Data Report

Facebook Posts of Danish MPs

March 2018, Final

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Contents:

1: Scraped variables

Variable name	Description	Notes
i1_polname	Name of politician	
i2_page	Name of facebook page	
i3_datetime	Time of post (year-month-date-time)	
i4_measurement	Time of measurement (year-month-date-time)	Posts are scraped 48-50 hours after the update to allow for likes and follower reactions to happen
i5_type	Dummy variable with the values 'story' and 'post'. The update is a story if it include text in the page feed. It is a post if the update is just a shared post	
i6_activity	Describes activities such as adding of photos	
i7_message	The actual text of the post	The unity which is human-coded
i8_reactions	Number of reactions after 48-50 hours	From October 2016 to March 2017 reactions was counted in intervals of 25 due to a mistake in the script. From April 2017 to October 2017 the count is absolute.
i9_comments	Number of comments to the update after 48-50 hours	
i10_followers	Number of followers 48-50 hours after the update	
i10_followers_atpost	Number of followers at the time of the update	This is only included from April 2017 to October 2017

Based on i1_polname an ID for each politician is created (ID_Politician).

A unique ID number (ID-Post) identifies each entry.

In total 27,695 posts have been scraped and coded

2: Codebook

A: BACKGROUND INFORMATION

A1: Party of the MP

Information can be found on www.ft.dk

1: Social democrats (A)
2: Liberals (V)
3: Danish Peoples' Party (O)
4: Alternative (Å)
5: Red-Green Alliance (Ø)
6: Liberal Alliance (I)
7: Social Liberals (B)
8: Conservatives (C)
9: Socialist Peoples' Party (F)
10: Nordic parties
11: Løsgænger (B1-B5 kodes 99)

A2: Position as spokespersons

Type the spokesperson positions of the MP as they are listed on the member website on www.ft.dk.

Information can be found on www.ft.dk in the biographies of the MPs

B: PARTY ORIENTED POSTS

B1: Does the post mention the MP's party by name?
Mentioning by name: The Social Liberals say….., We in the Liberal Alliance mean…., new policy from Danish Peoples' Party

1: Yes
0: No

B2: Does the post mention the party leader of the MP's party?
Either by name (first and/or second name) or by reference to the leader

1: Yes
0: No

B3: Does the post mention another MP/other MPs of the MP's party?

Either by name or position, for instance "the spokesperson of Social Democrats says…"

1: Yes
0: No

B4: Shared party message
Does the post share a message from the party/party leader of the MP? For instance linking to a message or citing a message from party or party leader. Not all messages posted by party leaders are YES's – only if they link or cite party messages or for instance cite own statements from speeches on behalf of the party.

1: Yes
0: No

B5: Does the post distance the MP from his/her party?
By distance we code if the MP in his/her post describes a party decision or party policy she/he does not agree with. The decision may be taken by the party organization, the party leader or a party minister, and it may relate to policies as well as organizational issues.

1: Yes
0: No

B6: Does the post mention another party or representatives (not ministers) of other parties?

1: Yes
0: No *(code B7=99)*

B7: Is the mentioning of the other party more positive or negative?

1: More positive
2: More negative
3: Not positive or negative

B8: Does the post mention the government or its ministers?
The Liberals are the governing party. If the mention is mentioned in relation to the government or its ministers, it should be coded as government, not as party.

1: Yes
0: No (code B9=99)

B9: Is the mentioning of the government or its ministers more positive or negative?

1: More positive
2: More negative
3: Not positive or negative

B10: Does the post mention the opposition as a unit, for instance red bloc or the left-wing parties?

Mentionings of "de borgerlige" or "the parties supporting the government" should be coded under B8.

1: Yes
0: No (code B11=99)

B11: Is the mentioning of the opposition more positive or negative?

1: More positive
2: More negative
3: Not positive or negative

C: POLICY ORIENTED POSTS

C1: Does the post include a political message?

