

The Danish Political- Ecological Data Archive

Department of Political Science
Aarhus University

Søren Risbjerg Thomsen
srt@ps.au.dk

Jesper Søderberg
Jesper@soederberg.dk

Presentation at Statistics Denmark, 20 March 2014

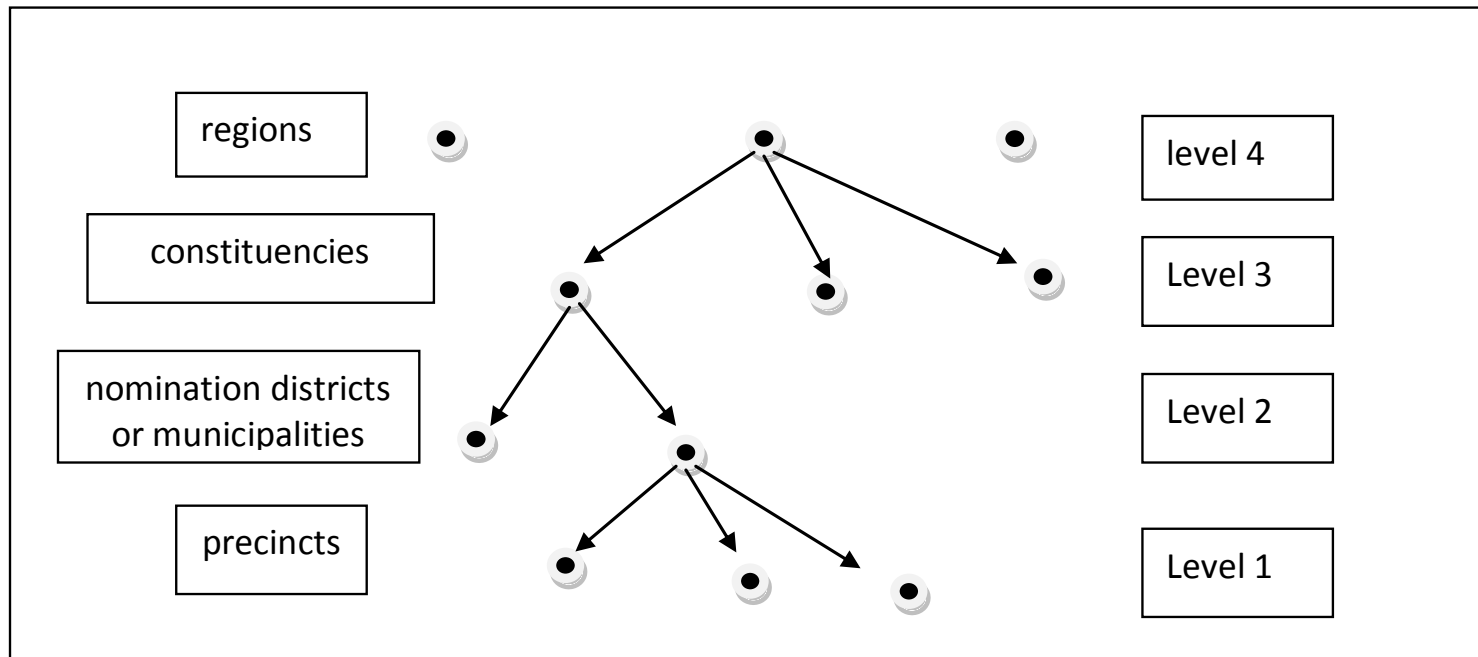
Content

- The database
 - Algorithm for construction of constant units
- The program
 - Downloading data
- Applications
 - Maps
 - Graphs
 - Statistical analysis

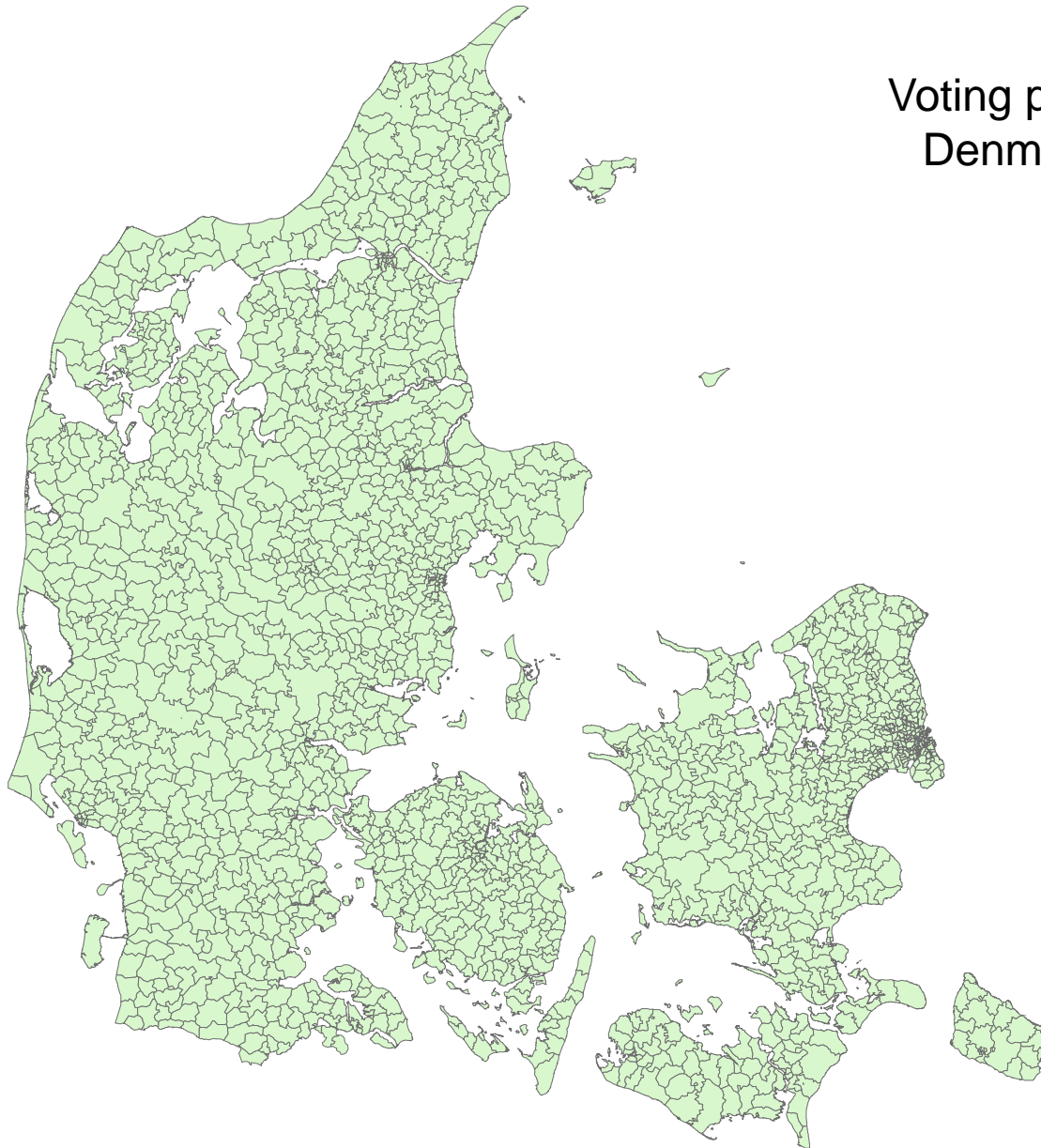
The database - content

- Data from about 1,800 voting precincts
 - 1979: 1,945 units, 2011: 1,450 units
- All kinds of elections 1979-2013
 - Turnout, party votes
 - Candidates and personal votes from 2001
 - Local election only on municipalities bef. 2001
- Social statistics every 5th year since 1980
 - genderxage, industryoccup., education, income, immigrants, housing, cars.

The database – hierarchical structure



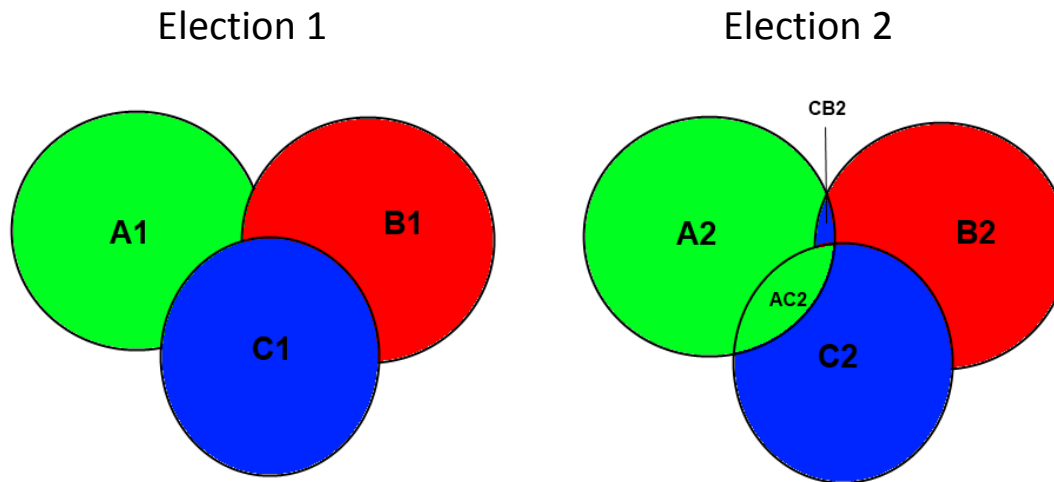
Voting precincts in
Denmark 1994



Purpose of database

- Main purpose: Dynamic analysis
- Main problem: Change of area-boundaries
- Solution: Construction of constant units over time
- Method: Define precincts by groups of road-segments (about 240,000 segments)
- Assumption: Each precinct is homogenous across road-segments (Wrong assumption – but!)
- Algorithm: Construct statistics for the same units at election 1 as valid at election 2 (Election 2 is "reference election")
 - Maximum divergence = 0: Exact same units over time by aggregation of reference units (homogeneity assumption not necessary)
 - Maximum divergence = 1: Construction of same units at election 1 as at election 2 (without aggregation of reference units)
 - Maximum divergence = t ($0 < t < 1$). Tolerate t divergence from exact same units

Over-time comparison of election areas based on road segments

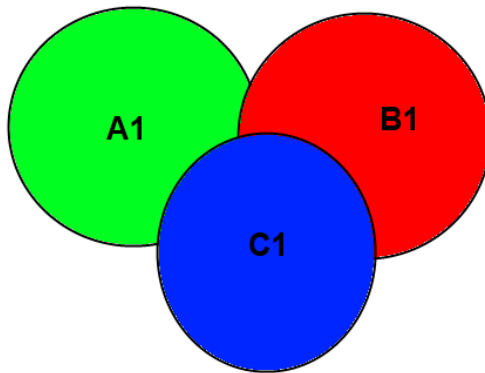


Between election 1 and election 2 the following has happened:

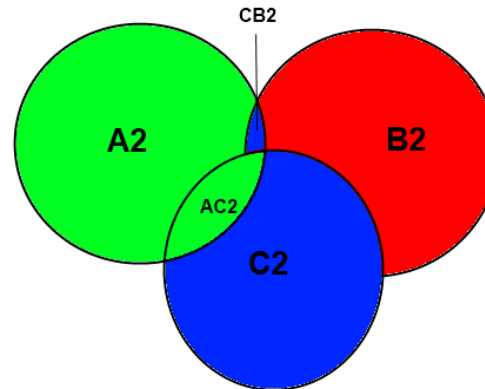
- Green= $A1 + AC2$
- Red= $B1 - CB2$
- Blue= $C1 - AC2 + CB2$

Number of voters in road segments within sub-areas

Election 1



Election 2

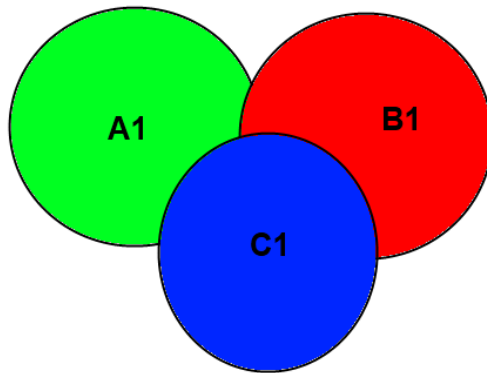


Number of voters in road segments within sub-areas

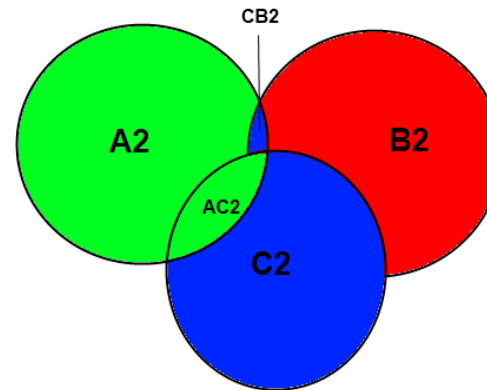
| Sub-area | Eligible voters in road segments |
|----------|----------------------------------|
| A2 | 200 |
| B2 | 140 |
| C2 | 150 |
| AC2 | 30 |
| CB2 | 10 |

Transformation quotients

Election 1



Election 2



- $q_{AC2} = AC2/C1 = 30/180 = 1/6$
- $q_{CB2} = CB2/B1 = 10/150 = 1/15$
- $q_{A2} = A2/A1 = 200/200 = 1$
- $q_{B2} = B2/B1 = 140/150 = 14/15$
- $q_{C2} = C2/C1 = 150/180 = 5/6$

Transformation of results at election 1 to election 2 units

Results at election 1

| Area | Eligible voters | Party "X" | Party "Y" | Party "Z" |
|-------|-----------------|-----------|-----------|-----------|
| Green | 200 | 100 | 60 | 40 |
| Red | 150 | 80 | 20 | 50 |
| Blue | 180 | 90 | 40 | 50 |

Results at election 2

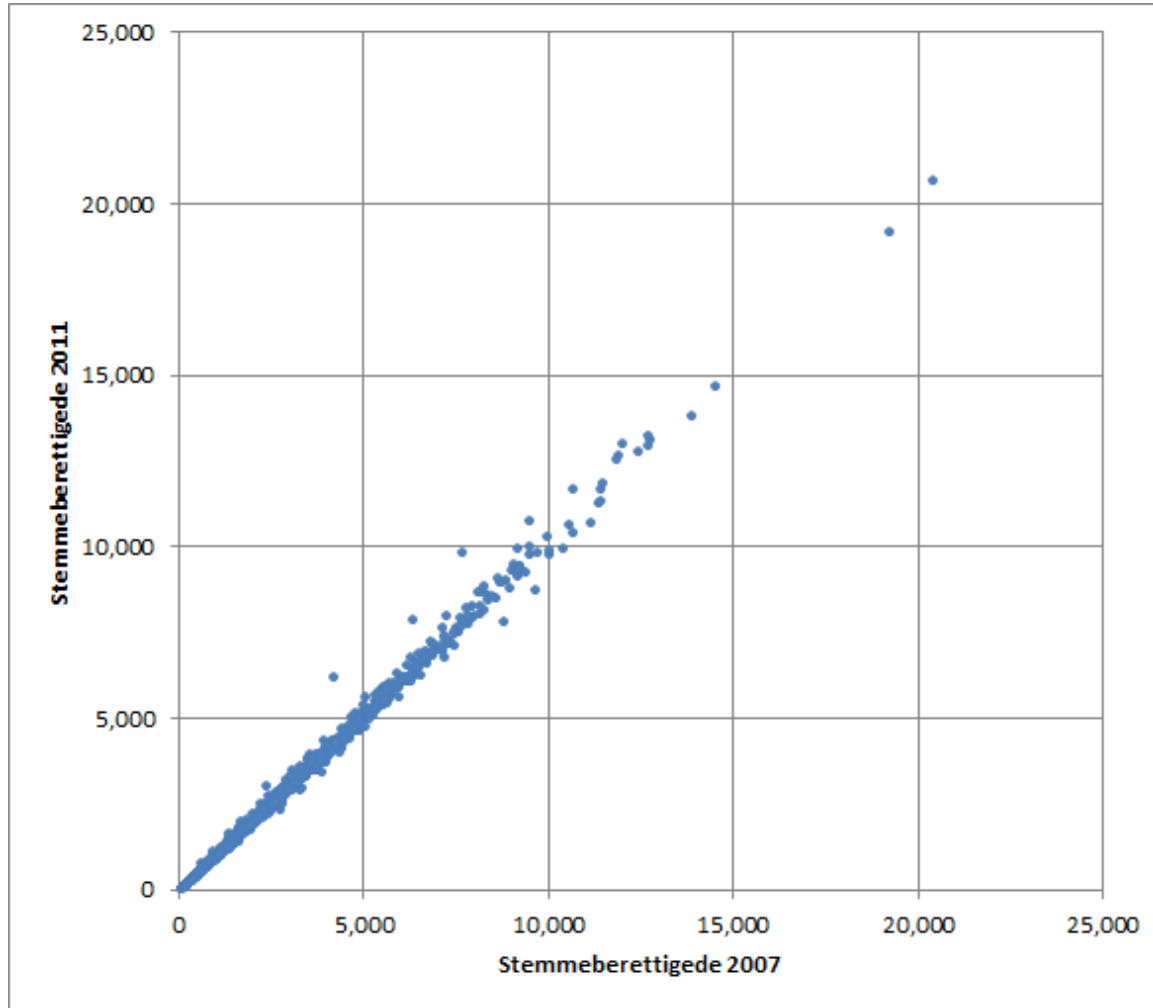
| Area | Eligible voters | Party "X" | Party "Y" | Party "Z" |
|-------|-----------------|-----------|-----------|-----------|
| Green | 230 | 110 | 80 | 40 |
| Red | 140 | 80 | 20 | 40 |
| Blue | 160 | 90 | 30 | 40 |

