

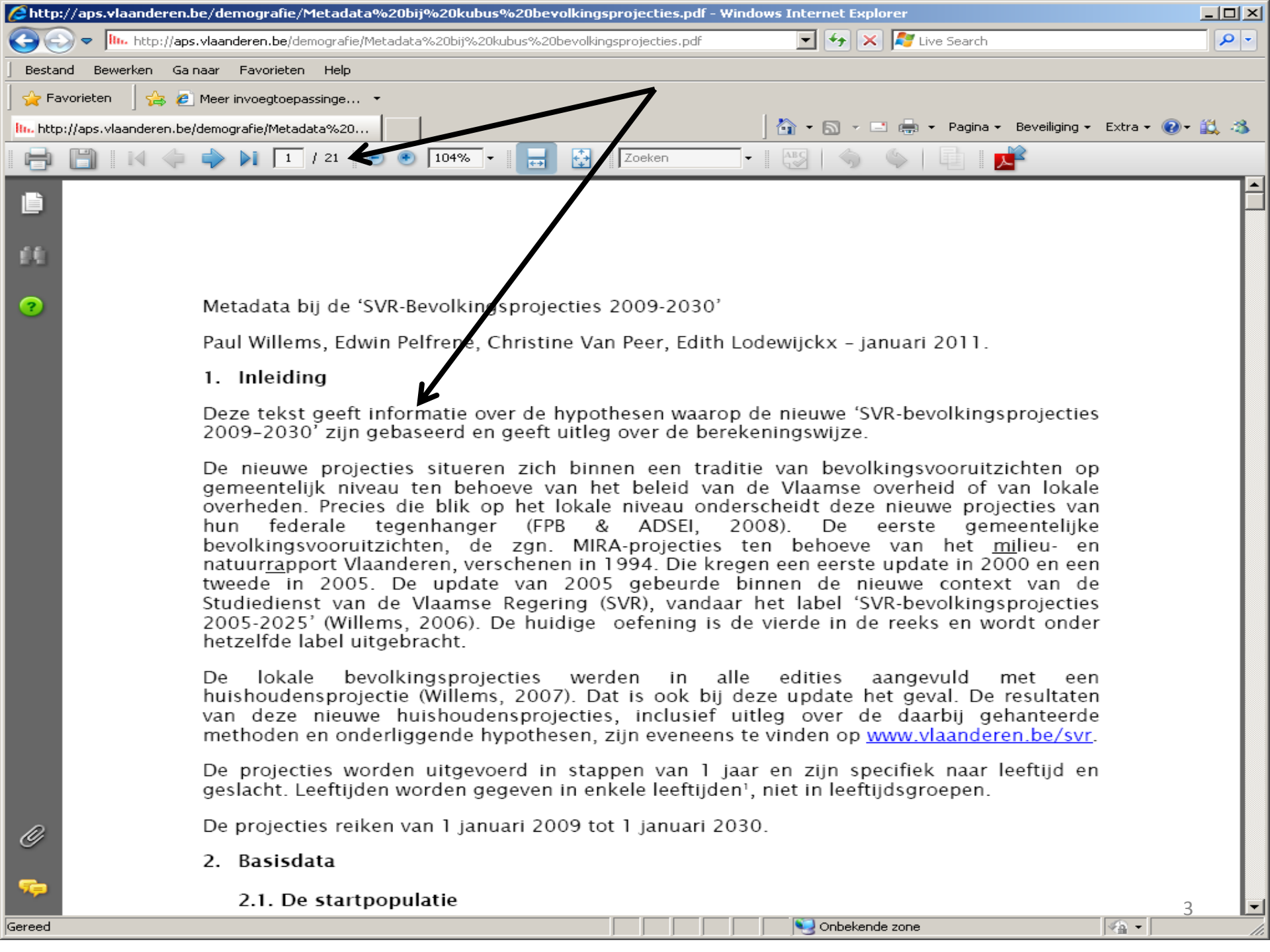
Bevolkingsprojectie

Paul Willems

SVR **PROJECTIES**
2AK 5K01EC1IE2

VAN DE BEVOLKING EN DE HUISHOUDENS VOOR VLAAMSE STEDEN EN GEMEENTEN 2009 - 2030

**Alle resultaten staan op
de
website van SVR
www.vlaanderen.be/svr**



Metadata bij de 'SVR-Bevolkingsprojecties 2009-2030'

Paul Willems, Edwin Pelfrene, Christine Van Peer, Edith Lodewijckx – januari 2011.

1. Inleiding

Deze tekst geeft informatie over de hypothesen waarop de nieuwe 'SVR-bevolkingsprojecties 2009-2030' zijn gebaseerd en geeft uitleg over de berekeningswijze.

De nieuwe projecties situeren zich binnen een traditie van bevolkingsvooruitzichten op gemeentelijk niveau ten behoeve van het beleid van de Vlaamse overheid of van lokale overheden. Precies die blik op het lokale niveau onderscheidt deze nieuwe projecties van hun federale tegenhanger (FPB & ADSEI, 2008). De eerste gemeentelijke bevolkingsvooruitzichten, de zgn. MIRA-projecties ten behoeve van het milieu- en natuurrapport Vlaanderen, verschenen in 1994. Die kregen een eerste update in 2000 en een tweede in 2005. De update van 2005 gebeurde binnen de nieuwe context van de Studiedienst van de Vlaamse Regering (SVR), vandaar het label 'SVR-bevolkingsprojecties 2005-2025' (Willems, 2006). De huidige oefening is de vierde in de reeks en wordt onder hetzelfde label uitgebracht.

De lokale bevolkingsprojecties werden in alle edities aangevuld met een huishoudensprojectie (Willems, 2007). Dat is ook bij deze update het geval. De resultaten van deze nieuwe huishoudensprojecties, inclusief uitleg over de daarbij gehanteerde methoden en onderliggende hypothesen, zijn eveneens te vinden op www.vlaanderen.be/svr.

De projecties worden uitgevoerd in stappen van 1 jaar en zijn specifiek naar leeftijd en geslacht. Leeftijden worden gegeven in enkele leeftijden', niet in leeftijdsgroepen.

De projecties reiken van 1 januari 2009 tot 1 januari 2030.

2. Basisdata

2.1. De startpopulatie

**Eind 2011 verschijnt een
SVR-Studie over de
Bevolkings- en
huishoudensprojectie
2009-2030**

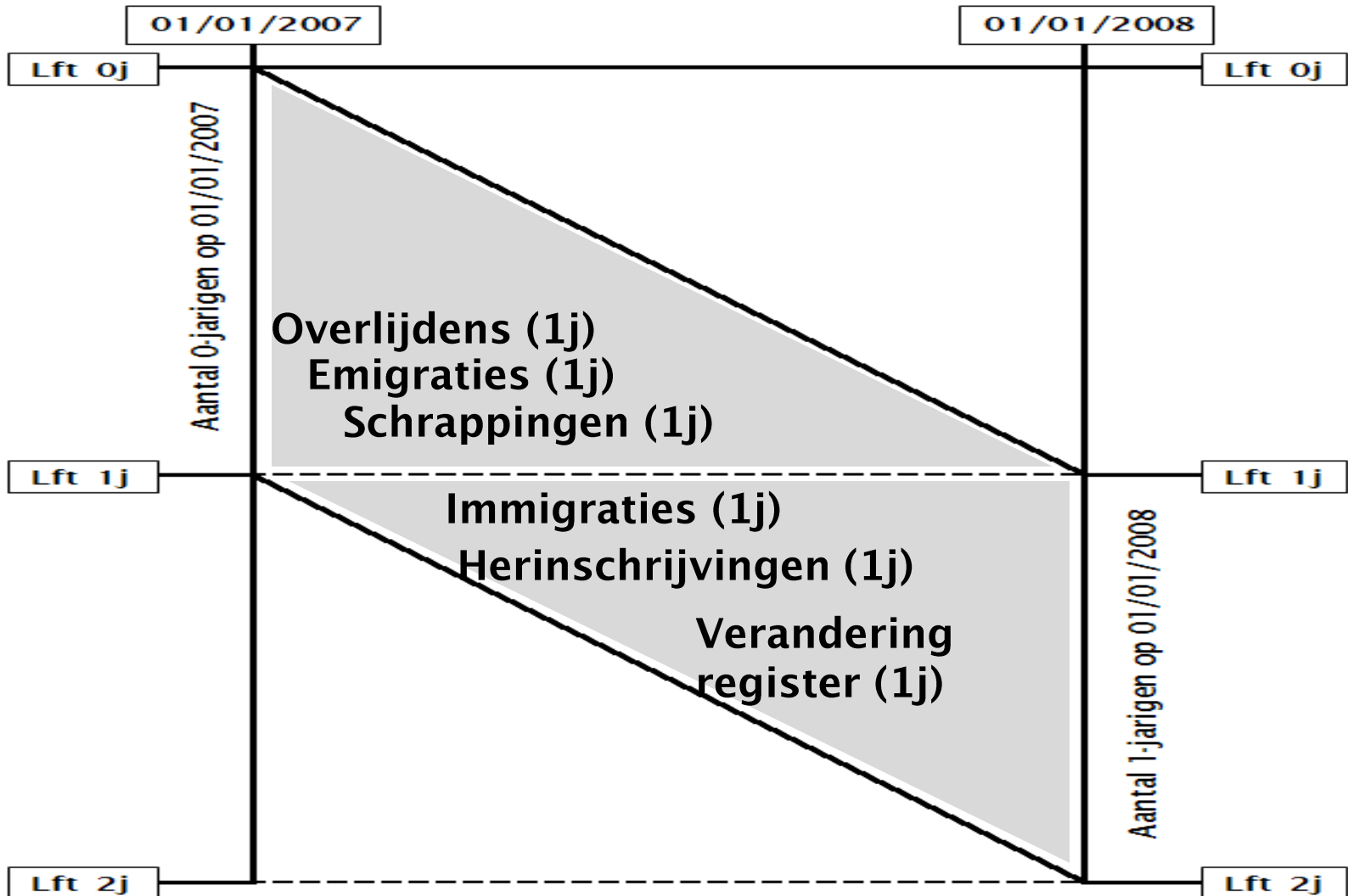
Inwoners op 1 januari van het aangegeven jaar

| | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 64.297 | 64.309 | 62.759 | 61.685 | 61.672 | 60.160 | 59.739 | 60.021 | 62.475 | 64.110 | 65.762 | 65.861 |
| 1 | 64.766 | 64.691 | 64.692 | 63.190 | 62.117 | 62.147 | 60.792 | 60.331 | 60.814 | 63.365 | 65.052 | 66.730 |
| 2 | 65.717 | 65.099 | 65.009 | 64.950 | 63.437 | 62.448 | 62.572 | 61.222 | 60.860 | 61.506 | 64.201 | 65.658 |
| 3 | 69.014 | 65.836 | 65.301 | 65.295 | 65.129 | 63.764 | 62.862 | 63.107 | 61.680 | 61.500 | 62.189 | 64.859 |
| 4 | 71.213 | 69.125 | 66.053 | 65.562 | 65.393 | 65.542 | 64.108 | 63.233 | 63.499 | 62.319 | 62.042 | 62.864 |
| 5 | 72.014 | 71.362 | 69.295 | 66.236 | 65.660 | 65.719 | 65.862 | 64.535 | 63.643 | 64.118 | 62.864 | 62.622 |
| 6 | 71.310 | 72.126 | 71.555 | 69.517 | 66.327 | 65.907 | 66.023 | 66.212 | 64.896 | 64.172 | 64.587 | 63.477 |
| 7 | 69.055 | 71.458 | 72.270 | 71.745 | 69.581 | 66.657 | 66.237 | 66.354 | 66.587 | 65.398 | 64.581 | 65.083 |
| 8 | 68.437 | 69.152 | 71.602 | 72.439 | 71.818 | 69.891 | 66.978 | 66.579 | 66.773 | 67.053 | 65.901 | 65.107 |
| 9 | 67.515 | 68.532 | 69.331 | 71.808 | 72.501 | 72.047 | 70.166 | 67.313 | 66.887 | 67.182 | 67.511 | 66.337 |
| 10 | 67.538 | 67.563 | 68.691 | 69.493 | 71.887 | 72.790 | 72.353 | 70.486 | 67.604 | 67.333 | 67.630 | 67.978 |
| 11 | 66.089 | 67.626 | 67.681 | 68.841 | 69.566 | 72.129 | 73.126 | 72.652 | 70.780 | 68.064 | 67.706 | 68.068 |
| 12 | 67.559 | 66.141 | 67.727 | 67.825 | 68.903 | 69.769 | 72.435 | 73.443 | 72.888 | 71.215 | 68.483 | 68.232 |
| 13 | 69.647 | 67.613 | 66.231 | 67.827 | 67.898 | 69.136 | 69.984 | 72.753 | 73.738 | 73.317 | 71.588 | 68.857 |
| 14 | 71.036 | 69.676 | 67.693 | 66.354 | 67.931 | 68.120 | 69.392 | 70.261 | 72.993 | 74.115 | 73.710 | 71.930 |
| 15 | 73.210 | 71.074 | 69.712 | 67.792 | 66.407 | 68.084 | 68.423 | 69.650 | 70.492 | 73.401 | 74.364 | 74.147 |
| 16 | 73.294 | 73.296 | 71.136 | 69.803 | 67.851 | 66.620 | 68.417 | 68.715 | 69.992 | 70.933 | 73.733 | 74.795 |
| 17 | 73.577 | 73.451 | 73.500 | 71.300 | 69.985 | 68.135 | 67.018 | 68.812 | 69.073 | 70.514 | 71.365 | 74.186 |
| 18 | 72.639 | 73.708 | 73.654 | 73.758 | 71.538 | 70.312 | 68.575 | 67.517 | 69.222 | 69.556 | 71.006 | 71.907 |
| 19 | 71.677 | 72.776 | 73.978 | 73.844 | 73.946 | 71.909 | 70.623 | 68.941 | 67.822 | 69.728 | 70.096 | 71.531 |
| 20 | 70.198 | 71.763 | 73.015 | 74.190 | 74.050 | 74.225 | 72.448 | 71.178 | 69.473 | 68.447 | 70.412 | 70.771 |
| 21 | 68.611 | 70.320 | 72.060 | 73.243 | 74.438 | 74.446 | 74.775 | 72.898 | 71.711 | 70.090 | 69.317 | 71.131 |
| 22 | 71.800 | 68.725 | 70.593 | 72.325 | 73.585 | 74.878 | 74.913 | 75.276 | 73.489 | 72.459 | 70.913 | 70.157 |
| 23 | 74.568 | 71.881 | 68.975 | 70.727 | 72.595 | 74.017 | 75.319 | 75.490 | 75.732 | 74.198 | 73.172 | 71.853 |
| 24 | 78.125 | 74.653 | 72.061 | 69.069 | 70.877 | 72.916 | 74.462 | 75.504 | 75.805 | 76.291 | 74.902 | 74.030 |
| 25 | 81.810 | 78.133 | 74.486 | 72.074 | 69.117 | 70.998 | 73.085 | 74.612 | 75.848 | 76.325 | 76.963 | 75.526 |
| 26 | 83.835 | 81.817 | 78.224 | 74.614 | 72.134 | 69.306 | 71.420 | 73.296 | 74.874 | 76.414 | 77.046 | 77.743 |
| 27 | 83.913 | 83.972 | 81.983 | 78.336 | 74.749 | 72.500 | 69.832 | 71.740 | 73.693 | 75.485 | 77.128 | 77.940 |
| 28 | 84.907 | 83.961 | 84.015 | 82.193 | 78.417 | 75.075 | 72.952 | 70.126 | 72.199 | 74.288 | 76.265 | 78.053 |
| 29 | 87.355 | 85.046 | 84.255 | 84.335 | 82.319 | 78.814 | 75.524 | 73.262 | 70.643 | 72.912 | 75.132 | 77.159 |

