
- -45 to -36
- <-45 or uninhabited in 2011



#### Interpolating household coordinates if only village name given in questionnaires



- Census 2000 person
- Census 2000 person assigned to village
- $20 \rightarrow 4$  Usually resident population change; 2000–2011

Usually resident population change; 2000-2011 (%)

- >45 or uninhabited in 2000
  36 to 45
  26 to 35
  16 to 25
  6 to 15
  -5 to 5 or number of population is between 1 and 10 in at least one year and <19 in 2000 or <15 in 2011</li>
  -15 to -6
  -25 to -16
  -35 to -26
  -45 to -36
- <-45 or uninhabited in 2011



#### Preliminary results: change of usually resident population, 2000–2011