This includes all statements with a political substance, but excludes messages solely related to non-political matters such as birthdays or personal experiences. Also, the message can express a political attitude directly or indirectly, so for instance a message saying "Thank you Lystrup School for a nice visit" does not count as a political message, but if the message is followed up with a political statement eg. "let's unite to secure good education for all" it should be coded as political. Further, political messages can comment on political processes and practices such as: "The government does not do what it takes to make the parties cooperate"

1: Yes
0: No *(code C2=999)*

C2: Which issue is the political message related to?

We categorize political issues as it is done in the Danish Agenda Setting Project. A detailed codebook is available at *http://www.agendasetting.dk/files/uploaded/61201510833PM1.pdf*

1. Macroeconomics
2. Civil Rights, Minority Issues, Immigration and Civil Liberties
3. Health
4. Agriculture
5. Labour and Employment
6. Education
7. Environment
8. Energy

10. Transportation
11. Immigration
12. Law, Crime, and Family Issues
13. Social Welfare

14. Community Development, Planning and Housing Issues
15. Banking, Finance, and Domestic Commerce
16. Defense
17. Research, Space, Science, Technology and Communication
18. Foreign Trade
19. International Affairs and Foreign Aid
20. Government Operations
21. Public Lands and Water Management (Territorial Issues)

23. Culture

98: no subject (use as little as possible)
999: Missing

D: CONSTITUENCY ORIENTED POSTS

D1: Does the message mention the constituency or areas within the constituency of the MP?

Coding note: This is only relevant if some geographical location is mentioned (eg. Lystrup, Dyrehaven or something like that). If you are in doubt, which constituency the MP is elected in, you can find it in the MP biographies on Folketinget's website (www.ft.dk). If you are in doubt, whether a certain places belongs to the constituency, you can look at https://da.wikipedia.org/wiki/Valgkredse_i_Danmark that displays the Danish constituencies.

1: Yes
0: No

E: PRIVAT ORIENTED POSTS

E1: Does the post relate to events in personal life (births, birthdays, weddings, deaths, anniversaries etc.)?

1: Yes
0: No

E2: Does the post relate to non-political news/issues (sports, books, movies, TV-shows etc.)?
Note: This is news – not something the MP participate in personally - for instance a football matches, award shows or the like. E2 is hereby different from E6

1: Yes
0: No

E4: Does the message mention persons who stand in personal relations to the MP (partner, children, parents, other family members or friends)?

1: Yes
0: No

E5: Does the post describe political activities of the MP?
This relates to all activities as a MP: Visiting schools, factories, universities, towns etc. and reports on parliamentary activities such as committee meetings, plenary meetings or press meetings.

1: Yes
0: No

E6: Does the message describe non-political activities of the MP?
This relates to activities not directly related to the tasks of a MP. For instance reports on the MPs exercise/sports, attending children's hobbies, housekeeping etc.

1: Yes
0: No

3: Reliability Test (performed in June 2017)

To perform the reliability test we draw a random sample of 500 units from the posts collected in October, November, December and February. The posts collected in January were not included, since the coding of these was not finalized at the time of the reliability test. Two student coders performed the original coding. One of these student coders performed the reliability test three months after finishing the February coding.

Two types of reliability tests are implemented. First, the percentage of disagreement and second, a kappa estimation, which take agreement by chance into account. For B7, B9 and B11 we used a weighed kappa to take the ordinal scale of the coding values into account. We use the following scheme (Table 1) for evaluating the reliability of the coding

Table 1: Scheme for reliability judgements

	Percentage disagreement	**Kappa**
High reliability	Under 20 percent	Above 0.8
Moderate reliability	Under 20 percent	Above 0.6
Low reliability	Under 20 percent	Above 0.4
Not reliable	Over 20 percent	Above 0.4

The coding of Spokesmanship (A2 Position) include up to 10 values ascribed to A2a-j respectively. Multiple spokesmanships may not be registered in the exact same order, which will lead to high disagreement and low kappa values even though the same and correct spokesmanships may be registered. Moreover, spokesmanships change relatively frequent making the reliability test problematic. Since the coding consist of typing in information from the parliamentary website and does not involve any evaluation or judgement, we do not expect this variable to suffer from low reliability.