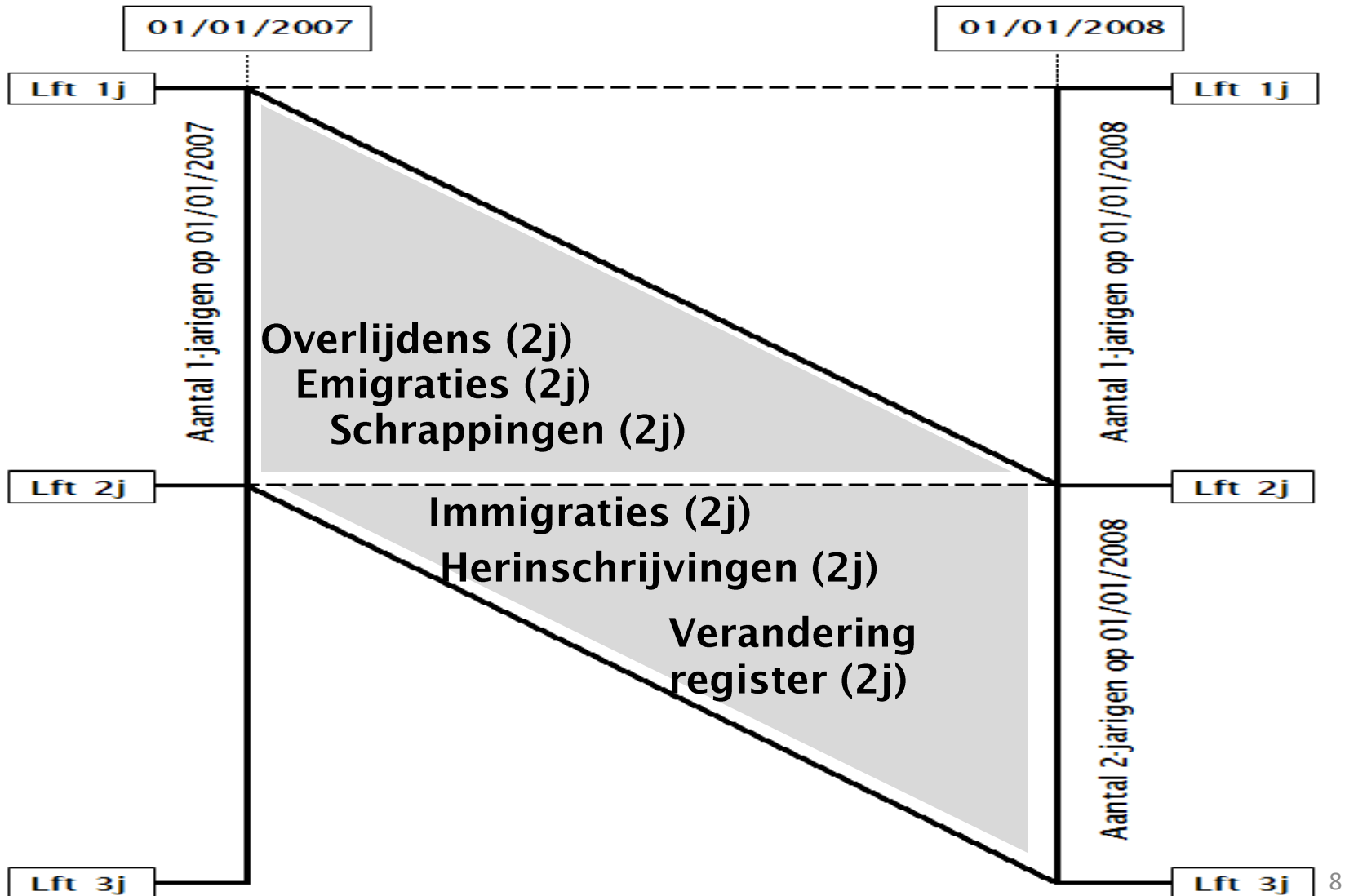
Inwoners op 1 januari van het aangegeven jaar

| | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 64.297 | 64.309 | 62.759 | 61.685 | 61.672 | 60.160 | 59.739 | 60.021 | 62.475 | 64.110 | 65.762 | 65.861 |
| 1 | 64.766 | 64.691 | 64.692 | 63.190 | 62.117 | 62.147 | 60.792 | 60.331 | 60.814 | 63.365 | 65.052 | 66.730 |
| 2 | 65.717 | 65.099 | 65.009 | 64.950 | 63.437 | 62.448 | 62.572 | 61.222 | 60.860 | 61.506 | 64.201 | 65.658 |
| 3 | 69.014 | 65.836 | 65.301 | 65.295 | 65.129 | 63.764 | 62.862 | 63.107 | 61.680 | 61.500 | 62.189 | 64.859 |
| 4 | 71.213 | 69.125 | 66.053 | 65.562 | 65.393 | 65.542 | 64.108 | 63.233 | 63.499 | 62.319 | 62.042 | 62.864 |
| 5 | 72.014 | 71.362 | 69.295 | 66.236 | 65.660 | 65.719 | 65.862 | 64.535 | 63.643 | 64.118 | 62.864 | 62.622 |
| 6 | 71.310 | 72.126 | 71.555 | 69.517 | 66.327 | 65.907 | 66.023 | 66.212 | 64.896 | 64.172 | 64.587 | 63.477 |
| 7 | 69.055 | 71.458 | 72.270 | 71.745 | 69.581 | 66.657 | 66.237 | 66.354 | 66.587 | 65.398 | 64.581 | 65.083 |
| 8 | 68.437 | 69.152 | 71.602 | 72.439 | 71.818 | 69.891 | 66.978 | 66.579 | 66.773 | 67.053 | 65.901 | 65.107 |
| 9 | 67.515 | 68.532 | 69.331 | 71.808 | 72.501 | 72.047 | 70.166 | 67.313 | 66.887 | 67.182 | 67.511 | 66.337 |
| 10 | 67.538 | 67.563 | 68.691 | 69.493 | 71.887 | 72.790 | 72.353 | 70.486 | 67.604 | 67.333 | 67.630 | 67.978 |
| 11 | 66.089 | 67.626 | 67.681 | 68.841 | 69.566 | 72.129 | 73.126 | 72.652 | 70.780 | 68.064 | 67.706 | 68.068 |
| 12 | 67.559 | 66.141 | 67.727 | 67.825 | 68.903 | 69.769 | 72.435 | 73.443 | 72.888 | 71.215 | 68.483 | 68.232 |
| 13 | 69.647 | 67.613 | 66.231 | 67.827 | 67.898 | 69.136 | 69.984 | 72.753 | 73.738 | 73.317 | 71.588 | 68.857 |
| 14 | 71.036 | 69.676 | 67.693 | 66.354 | 67.931 | 68.120 | 69.392 | 70.261 | 72.993 | 74.115 | 73.710 | 71.930 |
| 15 | 73.210 | 71.074 | 69.712 | 67.792 | 66.407 | 68.084 | 68.423 | 69.650 | 70.492 | 73.401 | 74.364 | 74.147 |
| 16 | 73.294 | 73.296 | 71.136 | 69.803 | 67.851 | 66.620 | 68.417 | 68.715 | 69.992 | 70.933 | 73.733 | 74.795 |
| 17 | 73.577 | 73.451 | 73.500 | 71.300 | 69.985 | 68.135 | 67.018 | 68.812 | 69.073 | 70.514 | 71.365 | 74.186 |
| 18 | 72.639 | 73.708 | 73.654 | 73.758 | 71.538 | 70.312 | 68.575 | 67.517 | 69.222 | 69.556 | 71.006 | 71.907 |
| 19 | 71.677 | 72.776 | 73.978 | 73.844 | 73.946 | 71.909 | 70.623 | 68.941 | 67.822 | 69.728 | 70.096 | 71.531 |
| 20 | 70.198 | 71.763 | 73.015 | 74.190 | 74.050 | 74.225 | 72.448 | 71.178 | 69.473 | 68.447 | 70.412 | 70.771 |
| 21 | 68.611 | 70.320 | 72.060 | 73.243 | 74.438 | 74.446 | 74.775 | 72.898 | 71.711 | 70.090 | 69.317 | 71.131 |
| 22 | 71.800 | 68.725 | 70.593 | 72.325 | 73.585 | 74.878 | 74.913 | 75.276 | 73.489 | 72.459 | 70.913 | 70.157 |
| 23 | 74.568 | 71.881 | 68.975 | 70.727 | 72.595 | 74.017 | 75.319 | 75.490 | 75.732 | 74.198 | 73.172 | 71.853 |
| 24 | 78.125 | 74.653 | 72.061 | 69.069 | 70.877 | 72.916 | 74.462 | 75.504 | 75.805 | 76.291 | 74.902 | 74.030 |
| 25 | 81.810 | 78.133 | 74.486 | 72.074 | 69.117 | 70.998 | 73.085 | 74.612 | 75.848 | 76.325 | 76.963 | 75.526 |
| 26 | 83.835 | 81.817 | 78.224 | 74.614 | 72.134 | 69.306 | 71.420 | 73.296 | 74.874 | 76.414 | 77.046 | 77.743 |
| 27 | 83.913 | 83.972 | 81.983 | 78.336 | 74.749 | 72.500 | 69.832 | 71.740 | 73.693 | 75.485 | 77.128 | 77.940 |
| 28 | 84.907 | 83.961 | 84.015 | 82.193 | 78.417 | 75.075 | 72.952 | 70.126 | 72.199 | 74.288 | 76.265 | 78.053 |
| 29 | 87.355 | 85.046 | 84.255 | 84.335 | 82.319 | 78.814 | 75.524 | 73.262 | 70.643 | 72.912 | 75.132 | 77.159 |