Results at election 1 transformed to election 2 units

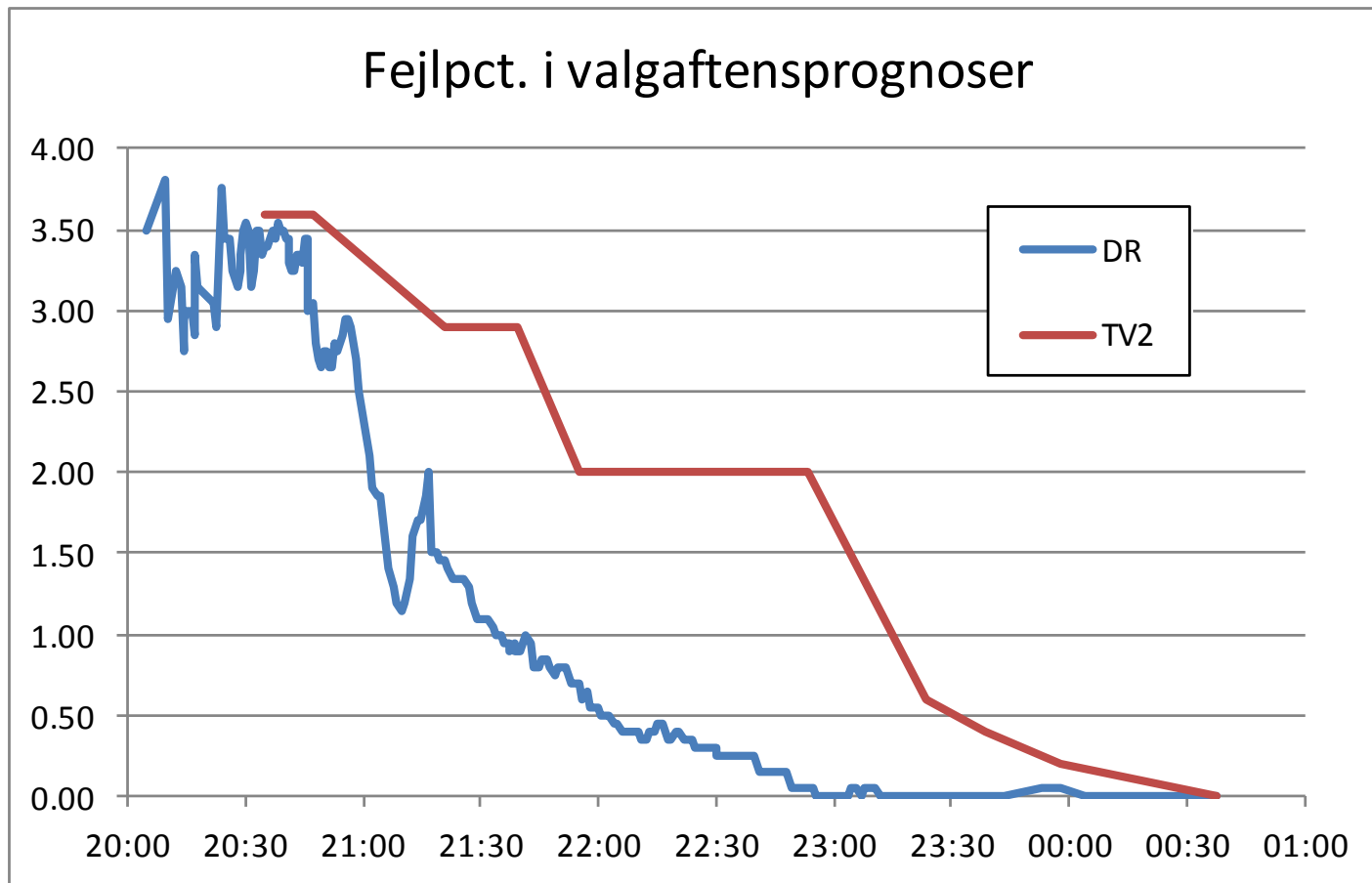
| Area | Eligible voters | Party "X" | Party "Y" | Party "Z" |
|-------|-----------------|-----------|-----------|-----------|
| Green | 230 | 115 | 66,67 | 48,33 |
| Red | 140 | 74,67 | 18,67 | 46,67 |
| Blue | 160 | 80,33 | 34,67 | 45 |

- Green = $qA2 \cdot A1 + qAC2 \cdot C1 = A1 + C1/6$
- Red = $qB2 \cdot B1 = B1 \cdot 14/15$
- Blue = $qCB2 \cdot B1 + qC2 \cdot C1 = B1/15 + C1 \cdot 5/6$

Maximum Divergence = 1 (Reference: 2011)



Figur 19. Fejlprocenter ved valgaftensprognoser i 2011 i forhold til det endelige valgresultat



Den mere vellykkede DR-prognose brugte fremskrivning fra 2007 til 2011 på valgsteder

Browser address bar: <http://ps.au.dk/en/research/rese:> Electiondata

AARHUS UNIVERSITY | Research | Talent development | Knowledge exchange | Education | About AU | FOR STAFF & STUDENTS

DEPARTMENT OF POLITICAL SCIENCE AND GOVERNMENT

PART OF SCHOOL OF BUSINESS AND SOCIAL SCIENCES

Danish

Electiondata

- Access
- Presentations
- Tutorials
- Research

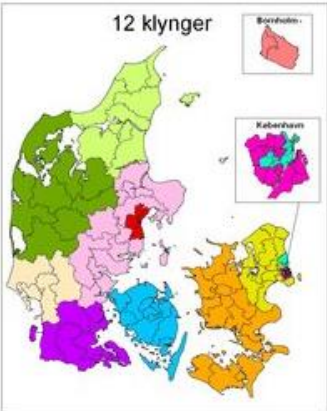
You are here: [AU](#) » [About Aarhus University](#) » [Department of Political Science and Government](#) » [Research](#) » [Researcher websites](#) » [Søren Risbjerg Thomsen](#) » **Electiondata**

POLITICAL-ECOLOGICAL DATA ARCHIVE (UNDER CONSTRUCTION)

Links

[Online election database](#)

12 klynger



PEDA Presentation

The Political-Ecological Data Archive (PEDA) is a database with Danish election results and population data on voting precinct level (about 1,800 geographical

Browser address bar: <http://ps.au.dk/forskning/forsker> Valgdata

AARHUS UNIVERSITET Forskning Talentudvikling Videnukveksling Uddannelse Om AU FOR MEDARBEJDERE & STUDERENDE

INSTITUT FOR STATSKUNDSKAB

PART OF SCHOOL OF BUSINESS AND SOCIAL SCIENCES

English

Du er her: [AU](#) » [Om AU](#) » [Institut for Statskundskab](#) » [Forskning](#) » [Forsker-websites](#) » [Søren Risbjerg Thomsen](#) » **Valgdata**

POLITISK-ØKOLOGISK DATAARKIV (UNDER OPBYGNING)

Links

[Online valgdatabase](#)

12 klynger



PEDA Præsentation

Det politisk-økologiske data arkiv (PEDA) er en database med danske valgresultater og data om vælgerbefolkningen opgjort på afstemningsområder (ca. 1.800 geografiske enheder) som man kan arbejde on-line med i en web-browser. Databasen er udviklet på Institut for Statskundskab, Aarhus Universitet. Adgangen til valodata er fri. Der er kun fri adgang til befolkningsdata til

Browser address bar: <http://ps.au.dk/forskning/forsker> Adgang

AARHUS UNIVERSITET Forskning Talentudvikling Videnudvæksling Uddannelse Om AU FOR MEDARBEJDERE & STUDERENDE

INSTITUT FOR STATSKUNDSKAB
PART OF SCHOOL OF BUSINESS AND SOCIAL SCIENCES

English

» Valgdata
» **Adgang**
» Præsentationer
» Vejledninger
» Forskning

Du er her: [AU](#) » [Om AU](#) » [Institut for Statskundskab](#) » [Forskning](#) » [Forsker-websites](#) » [Søren Risbjerg Thomsen](#) » [Valgdata](#) » **Adgang**

ONLINE VALGDATABASE

OBS! - VÆR OPMÆRKSOM PÅ AT DATABASEN PÅ DE FØLGENDE LINKS FUNGERER LANGSOMT

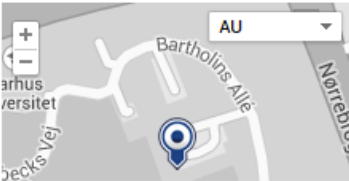
Det skyldes at databasen konstruerer valgsteder, der er sammenlignelige over tid, med mange beregninger på små vejstrømper, som er identiske over tid.

[Adgang til online database med valg](#)

[Adgang til online database med valg og befolkningsdata \(kræver kodeord\)](#)

HENVENDELSE OM DENNE SIDES INDHOLD: [SØREN RISBJERG THOMSEN](#)
REVIDERET 14.03.2014

HER FINDER DU INSTITUT FOR STATSKUNDSKAB



KONTAKTOPLYSNINGER

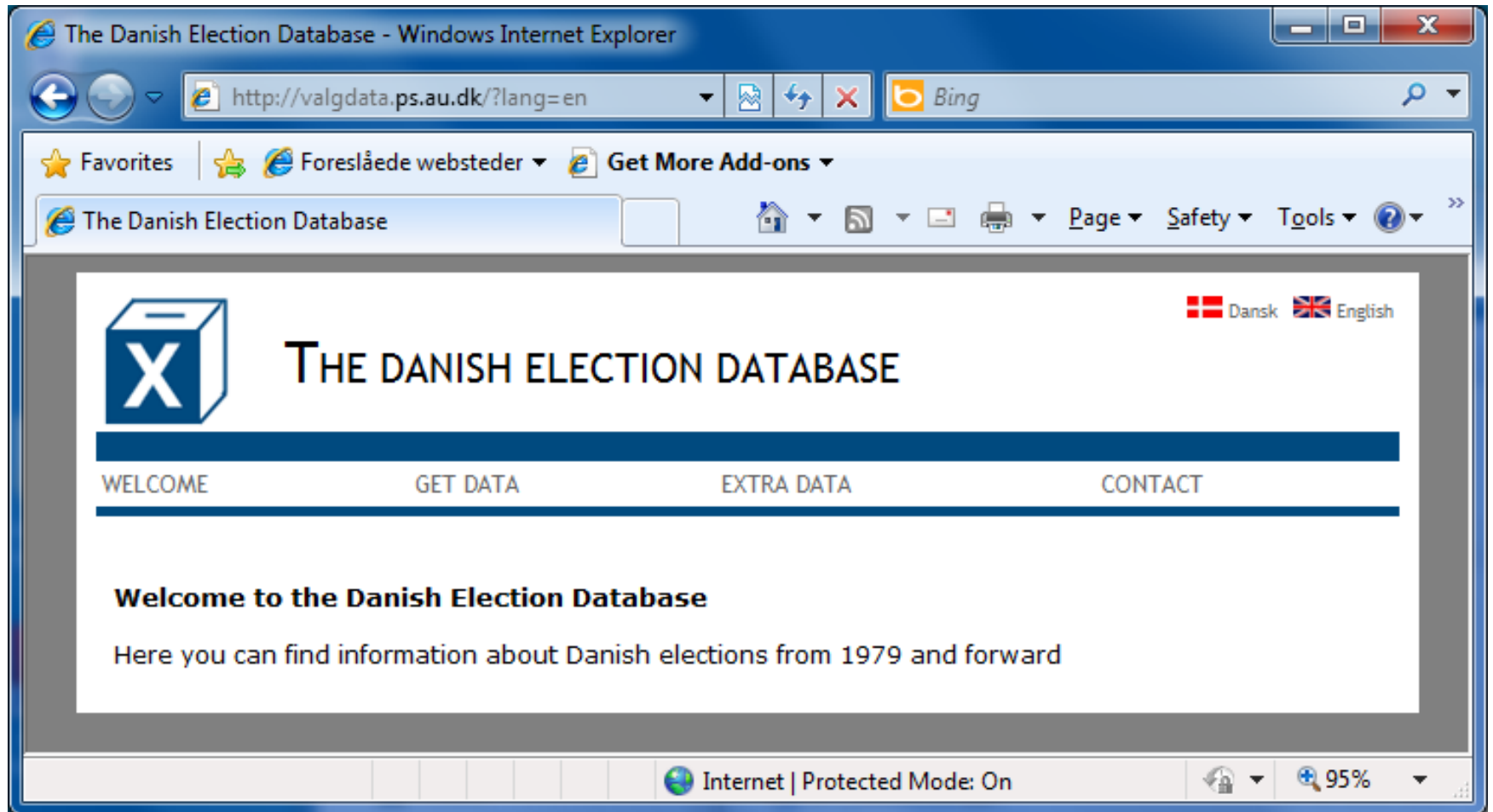
Institut for Statskundskab
Aarhus Universitet
Bartholins Allé 7
8000 Aarhus C

E-mail: statskundskab@au.dk
Tlf.: 871 50000
Fax: 8613 9839

ER DU STUDERENDE ELLER MEDARBEJDER?

Undervisning, eksamen, studievejledning, flytninger og meget andet.

FOR STUDERENDE




The Danish Election Database - Windows Internet Explorer

http://valgdata.ps.au.dk/Guide_1.aspx

Favorites | Foreslåede websteder | Get More Add-ons

The Danish Election Database



THE DANISH ELECTION DATABASE

WELCOME GET DATA EXTRA DATA CONTACT

Select downloadable data type

- Single election
- Multiple elections (comparative over time)

Next


Internet | Protected Mode: On 95%

The Danish Election Database - Windows Internet Explorer

http://valgdata.ps.au.dk/Guide_3.aspx? Bing

★ Favorites | ★ Foreslåede websteder | 📄 Get More Add-ons

The Danish Election Database



THE DANISH ELECTION DATABASE

WELCOME GET DATA EXTRA DATA CONTACT

Choose more elections

Election Type:
National Election

Reference election:
FV, 20071113

Election:

- FV, 20071113
- FV, 20050208
- FV, 20011120
- FV, 19980311
- FV, 19940921
- FV, 19901212
- FV, 19880510
- FV, 19870908
- FV, 19840110

Maximal divergence
1

Previous Next


Done Internet | Protected Mode: On 95%

The Danish Election Database - Windows Internet Explorer

http://valgdata.ps.au.dk/Guide_4.aspx? Bing

★ Favorites | 🌟 Foreslåede websteder | 📄 Get More Add-ons

The Danish Election Database



THE DANISH ELECTION DATABASE

WELCOME GET DATA EXTRA DATA CONTACT

Select variables

Parties:

Eligible voters

Total votes

Blank votes

Other invalid votes

Valid votes

A. Socialdemokratiet

B. Det Radikale Venstre

C. Det Konservative Folkeparti

D. Centrum-Demokraterne

F. SF - Socialistisk Folkeparti

K. Kristendemokraterne

O. Dansk Folkeparti

M. Minoritetspartiet

V. Venstre, Danmarks Liberale Pa

Y. Ny Alliance

Ø. Enhedslisten - De Rød-Grønne

1. Uden for partierne

2. Uden for partierne

3. Uden for partierne

4. Uden for partierne

5. Uden for partierne

>

>>

Group>

<

<<

Use short variable names

Get personal votes

Get mandates

Previous Next

Internet | Protected Mode: On 95%

The Danish Election Database - Windows Internet Explorer

http://valgdata.ps.au.dk/Guide_4.aspx: Bing

The Danish Election Database

THE DANISH ELECTION DATABASE

WELCOME GET DATA EXTRA DATA CONTACT

Select variables

Parties:

1. Uden for partierne
 2. Uden for partierne
 3. Uden for partierne
 4. Uden for partierne
 5. Uden for partierne

>
>>
Group>
<
<<

Eligible voters
 Total votes
 Blank votes
 Other invalid votes
 Valid votes
 A. Socialdemokratiet
 B. Det Radikale Venstre
 C. Det Konservative Folkeparti
 F. SF - Socialistisk Folkeparti
 D. Centrum-Demokraterne
 K. Kristendemokraterne
 O. Dansk Folkeparti
 V. Venstre, Danmarks Liberale Pa
 M. Minoritetspartiet
 Y. Ny Alliance
 Ø. Enhedslisten - De Rød-Grønne

Use short variable names
 Get personal votes
 Get mandates

Previous Next


Internet | Protected Mode: On 95%

The Danish Election Database - Windows Internet Explorer

http://valgdata.ps.au.dk/Guide_6.aspx?s=00: Bing

Favorites | Foreslåede websteder | Get More Add-ons

The Danish Election Database



THE DANISH ELECTION DATABASE

WELCOME GET DATA EXTRA DATA CONTACT

Select geographic level

Geographic level:

| | |
|----------------------|---|
| Nominating Districts | ▼ |
| Voting Stations | |
| Nominating Districts | |
| Constituencies | |
| Municipalities | |

Internet | Protected Mode: On 95%



THE DANISH ELECTION DATABASE

[WELCOME](#)

[GET DATA](#)

[EXTRA DATA](#)

[CONTACT](#)

Summary

Data Type: Multiple elections (comparative over time)

Select data: *Election:*
FV, 20071113
FV, 20050208

Reference election:
FV, 20071113

Maximal divergence:
1

Units: *Variables:*
Eligible voters
Total votes
Blank votes
Other invalid votes
Valid votes
A. Socialdemokratiet
B. Det Radikale Venstre
C. Det Konservative Folkeparti
F. SF - Socialistisk Folkeparti
D. Centrum-Demokraterne
K. Kristendemokraterne
O. Dansk Folkeparti
M. Minoritetspartiet
V. Venstre, Danmarks Liberale Parti
Y. Ny Alliance
Ø. Enhedslisten - De Rød-Grønne
1,2,3,4,5

