



# Risks and Opportunities in Automated Newsgathering: First Findings From the Frontline

ICA Annual Conference, Fukuoka, Japan, 14 June 2016

Neil Thurman Neil.thurman@ifkw.lmu.de @neilthurman Steve Schifferes
Steve.Schifferes.1@city.ac.uk
@saschiff





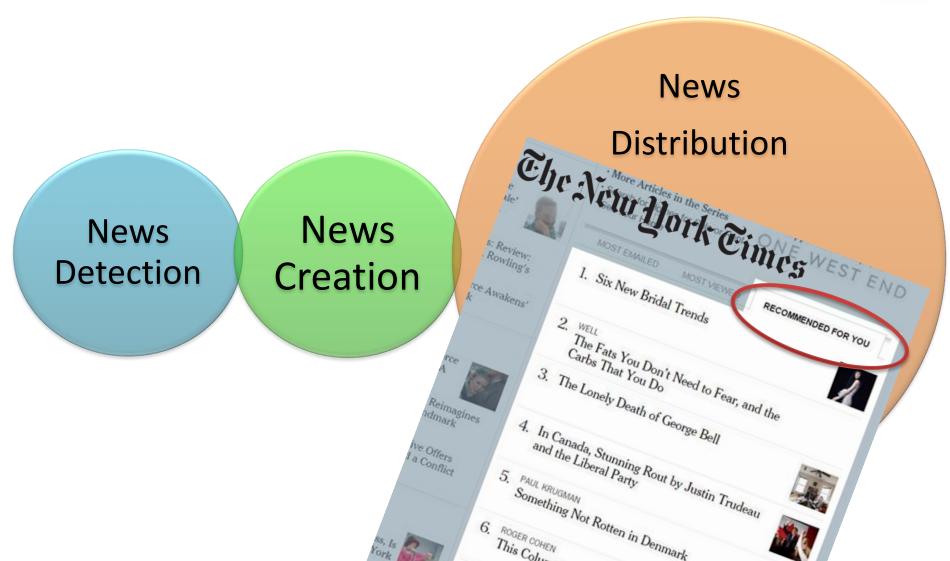






LUDWIG-MAXIMILIANS UNIVERSITÄT MÜNCHEN









## **News Detection**

\*Discovering/clustering 'news' & trends

\*Context: e.g. location, sentiment etc

\*Verification

\* etc

News Creation

News Distribution





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# "[social media is] an incredibly important source"

Jonathan Rugman, ForeignAffairs Correspondent,Channel 4 News(pers. comm.)







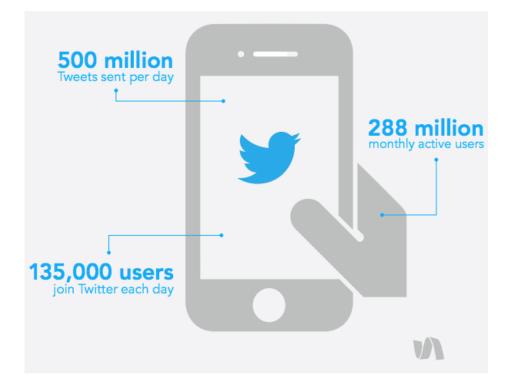
Most not news



How much can you believe

Mind Blowing > Follow @TheMindBlowing A shark was photographed swimming in the front yard of a flooded home in Brigantine Beach, New Jersey #sandy pic: 6:27 AM - 30 Oct 2012 4 13 \* 8.117 RETWEETS 1.338 FAVORITES

Volume



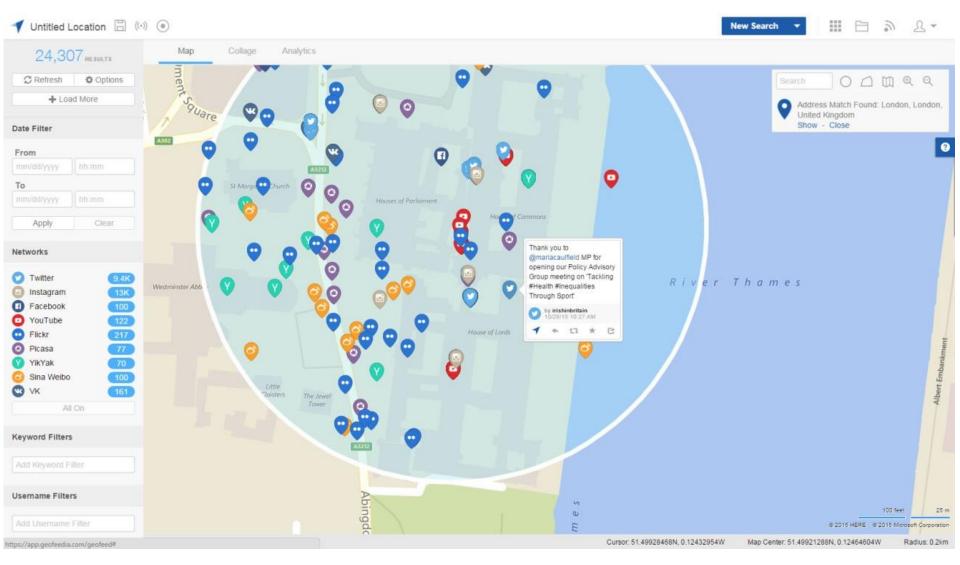
"we need algorithms to take more onus off human being, to pick and understand the best elements" – New York Times'
Social Media Team member (pers. Comm.)

