

Migmap

Detailed interactive mapping of migration
in The Netherlands in the 20th century

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migration

People move houses and this may contribute to diffusion processes

- socio-economic
- cultural
- linguistic

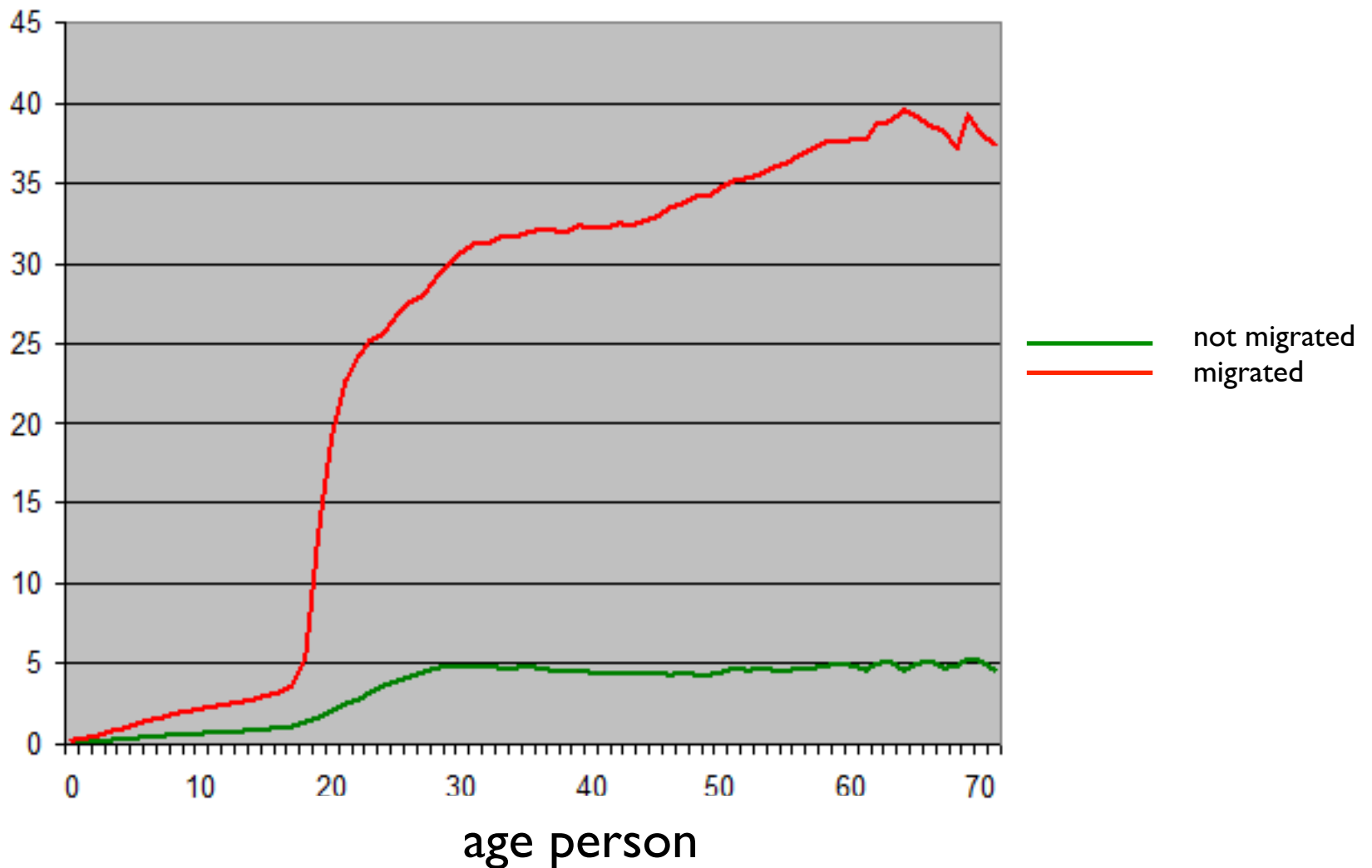
Can we make population dispersion visible over several generations?

to get a flavour

Children leave home at the age of 18 – 30 years

average
distance
to parents
(km)

2006



where are the data?