Get personal votes:
Yes

Geographic level: Nominating Districts

[Previous](#)


[Get Data](#)

The Danish Election Database - Windows Internet Explorer

http://valgdata.ps.au.dk/Guide_8.aspx?s=

Favorite | Forelåede websteder | Get More Add-ons








The Danish Election Database



THE DANISH ELECTION DATABASE

WELCOME GET DATA EXTRA DATA CONTACT

Get data

-  [Election data](#)
-  [Election data - personal votes](#)
-  [Election Master Data](#)
-  [Party Master Data](#)
-  [Candidates Master Data](#)
-  [Geographic Master Data](#)
-  [Calculations table](#)

Done Internet | Protected Mode: On 95%

Election data – National Election 2007

Election_data[1].csv - Microsoft Excel

Home Insert Page Layout Formulas Data Review View PDF

Normal Page Layout Full Screen Workbook Views

Show/Hide Zoom 100% Zoom to Selection Zoom

New Window Arrange All Freeze Panes Window

Save Workspace Switch Windows

Macros

A2 197

| | A | B | C | D | E | F | G | H | I | J | K | L | M |
|-----|------------|--------|----------|-----------|-----------|-------------|------------|------------|-----------|------------|-----------|------------|--------|
| 1 | ElectionId | Group | Nominati | Constitue | Region Nu | Eligible vc | Total vote | Blank vote | Other inv | Valid vote | A. Social | B. Det Rac | C. Det |
| 94 | 198 | 101005 | 1 | 1 | 1 | 50809 | 44214 | 154 | 98 | 43962 | 10408 | 4645 | 5 |
| 95 | 198 | 101009 | 2 | 1 | 1 | 38343 | 31657 | 132 | 95 | 31430 | 7889 | 2721 | 2 |
| 96 | 198 | 101013 | 3 | 1 | 1 | 37037 | 30981 | 99 | 60 | 30822 | 5912 | 3620 | 3 |
| 97 | 198 | 101016 | 4 | 1 | 1 | 36279 | 30234 | 115 | 105 | 30014 | 7859 | 2350 | 2 |
| 98 | 198 | 101022 | 5 | 1 | 1 | 50012 | 41886 | 192 | 198 | 41496 | 9420 | 4570 | 2 |
| 99 | 198 | 101029 | 6 | 1 | 1 | 33772 | 26936 | 116 | 82 | 26738 | 7207 | 2020 | 2 |
| 100 | 198 | 101036 | 7 | 1 | 1 | 53338 | 45362 | 179 | 118 | 45065 | 12213 | 3188 | 3 |
| 101 | 198 | 101042 | 8 | 1 | 1 | 33149 | 27562 | 147 | 108 | 27307 | 7437 | 1945 | 2 |
| 102 | 198 | 101052 | 9 | 1 | 1 | 37252 | 31531 | 124 | 103 | 31304 | 7350 | 3232 | 2 |
| 103 | 198 | 147001 | 10 | 1 | 1 | 35733 | 31790 | 121 | 67 | 31602 | 6471 | 3452 | 5 |
| 104 | 198 | 147006 | 11 | 1 | 1 | 35025 | 30324 | 119 | 101 | 30104 | 6635 | 2691 | 4 |
| 105 | 198 | 153006 | 18 | 2 | 1 | 45752 | 39173 | 179 | 174 | 38820 | 12135 | 1434 | 3 |
| 106 | 198 | 155002 | 12 | 1 | 1 | 39168 | 34373 | 141 | 89 | 34143 | 9102 | 1424 | 3 |
| 107 | 198 | 157002 | 13 | 2 | 1 | 48563 | 43671 | 123 | 90 | 43458 | 5938 | 3477 | 12 |
| 108 | 198 | 159001 | 15 | 2 | 1 | 44784 | 39149 | 173 | 67 | 38909 | 10780 | 2622 | 4 |
| 109 | 198 | 161005 | 20 | 2 | 1 | 49372 | 43374 | 203 | 114 | 43057 | 14933 | 1659 | 4 |
| 110 | 198 | 167007 | 17 | 2 | 1 | 35591 | 30590 | 133 | 55 | 30402 | 9371 | 1282 | 2 |
| 111 | 198 | 169003 | 19 | 2 | 1 | 50651 | 43548 | 237 | 123 | 43188 | 12838 | 1883 | 4 |
| 112 | 198 | 173001 | 14 | 2 | 1 | 37573 | 33595 | 124 | 92 | 33379 | 6782 | 2976 | 6 |
| 113 | 198 | 175005 | 16 | 2 | 1 | 45860 | 39559 | 189 | 68 | 39302 | 13044 | 1742 | 3 |

Election_data(1)

Ready 100%

Data – National Election (NE) 2005 by 2007 nomination districts

Election_data[1].csv - Microsoft Excel

Home Insert Page Layout Formulas Data Review View PDF

Normal Page Break Preview Custom Views Show/Hide Zoom 100% Zoom to Selection New Window Arrange All Freeze Panes Save Workspace Switch Windows Macros

Workbook Views Window Macros

A2 fx 197

| | A | B | C | D | E | F | G | H | I | J | K | L | M |
|----|------------|--------|----------|-----------|-----------|-------------|------------|------------|-----------|------------|-----------|------------|--------|
| 1 | ElectionId | Group | Nominati | Constitue | Region Nu | Eligible vc | Total vote | Blank vote | Other inv | Valid vote | A. Social | B. Det Rac | C. Det |
| 2 | 197 | 101005 | 1 | 1 | 1 | 54614.09 | 45140.07 | 212.04 | 135.43 | 44792.6 | 9191.14 | 9086.44 | 4762 |
| 3 | 197 | 101009 | 2 | 1 | 1 | 34285.55 | 26804 | 155.98 | 98.99 | 26549.03 | 7498.47 | 3815.73 | 1687 |
| 4 | 197 | 101013 | 3 | 1 | 1 | 36912.93 | 29914.48 | 131.84 | 74.83 | 29707.82 | 5474.79 | 6634.89 | 3188 |
| 5 | 197 | 101016 | 4 | 1 | 1 | 36802 | 29213 | 187 | 84 | 28942 | 7770 | 4204 | 1 |
| 6 | 197 | 101022 | 5 | 1 | 1 | 49743.87 | 40323.8 | 220.15 | 156.76 | 39946.89 | 8499.44 | 9134.78 | 2684 |
| 7 | 197 | 101029 | 6 | 1 | 1 | 33804.08 | 25784.37 | 151.83 | 90.46 | 25542.08 | 6938.07 | 3869.07 | 181 |
| 8 | 197 | 101036 | 7 | 1 | 1 | 54032.37 | 44421.91 | 274.72 | 143.13 | 44004.06 | 11493.09 | 6109.35 | 3608 |
| 9 | 197 | 101042 | 8 | 1 | 1 | 34465.47 | 27597.83 | 186.43 | 78.4 | 27333 | 7436.54 | 3990.12 | 2235 |
| 10 | 197 | 101052 | 9 | 1 | 1 | 37202.64 | 30044.54 | 177.01 | 89.01 | 29778.52 | 7084.47 | 6642.63 | 1895 |
| 11 | 197 | 147001 | 10 | 1 | 1 | 33998 | 28944 | 158 | 102 | 28684 | 5729 | 5180 | 5 |
| 12 | 197 | 147006 | 11 | 1 | 1 | 37638 | 32036 | 167 | 97 | 31772 | 6237 | 6200 | 5 |
| 13 | 197 | 153006 | 18 | 2 | 1 | 46433 | 38748 | 186 | 121 | 38441 | 11802 | 2782 | 3 |
| 14 | 197 | 155002 | 12 | 1 | 1 | 39182 | 33463 | 172 | 67 | 33224 | 8979 | 2328 | 3 |
| 15 | 197 | 157002 | 13 | 2 | 1 | 49573 | 43434 | 145 | 86 | 43203 | 5106 | 5639 | 11 |
| 16 | 197 | 159001 | 15 | 2 | 1 | 44908 | 38317 | 235 | 86 | 37996 | 10079 | 4335 | 3 |
| 17 | 197 | 161005 | 20 | 2 | 1 | 49584 | 42786 | 220 | 110 | 42456 | 13951 | 2897 | 3 |
| 18 | 197 | 167007 | 17 | 2 | 1 | 36166 | 30180 | 172 | 73 | 29935 | 9138 | 2419 | 2 |
| 19 | 197 | 169003 | 19 | 2 | 1 | 50679 | 42696 | 194 | 118 | 42384 | 12270 | 3388 | 3 |
| 20 | 197 | 173001 | 14 | 2 | 1 | 38194 | 33398 | 146 | 96 | 33156 | 6130 | 4538 | 6 |
| 21 | 197 | 175005 | 16 | 2 | 1 | 46504 | 38998 | 196 | 102 | 38700 | 12877 | 3100 | 3 |

Election_data(1)

Ready 100%

Personal votes NE 2007 by party

Valgdata_-_personlige_stemmer.csv - Microsoft Excel

Home Insert Page Layout Formulas Data Review View Add-Ins

Normal Page Layout Full Screen Workbook Views Show/Hide Zoom 100% Zoom to Selection Zoom New Window Arrange All Freeze Panes Window Save Workspace Windows Switch Windows Macros

A1 Valgd

| | A | B | C | D | E | F | G | H | I | J | K | L | |
|-----|-------|--------|---------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|---|
| 1 | Valgd | Gruppe | KredsNr | StorKreds | Landsdels | Personlige | A - person | B - person | C - person | D - person | F - person | K - person | M |
| 94 | 198 | 101005 | 1 | 1 | 1 | 21805 | 7886 | 1780 | 2575 | - | 3249 | 125 | - |
| 95 | 198 | 101009 | 2 | 1 | 1 | 14376 | 5122 | 1005 | 1233 | - | 2419 | 78 | - |
| 96 | 198 | 101013 | 3 | 1 | 1 | 15197 | 4286 | 1384 | 2104 | - | 2567 | 70 | - |
| 97 | 198 | 101016 | 4 | 1 | 1 | 13641 | 5060 | 850 | 1075 | - | 2351 | 100 | - |
| 98 | 198 | 101022 | 5 | 1 | 1 | 18931 | 6068 | 1595 | 1255 | - | 4012 | 86 | - |
| 99 | 198 | 101029 | 6 | 1 | 1 | 12215 | 4599 | 658 | 931 | - | 2059 | 102 | - |
| 100 | 198 | 101036 | 7 | 1 | 1 | 21741 | 7917 | 1328 | 1909 | - | 3289 | 148 | - |
| 101 | 198 | 101042 | 8 | 1 | 1 | 12496 | 4622 | 743 | 1131 | - | 2227 | 63 | - |
| 102 | 198 | 101052 | 9 | 1 | 1 | 14360 | 4836 | 1180 | 944 | - | 3072 | 67 | - |
| 103 | 198 | 147001 | 10 | 1 | 1 | 16650 | 4568 | 1509 | 3354 | - | 2327 | 77 | - |
| 104 | 198 | 147005 | 11 | 1 | 1 | 15362 | 4452 | 1102 | 3043 | - | 2116 | 105 | - |
| 105 | 198 | 155001 | 12 | 1 | 1 | 16880 | 6370 | 567 | 1991 | - | 1658 | 79 | - |
| 106 | 198 | 157001 | 13 | 2 | 1 | 20182 | 3088 | 1079 | 8524 | - | 1054 | 37 | - |
| 107 | 198 | 173001 | 14 | 2 | 1 | 15995 | 3717 | 945 | 4361 | - | 1300 | 48 | - |
| 108 | 198 | 159001 | 15 | 2 | 1 | 15745 | 5494 | 871 | 2614 | - | 1728 | 52 | - |
| 109 | 198 | 163001 | 16 | 2 | 1 | 16084 | 7564 | 546 | 2141 | - | 1727 | 148 | - |
| 110 | 198 | 167001 | 17 | 2 | 1 | 12193 | 4618 | 468 | 1366 | - | 1373 | 40 | - |
| 111 | 198 | 187001 | 18 | 2 | 1 | 17015 | 6370 | 554 | 2428 | - | 2141 | 51 | - |
| 112 | 198 | 165001 | 19 | 2 | 1 | 17689 | 6519 | 853 | 2655 | - | 2255 | 68 | - |
| 113 | 198 | 151002 | 20 | 2 | 1 | 20112 | 10040 | 503 | 2522 | - | 1596 | 70 | - |

Valgdata_-_personlige_stemmer

Ready 100%

Personal votes NE 2007 by candidate

Election_data_-_personal_votes[1].csv - Microsoft Excel

Home Insert Page Layout Formulas Data Review View PDF

Normal Page Break Preview Custom Views Show/Hide Zoom 100% Zoom to Selection New Window Arrange All Freeze Panes Save Workspace Windows Switch Windows Macros

Workbook Views Window Macros

A2 fx 197

| | L | M | N | O | P | Q | R | S | T | U | V | W | X |
|-----|-------------|-------------|-------------|-------------|-------------|-------------|------------|------|------|------|------|------|------|
| 1 | K - total p | M - total p | O - total p | V - total p | Y - total p | Ø - total p | UP - total | A-01 | A-02 | A-03 | A-04 | A-05 | A-06 |
| 94 | 125 | - | 1390 | 2027 | 1114 | 1639 | 20 | 80 | 267 | 9 | 65 | 21 | |
| 95 | 78 | - | 1394 | 1249 | 717 | 1146 | 13 | 76 | 421 | 608 | 52 | 16 | |
| 96 | 70 | - | 741 | 1471 | 973 | 1590 | 11 | 57 | 553 | 36 | 31 | 8 | |
| 97 | 100 | - | 1371 | 1244 | 637 | 930 | 23 | 88 | 397 | 302 | 65 | 22 | |
| 98 | 86 | - | 1112 | 934 | 844 | 3004 | 21 | 182 | 321 | 27 | 148 | 217 | |
| 99 | 102 | - | 1432 | 793 | 458 | 1174 | 9 | 93 | 212 | 29 | 469 | 23 | |
| 100 | 148 | - | 2885 | 1781 | 915 | 1560 | 9 | 535 | 587 | 42 | 125 | 30 | |
| 101 | 63 | - | 1319 | 944 | 539 | 897 | 11 | 75 | 224 | 20 | 43 | 11 | |
| 102 | 67 | - | 933 | 793 | 681 | 1850 | 4 | 87 | 220 | 20 | 57 | 20 | |
| 103 | 77 | - | 1185 | 1599 | 975 | 1042 | 14 | 68 | 350 | 14 | 31 | 12 | |
| 104 | 105 | - | 1430 | 1439 | 837 | 830 | 8 | 91 | 332 | 17 | 33 | 13 | |
| 105 | 51 | - | 1828 | 2918 | 273 | 440 | 12 | 2026 | 202 | 48 | 2898 | 31 | 1 |
| 106 | 79 | - | 2783 | 2430 | 627 | 363 | 12 | 35 | 266 | 141 | 33 | 6 | |
| 107 | 37 | - | 922 | 4371 | 584 | 523 | 0 | 95 | 73 | 12 | 1772 | 21 | |
| 108 | 52 | - | 1474 | 2433 | 351 | 726 | 2 | 348 | 127 | 23 | 3083 | 1049 | |
| 109 | 70 | - | 2255 | 2431 | 249 | 441 | 5 | 140 | 99 | 25 | 9165 | 13 | |
| 110 | 40 | - | 1810 | 1706 | 255 | 551 | 6 | 177 | 118 | 1366 | 2222 | 26 | |
| 111 | 68 | - | 1777 | 2652 | 281 | 623 | 6 | 259 | 174 | 34 | 3388 | 17 | 2 |
| 112 | 48 | - | 972 | 3809 | 379 | 458 | 6 | 152 | 68 | 10 | 1994 | 12 | |
| 113 | 148 | - | 1491 | 1777 | 200 | 488 | 2 | 156 | 4228 | 30 | 2555 | 17 | |

Election_data_-_personal_votes(100%

NE 2007 candidate information

Candidates_Master_Data[1].csv - Microsoft Excel

Home Insert Page Layout Formulas Data Review View PDF

Normal Page Break Preview Custom Views Show/Hide Zoom 100% Zoom to Selection New Window Arrange All Freeze Panes Save Workspace Switch Windows Macros

