

Digital Frontiers Seminar: Man and Machine (2): Online and Offline Sensing of Public Sentiments on National Day Rally 2016

Thursday, 23 February 2017
Seminar Room 3-1, Level 3, Manasseh Meyer Building



Digital Frontiers Seminar:

Man and Machine (2): Online and Offline Sensing of Public Sentiments on National Day Rally 2016

Part II Survey and Offline Sensing

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ENGAGING MINDS, EXCHANGING IDEAS

Survey and Offline Sensing

23 February 2017



Project Team



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Objectives of Survey

- 1. To determine Singaporeans' media usage pertaining to National Day Rally (NDR) 2016, and their interest and sentiments towards NDR issues.
- 2. To triangulate online sensing and analytics with surveys, so as to develop a tool that analyses public opinion across different domains in the long term.



Research Questions

Engagement with NDR 2016

- Who were the Singaporeans who engaged with NDR?
- How did Singaporeans engage with NDR?
- What were their media consumption habits?
- What did they do online?

Reactions to NDR Issues

- How interested were Singaporeans in the NDR issues?
- How did they feel towards those issues?
- Did their interests and sentiments differ according to demographics?
- Were there differences between online users and non-users?

Comparison with Online Sensing

 To what extent did offline sentiments converge with online sentiments?





Methodology

 An online survey was conducted with Singaporeans who engaged* with NDR 2016 (N=2,000)

*Watched/listened live *Watched/listened a repeat telecast/recording *Read or heard reports *Heard about it from other people

- Survey was conducted with from 31 Aug -13 Sep 2016
- Respondents were asked questions on:

Demographics

Media consumption

Interest in 5 policy issues mentioned at NDR

Sentiments towards 5 policy issues mentioned at NDR





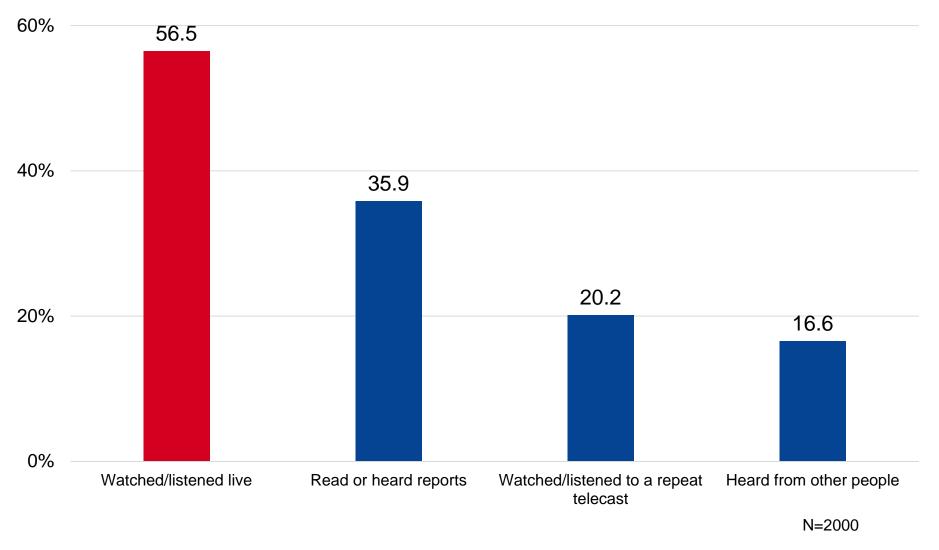
Demographics of Respondents

Age		Ethnicity	
21-29	20.6%	Chinese	77.6%
30-39	25.9%	Malay	11.4%
40-54	36.9%	Indian	8.3%
55-64	12.2%	Others	2.8%
65 and above	4.6%		
Income		Education	
None to \$1,999	12.3%	PSLE and below	0.9%
\$2000 - \$4999	25.4%	Secondary	13.7%
\$5000 - \$6999	18.1%	Post-secondary	9.7%
\$7000 and above	44.3%	Diploma and professional qualifications	29%
		First degree and postgraduate	46%
		Others	0.9%