An overview of the coding reliability is provided in table 2.

Table 2: Results of reliability tests

Variable	Number of disagreements	Percent disagreement	Over 20 percent	Kappa	Reliability
A1 Party	1	0,2	NO	0,99	High
A2 Position	Not coded	-	-	-	
B1 Party name	5	1	NO	0,96	High
B2 Party leader	3	0,6	NO	0,87	High
B3 Party MP	5	1	NO	0,88	High
B4 Party Message	15	3	NO	0,50	Low
B5 Distance	0	0	NO	-	
B6 Other parties	19	3,8	NO	0,81	High
B7 Positive*	17	3,4	NO	0,72	Moderate
B8 Government	34**	6,8	NO	0,80	Moderate
B9 Gov Positive	29***	5,8 (12,6)	NO	0,68	Moderate
B10 Opposition	4	0,8	NO	0,71	Moderate
B11 Opp Positive	1	0,2	NO	0,63	Moderate
C1 Political	65	13,0	NO	0,68	Moderate
C2 Agenda	67****	13,4 (26,4)	NO (YES)	0,70	Moderate (Low)
D1 Constituency	18	3,6	NO	0,83	High
E1 Private event	0	0	NO	1,0	High
E2 Non-political	12	2,4	NO	0,49	Low
E4 Relatives	3	0,6	NO	0,89	High
E5 Pol. Activities	47	9,4	NO	0,78	Moderate
E6 Non-pol. Activities	25	5	NO	0,59	Low

*Only registered if agreement on B6 in total (19+17 disagreements). The total number of disagreements are included in the kappa test.

**Some of these disagreements are due to government coalition change in the days close to the post

*** Only registered if agreement on B8 (in total 34+29 disagreements). The total number of disagreements are included in the kappa test.

**** Only registered if agreement on C1 (in total 67+65 disagreements). The total number of disagreements are included in the kappa test.

4: Notes regarding server breakdown

In April 2017 our two serves broke down which means that we lost about a 1000 posts in that specific month

5: Descriptive statistics

Gender of the MP's

	Frequency	Percent
Women	59	39.86 %
Men	89	60.14 %
Total	**148**	**100 %**

A1a: Party of the MP

	Frequency	In percentage	Cumulated frequency
Social democrats	38	25.5 %	25.5 %
Liberals	30	20.13 %	45.63 %
Danish Peoples' Party	23	15.44 %	61.07 %
Alternative	10	6.71 %	67.78 %
Red-Green Alliance	13	8.72 %	76.5 %
Liberal Alliance	12	8.05 %	84.55 %
Social Liberals	8	5.37 %	89.92 %
Conservatives	6	4.01 %	93.93 %
Socialist Peoples' Party	6	4.01 %	97.94 %
Nordic parties	2	1.34 %	99.28 %
Independent	1	0.67 %	99.95 %
Total*	**149**	**100 %**	**100 %**

*Note: Aleqa Hammond is coded under both "Independent" and "Nordic parties", since she left her Nordic Party and became an independent during the period. Thus, the total number is 149 instead of 148.

A1b: Party of the MP

	Frequency	In percentage	Cumulated frequency
Social democrats	6.287	22.70 %	22.70 %
Liberals	3.960	14.30 %	37.00 %
Danish Peoples' Party	4.093	14.78 %	51.78 %
Alternative	3.278	11.84 %	63.61 %
Red-Green Alliance	2.218	8.01 %	71.62 %
Liberal Alliance	2.151	7.77 %	79.39 %
Social Liberals	2.066	7.11 %	86.85 %
Conservatives	1.399	5.05 %	91.90 %
Socialist Peoples' Party	1.969	7.11 %	99.01 %
Nordic parties	236	0.85 %	99.86 %

Løsgænger	38	0.14 %	100 %
Total	**27.695**	**100 %**	**100 %**

A2: Position as spokespersons

Is the MP a spokesperson?