Workbook Views Window Macros

E1059 Mette Frederiksen

| | A | B | C | D | E | F | G | H | I | J |
|-----|------------|-------------|-------|-------|----------------------------|------|------------|------------------------|----------|---|
| 1 | ElectionId | Constitutue | Party | Order | Candidate Name | Zip | City | Occupation | Birthday | |
| 949 | 198 | 1 A | | 1 | Yildiz Akdogan | 2200 | København | cand.scient.pol. | 19730429 | |
| 950 | 198 | 1 A | | 2 | Christine Antorini | 1254 | København | cand.comm. | 19650523 | |
| 951 | 198 | 1 A | | 3 | Jette Bergenholtz Baurtrup | 2300 | København | socialrådgiver | 19470415 | |
| 952 | 198 | 1 A | | 4 | Jacob Bjerregaard | 2400 | København | forbundsformand DSU | 19770614 | |
| 953 | 198 | 1 A | | 5 | Lars Gaardhøj | 2100 | København | projektleder, konsuler | 19740501 | |
| 954 | 198 | 1 A | | 6 | Susan Hedlund | 2450 | København | afdelingsleder | 19620707 | |
| 955 | 198 | 1 A | | 7 | Karen Hækkerup | 2791 | Dragør | bach.scient.pol. | 19740612 | |
| 956 | 198 | 1 A | | 8 | Mette Reissmann | 2100 | København | cand.merc.jur. | 19631004 | |
| 957 | 198 | 1 A | | 9 | Bo Sandberg | 2100 | København | økonom, cand.polit. | 19690616 | |
| 958 | 198 | 1 A | | 10 | Helle Thorning-Schmidt | 2100 | København | cand.scient.pol. | 19661214 | |
| 959 | 198 | 1 A | | 11 | Michael Vindfeldt | 2000 | Frederiksl | studerende | 19811222 | |
| 960 | 198 | 1 A | | 12 | Lars Weiss | 2300 | København | konsulent | 19710530 | |
| 961 | 198 | 1 B | | 1 | Christian Holm Donatzky | 3000 | Helsingør | selvstændig | 19730520 | |
| 962 | 198 | 1 B | | 2 | Lone Dybkjær | 2000 | Frederiksl | fhv. minister | 19400523 | |
| 963 | 198 | 1 B | | 3 | Charlotte Fischer | 2100 | København | kommunikationschef | 19630703 | |
| 964 | 198 | 1 B | | 4 | Laura Friberg | 1430 | København | politisk konsulent | 19750302 | |
| 965 | 198 | 1 B | | 5 | Per Svejstrup Hansen | 2200 | København | lektor | 19700804 | |
| 966 | 198 | 1 B | | 6 | Rune Heiberg Hansen | 2770 | Kastrup | specialkonsulent | 19760525 | |
| 967 | 198 | 1 B | | 7 | Dorthe Kjerulf-Thomasen | 2720 | Vanløse | områdechef | 19701111 | |
| 968 | 198 | 1 B | | 8 | Johannes Lebech | 7500 | Holstebro | fhv. minister | 19480912 | |

Candidates_Master_Data(1)

Ready 100%

Codes and names of geographical units

Geographic_Master_Data[1].csv - Microsoft Excel

Clipboard | Font | Alignment | Number | Styles | Cells | Editing

A1 Voting Station Id

| | A | B | C | D | E | F | G | H | I | J | K | L |
|----|------------|---------|----------|-----------|-----------|---------------|-----------|-------------|-----------|-----------|------------|---------------|
| 1 | Voting Sta | Kommune | Nominati | Constitue | Region Nu | Voting Statio | Municipal | Nominati | Constitue | Region Na | Voting Sta | Voting Statio |
| 2 | 101001 | 101 | 1 | 1 | 1 | Østerbro | København | 1. Østerbr | København | Hovedstac | 20070101 | 99991231 |
| 3 | 101002 | 101 | 1 | 1 | 1 | Østerbro Nor | København | 1. Østerbr | København | Hovedstac | 20070101 | 99991231 |
| 4 | 101003 | 101 | 1 | 1 | 1 | Østerbro Syd | København | 1. Østerbr | København | Hovedstac | 20070101 | 99991231 |
| 5 | 101004 | 101 | 1 | 1 | 1 | Østerbro Øst | København | 1. Østerbr | København | Hovedstac | 20070101 | 99991231 |
| 6 | 101005 | 101 | 1 | 1 | 1 | Østerbro Ves | København | 1. Østerbr | København | Hovedstac | 20070101 | 99991231 |
| 7 | 101006 | 101 | 1 | 1 | 1 | Østerbro Nor | København | 1. Østerbr | København | Hovedstac | 20070101 | 99991231 |
| 8 | 101007 | 101 | 2 | 1 | 1 | Sundbyveste | København | 2. Sundby | København | Hovedstac | 20070101 | 99991231 |
| 9 | 101008 | 101 | 2 | 1 | 1 | Sundbyveste | København | 2. Sundby | København | Hovedstac | 20070101 | 99991231 |
| 10 | 101009 | 101 | 2 | 1 | 1 | Sundbyveste | København | 2. Sundby | København | Hovedstac | 20070101 | 99991231 |
| 11 | 101010 | 101 | 2 | 1 | 1 | Sundbyveste | København | 2. Sundby | København | Hovedstac | 20070101 | 99991231 |
| 12 | 101011 | 101 | 3 | 1 | 1 | Indre By | København | 3. Indre By | København | Hovedstac | 20070101 | 99991231 |
| 13 | 101012 | 101 | 3 | 1 | 1 | Indre By Nor | København | 3. Indre By | København | Hovedstac | 20070101 | 99991231 |
| 14 | 101013 | 101 | 3 | 1 | 1 | Indre By Syd | København | 3. Indre By | København | Hovedstac | 20070101 | 99991231 |
| 15 | 101014 | 101 | 3 | 1 | 1 | Indre By Øst | København | 3. Indre By | København | Hovedstac | 20070101 | 99991231 |
| 16 | 101015 | 101 | 3 | 1 | 1 | Indre By Ves | København | 3. Indre By | København | Hovedstac | 20070101 | 99991231 |
| 17 | 101016 | 101 | 4 | 1 | 1 | Sundbyøster | København | 4. Sundby | København | Hovedstac | 20070101 | 99991231 |
| 18 | 101017 | 101 | 4 | 1 | 1 | Sundbyøster | København | 4. Sundby | København | Hovedstac | 20070101 | 99991231 |
| 19 | 101018 | 101 | 4 | 1 | 1 | Sundbyøster | København | 4. Sundby | København | Hovedstac | 20070101 | 99991231 |
| 20 | 101019 | 101 | 4 | 1 | 1 | Sundbyøster | København | 4. Sundby | København | Hovedstac | 20070101 | 99991231 |
| 21 | 101020 | 101 | 5 | 1 | 1 | Nørrebro | København | 5. Nørrebr | København | Hovedstac | 20070101 | 99991231 |

Ready | 100%

Seats NE 2007, by constituency

Mandates[1].csv - Microsoft Excel

Home Insert Page Layout Formulas Data Review View PDF

Clipboard Font Alignment Number Styles Cells Editing

A1 ElectionId

| | A | B | C | D | E | F | G | H | I | J | K | L | M | |
|----|------------|-------------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|-------------|-------------|------|
| 1 | ElectionId | Constitu | A. Social | A. Social | A. Social | B. Det Rac | B. Det Rac | B. Det Rac | C. Det Kor | C. Det Kor | C. Det Kor | F. SF - Soc | F. SF - Soc | F. S |
| 2 | 198 | Københav | 4 | 0 | 4 | 1 | 0 | 1 | 1 | 1 | 2 | 4 | 0 | |
| 3 | 198 | Københav | 4 | 0 | 4 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 0 | |
| 4 | 198 | Nordsjæll | 2 | 1 | 3 | 1 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | |
| 5 | 198 | Bornholm | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6 | 198 | Sjællands | 6 | 1 | 7 | 0 | 1 | 1 | 2 | 0 | 2 | 3 | 0 | |
| 7 | 198 | Fyns Stork | 4 | 0 | 4 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 0 | |
| 8 | 198 | Syddjyllanc | 5 | 0 | 5 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | |
| 9 | 198 | Østjylland | 6 | 1 | 7 | 1 | 0 | 1 | 1 | 1 | 2 | 2 | 1 | |
| 10 | 198 | Vestjyllan | 4 | 0 | 4 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | |
| 11 | 198 | Nordjyllar | 5 | 1 | 6 | 0 | 1 | 1 | 2 | 1 | 3 | 2 | 0 | |
| 12 | 198 | Total | 41 | 4 | 45 | 3 | 6 | 9 | 11 | 7 | 18 | 19 | 4 | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |

Mandates(1) Ready 100%

Applications

- Map visualization
- Analysis with graphs
- Statistical analysis
- Ecological inference

Tools for maps

GIS-tools

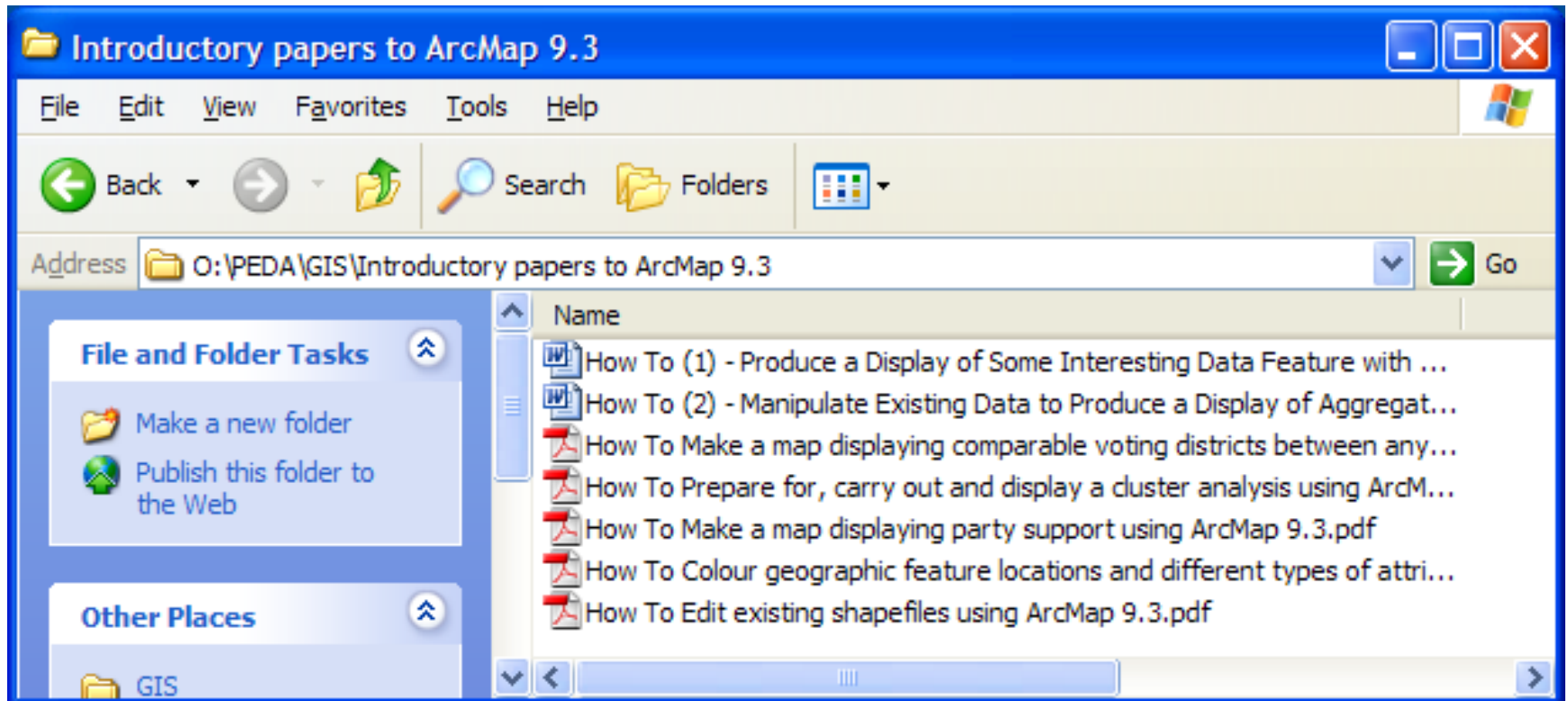


Figure 2: The “Start editing”-option within the “Editor”-toolbar’s drop bar

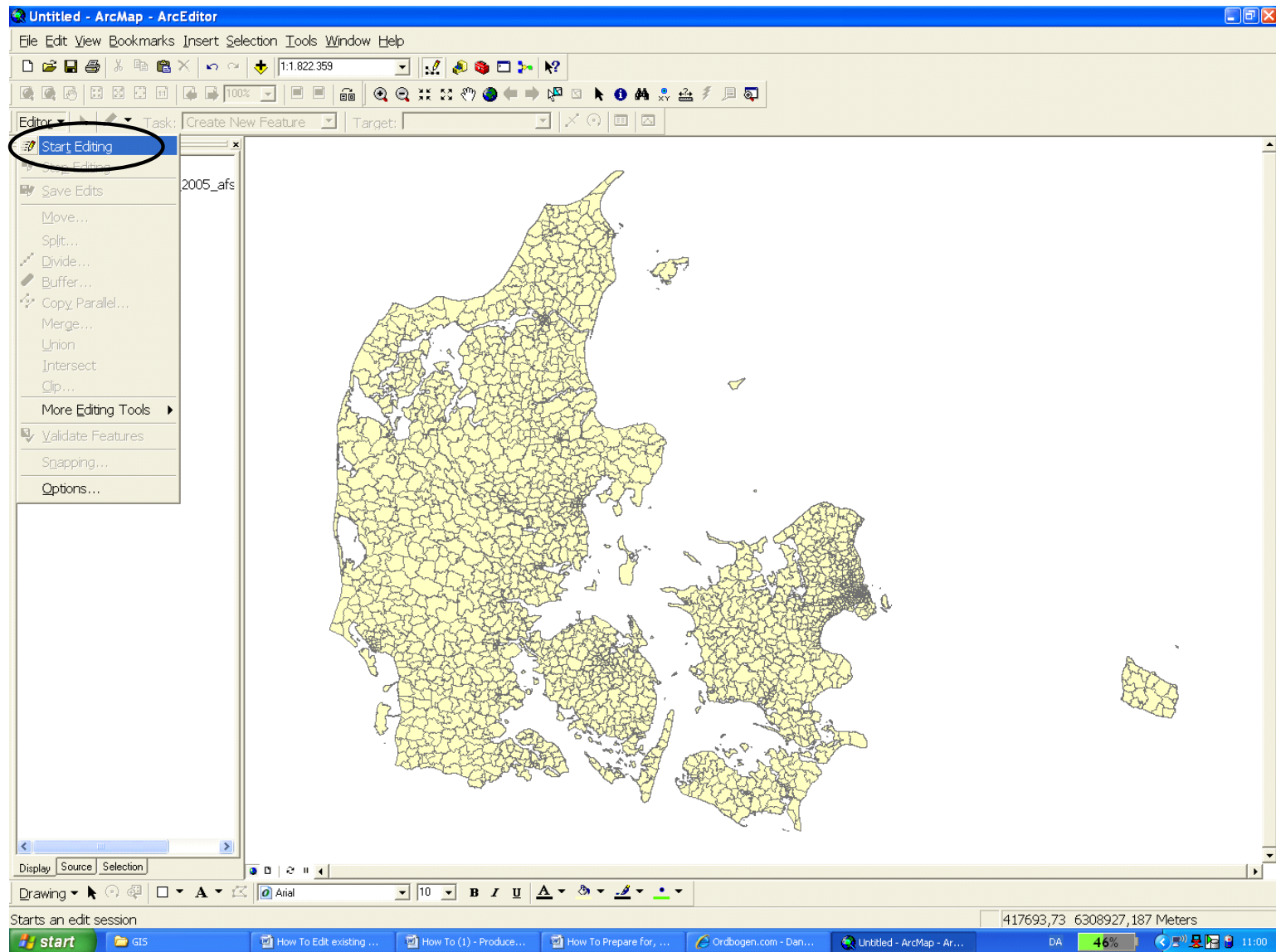
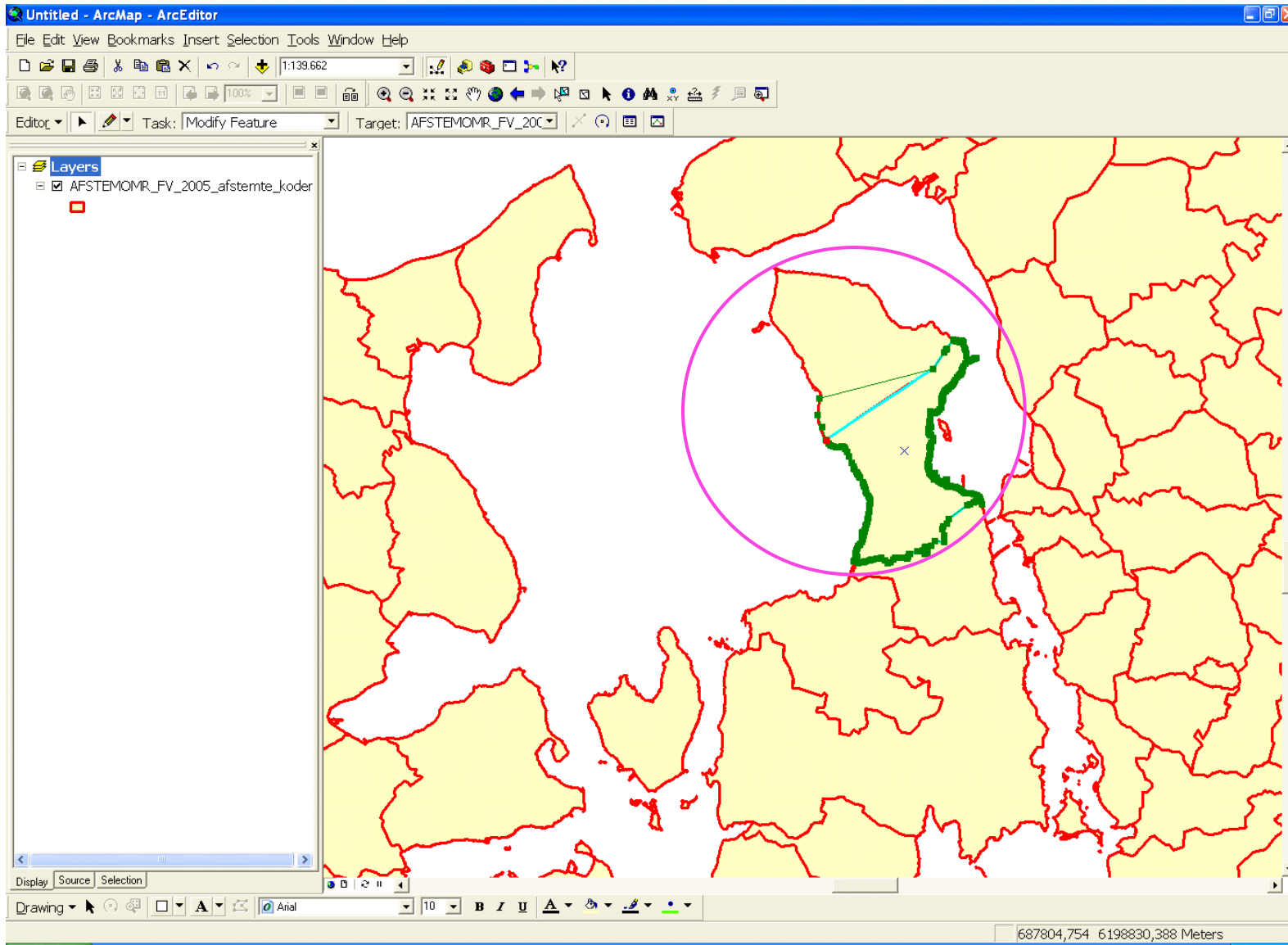