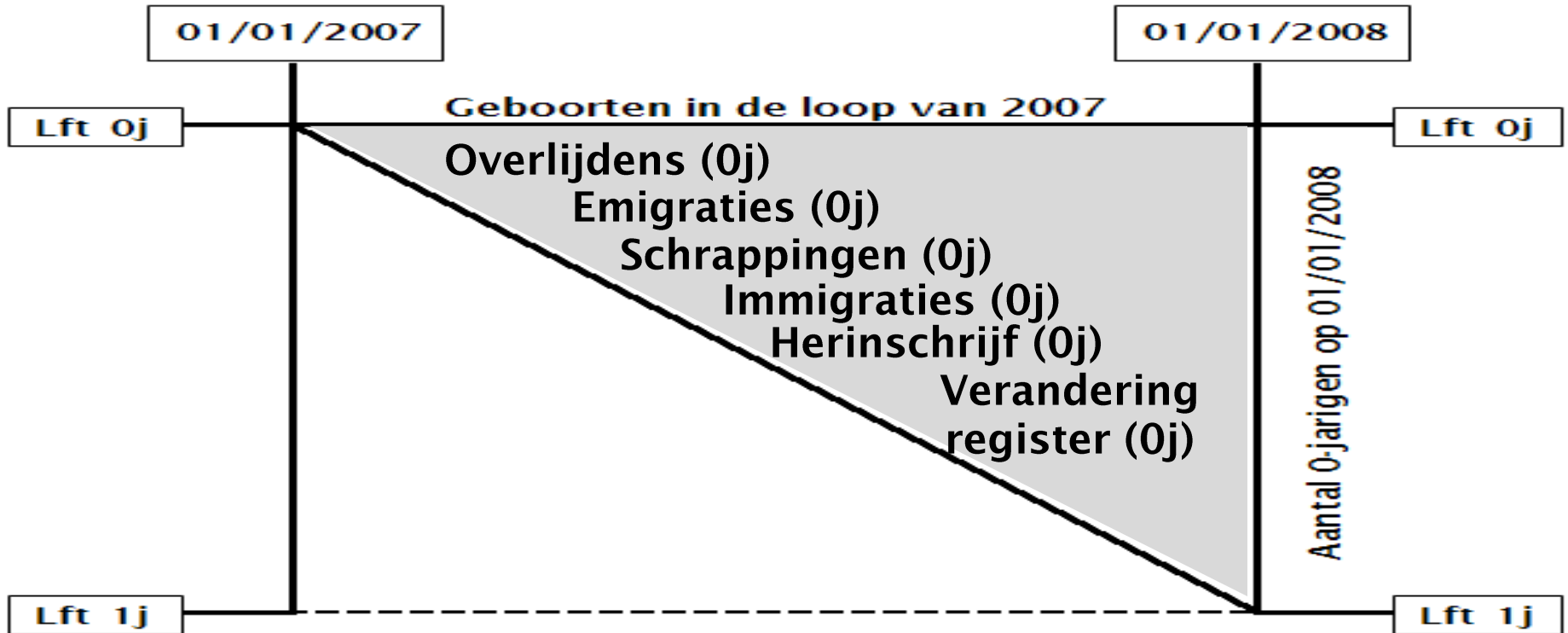
Lexis - diagram



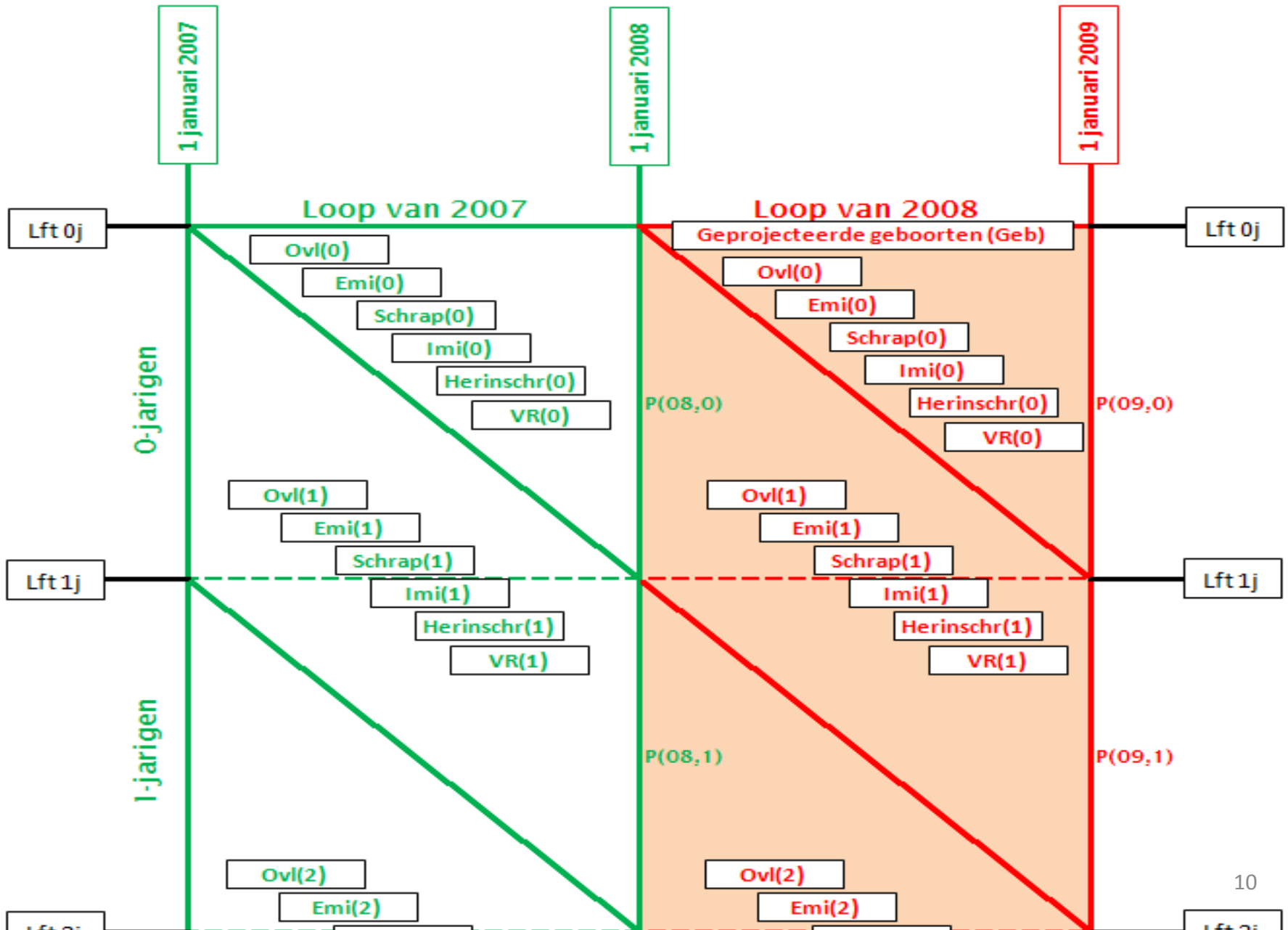
Lexis - diagram



Lexis - diagram



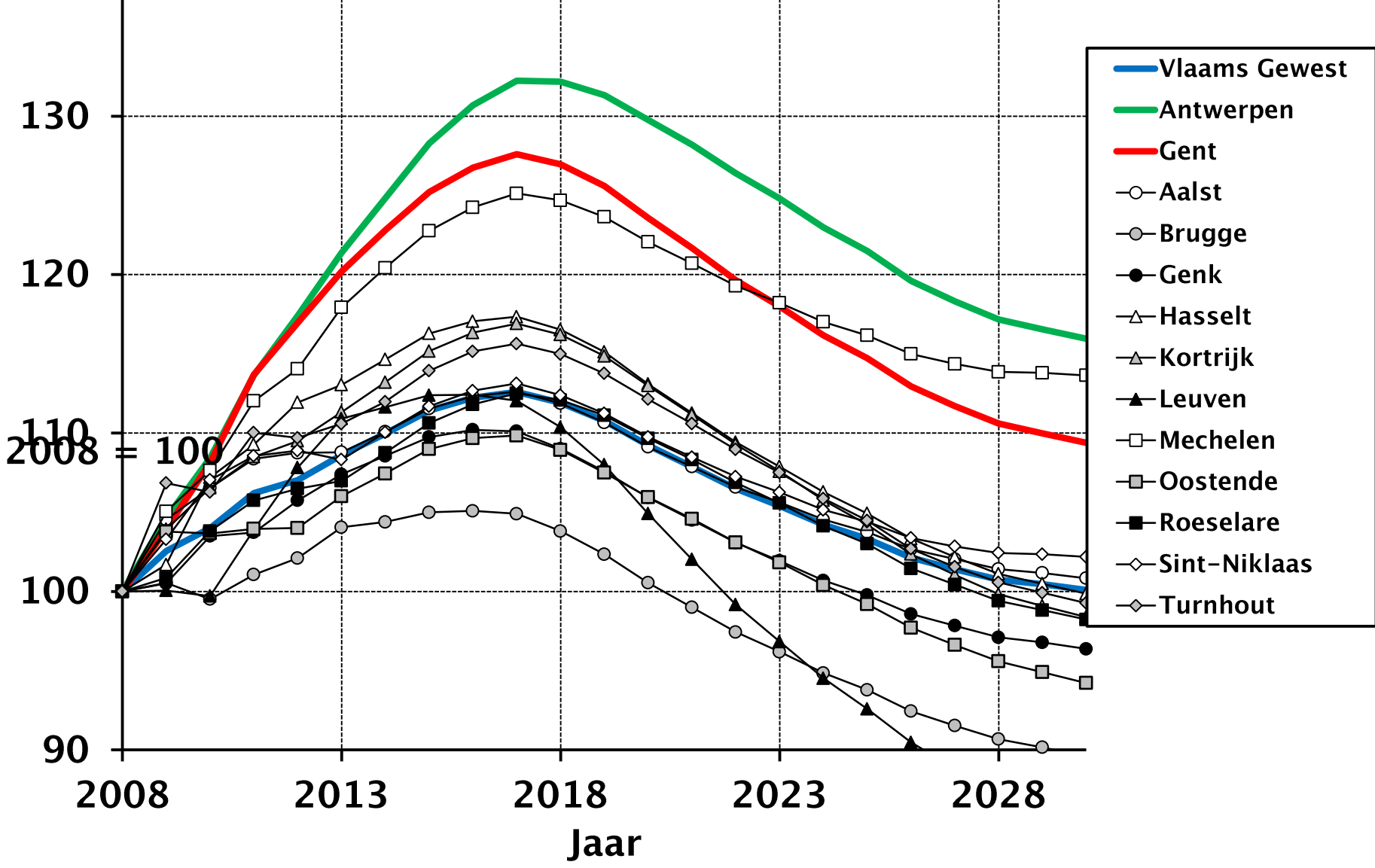
Projecties in een Lexis - diagram



Meerdere handicaps

- **Projecties gemaakt in 2010**
- **Laatst bekende stand van de bevolking naar leeftijd & geslacht = 1/1/2008**
- **Laatst bekende gebeurtenissen = geboorten, overlijdens en migraties in de loop van 2007**
- **Geboorten: IKAROS-databank (Kind & Gezin), aantal levendgeboren kinderen in 2008, in 2009 en van januari 2010 tot eind augustus 2010.**
- **Maar de noemers voor geboortecijfers van 2009 en 2010 moesten worden geschat.**