	Frequency	Percent	Cumulated
Yes	21.494	81.47 %	81.47 %
No	4.889	18.53 %	100 %
Total	**26.383**	**100 %**	**100 %**

Witch area?

	Frequency	Percent	Cumulated
Arbejdsmiljø	348	0,48 %	0,48 %
Beredskab	547	0,75 %	1,23 %
Beskæftigelse	1.656	2,28 %	3,51 %
Bolig	1.225	1,69 %	5,2 %
Bygning	2	0,00 %	5,2 %
Børne	1.565	2,17 %	7,37 %
Christiania	275	0,38 %	7,75 %
Demokrati	32	0,04 %	7,79 %
Digitale frihedsrettighed	610	0,84 %	8,63 %
Dyrevelfærd	1.556	2,14 %	10,77 %
EU	1.499	2,06 %	12,83 %
Energi	1.704	2,34 %	15,17 %
Erhverv	1.924	2,65 %	17,82 %
Erhversuddannelse	140	0,19 %	18,01 %
Europaråd	145	0,20 %	18,21 %
Etisk råd	326	0,45 %	18,66 %
Familie	1.307	1,80 %	20,45 %
Finans	1.781	2,45 %	22,91 %
Fiskeri	1.373	1,89 %	24,8 %
Folkeoplysning	51	0,07 %	24,87 %
Forbruger	1.863	2,56 %	27,43 %
Forsvar	1.098	1,51 %	28,94 %
Forsyning	19	0,03 %	28,97 %
Fred	465	0,64 %	29,61 %
Friskole og efterskole	77	0,11 %	29,72 %
Færøerne	1302	1,79 %	31,51 %
Fødevarer	2.035	2,80 %	34,31 %
Grundlov	1.566	2,15 %	36,46 %
Grøn Omstilling	163	0,22 %	36,68 %

Grønland	1.310	1,80 %	38,48 %
Handicap	686	0,94 %	39,42 %
Hjemmeværn	185	0,25 %	39,67 %
Idræt	1.707	2,35 %	42,02 %
Indfødsret	1.626	2,24 %	44,26 %
Innovation	126	0,17 %	44,43 %
Integration	1.710	2,35 %	46,78 %
IT	1.749	2,41 %	49,19 %
Iværksætter	861	1,18 %	50,37 %
Kirke	705	0,97 %	51,34 %
Klima	1.697	2,33 %	53,67 %
Kommunal	1.346	1,85 %	55,52 %
Kultur	1.295	1,78 %	57,3 %
Landbrug	1.812	2,49 %	59,79 %
Landdistikt- og ø	836	1,15 %	60,94 %
LGBTQI	21	0,03 %	60,97 %
Ligestilling	1.535	2,11 %	63,08 %
Medie	886	1,22 %	64,3 %
Menneskerettighed	293	0,40 %	64,7 %
Miljø	1.895	2,19 %	66,89 %
Natur	389	0,54 %	67,43 %
Tyske Mindretal	211	0,29 %	67,72 %
Offentlighed	130	0,18 %	67,9 %
Afbureaukratisering	298	0,41 %	68,31 %
Nordisk samarbejde	680	0,94 %	69,25 %
§71 tilsynet	116	0,16 %	69,41 %
Politisk leder	717	0,99 %	70,4 %
Politisk ordfører	1.091	1,50 %	71,9 %
Psykiatri	1.237	1,70 %	73,6 %
Ret	1.347	1,85 %	75,45 %
Reform	30	0,04 %	75,49 %
Skatte	1.480	2,04 %	77,53 %
Social dumping	469	0,65 %	78,18 %
Social	893	1,23 %	79,41 %
Sundhed	1.219	1,68 %	81,09 %
Sydslesvig	470	0,65 %	81,74
Telekommunikation	665	0,90 %	82,64
Transport	1.250	1,68 %	84,32
Turisme	362	0,50 %	84,82
Uddannelse og forskning	2.280	3,14 %	87,96
Udenrigs	1.203	1,65 %	89,61
Udenrigspolitisk Nævn	319	0,44 %	90,05
Udlændinge	1.629	2,24 %	92,29
Udvikling	1.414	1,94 %	94,23
Undervisning	1.127	1,69 %	95,92
Ungdomsuddannelse	500	0,69 %	96,61