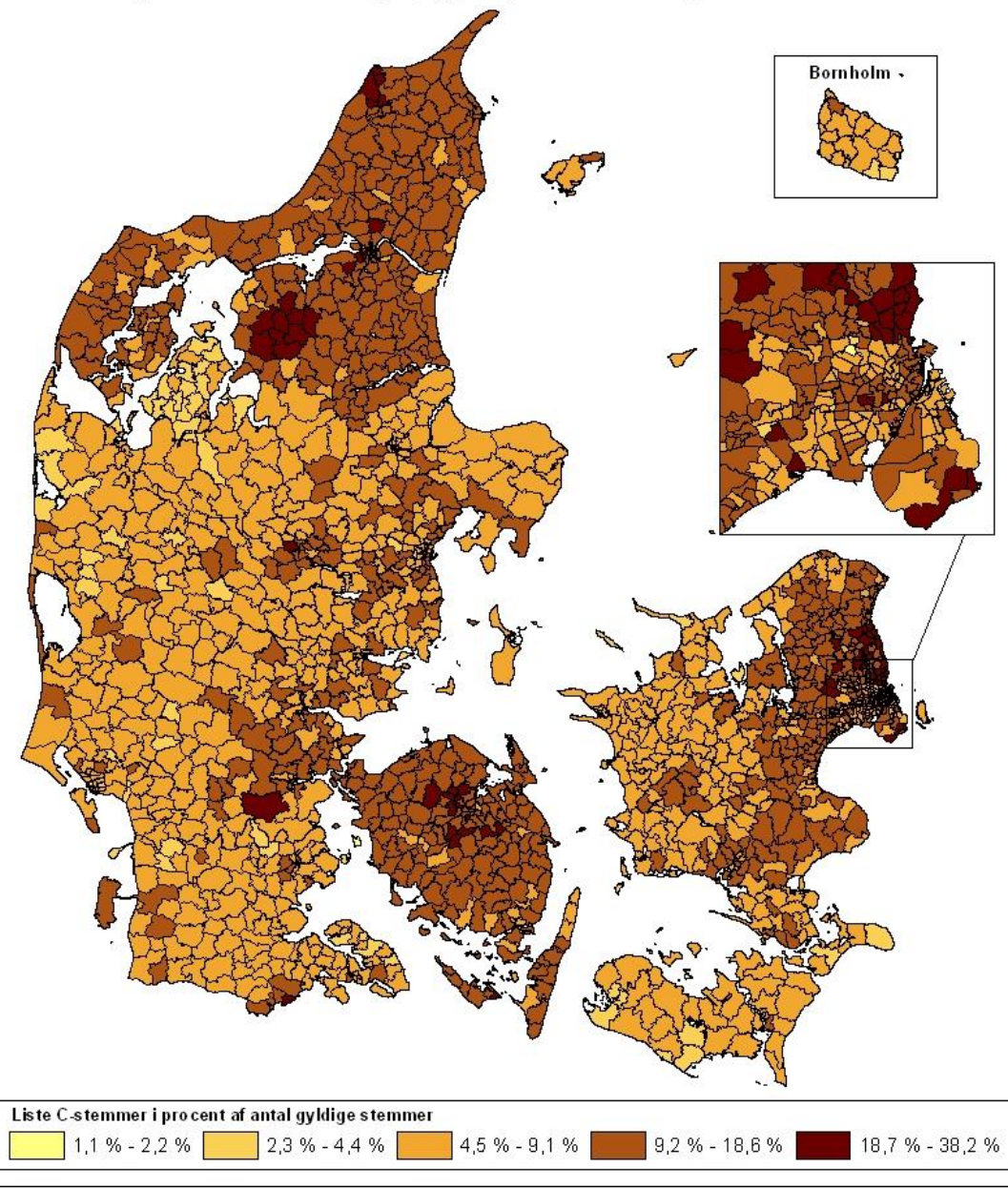
Figure 7: Dragging with the “Edit”-tool the eight vertices that originally separates the 2005 polling districts Jægerspris and Skoven to the border of Skoven



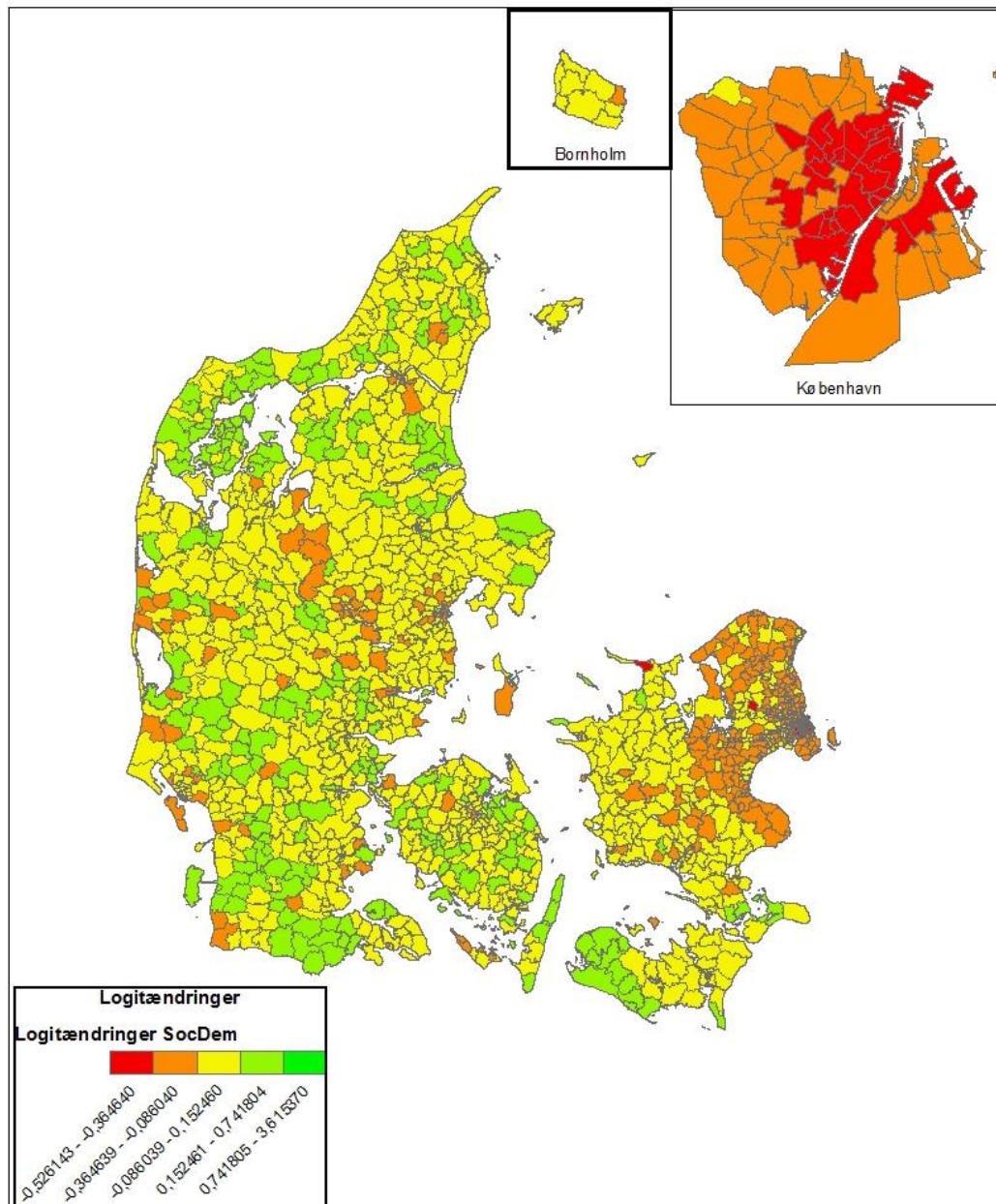
Party strength

Det Konservative Folkepartis andel af gyldige stemmer
- logittransformeret og opgjort på afstemningsområder FV2007

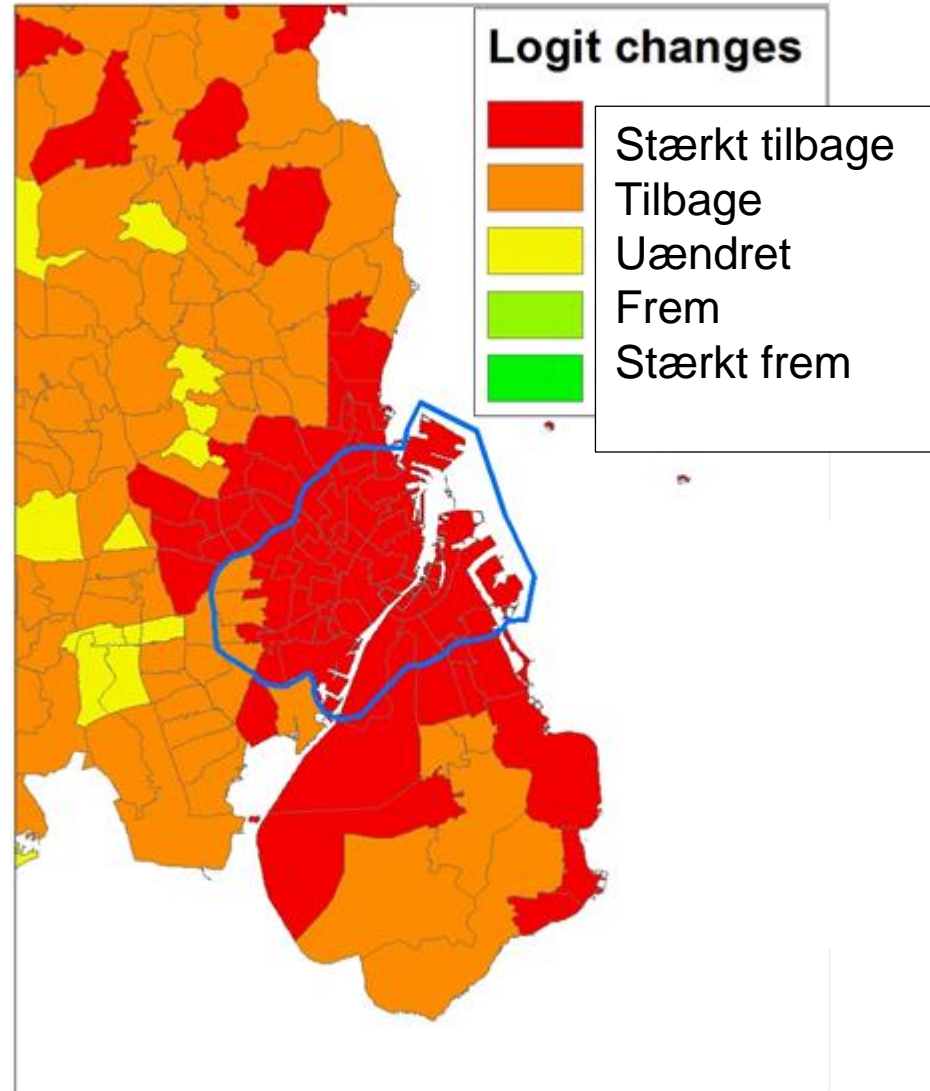
Conservative
shares of valid
votes by voting
precincts NE 2007



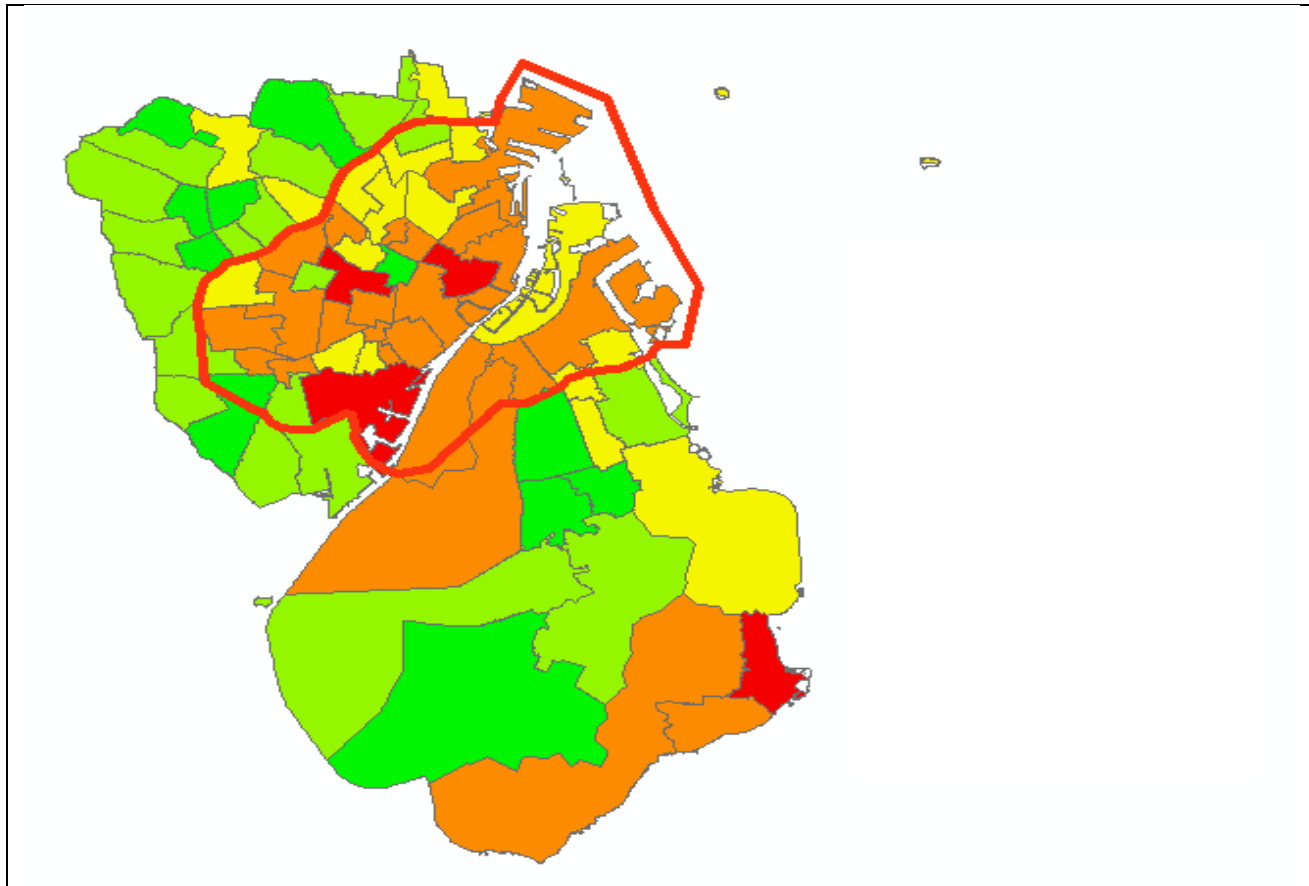
Socialdemokratiet - Logitændringer FV07 til FV11 på afstemningssted



Ændring i logit tilslutning til Socialdemokratiet (centreret).
Københavnsområdet med indtegnet forventet betalingsring