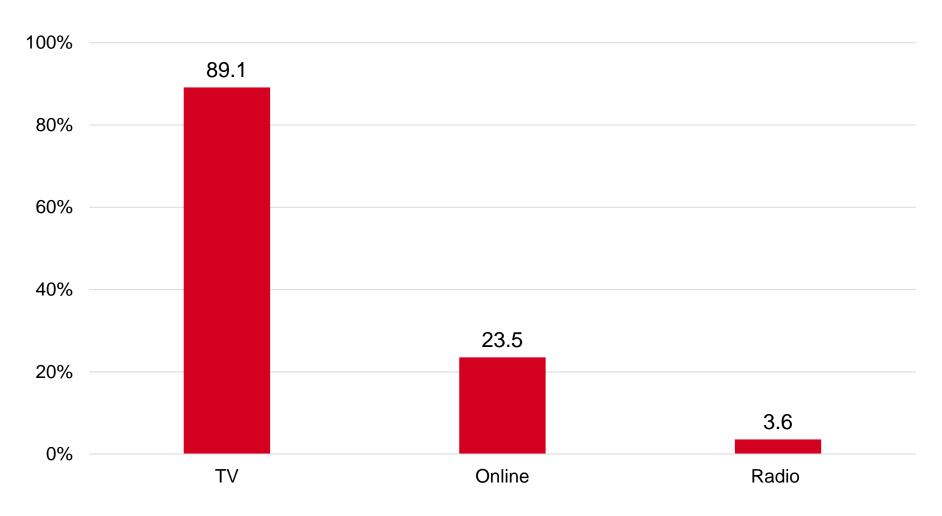
How Singaporeans Engaged with NDR







Among those who watched or listened to the NDR ...







Which Media Did People Use?

Social media

- 1. Facebook (51.6%)
- 2. Blogs or YouTube sites of individuals or groups (26%)
- 3. Instant messaging platforms (22.6%)
- 4. Online discussion forums/ portals (18.6%)
- 5. Other social networking sites (e.g. Instagram, Twitter) (13.2%)

None of the above (28.3%)

Mainstream media

- 1. **Television** (69.7%)
- 2. Print newspapers (54.6%)
- 3. Online websites of Singapore mass media (48.4%)
- Political parties' and politicians' social networking sites (18.6%)
- 5. Radio (13.7%)

None of the above (3.1%)

N=2,000





What People Did Online

Blogs/YouTube

- Wrote a post or made a video
- Commented on a post/ video
- Shared relevant information
- Followed a blogger/ YouTuber

Discussion Forums

- Started a discussion thread
- Shared relevant information
- Followed a thread

Facebook

- Wrote a post
- Commented on a page/ post
- Liked a page or a post
- Shared information
- Followed someone
- Learnt more about family members'/friends'/ colleagues' views
- Learnt more about Singaporeans' views

Other SNS

- Posted a tweet/photo
- Replied/reposted
- Liked a tweet/photo
- Shared information
- Followed someone
- Learnt more about family members'/friends'/ colleagues' views
- Learnt more about fellow Singaporeans' views





1 =Never, 2 = 1 to 3 times, 3 = 4 to 6 times, 4 = 7 to 9 times, 5 = 10 times or more

What People Did Online (NDR)

Instant Messaging

- Started a discussion
- Participated in a discussion
- Asked for information
- Shared relevant information
- Learnt more about family members' /friends'/colleagues' views

Mainstream Media Sites

- Commented on an article
- Shared an article
- Learnt more about Singaporeans' views