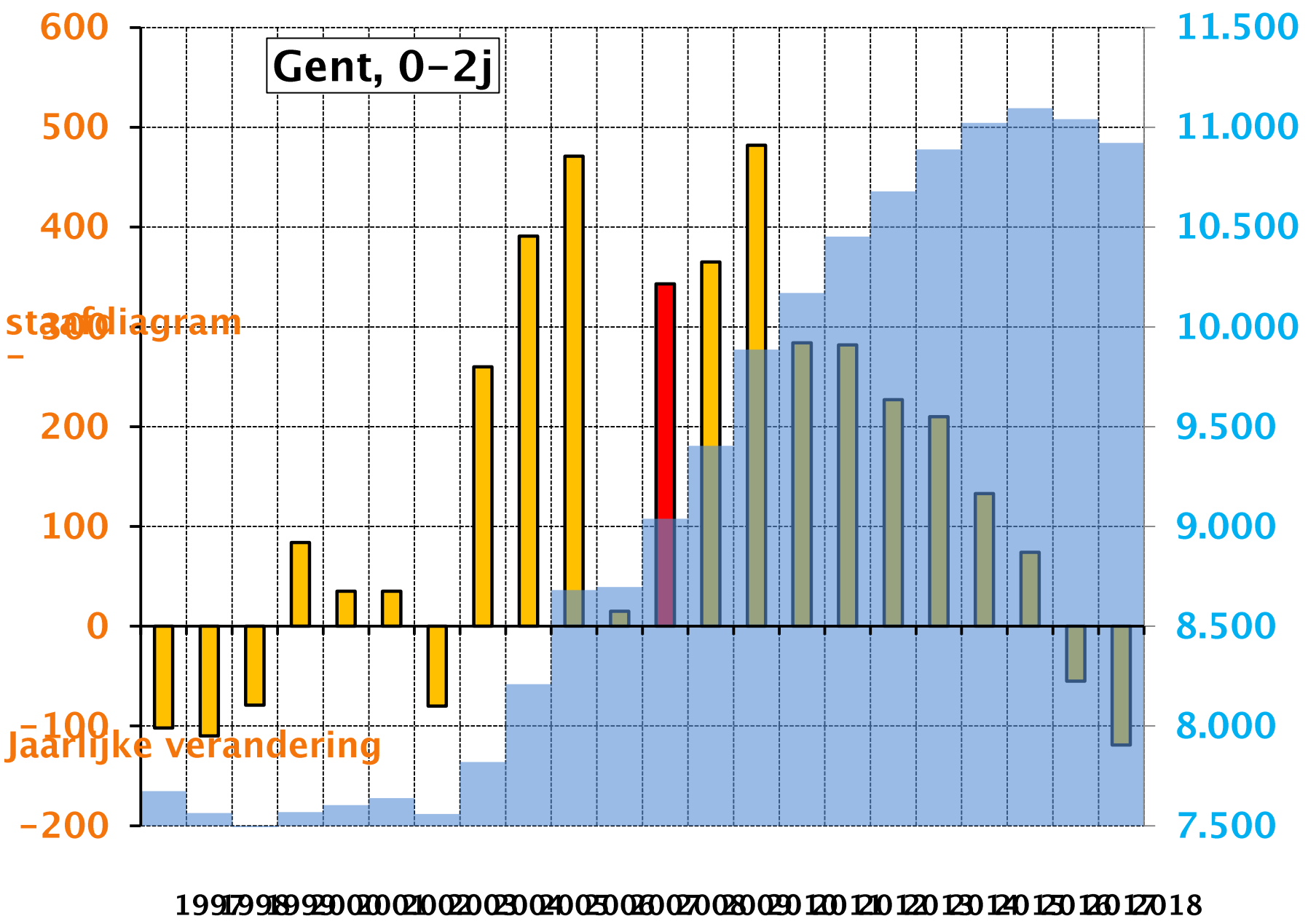
Geprojecteerde groei aantal 0-2j



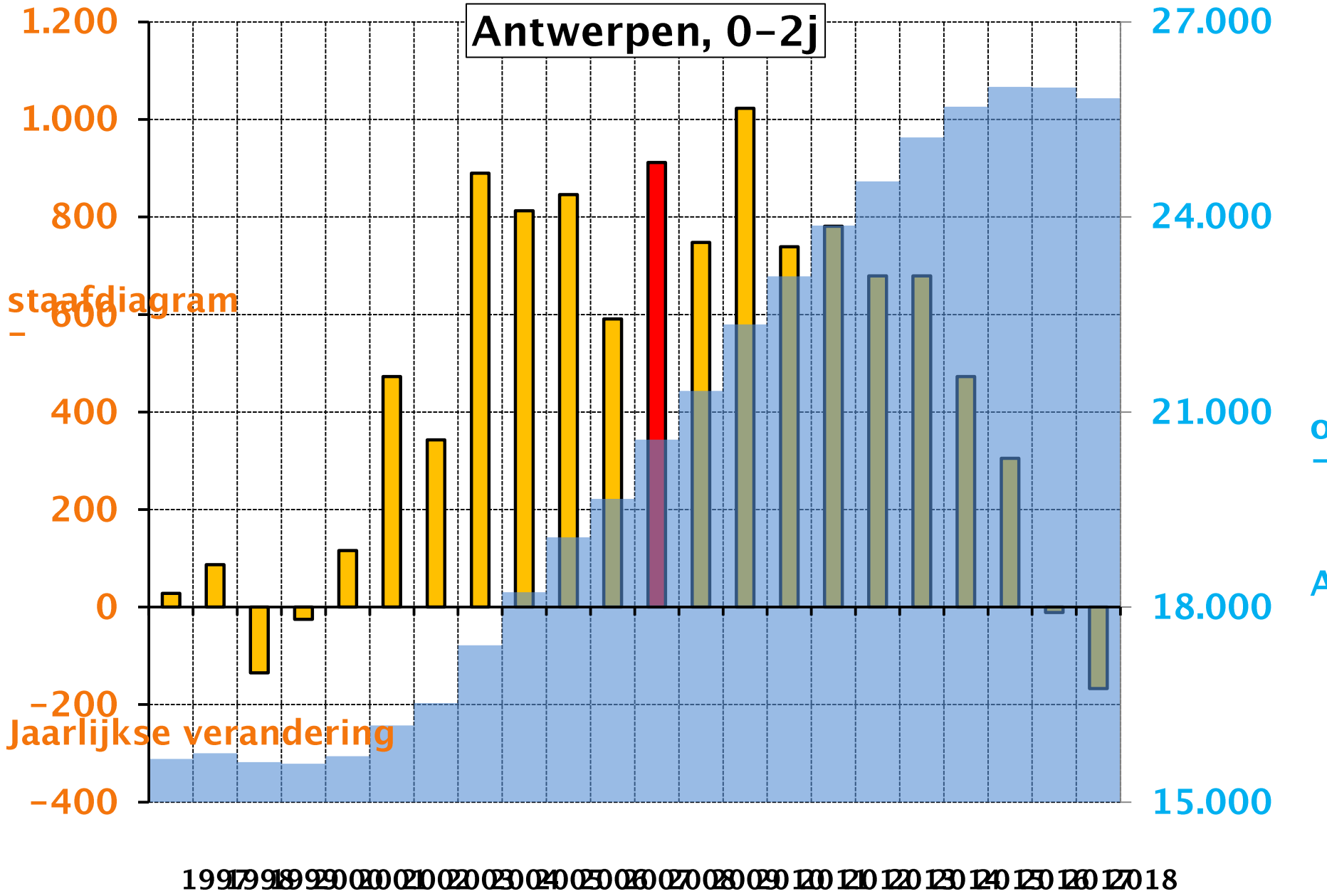
Gent, 0-2j

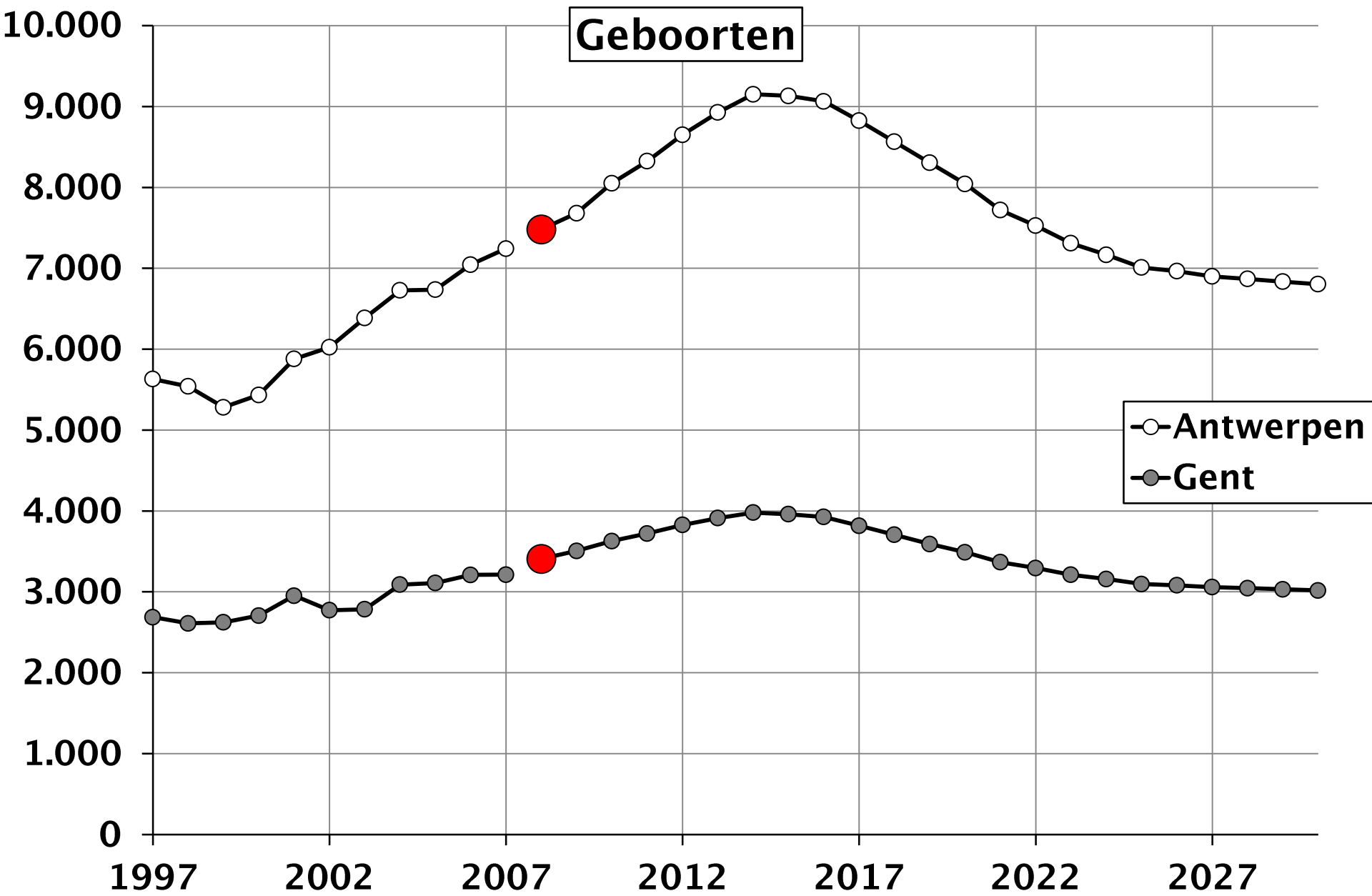
staafdiagram

Jaarlijkse verandering

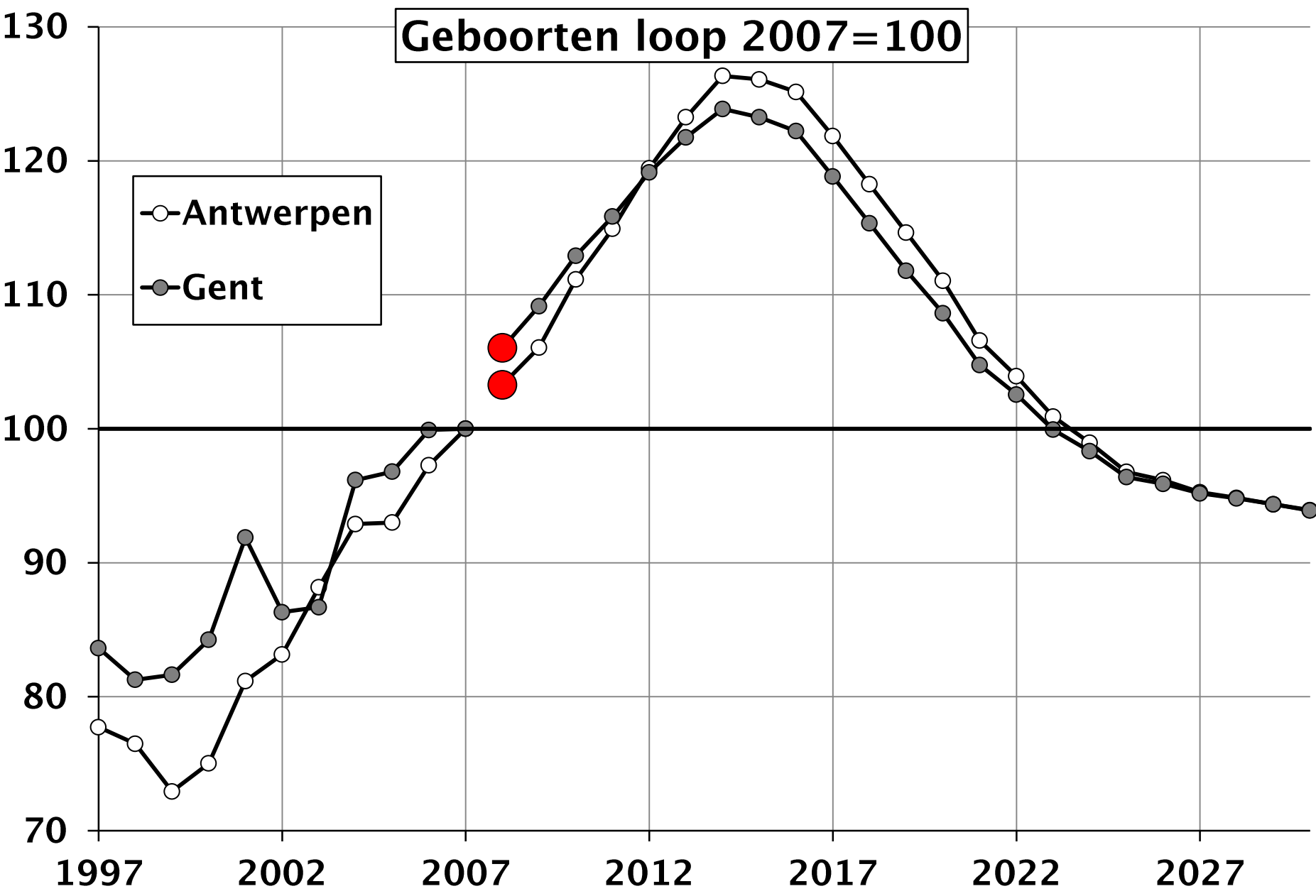


Antwerpen, 0-2j