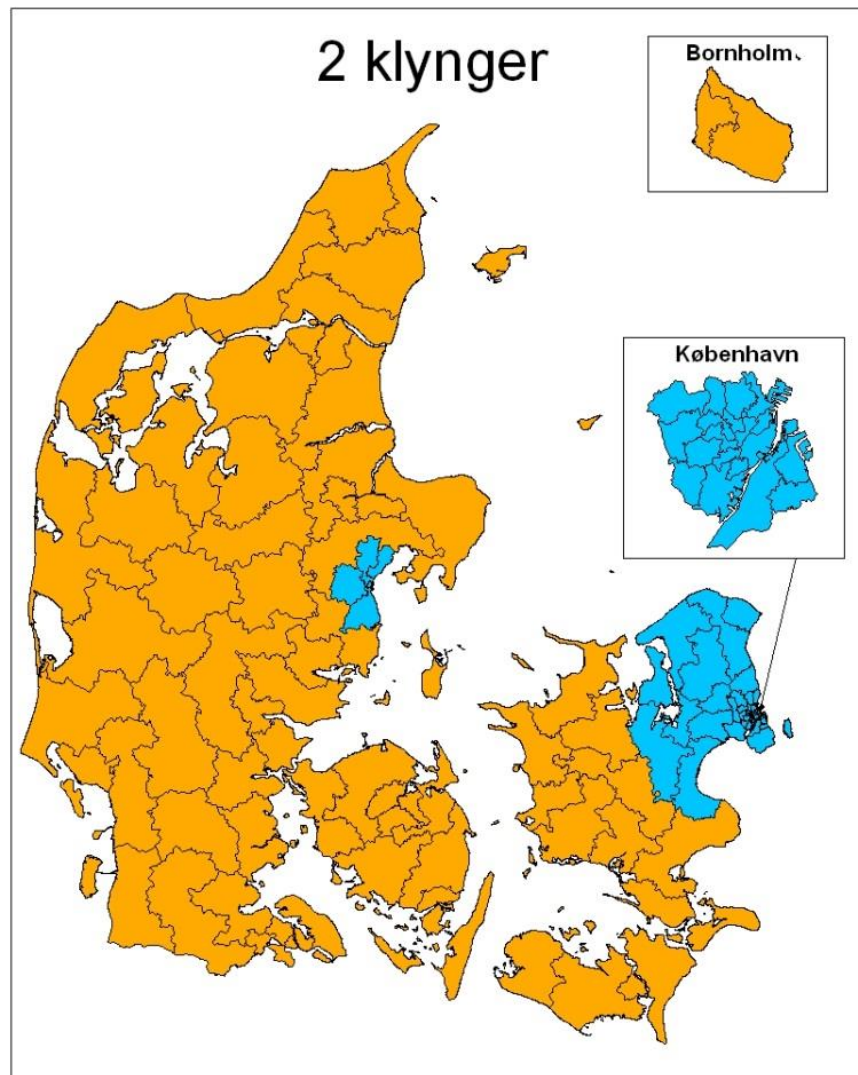


Figur 24. Ændret tilslutning til Socialdemokratiet, rensset for effekten af personlige stemmer

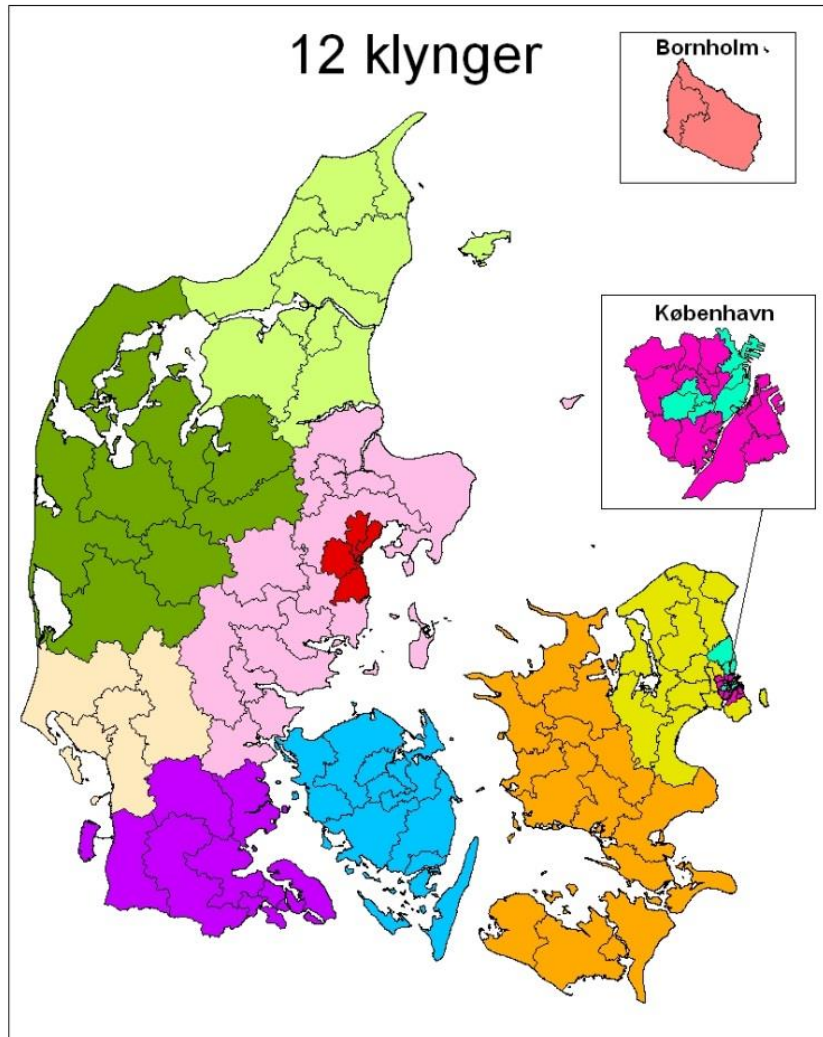


Finding homogenous dynamic clusters

Figur 17. Politisk kulturelt centrum og periferi udskilt ved klyngeanalyse af ændringer fra valg til valg i perioden 1979-2001 med kun to klynger



Figur 18. Politiske subkulturer i Danmark udskilt ved klyngeanalyse med 12 klynger



Distance to candidate

Master thesis by Kristian Elgaard Pedersen

Constituency of Ringkjøbing

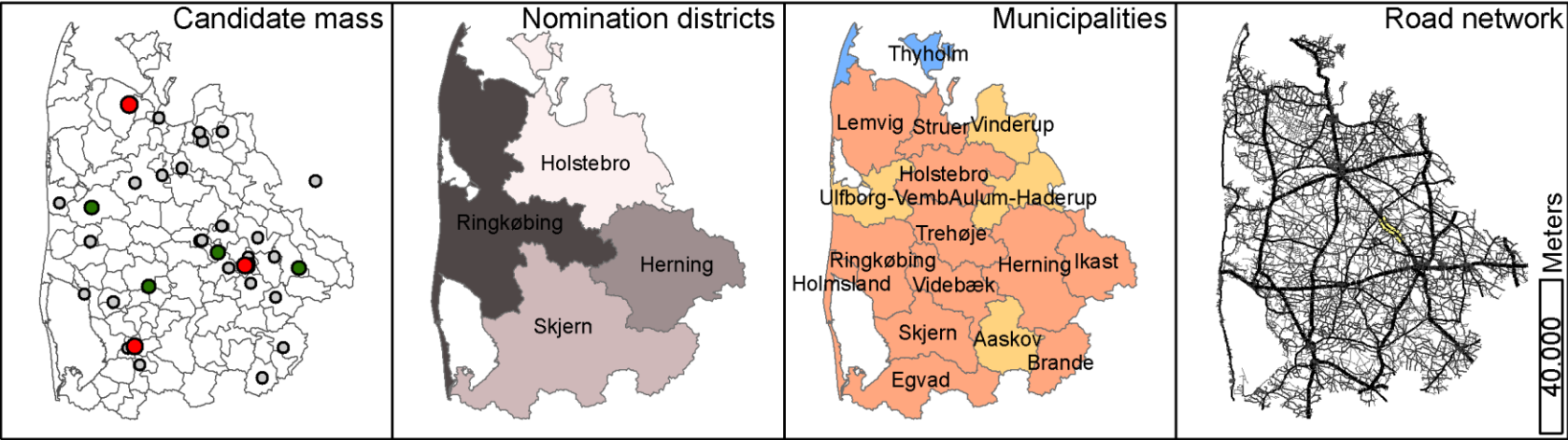
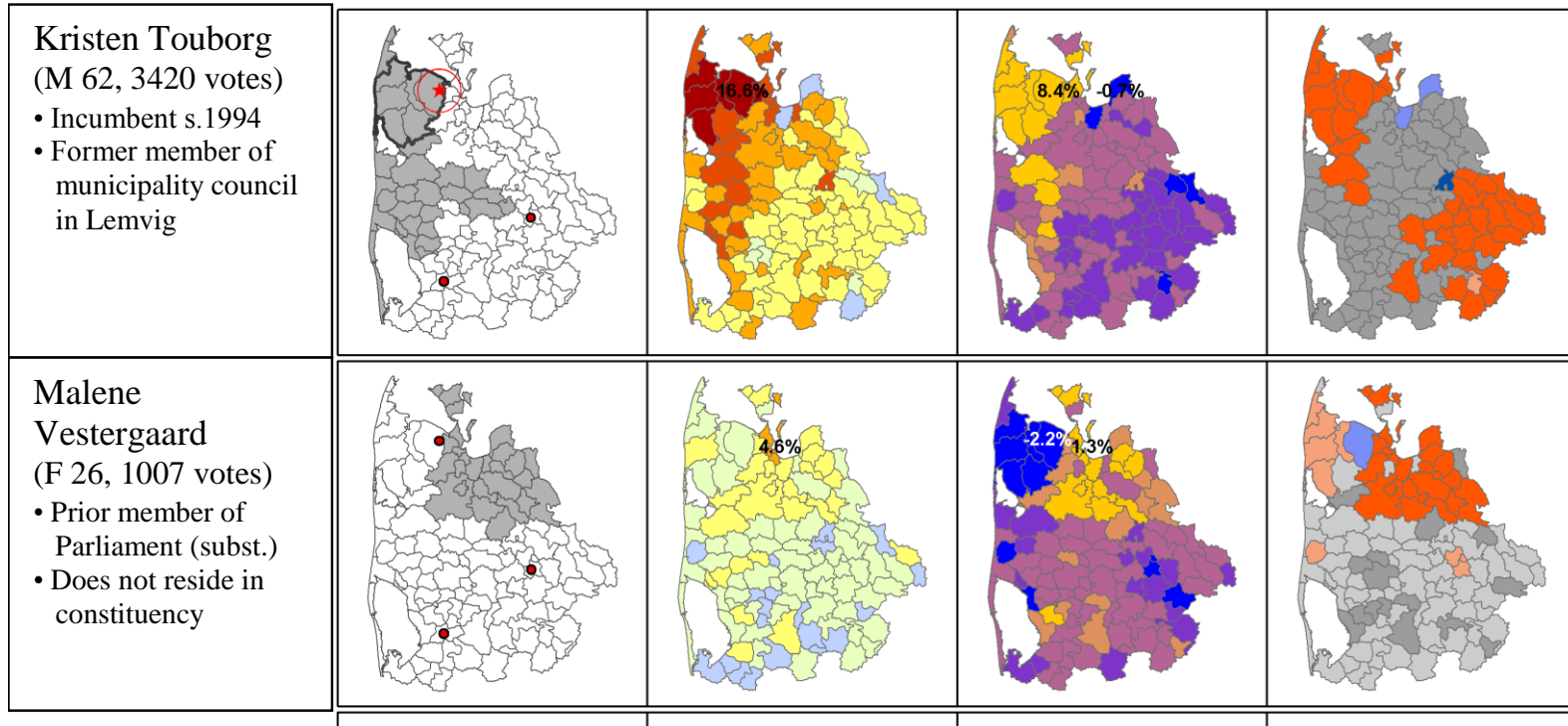
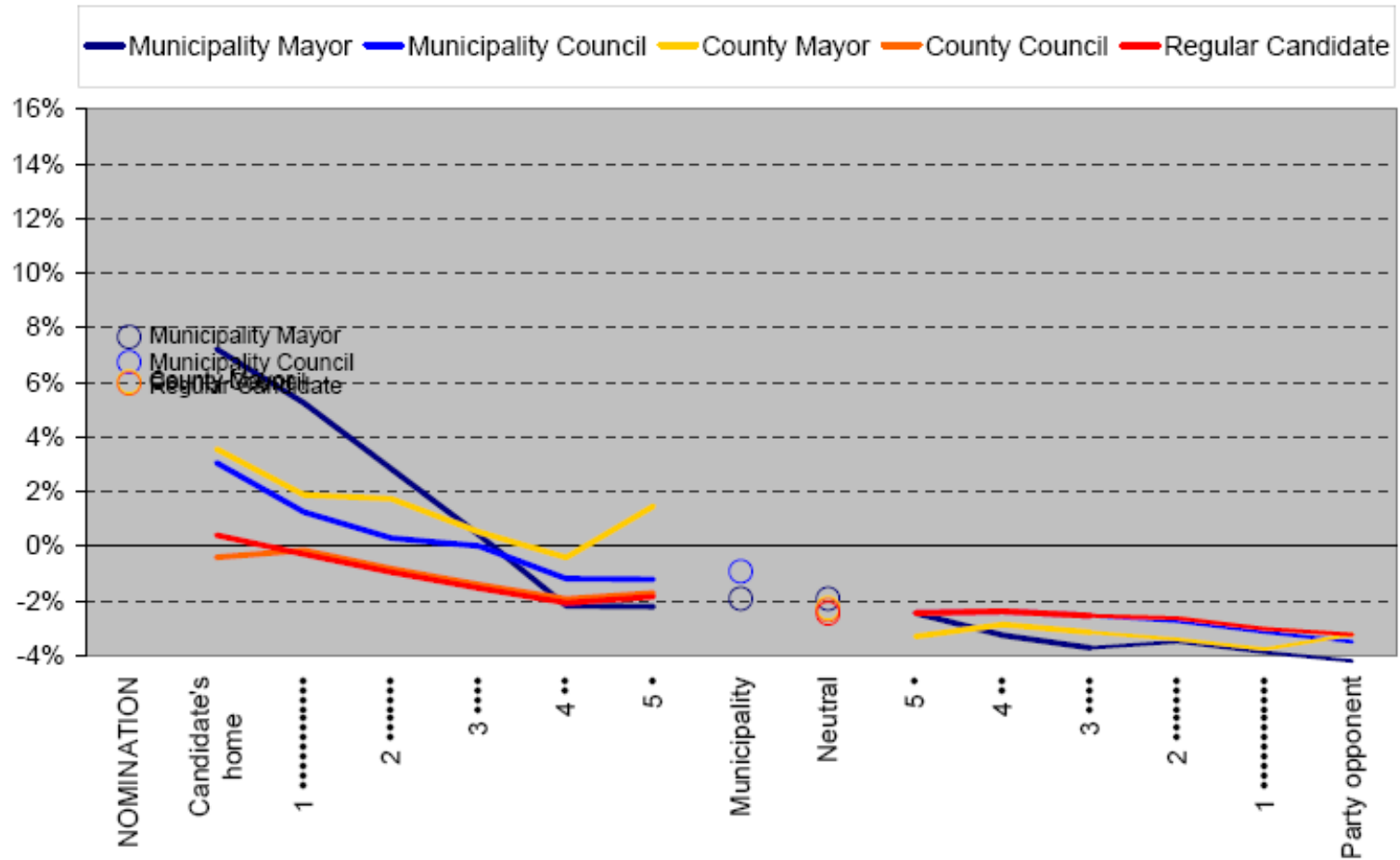


Figure 14: Socialist People's Party Candidates in Constituency of Ringkjøbing

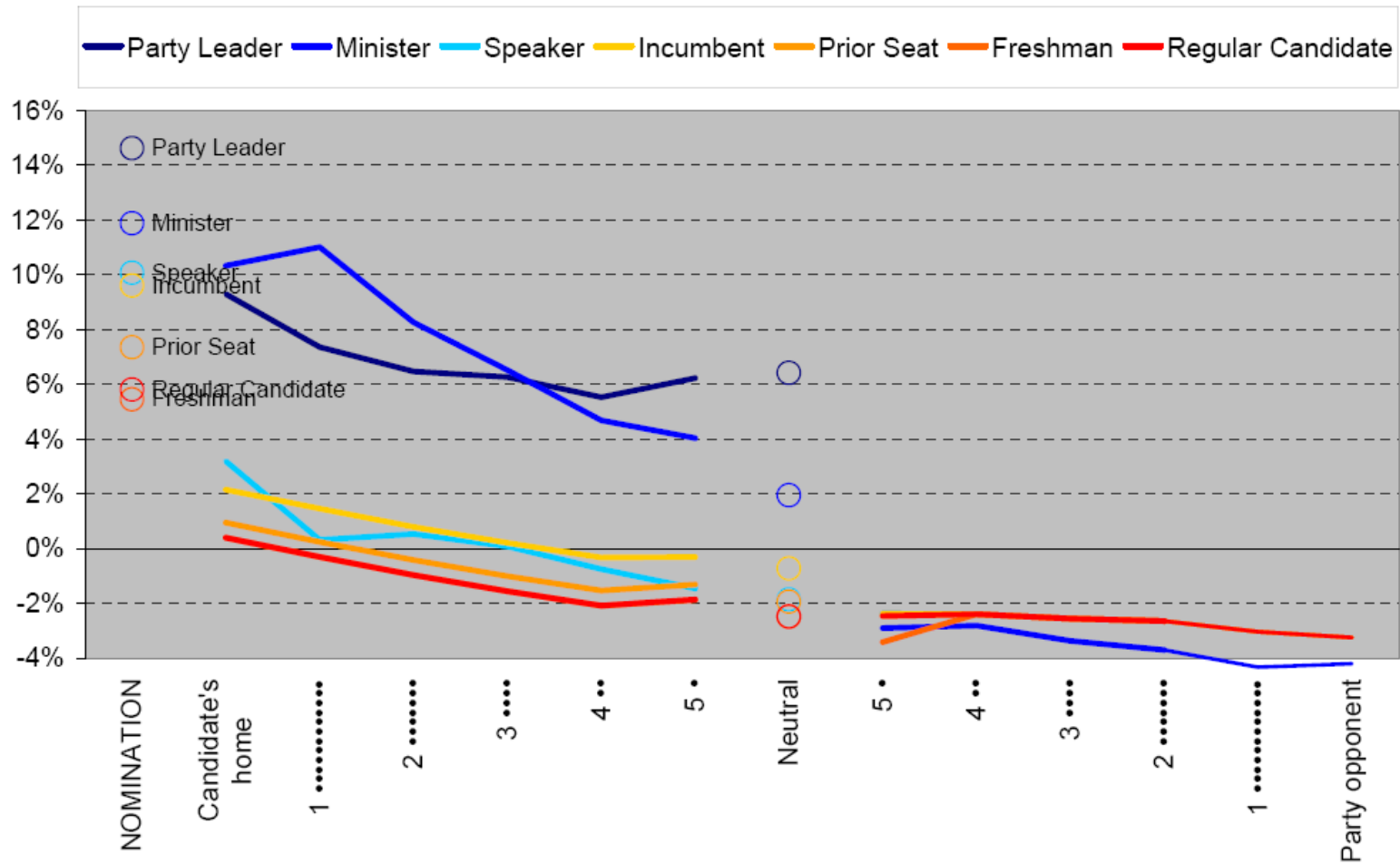
Candidate Residence and Nomination Actual Preferential Vote Share Variation in Local Strength Score Significant Clusters (LISA)