Political Parties & Politicians' SNS and Websites

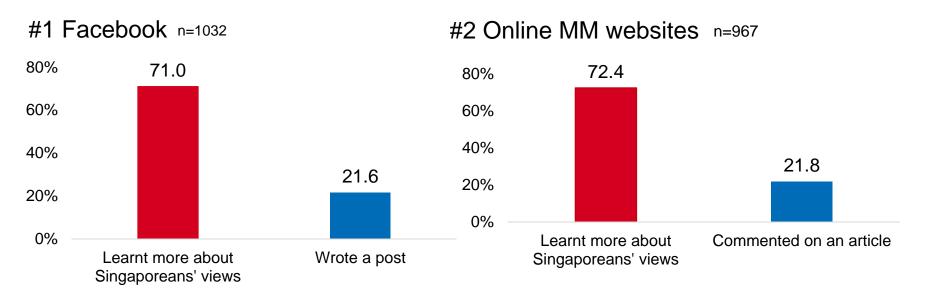
- Commented on a page/ post
- Liked/used emoticons on a page/post
- Shared information
- Learnt more about fellow Singaporeans' views on the National Day Rally 2016 speech



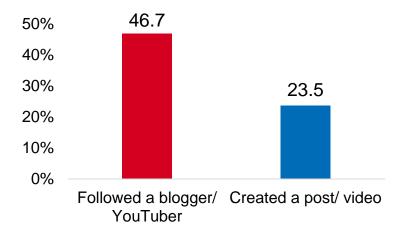


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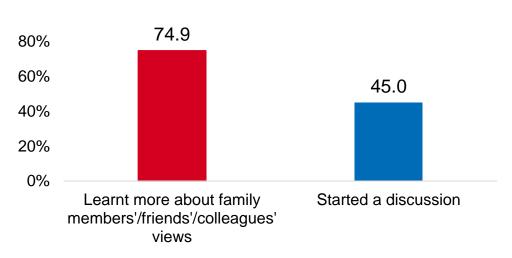
What People Did Online