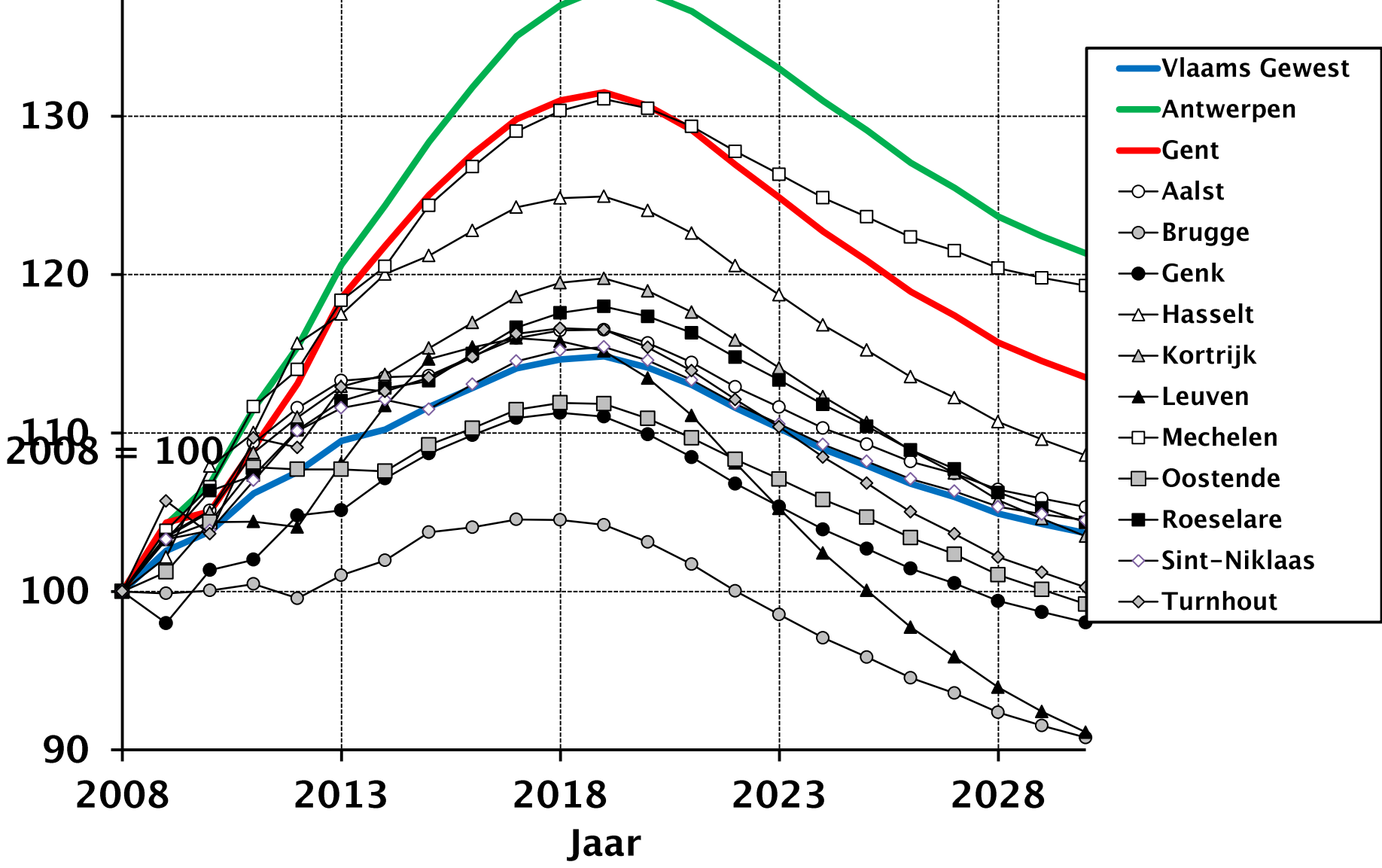




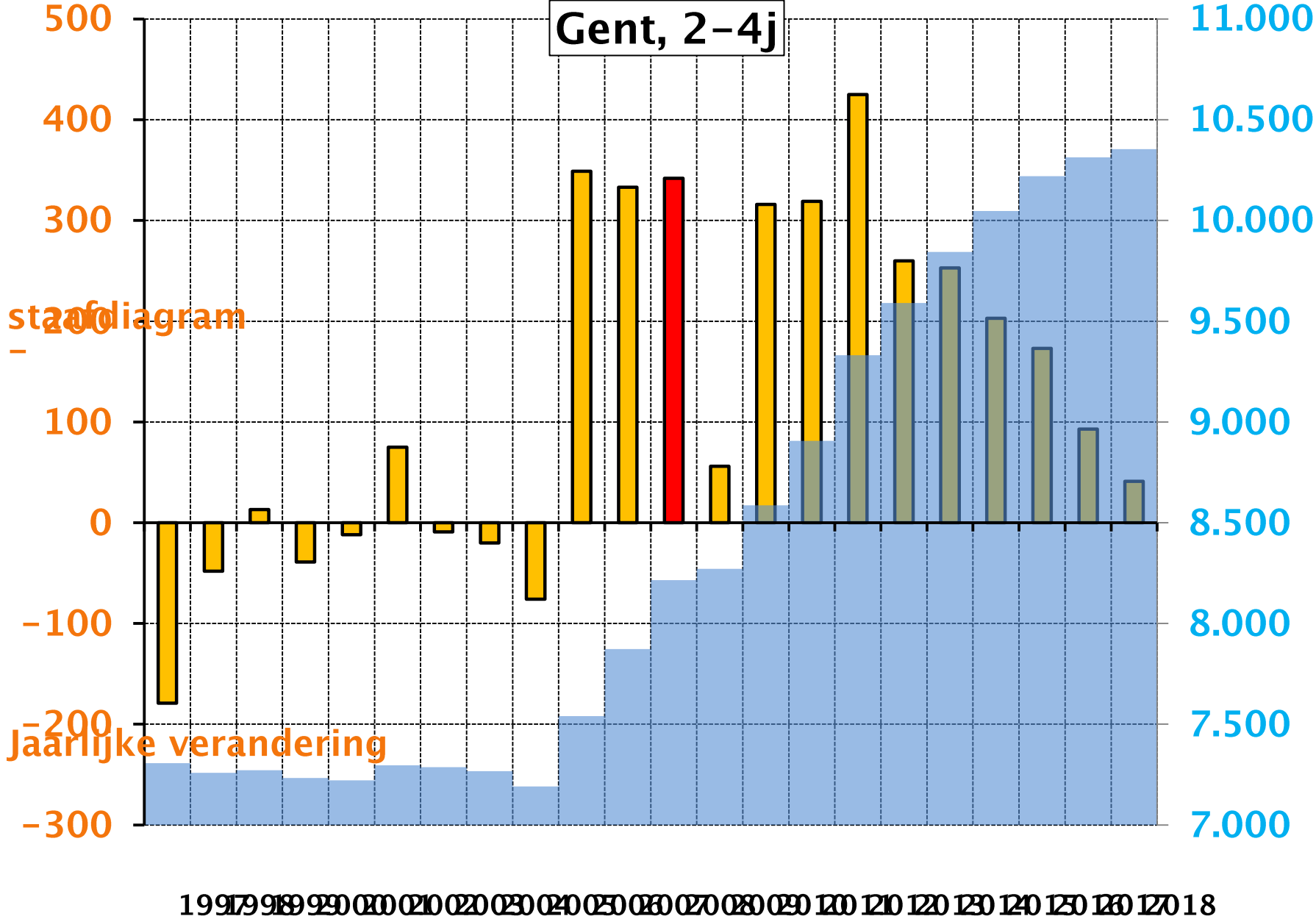
Geboorten loop 2007=100



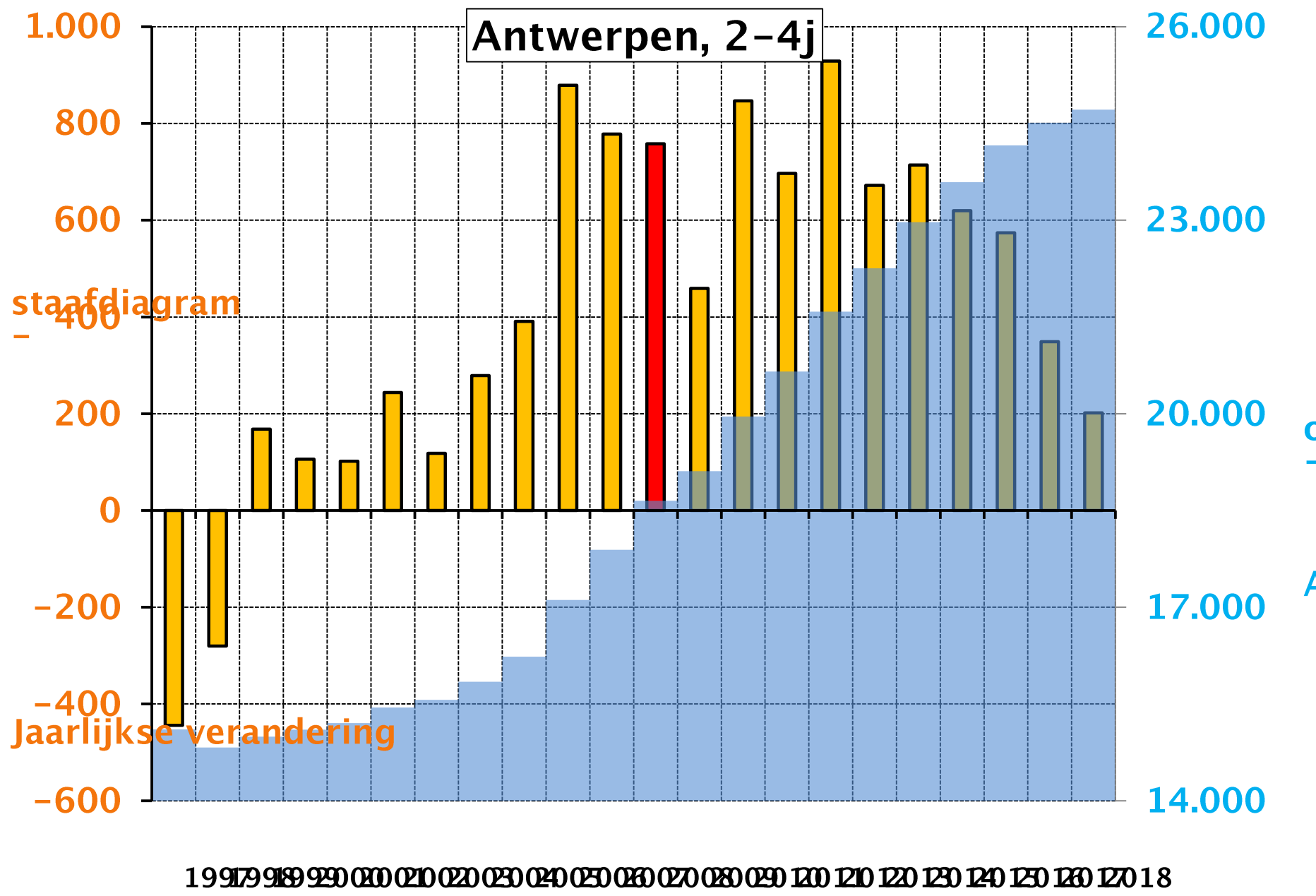
Geprojecteerde groei aantal 2-4j



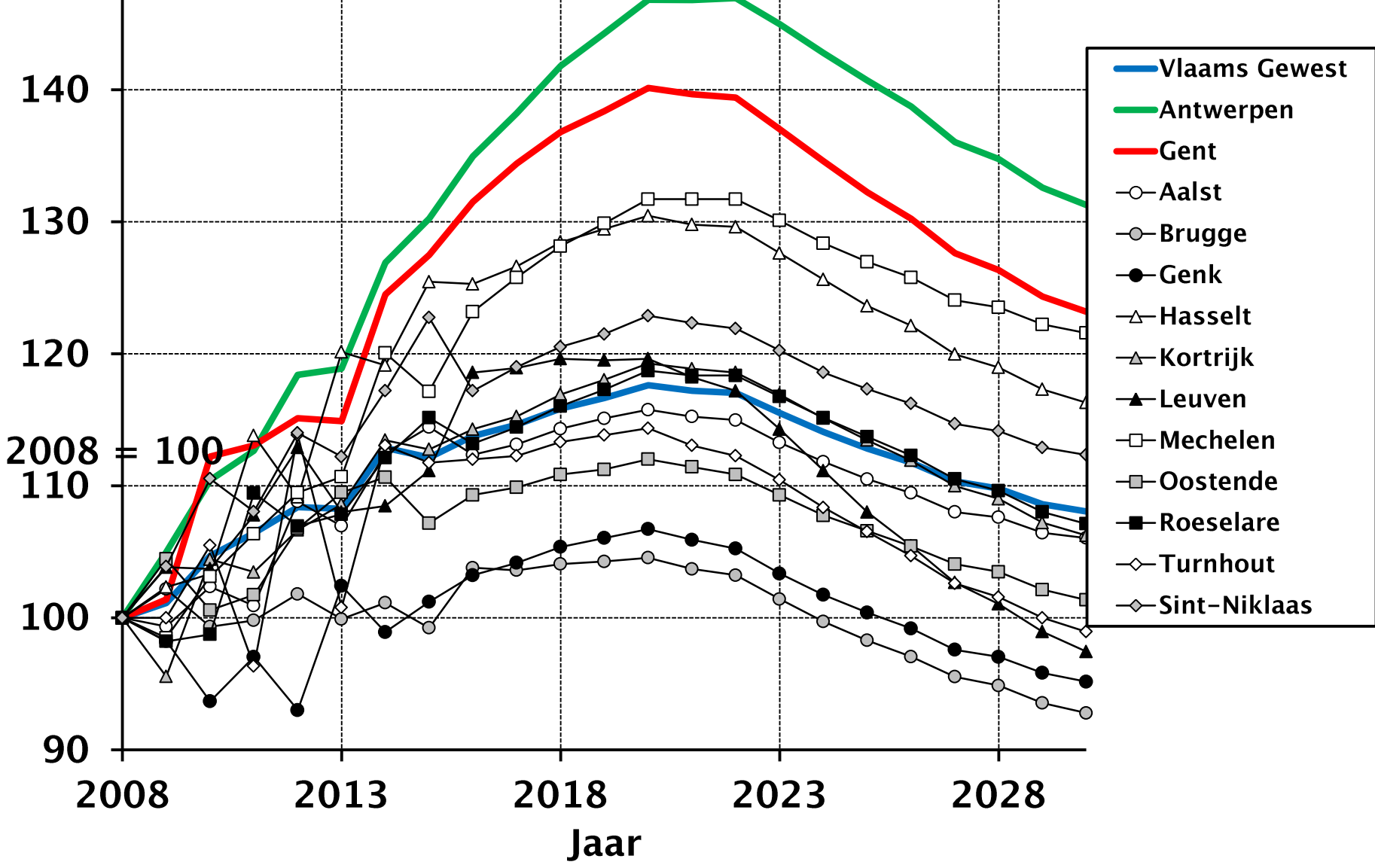
Gent, 2-4j