(I) National Bureau of Statistics

- data at municipality (or region) level
- migration out and in during (period of) years
- no information about origin or destination within the country

work-around

(2) Base data from the digitised Civil Registration

For research on given names:
data on 16 million persons (plus 6 million of deceased
parents)

Coverage close to 100% from 1930 onwards

Coverage still over 25% in 1880

aggregated data can be published

relevant data per person

- id
- gender
- municipality of birth
- municipality of living in 2006
- id's of parents

no details of migration during lifetime (until 2006)

but generations are known and connected

target groups

research community:

linguists, demographers,
socio-economic historians

- easy data exploration
- data downloads

general public:

- easy access, self-explaining site



major question types

The great-grandparents of the current residents of *Amsterdam*, where are they born?

The great-grandchildren of residents of *Amsterdam* born in the late 19e century, where do they live in 2006?

time = generations

visualisation

Map of The Netherlands with 442 municipalities

- target municipality or area

results of request in % migration

- to or from all municipalities
- of foreign origin



Amsterdam: great grandparents

Amsterdam: municipality of birth of greatgrandparents
of residents who are between 35 and 55 years of age

Greatgrandparents

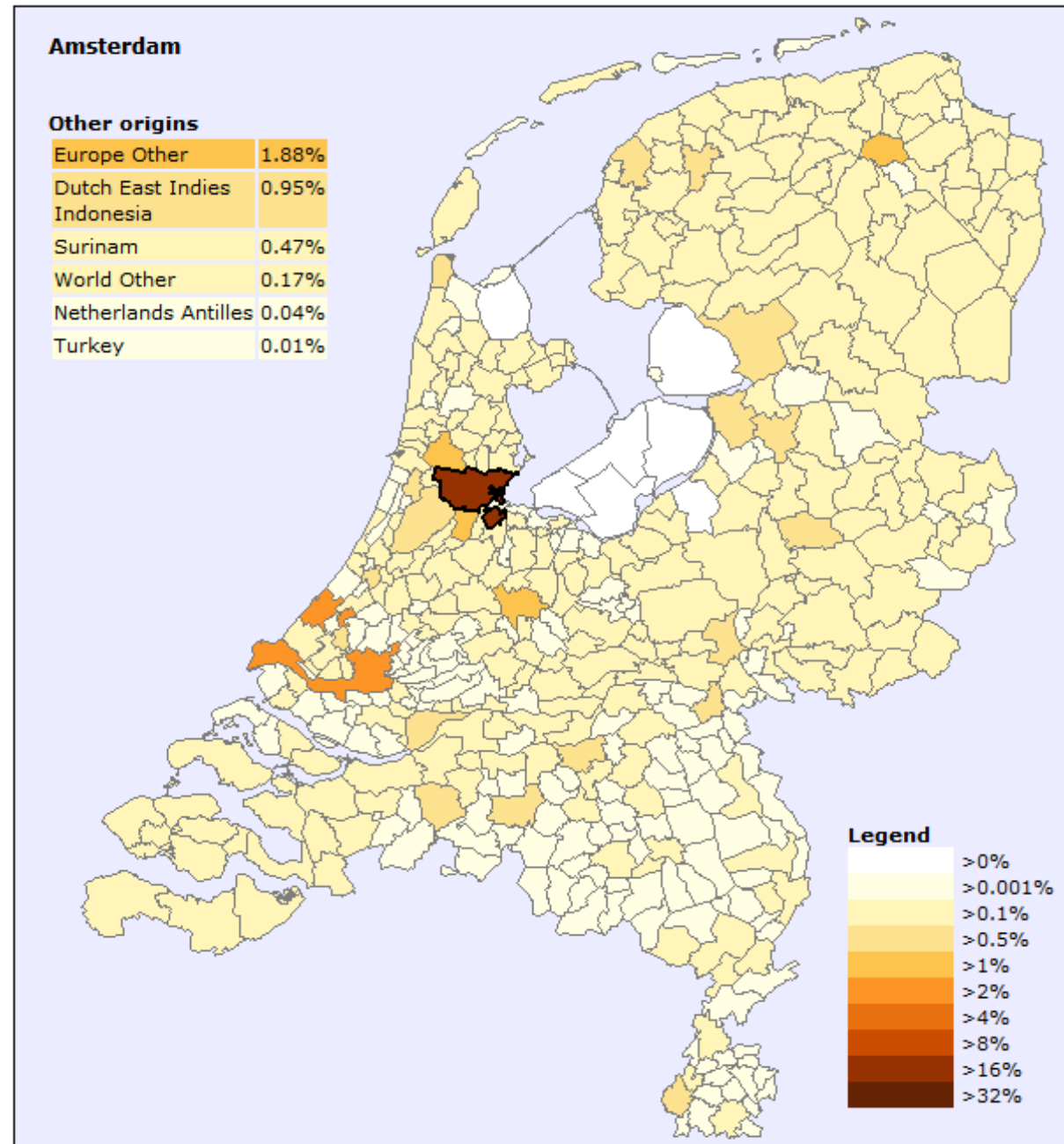
large map

KML

mouse-over shows:

- municipality
- percentage

click on municipality
for next target



decendants from some village

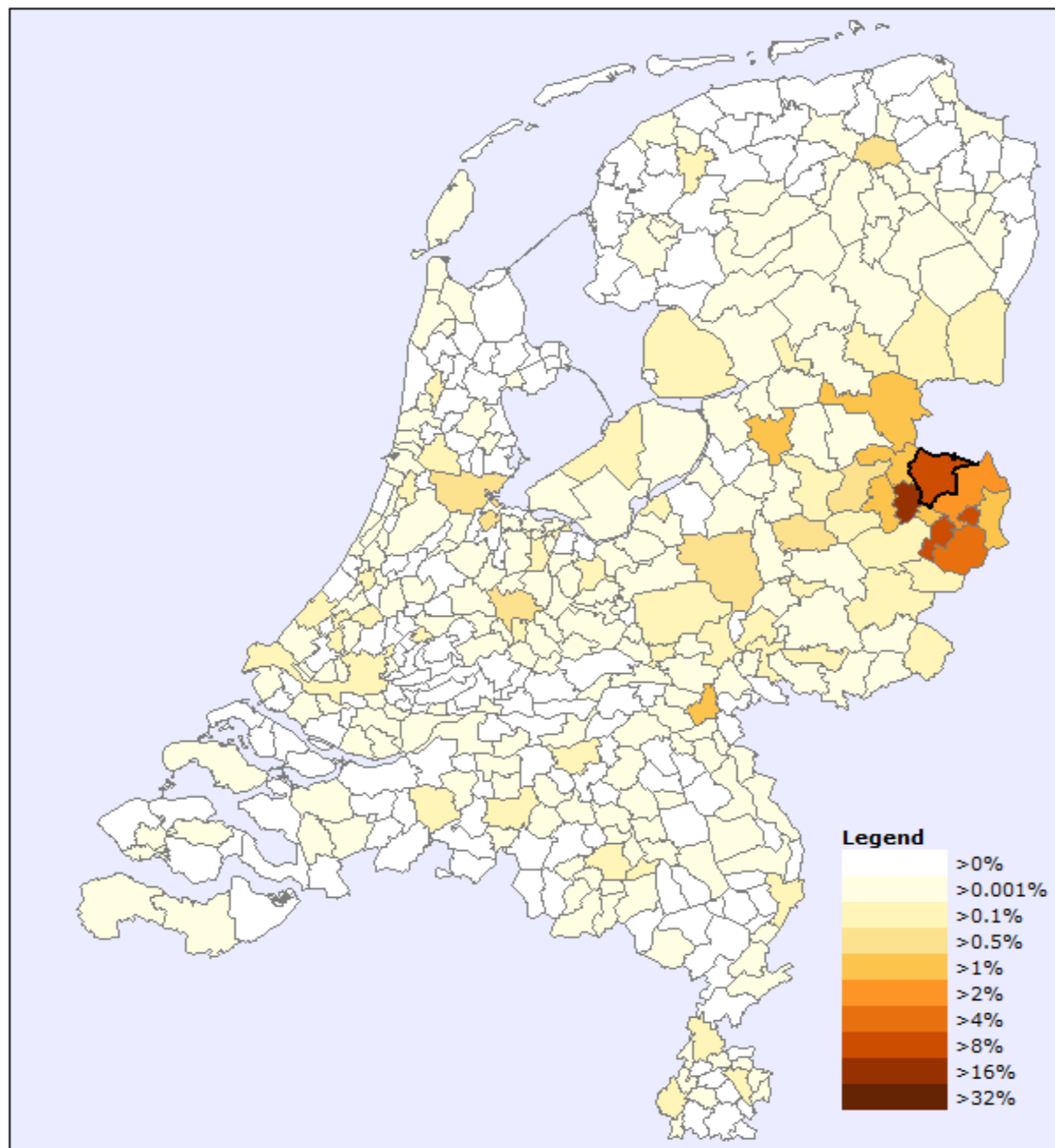
NL | EN

Tubbergen : places of residence of greatgrandchildren of persons born between 1880 en 1900 in Tubbergen