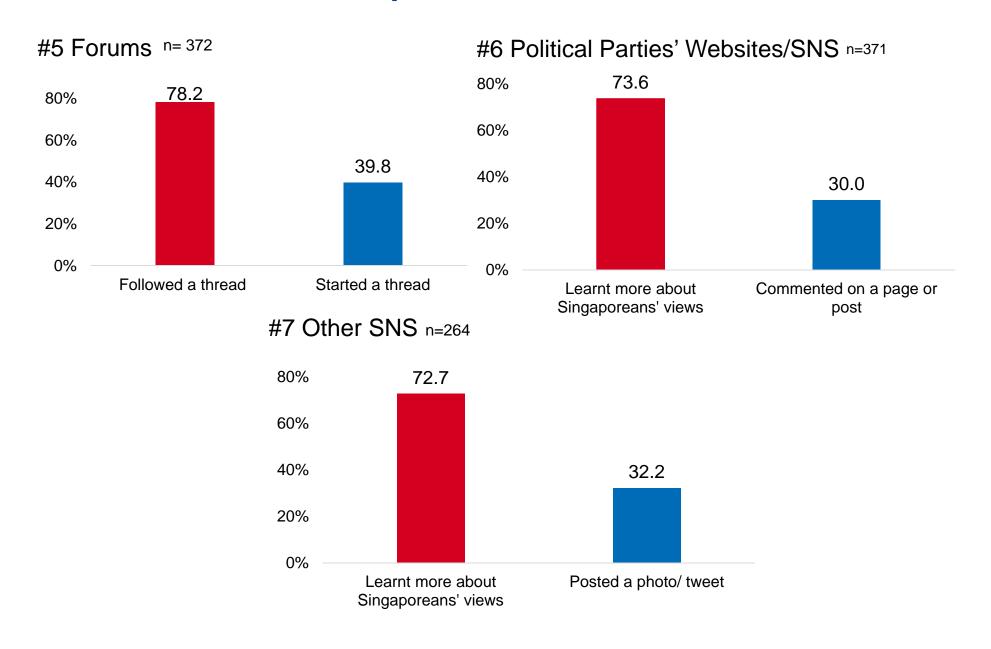
#3 Blogs and YouTube n= 520



#4 Instant Messaging n=451



What People Did Online



List of Issues

Selection of issues

Minority representation for Elected Presidency

Policies that deal with disruption to economy

Review of ElderShield

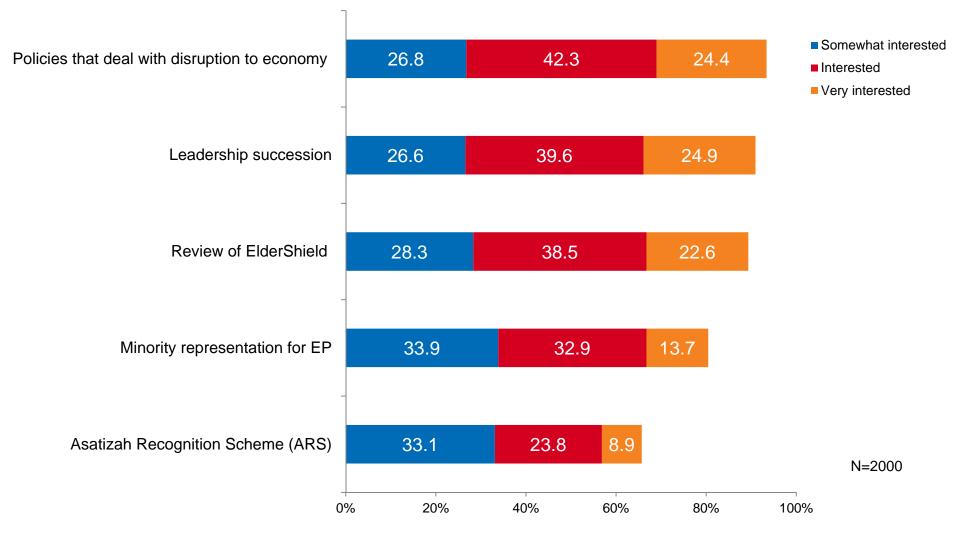
Register Islamic teachers (Asatizah Recognition Scheme)

Steps government is taking for leadership succession





Interest in NDR Issues



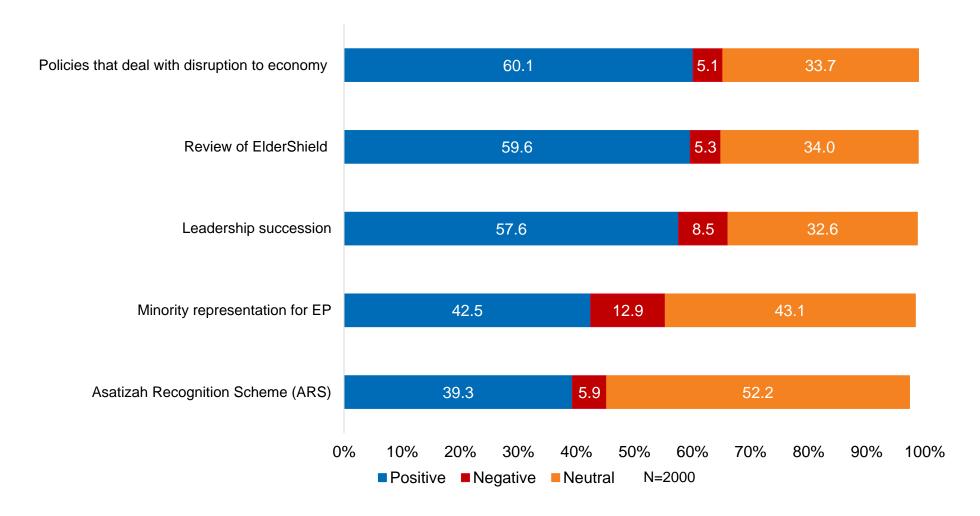
Interest in NDR Issues*

Issue	Policies that deal with disruption to economy	Leadership succession	ElderShield	Minority representation for EP	Asatizah Registration Scheme (ARS)
Race	X	X	X	Minorities more interested, Indians most interested	Minorities more interested, Malays most interested
Age	X	Older respondents more interested, 55-64 years most interested	Older respondents more interested, 55-64 years most interested	X	X
Income	X	Higher income respondents more interested	X	X	X
Education	Higher educated respondents more interested, 1st degree/ postgrad most interested	Higher educated respondents more interested, 1st degree/ postgrad most interested	X	X	X