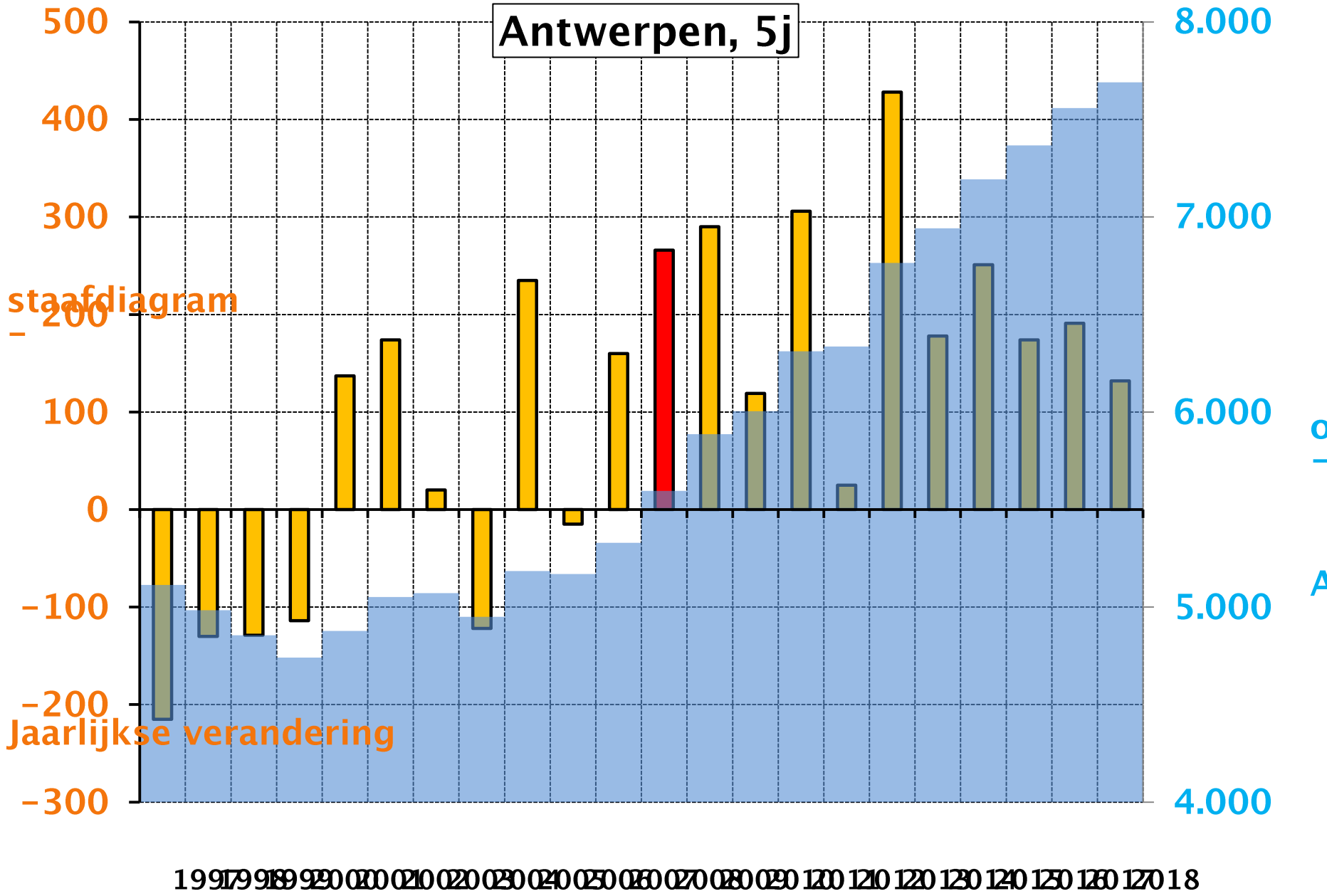
Antwerpen, 2-4j



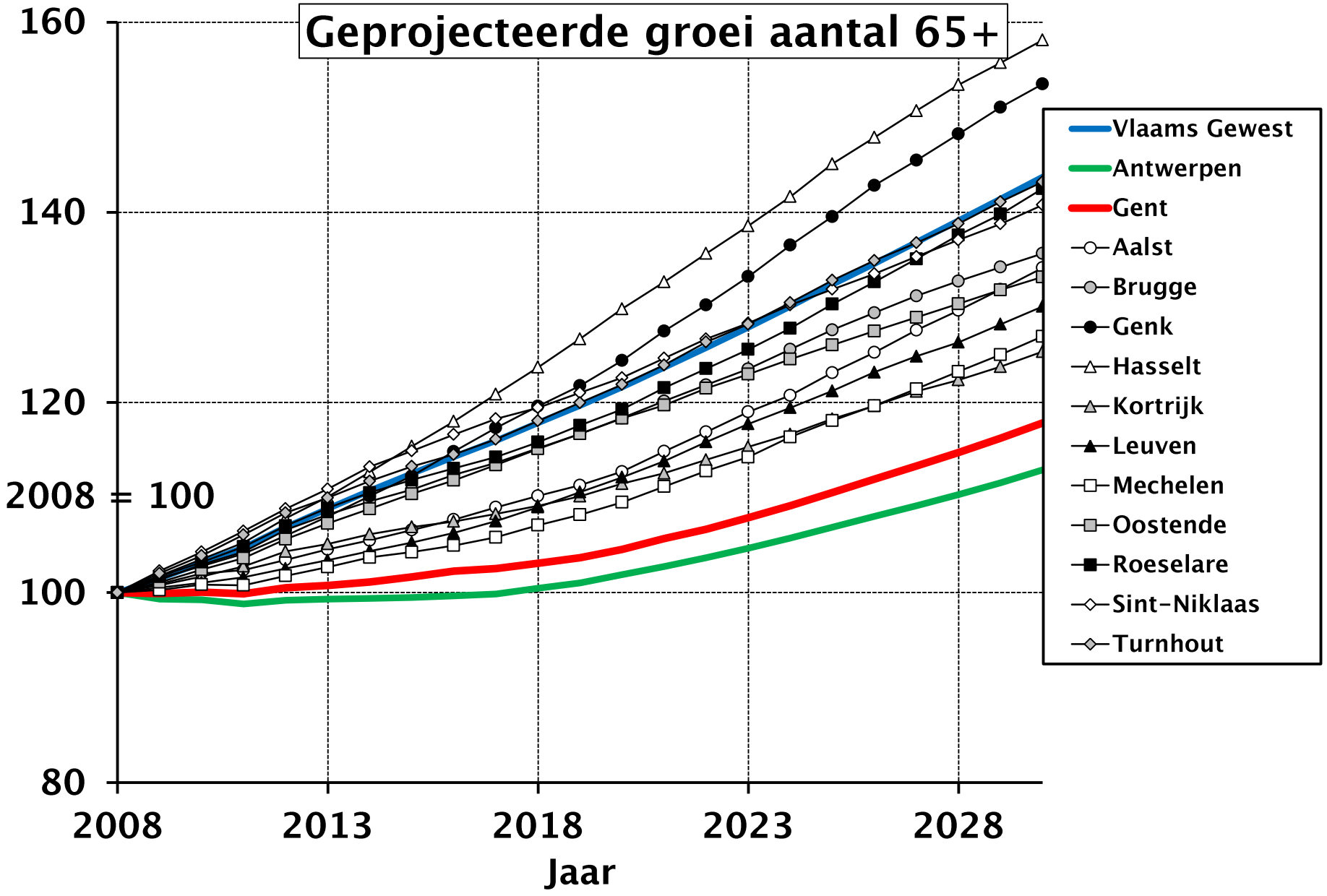
Geprojecteerde groei aantal 5j



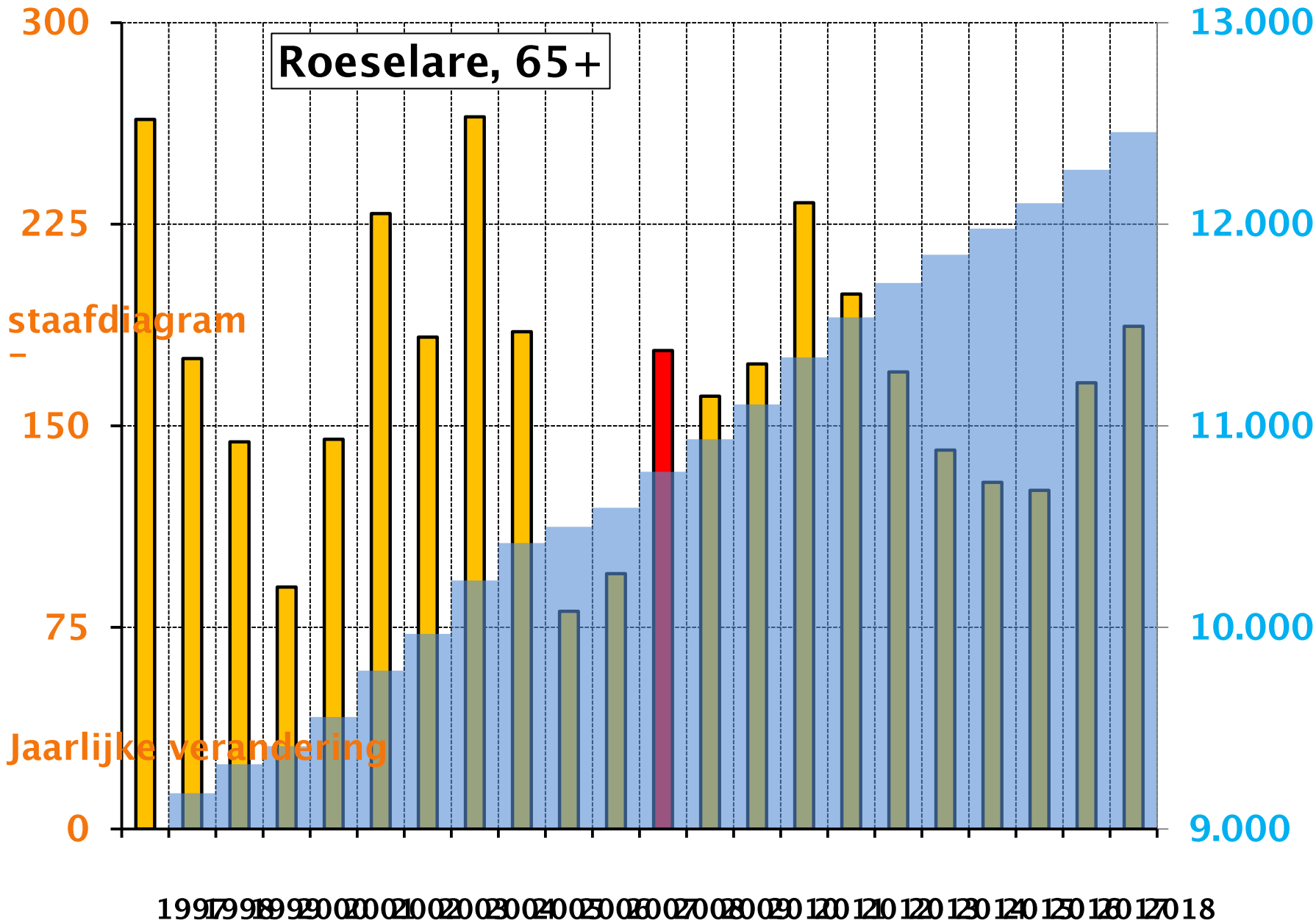
Antwerpen, 5j



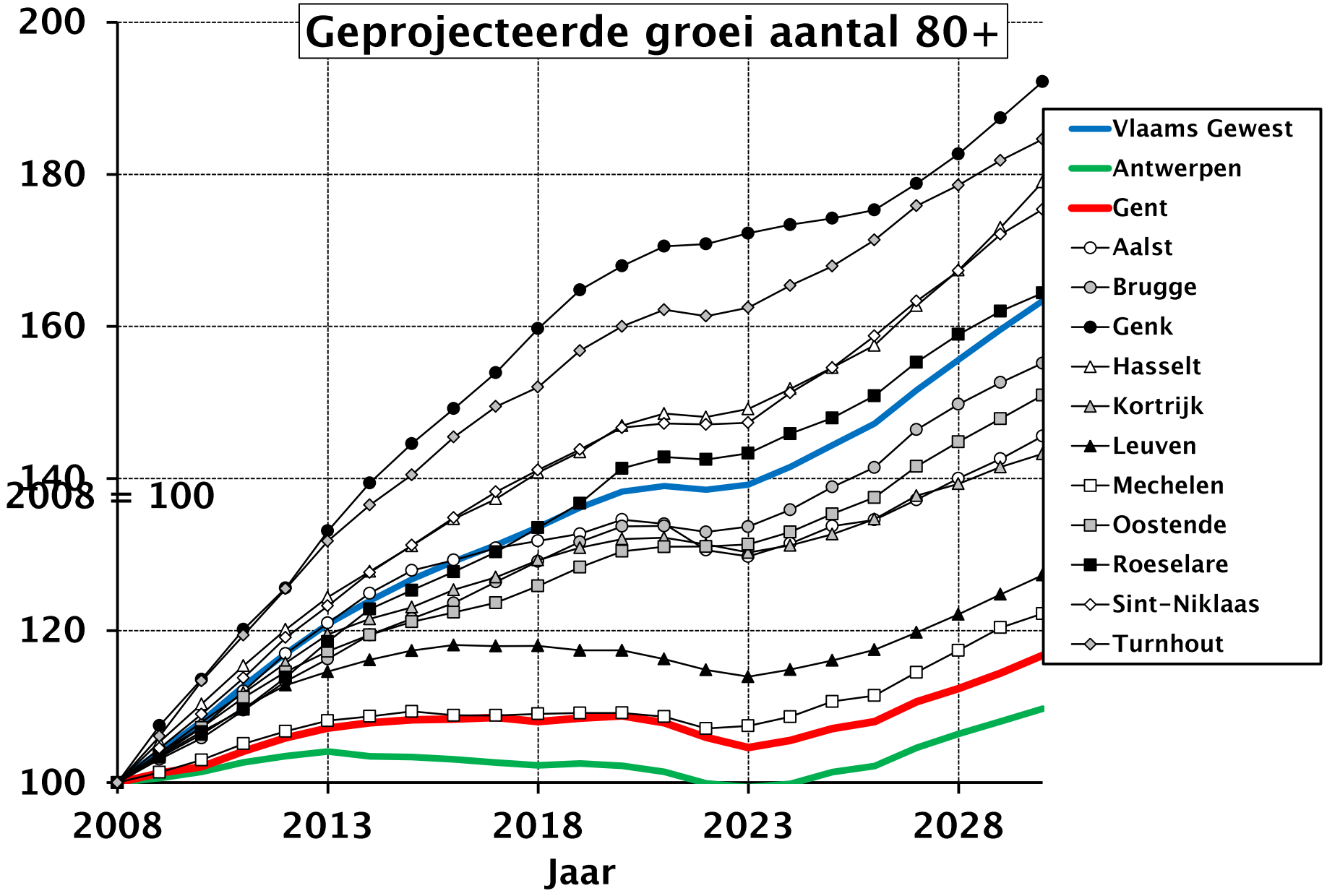
Geprojecteerde groei aantal 65+