Greatgrandchildren

large map

KML



request options

- municipality (442)
- geographic area
 - region (40)
 - dialect area (24)
 - province (12)
- gender
 - both, male, female
- generation (4)
- time direction
 - origin
 - descendants (dispersion)



Choose one municipality or area:

Municipality (or click in map):

Region:

Dialect area:

Province:

Gender original resident:

Both
 Female line
 Male line

Generation:

Original (1880-1900)
 Children
 Grandchildren
 Greatgrandchildren

Type of map:

Origin map
 Descendants map

demonstration

www.meertens.knaw.nl/migmap

- Amsterdam
- Almere
- Urk
- Twente
- South-Limburg
- Sealand



animation for television

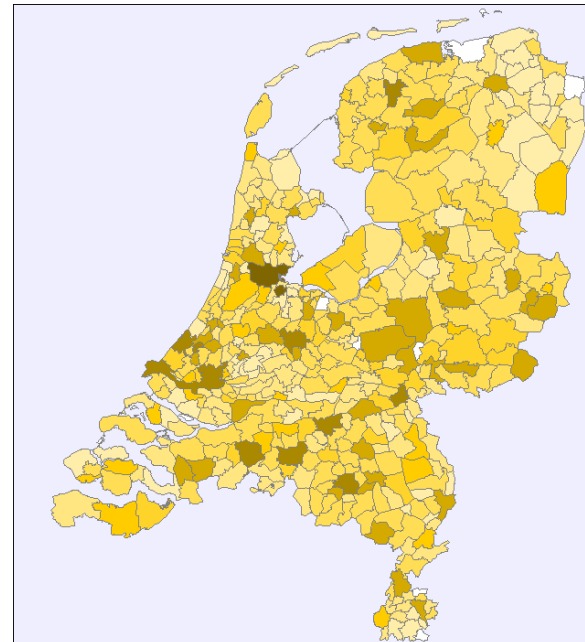
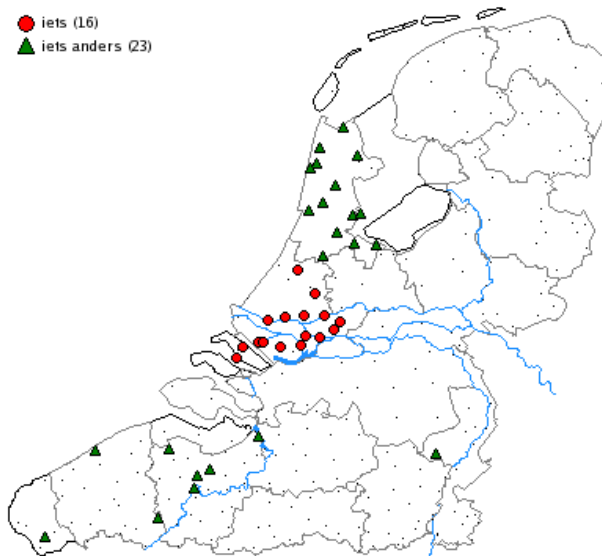
The Netherlands from above
series produced by VPRO television

special data delivery by **year of birth** within a generation,
to visualise time better

[animation](#) (unpolished preview)

mapping module Meertens Institute

- Open source (GPL), downloadable from www.meertens.knaw.nl/kaart
- Web map for the Dutch language area (The Netherlands and Flandres)
- Written in PHP + MySQL
- Functionality: points (by place codes) and areas (Dutch municipalities)
- Generates GIF/PNG/JPG or SVG. Point maps can be exported as KML
- Web service by XML-RPC



additions

- REST-interface
- Javascriptmodule for easy use in web applications not written in PHP
- GeoJSON-output for integration with OpenLayers
- CLARIN-compatible metadata (CMDI) added
- Same code base for point maps and areas maps