Sentiments towards NDR Issues







Sentiments towards NDR Issues*

Issue	Policies that deal with disruption to economy	ElderShield	Leadership succession	Minority representation for EP	Asatizah Registration Scheme (ARS)
Race	X	X	Indians most positive	Minorities more positive, Indians most positive	Malays most positive
Age	Older respondents more positive, 65 and above most positive	Older respondents more positive, 55- 64yrs most positive	Older respondents more positive, 55-64yrs most positive	Older respondents more positive, 65 and above most positive	Older respondents more positive, 65 and above most positive
Income	X	X	X	X	X
Education	Sec-level most positive, followed by 1 st degree/post grad most positive	X	X	Sec-level most positive	Higher educated respondents more positive, 1st degree/ postgrad most positive

Online Users and Non-Users*

Issue	Policies that deal with disruption to economy	ElderShield	Leadership succession	Minority representation for EP	Asatizah Registration Scheme (ARS)
Interest	X	X	X	X	X
Sentiments	X	Non-Users more positive	Non-Users more positive	X	X





Online users = 1,535 Non-online users = 465

Comparison of Online Sensing and



Survey

All 2,000 respondents
Online users (n=1,535)
Active users (n=110)



Active users: Those who participated in >50% of highengagement activities (e.g. creating online and participating in discussions).





Interest in Topics

Online Sensing	Survey		
General	Users & Non-users (N=2,000)	Online Users (n=1,535)	Active Users (n=110)
Leadership succession	Disruption to economy	Disruption to economy	Disruption to economy
Disruption to economy	Leadership succession	Leadership succession	Leadership succession
Minority rep for EP	ElderShield	ElderShield	Minority rep for EP
ARS	Minority rep for EP	Minority rep for EP	ElderShield
ElderShield	ARS	ARS	ARS

Interest in Topics

Online Sensing				Survey				
General	MSM	Facebook	Twitter	Blogs	Forums	Users & Non-users (N=2,000)	Online Users (n=1,535)	Active Users (n=110)
Leadership succession	Leadership succession	Leadership succession	Disruption to economy	Leadership succession	Leadership succession	Disruption to economy	Disruption to economy	Disruption to economy
Disruption to economy	Disruption to economy	Disruption to economy	Leadership succession	Minority rep for EP	Minority rep for EP	Leadership succession	Leadership succession	Leadership succession
Minority rep for EP	Minority rep for EP	Minority rep for EP	ARS	Disruption to economy	Disruption to economy	ElderShield	ElderShield	Minority rep for EP
ARS	ARS	ARS	ElderShield	ARS	ARS	Minority rep for EP	Minority rep for EP	ElderShield
ElderShield	ElderShield	ElderShield	Minority rep for EP	ElderShield	ElderShield	ARS	ARS	ARS

Positive Sentiments Online Sensing vs Survey

Most positive	Online Sensing	Users & Non- users (N=2,000)	Online users (N=1,535)	Active users (n=110)
	Leadership succession	Disruption to economy	Disruption to economy	Disruption to economy
	Disruption to economy	ElderShield	ElderShield	Leadership succession
	ElderShield	Leadership succession	Leadership succession	ElderShield
	ARS	ARS	ARS	ARS
Least positive	Minority rep for EP	Minority rep for EP	Minority rep for EP	Minority rep for EP

Summary

- TV and print newspapers most popular sources of information, Facebook most popular for engagement.
- Respondents most interested in policies related to the economy. They also felt most positively towards them.
- Online sensing reflected offline sentiments more closely than offline interest.
- Online sensing reflected active users' interest and sentiments most closely.
- Next steps