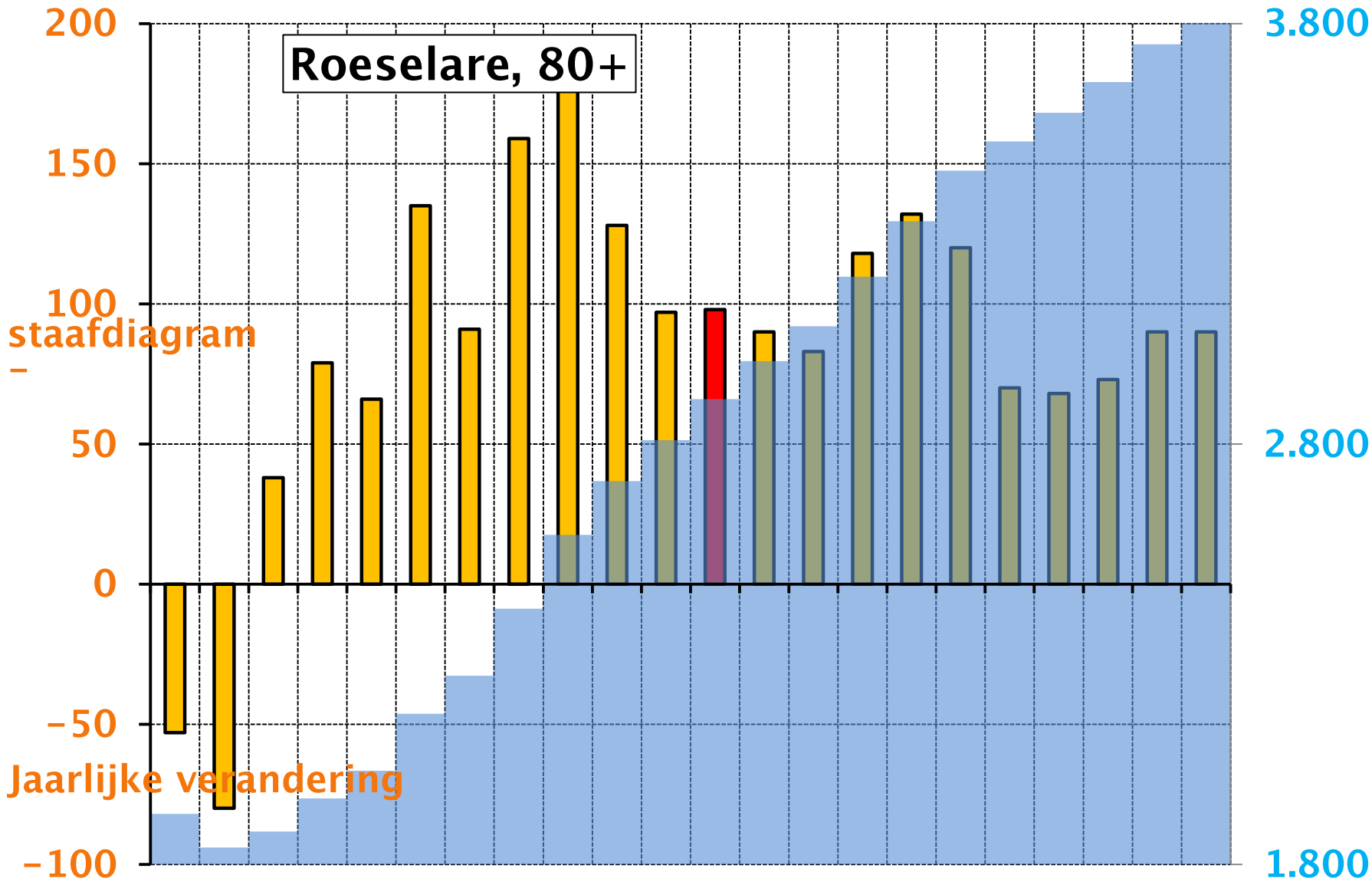
Roeselare, 65+



Geprojecteerde groei aantal 80+



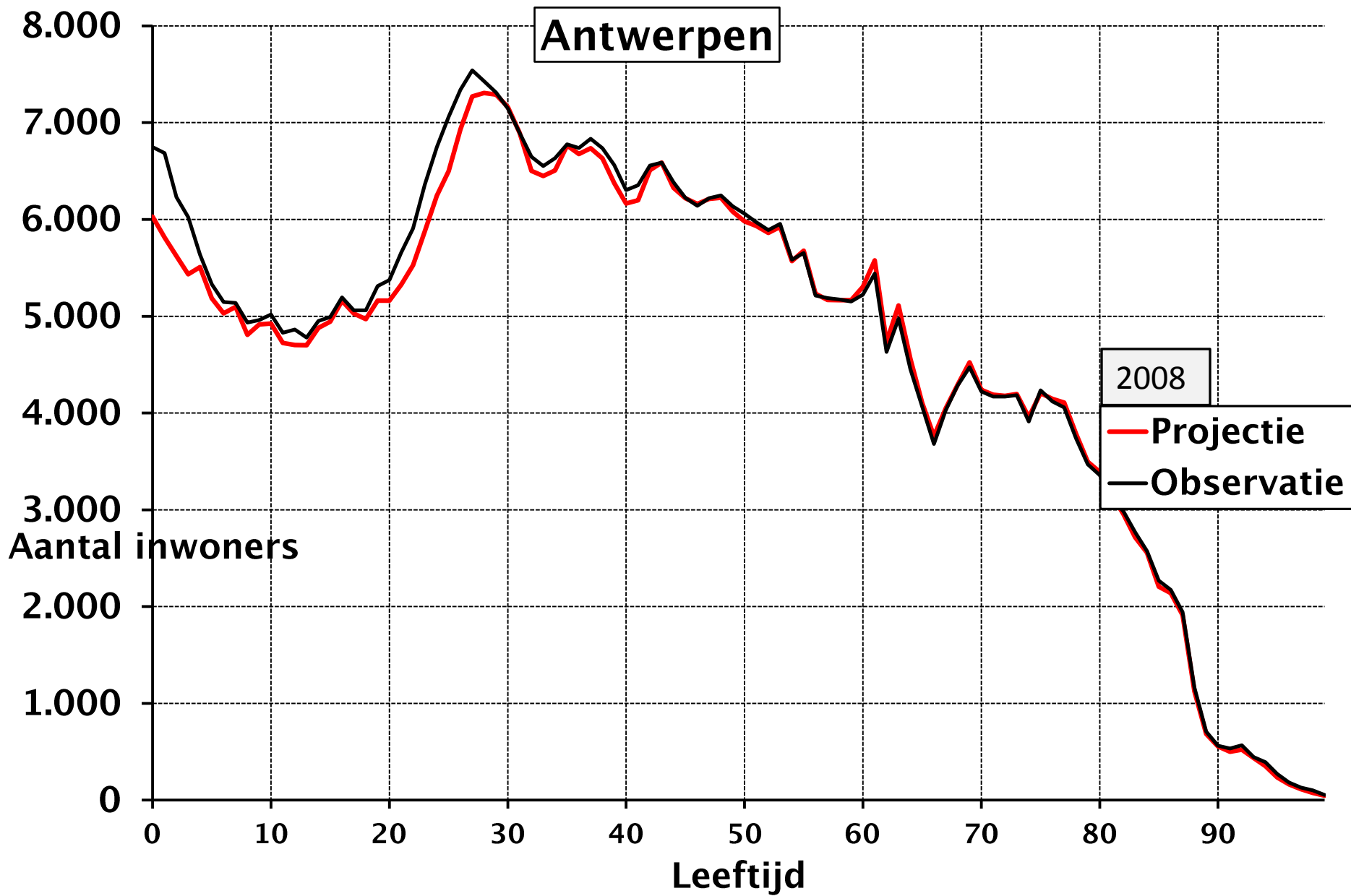
Roeselare, 80+

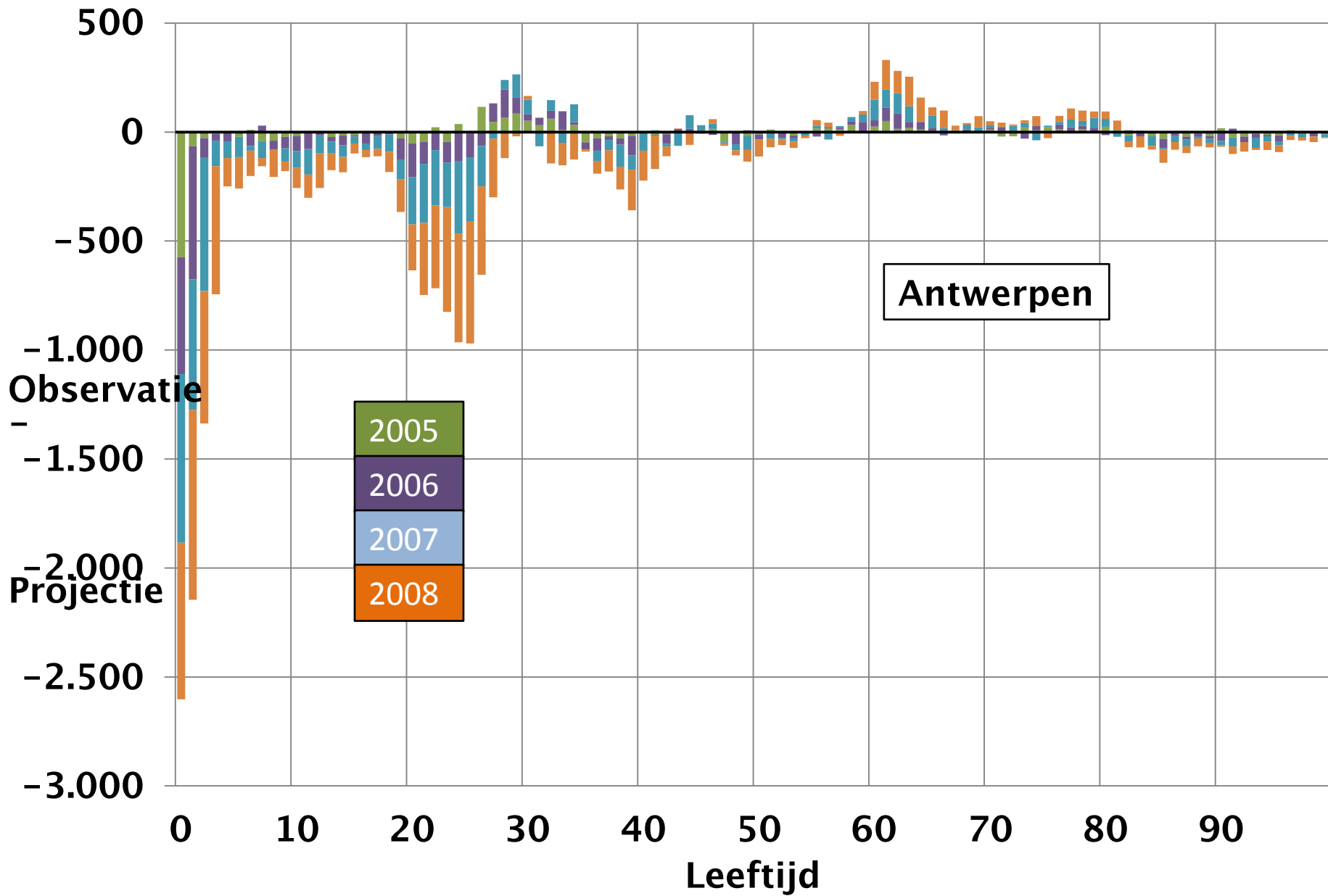


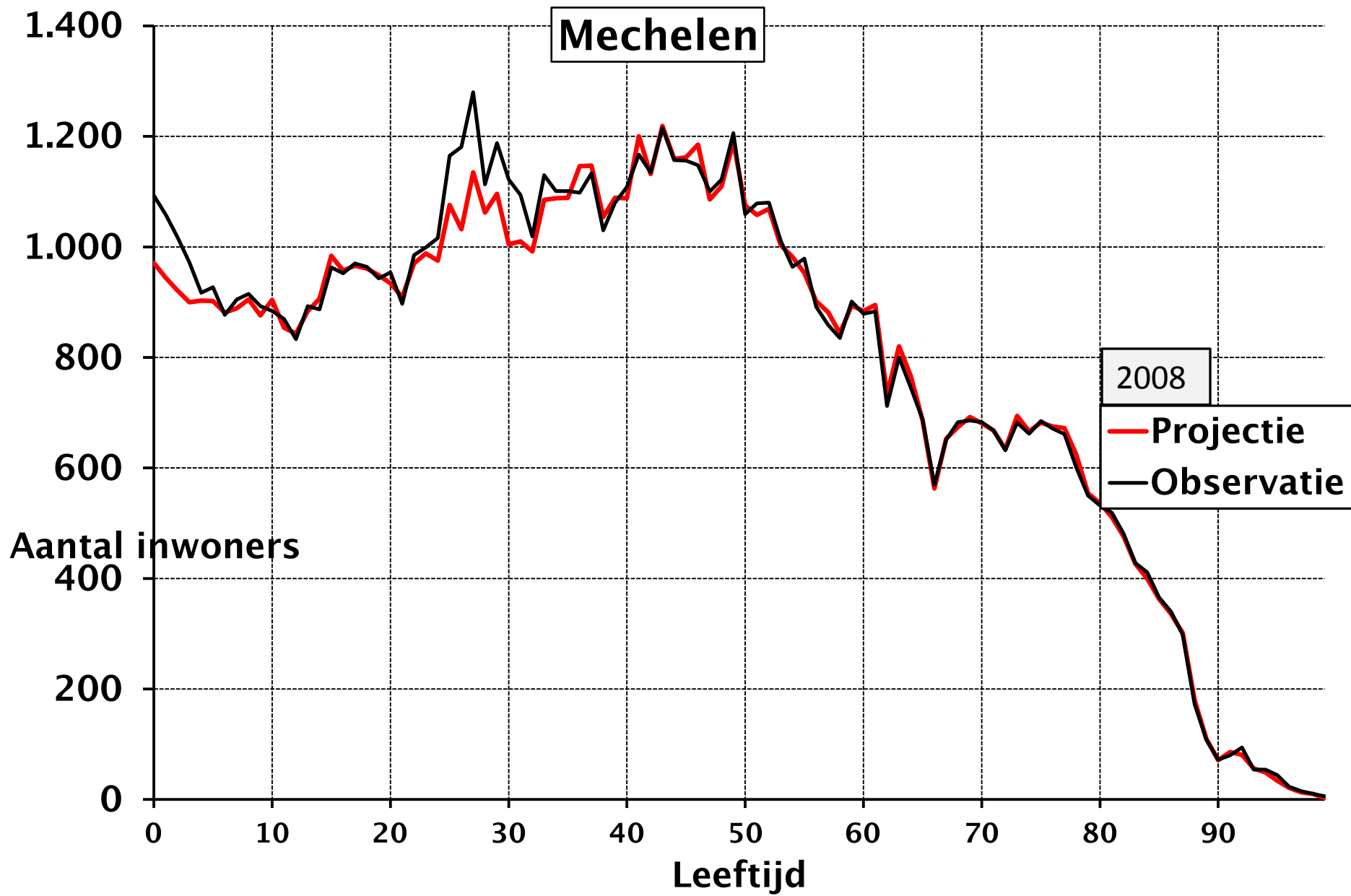
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018