Influence of Local Political Experience on Nomination and Residential Effects

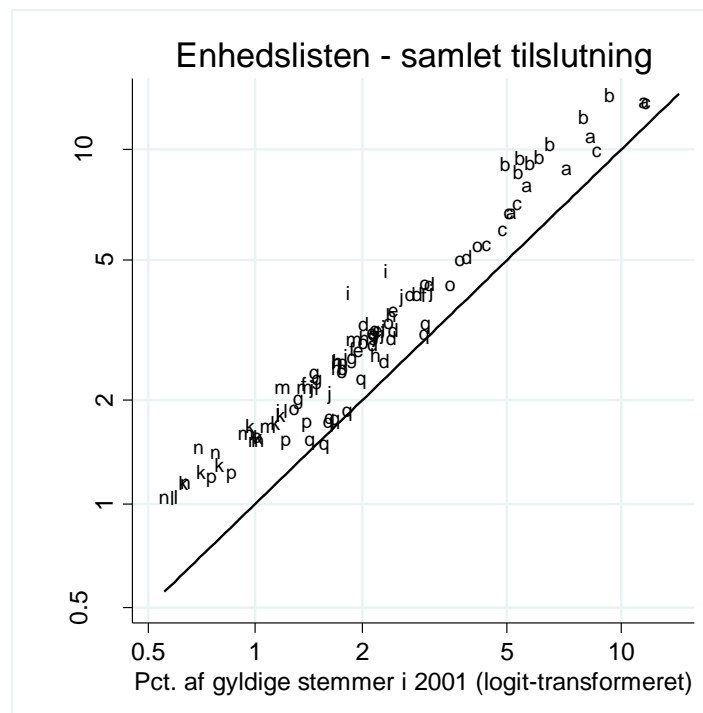
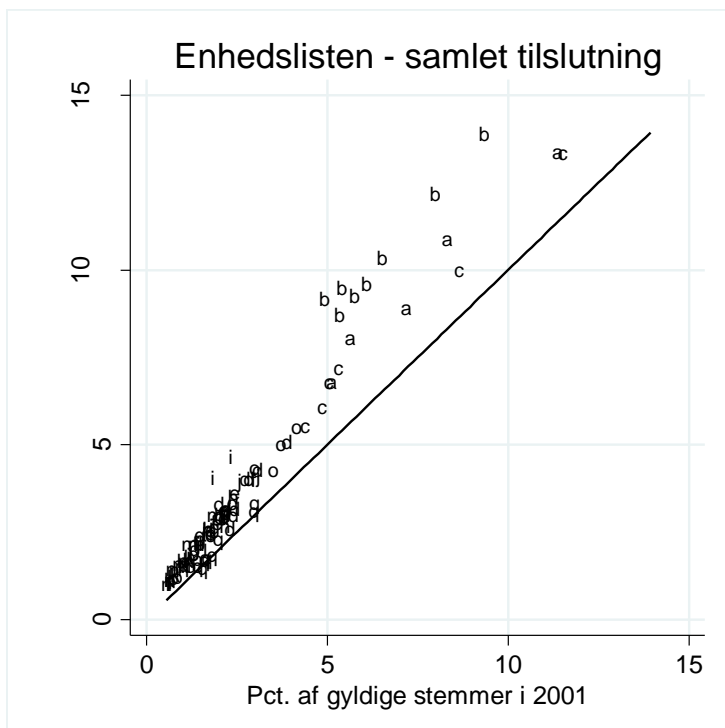


Influence of National Political Experience on Nomination and Residential Effects



Graphs

Figur 8. Ensartet sving før og efter procent-massage (Enhedslisten 2001-2005)



a Søndre Storkreds
b Østre Storkreds
c Vestre Storkreds

d Københavns Amt
e Frederiksborg Amt
f Roskilde Amt

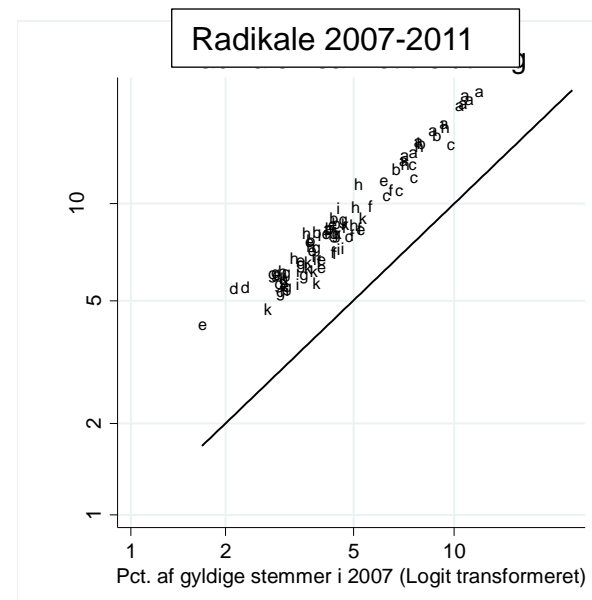
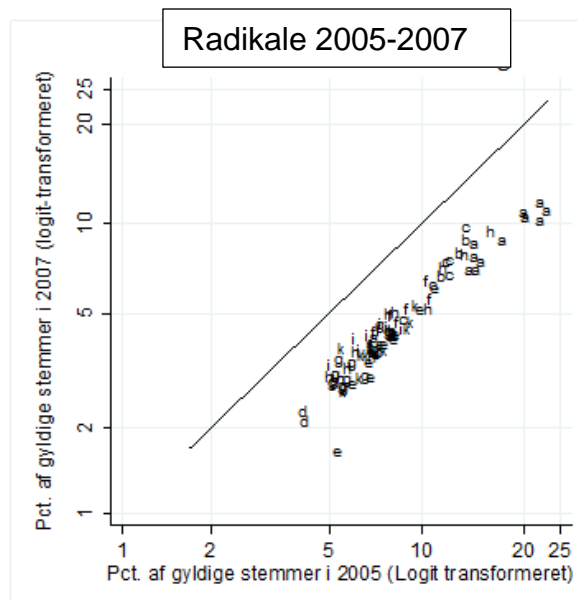
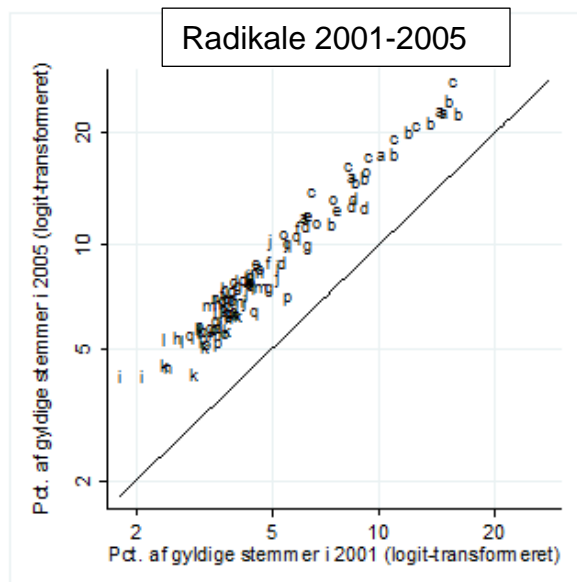
g Vestsjællands Amt
h Storstrøms Amt
i Bornholms Amt

j Fyns Amt
k Sønderjyllands Amt
l Ribe Amt

m Vejle Amt
n Ringkøbing Amt
o Århus Amt

p Viborg Amt
q Nordjyllands Amt

Figur 9. Den radikale rutschebane-tur fra 2001 til 2011



a Søndre Storkreds
b Østre Storkreds
c Vestre Storkreds

d Københavns Amt
e Frederiksborg Amt
f Roskilde Amt

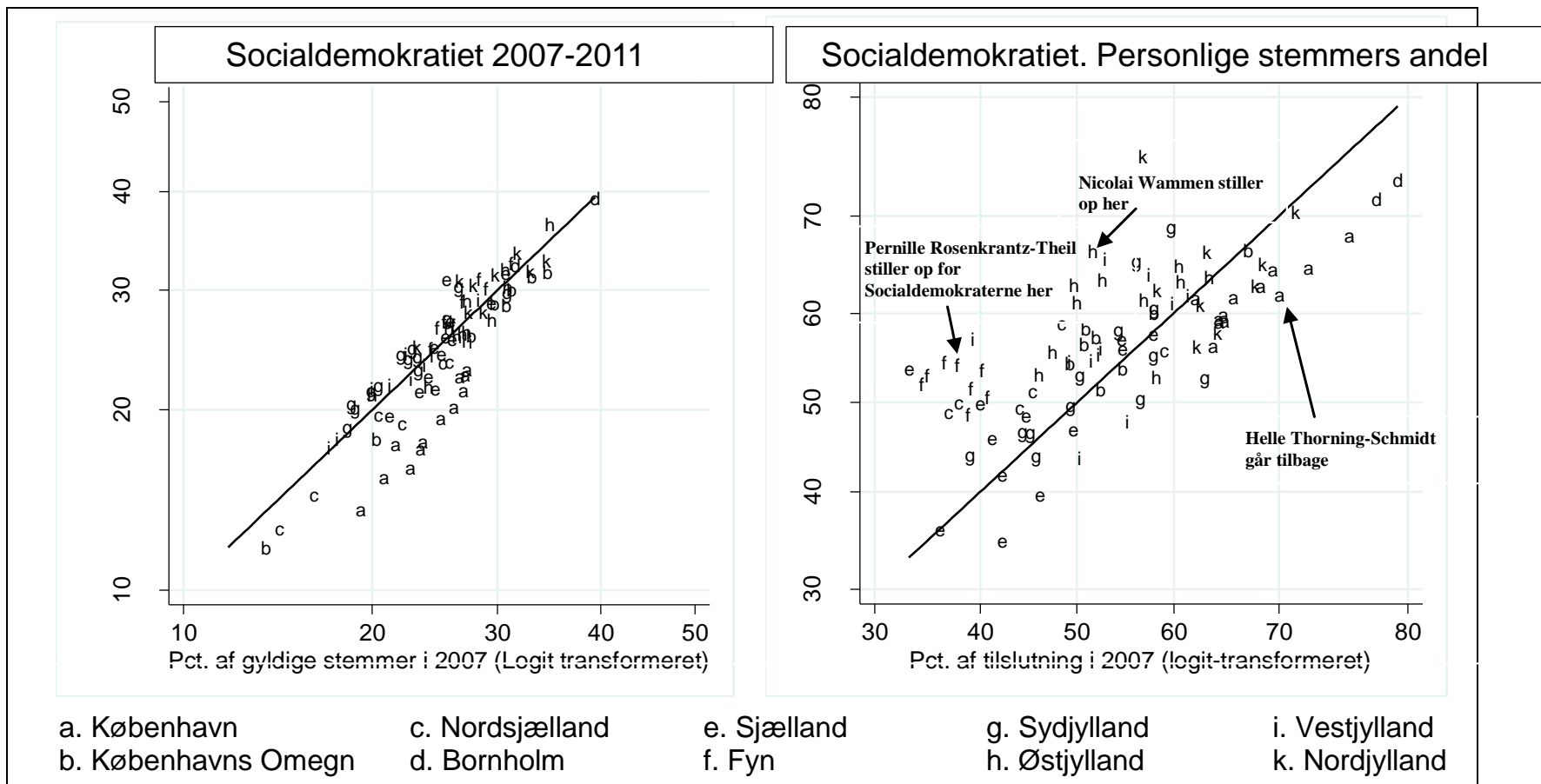
g Vestsjællands Amt
h Storstrøms Amt
i Bornholms Amt

j Fyns Amt
k Sønderjyllands Amt
l Ribe Amt

m Vejle Amt
n Ringkøbing Amt
o Århus Amt

p Viborg Amt
q Nordjyllands Amt

Figur 23. Ændring i tilslutning og i andel personlige stemmer til Socialdemokratiet



Statistical analyss

Personal votes and party strength at local elections

Master thesis by
Christian Eg Sloth

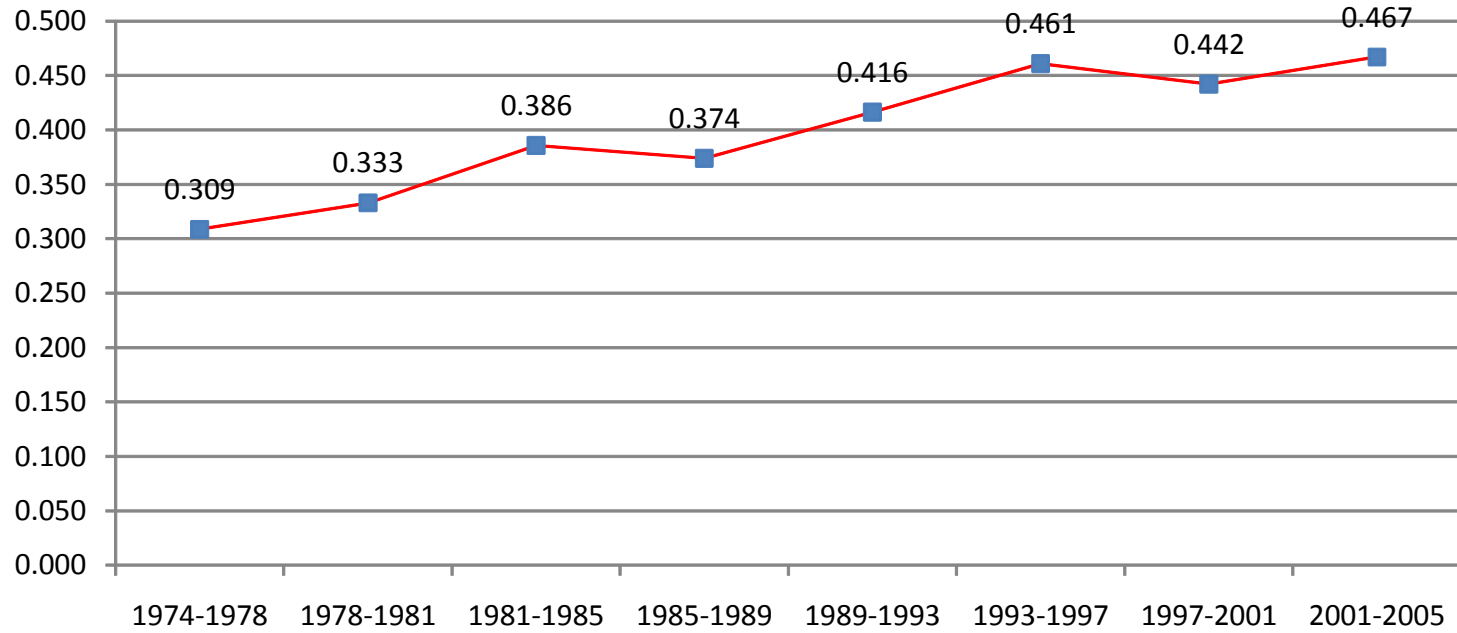
Random intercept model with party-specific intercept. Dependent variable is change in party support 2005-2009

| Fixed part | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6* |
|-----------------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| Constant | 0,034 | 0,067 | -0,001 | -0,001 | 0,067 | 0,040 |
| Change in NE support | | 0,508 | 0,728 | 0,727 | 0,844 | 0,431 |
| Difference between LE and NE 2005 | | | 0,340 | 0,340 | 0,240 | 0,247 |
| Incumbency | | | | -0,009 | -0,016 | -0,022 |
| Change in personal votes | | | | | 0,463 | 0,476 |
| Mean change in NE support | | | | | | 0,348 |
| Mean change in personal votes | | | | | | -0,284 |
| Random part | | | | | | |
| sd(party), level 2 | 0,380 | 0,138 | - | - | 0,027 | - |
| sd(municipality), Level 1 | 0,359 | 0,359 | 0,312 | 0,312 | 0,252 | 0,248 |
| Rho | 0,529 | 0,129 | - | - | 0,011 | - |
| Statistics | | | | | | |
| Variance reduction on level 1 | | - | 13,1 % | 13,1 % | 29,8 % | 30,9 % |
| Log likelihood | - 263,0 | - 257,4 | - 159,2 | -159,1 | - 28,3 | - 15,9 |

N=627. Alle coefficients are significant < 0,001. Insignificant coefficients in bold..

* Hausmann test only shows no endogeneity problems for model 6.