Unge	48	0,07 %	96,68
Vækst	54	0,07 %	96,75
Vælfærd	220	0,30 %	97,05
Veteran	172	0,24 %	97,29
Værdi	230	0,32 %	97,61
Ældre	1.431	1,97 %	99,58
Cannabis	48	0,07 %	99,65
EU's social og beskæftigelse	46	0,06 %	99,71
Total	**72.710**	**99,71**	**99,71**

B1: Does the post mention the MP's party by name?

	Frequency	Percent	Cumulated
Yes	4.424	15.97 %	15.97 %
No	23.176	83.68 %	99.66 %
Missing	95*	0.34 %	100 %
Total	**27.695**	**100 %**	**100 %**

* Note: The 95 missings are due to language issues (93 from Nordic Parties and 2 from Zenia Stampe)

B2: Does the post mention the party leader of the MP's party?

	Frequency	Percent	Cumulated
Yes	600	2.17 %	2.17 %
No	27.000	97.49 %	99.66 %
Missing	95	0.34 %	100 %
Total	**27.695**	**100 %**	**100 %**

B3: Does the post mention another MP/other MPs of the MP's party?

	Frequency	Percent	Cumulated
Yes	1090	3.94 %	3.94 %
No	26.510	95.72 %	99.66 %
Missing	95	0.34 %	100 %
Total	**27.695**	**100 %**	**100 %**

B4: Shared party message

	Frequency	Percent	Cumulated
Yes	965	3.48 %	3.48 %
No	26.635	96.17 %	99.66 %
Missing	95	0.34 %	100 %
Total	**27.695**	**100 %**	**100 %**

B5: Does the post distance the MP from his/her party?

	Frequency	Percent	Cumulated
Yes	6	0.02 %	0.02 %
No	27.594	99.64 %	99.66 %
Missing	95	0.34 %	100 %
Total	**27.695**	**100 %**	**100 %**

B6: Does the post mention another party or representatives (not ministers) of other parties?

	Frequency	Percent	Cumulated
Yes	2.790	10.07 %	10.07 %
No	24.810	89.59 %	99.66 %
Missing	95	0.34 %	100 %
Total	**27.695**	**100 %**	**100 %**

B7: Is the mentioning of the other party more positive or negative?

	Frequency	Percent	Cumulated
More positive	284	1.03 %	1.03 %
More negative	1.049	3.79 %	4.81 %
Not positive or negative	1.457	5.26 %	10.07 %
Didn't mention party	24.905	89.93 %	100 %
Total	**27.695**	**100 %**	**100 %**

B8: Does the post mention the government or its ministers?

	Frequency	Percent	Cumulated
Yes	5.429	19.60 %	19.60 %
No	22.171	80.05 %	99.66 %
Missing	95	0.34 %	100 %
Total	**27.695**	**100 %**	**100 %**

B9: Is the mentioning of the government or its ministers more positive or negative?

	Frequency	Percent	Cumulated
More positive	817	2.95 %	2.95 %
More negative	2.038	7.36 %	10.31 %
Not positive or negative	2.574	9.29 %	19.60 %
Missing	22.266	80.40 %	100 %
Total	**27.695**	**100 %**	**100 %**

B10: Does the post mention the opposition as a unit, for instance red bloc or the left-wing parties?

	Frequency	Percent	Cumulated
Yes	236	0.85 %	0.85 %
No	27.364	98.80 %	99.66 %
Missing	95	0.34 %	100 %
Total	**27.695**	**100 %**	**100 %**

B11: Is the mentioning of the opposition more positive or negative?