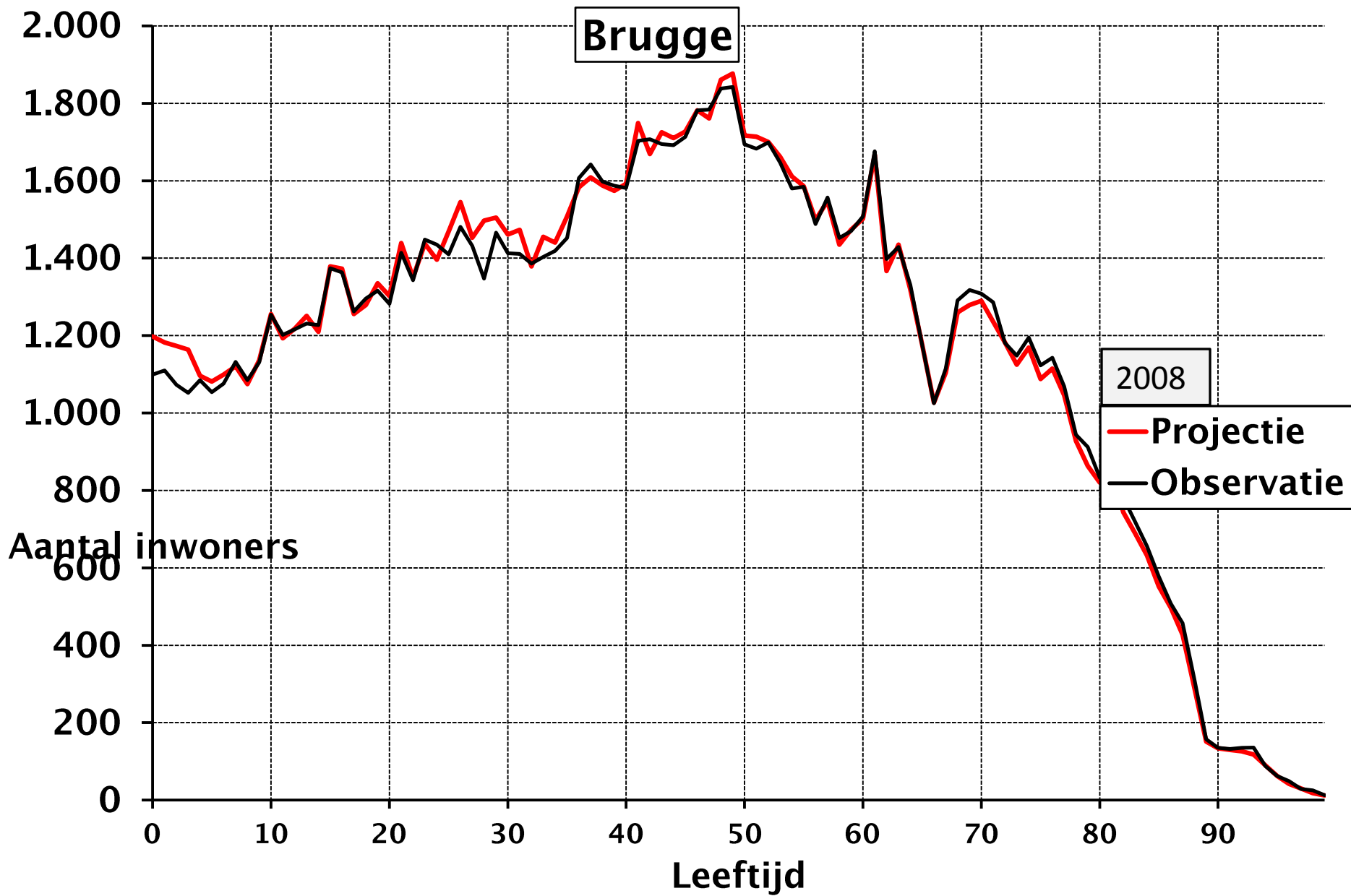


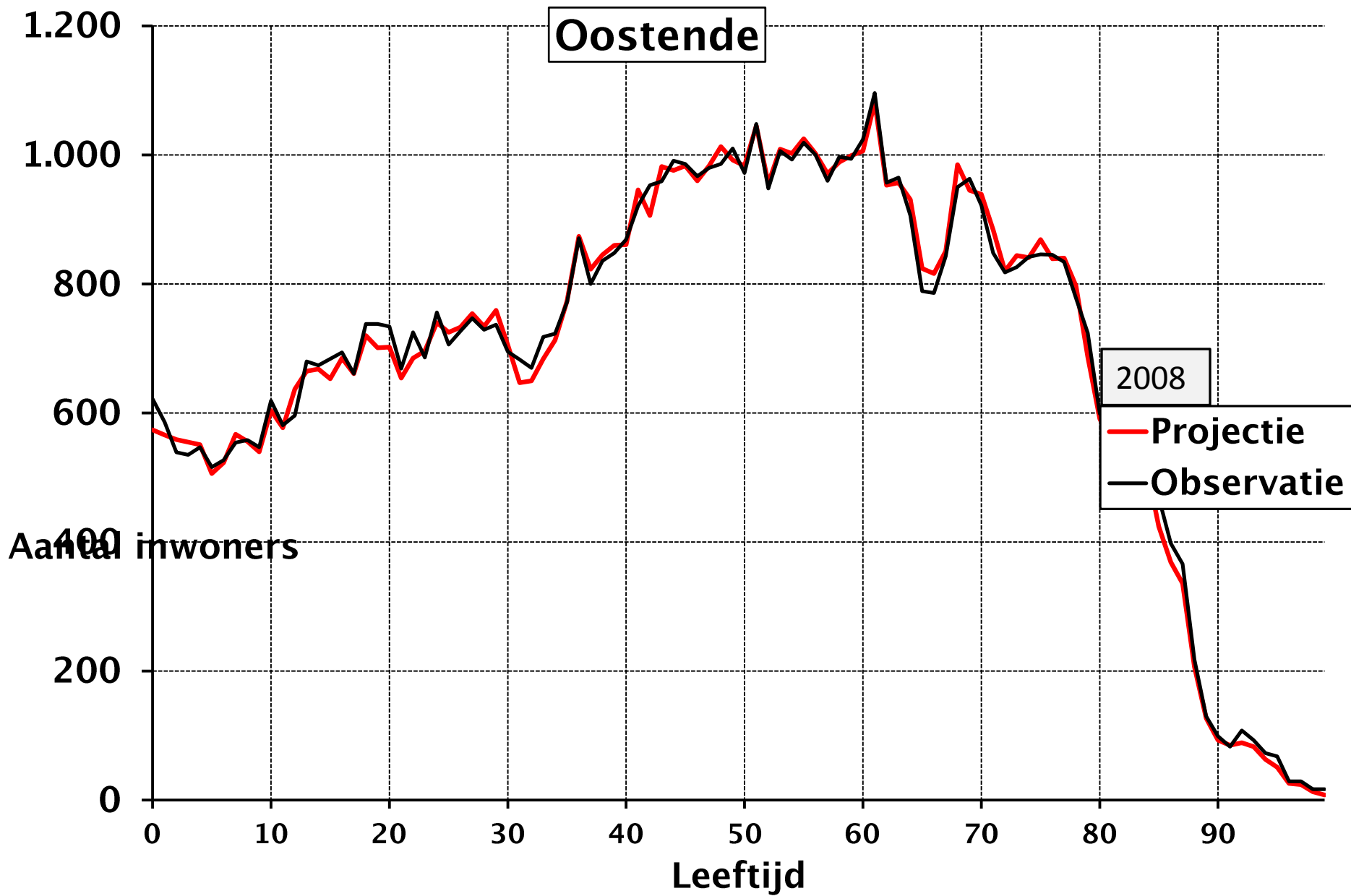
Qué Será, Será,
Whatever will be, will be
The future's not ours, to see
Qué Será, Será,
What will be, will be.











**Het woord is aan
Edith Lodewijckx**