Effect of personal votes at Local Elections 1974-2005



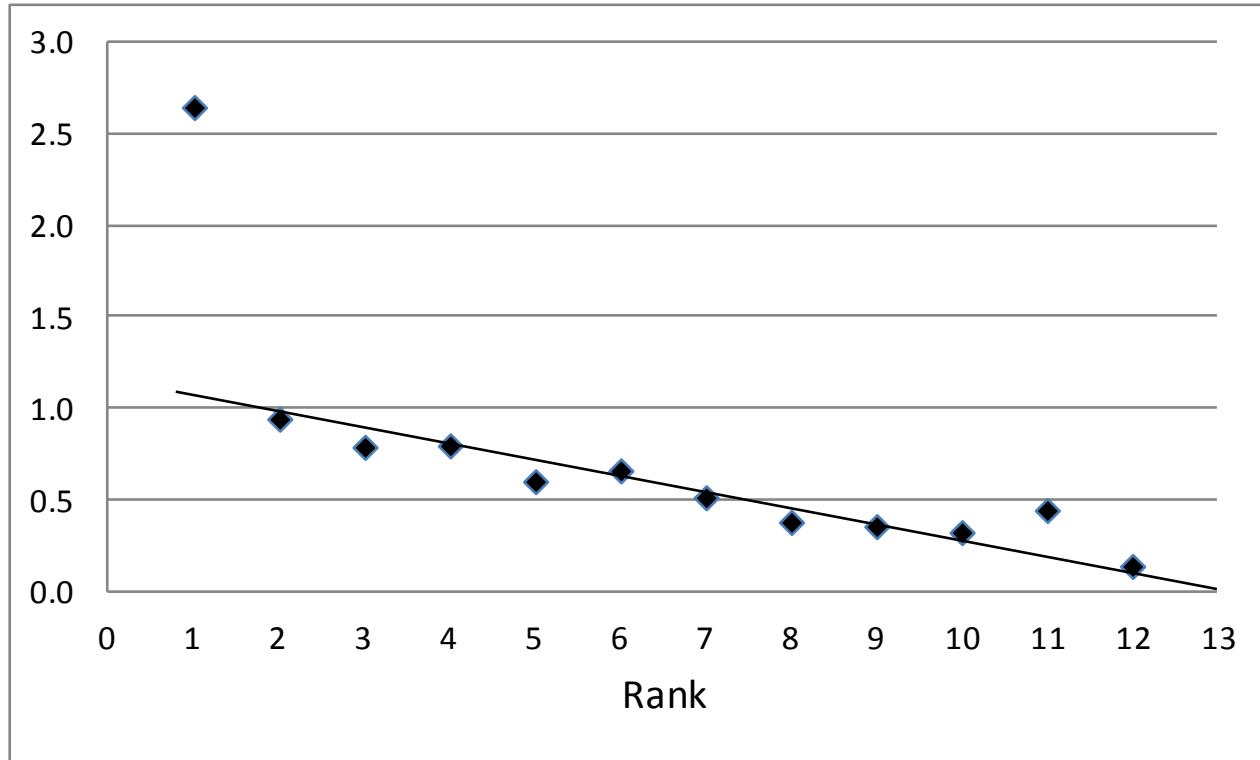
Candidate standing and preferential voting in Denmark

David Vestergaard Eriksen

Tobias Tangsgaard Varneskov

Søren Risbjerg Thomsen

Table 1. Effect on personal vote by rank on ballot list (logit regression)



Only candidates with open list standing. Control variables in table 2.

Table 2. Multilevel model (FE) for candidate's personal vote shares in 92 nomination districts

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 4 |
|-----------------------------|------------|------------|------------|------------|------------|
| | Logit | Logit | Logit | Logit | Odds ratio |
| <i>Candidate attributes</i> | | | | | |
| Woman | 0.584 *** | 0.635 *** | 0.585 *** | 0.548 *** | 1.730 *** |
| Age (ref. 18-24) | | | | | |
| 36-45 | 0.124 * | -0.021 | -0.142 *** | -0.138 *** | 0.871 *** |
| 46-55 | -0.137 * | -0.295 *** | -0.302 *** | -0.272 *** | 0.762 *** |
| 56+ | 0.201 *** | -0.030 | -0.275 *** | -0.285 *** | 0.752 *** |
| <i>Local experience</i> | | | | | |
| Resident | | 1.512 *** | 1.523 *** | 0.712 *** | 2.038 *** |
| Runs again | | 0.684 *** | -0.090 * | 0.035 | 1.036 |
| local politics | | | | | |
| Less than 5 years | | 0.878 *** | 1.108 *** | 1.025 *** | 2.787 *** |
| 5 years or more | | 1.190 *** | 1.158 *** | 1.037 *** | 2.821 *** |
| Mayor | | 0.418 * | 0.576 ** | 0.536 *** | 1.709 *** |
| Party work | | 0.353 *** | 0.086 * | 0.029 | 1.029 |
| <i>National experience</i> | | | | | |
| MP (ref.: no exp.) | | | | | |
| Less than 5 years | | | 1.196 *** | 1.056 *** | 2.875 *** |
| 5 years or more | | | 1.603 *** | 1.460 *** | 4.306 *** |
| Minister | | | 0.602 *** | 0.695 *** | 2.004 *** |
| Prominent politician | | | 1.549 *** | 1.447 *** | 4.250 *** |
| <i>Rank on ballot list</i> | | | | | |
| Rank | | | | -0.072 *** | 0.931 *** |
| First rank | | | | 1.679 *** | 5.360 *** |
| <i>Party constants</i> | | | | | |
| Unity List | -0.386 | 0.164 | 0.580 | 0.412 | 1.510 |
| Soc. P. Party | 0.098 | 0.171 * | 0.206 ** | 0.215 *** | 1.240 *** |
| Social Democrats | 0.151 * | 0.171 ** | -0.035 | -0.049 | 0.952 |
| Social Liberals | 0.253 *** | 0.384 *** | 0.661 *** | 0.535 *** | 1.707 *** |
| Christain Democrats | 0.351 *** | 0.608 *** | 0.810 *** | 0.778 *** | 2.177 *** |
| Liberal Alliance | 0.428 *** | 0.779 *** | 0.745 *** | 0.592 *** | 1.808 *** |
| Conservatives | 0.259 *** | 0.336 *** | 0.219 *** | 0.165 *** | 1.179 *** |
| Liberal party | 0.155 * | 0.047 | -0.383 *** | -0.384 *** | 0.681 *** |
| overall constant | -4.554 *** | -5.065 *** | -4.976 *** | -4.633 *** | 0.010 *** |
| N | 6593 | 6593 | 6593 | 6593 | |
| R ² within | 0.042 | 0.220 | 0.421 | 0.575 | |
| R ² between | 0.025 | 0.348 | 0.240 | 0.707 | |
| R ² overall | 0.040 | 0.217 | 0.406 | 0.571 | |
| rho - spatial correlation | 0.076 | 0.065 | 0.094 | 0.069 | |

Only candidates with open list standing. Legend: * p<.05; ** p<.01; *** p<.001

Integration of ecological data with survey data

Multi-level analysis of the impact of
incumbency and personal votes on
individual voting behavior at local elections

Blue vote at Local Elections 2009 . Two-level random intercept logit model with individual voters as level 1 and municipalities as level 2

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 |
|---------------------------------------|------------|------------|------------|------------|------------|
| Left-right scale | | 0.719 *** | 0.717 *** | 0.716 *** | 0.717 *** |
| Incumbent party dummy | | | 0.232 † | | -0.053 |
| Personal votes | | | | 0.496 *** | 0.528 *** |
| Constant | -0.232 *** | -0.394 *** | -0.505 *** | -0.507 *** | -0.489 *** |
| ln(level 2 var) | -1.849 | -1.769 *** | -1.867 *** | -2.055 *** | -2.049 *** |
| N | 2697 | 2697 | 2697 | 2697 | 2697 |
| Log likelihood | -1835.62 | -1376.23 | -1374.52 | -1368.77 | -1368.71 |
| rho | 0.046 | 0.049 | 0.045 | 0.037 | 0.038 |
| † p <.1 * p<.05; ** p<.01; *** p<.001 | | | | | |

Ecological inference

Estimating individual behavior from aggregate data

Ecological inference

Net transitions between parties 2001-2005

TABEL 15.2 *Netto-vandringer mellem partierne 2001-2005 i hele landet (i pct. af samtlige vælgere).*

| 2001 | 2005 | | | | | | | | | | | | I alt |
|--------|------|------------|-------------|-------------|------------|-------------|------|-------------|-------------|------------|-----|--------|-------|
| | MP | EL | SF | S | R | CD | KD | K | V | DF | UP | St.ik. | |
| EL | 0,0 | 0,0 | -0,4 | -0,2 | 0,2 | 0,0 | 0,0 | 0,0 | -0,1 | 0,0 | 0,0 | -0,2 | -0,8 |
| SF | 0,0 | 0,4 | 0,0 | -0,3 | 0,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | -0,1 | 0,5 |
| S | 0,0 | 0,2 | 0,3 | 0,0 | 0,5 | 0,1 | 0,0 | 0,0 | 0,1 | 0,4 | 0,0 | 1,9 | 3,4 |
| R | 0,0 | -0,2 | -0,5 | -0,5 | 0,0 | -0,4 | -0,1 | -0,3 | -0,7 | 0,0 | 0,0 | -0,5 | -3,2 |
| CD | 0,0 | 0,0 | 0,0 | -0,1 | 0,4 | 0,0 | 0,0 | 0,2 | 0,1 | 0,0 | 0,0 | 0,0 | 0,7 |
| KD | 0,0 | 0,0 | 0,0 | 0,0 | 0,1 | 0,0 | 0,0 | 0,1 | 0,1 | 0,0 | 0,0 | 0,2 | 0,5 |
| K | 0,0 | 0,0 | 0,0 | 0,0 | 0,3 | -0,2 | -0,1 | 0,0 | -0,9 | 0,0 | 0,0 | 0,1 | -0,8 |
| V | 0,0 | 0,1 | 0,0 | -0,1 | 0,7 | -0,1 | -0,1 | 0,9 | 0,0 | 0,7 | 0,0 | 0,5 | 2,6 |
| DF | 0,0 | 0,0 | 0,0 | -0,4 | 0,0 | 0,0 | 0,0 | 0,0 | -0,7 | 0,0 | 0,0 | 0,4 | -0,8 |
| FP | 0,0 | 0,0 | 0,0 | 0,1 | 0,0 | 0,0 | 0,0 | 0,0 | 0,1 | 0,1 | 0,0 | 0,2 | 0,5 |
| UP | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| St.ik. | 0,1 | 0,2 | 0,1 | -1,9 | 0,5 | 0,0 | -0,2 | -0,1 | -0,5 | -0,4 | 0,0 | 0,0 | -2,4 |
| I alt | 0,2 | 0,8 | -0,5 | -3,4 | 3,2 | -0,7 | -0,5 | 0,8 | -2,6 | 0,8 | 0,0 | 2,4 | 0,0 |

Note: Estimeret ved økologisk inferens med 1.631 afstemningssteder inden for 17 valgkredse.

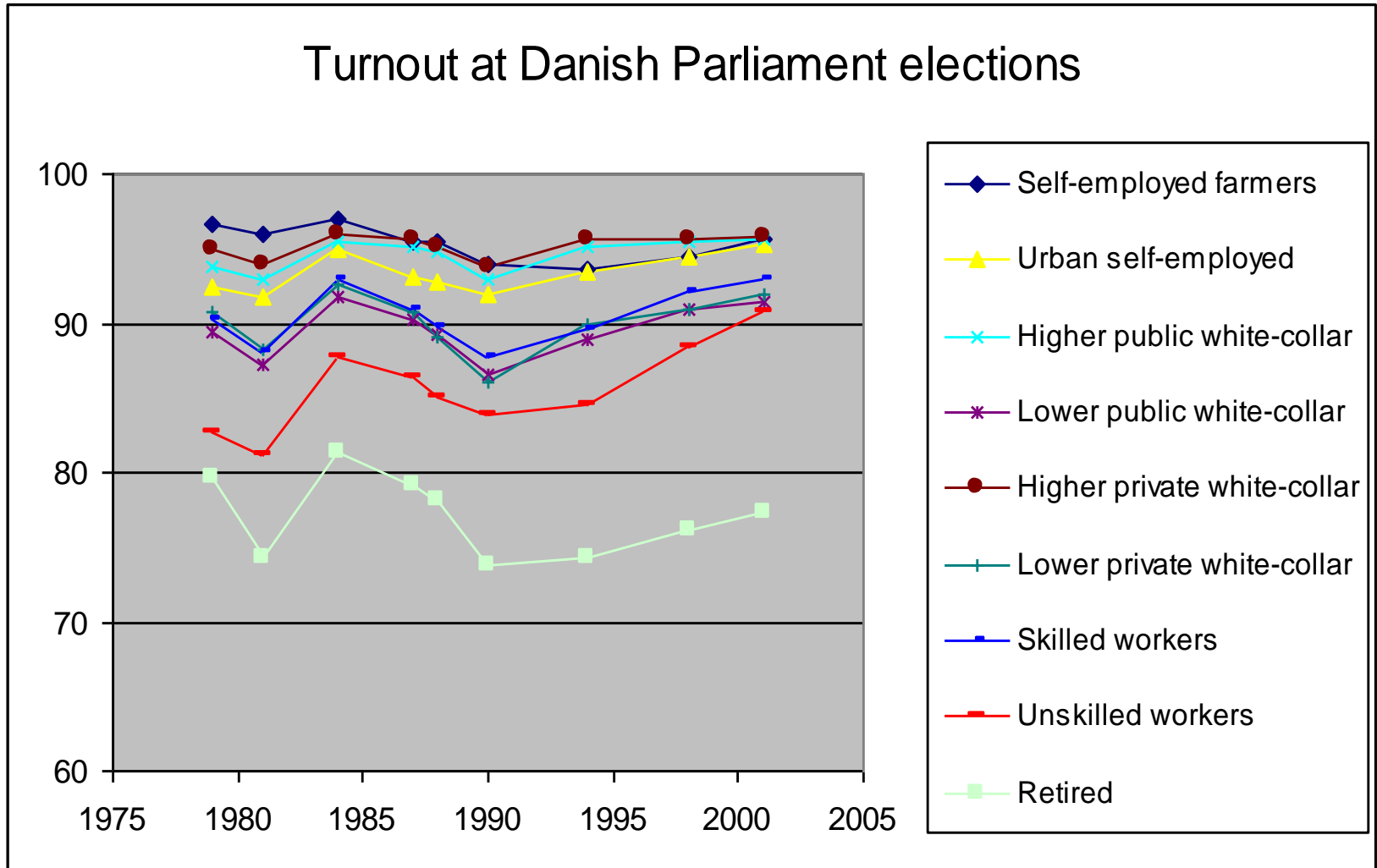
Ecological inference – net flow within constituencies

TABEL 15.3 Netto-vandringer mellem udvalgte partier 2001-2005 i de enkelte valgkredse.

| | SF til EL | SF til R | S til SF | S til R | S til DF | CD til R | V til R | V til K | V til DF |
|-------------------------|--------------|-------------|-------------|------------|-------------|-------------|------------|------------|-------------|
| Hele landet | 0,4 | 0,5 | 0,3 | 0,5 | 0,4 | 0,4 | 0,7 | 0,9 | 0,7 |
| Søndre Storkreds | 1,7 | 0,7 | 0,6 | 0,1 | 0,5 | 0,9 | 1,3 | 0,7 | -0,1 |
| Østre Storkreds | 2,0 | 1,2 | 0,3 | 0,1 | 0,6 | 0,9 | 1,6 | 0,9 | 0,0 |
| Vestre Storkreds | 1,3 | 1,3 | 0,4 | 0,5 | -0,1 | 1,0 | 1,7 | 0,5 | 0,1 |
| Københavns Amtskr. | 0,6 | 0,1 | 0,1 | 0,0 | 1,4 | 0,9 | 1,6 | 2,6 | 0,0 |
| Frederiksborg Amtskr | 0,6 | 0,6 | 0,2 | 0,2 | 1,2 | 0,3 | 1,9 | 2,1 | 0,5 |
| Roskilde Amtskreds | 0,1 | 0,7 | 0,4 | 1,3 | 0,4 | 0,1 | 0,7 | 0,1 | 1,9 |
| Vestsjællands Amtsk. | 0,2 | 0,3 | 0,2 | 0,5 | 0,4 | 0,2 | 0,3 | -0,2 | 0,8 |
| Storstrøms Amtskr. | 0,1 | 0,3 | 0,1 | 0,5 | 0,5 | 0,2 | 0,5 | 0,2 | 1,4 |
| Bornholms Amtskreds | 0,8 | 0,3 | 0,7 | 1,3 | -0,1 | 0,1 | 0,0 | 0,0 | -0,2 |
| Fyns Amtskreds | 0,3 | 1,0 | 0,3 | 0,3 | 0,1 | 0,2 | 0,0 | 0,8 | 0,9 |
| Sønderjyllands Amtsk | 0,0 | 0,4 | 0,2 | 0,6 | 0,8 | 0,1 | 0,1 | 0,3 | 0,3 |
| Ribe Amtskreds | 0,1 | 0,2 | 0,6 | 0,4 | 0,6 | 0,2 | 0,8 | 0,6 | 1,4 |
| Vejle Amtskreds | 0,0 | 0,4 | 0,4 | 0,5 | 0,2 | 0,4 | 0,5 | 0,4 | 0,9 |
| Ringkjøbing Amtskr. | 0,0 | 0,1 | 0,3 | 1,6 | 0,2 | 0,1 | 0,2 | 0,4 | 0,8 |
| Århus Amtskreds | 0,6 | 0,7 | 0,3 | 0,7 | -0,2 | 0,6 | 0,3 | 1,1 | 0,7 |
| Viborg Amtskreds | 0,0 | 0,2 | 0,3 | 1,2 | 0,2 | 0,1 | -0,1 | 0,7 | 0,3 |
| Nordjyllands Amtskr. | 0,0 | 0,6 | 0,0 | 0,3 | -0,2 | 0,4 | 0,4 | 0,8 | 1,0 |

Ecological inference

Turnout at Danish Parliament elections



THANK YOU