	Frequency	Percent	Cumulated
More positive	59	0.21 %	0.21 %
More negative	77	0.28 %	0.49 %
Not positive or negative	100	0.36 %	0.85 %
Missing	27.459	99.15 %	100 %
Total	**27.695**	**100 %**	**100 %**

C1: Does the post include a political message?

	Frequency	Percent	Cumulated
Yes	18.860	68.10 %	68.10 %
No	8.740	31.56 %	99.66 %
Missing	95	0.34 %	100 %
Total	**27.695**	**100 %**	**100 %**

C2: Which issue is the political message related to?

	Frequency	In percentage	Cumulated frequency
Macroeconomics	809	3.92 %	2.92 %
Civil Rights, Minority Issues, Immigration and Civil Liberties	1.101	3.98 %	6.90 %
Health	764	2.76 %	9.66 %
Agriculture	475	1.72 %	11.37 %
Labour and Employment	574	2.07 %	13.44 %
Education	1.545	5.58 %	19.02 %
Environment	789	2.85 %	21.87 %
Energy	324	1.17 %	23.04 %
Transportation	565	2.04 %	25.08 %
Immigration	1334	4.82 %	29.90 %
Law, Crime, and Family Issues	1.242	4.48 %	34.38 %
Social Welfare	1.769	6.39 %	40.77 %
Community Development, Planning and Housing Issues	471	1.70 %	42.47 %

Banking, Finance, and Domestic Commerce	349	1.26 %	43.73 %
Defense	209	0.75 %	44.48 %
Research, Space, Science, Technology and Communication	429	1.55 %	46.03 %
Foreign Trade	112	0.40 %	46.44 %
International Affairs and Foreign Aid	2.558	9.24 %	55.67 %
Government Operations	2.466	8.90 %	64.57%
Public Lands and Water Management	189	0.68 %	65.26 %
Culture	403	1.46 %	66.71 %
No subject	384	1.39 %	68.10 %
Missing	8.835	31.90 %	100 %
Total	**27.695**	**100 %**	**100 %**

D1: Does the message mention the constituency or areas within the constituency of the MP?

	Frequency	Percent	Cumulated
Yes	3.515	12.69 %	12.69 %
No	24.085	86.97 %	99.66 %
Missing	95	0.34 %	100 %
Total	**27.695**	**100 %**	**100 %**

E1: Does the post relate to events in personal life (births, birthdays, weddings, deaths, anniversaries etc.)?

	Frequency	Percent	Cumulated
Yes	683	2.47 %	2.47 %
No	26.917	97.19 %	99.66 %
Missing	95	0.34 %	100 %
Total	**27.695**	**100 %**	**100 %**

E2: Does the post relate to non-political news/issues (sports, books, movies, TV-shows etc.)?

	Frequency	Percent	Cumulated
Yes	953	3.44 %	3.44 %
No	26.647	96.22 %	99.66 %
Missing	95	0.34 %	100 %
Total	**27.695**	**100 %**	**100 %**

E4: Does the message mention persons who stand in personal relations to the MP (partner, children, parents, other family members or friends)?

	Frequency	Percent	Cumulated
Yes	888	3.21 %	3.21 %
No	26.712	96.45 %	99.66 %
Missing	95	0.34 %	100 %
Total	**27.695**	**100 %**	**100 %**

E5: Does the post describe political activities of the MP?

	Frequency	Percent	Cumulated
Yes	7.429	26.82 %	26.82 %
No	20.171	72.83 %	99.66 %
Missing	95	0.34 %	100 %
Total	**27.695**	**100 %**	**100 %**

E6: Does the message describe non-political activities of the MP?

	Frequency	Percent	Cumulated
Yes	2.200	7.94 %	7.94 %
No	25.400	91.71 %	99.64 %
Missing	95	0.34 %	0.34 %
Total	**27.695**	**100 %**	**100 %**