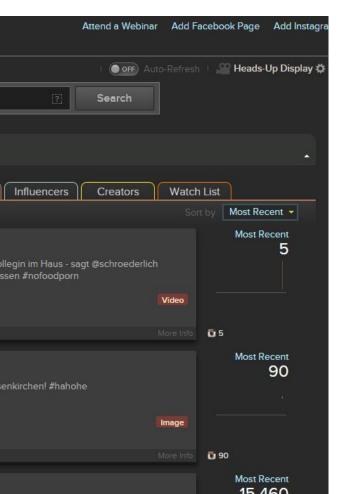


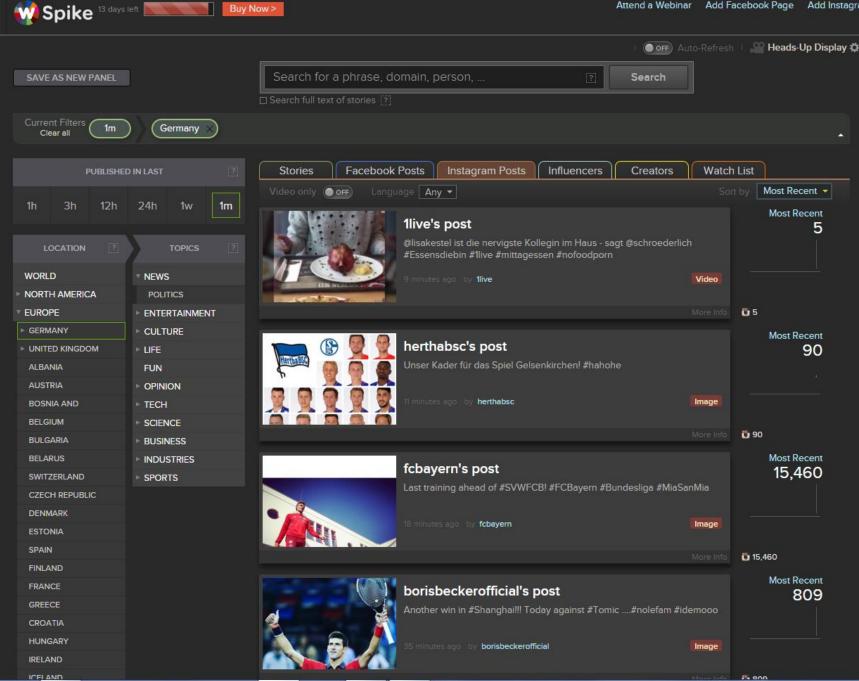






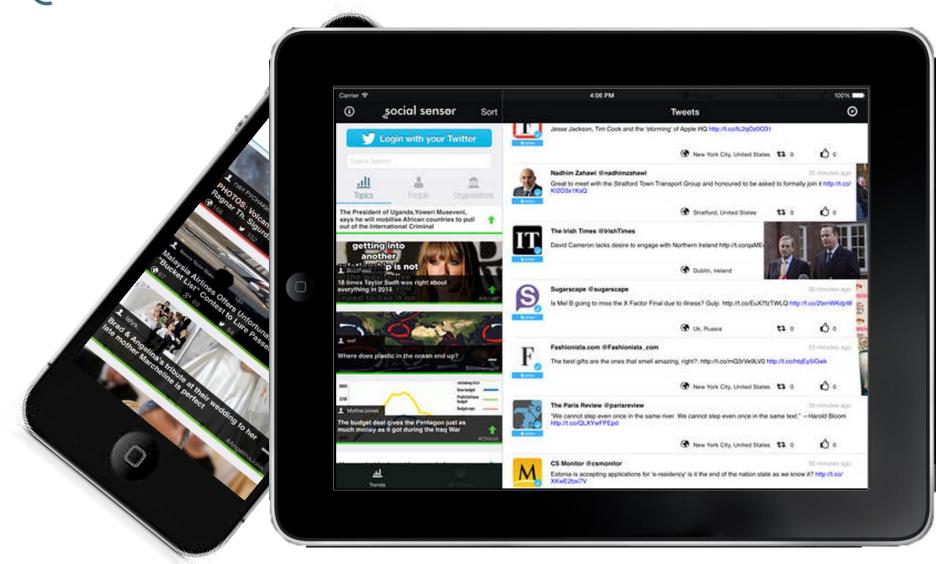






Buy Now >

# social sensor



# Participants (n=81)

- Median age: 23;
- 80% female;
- Nearly all had previous journalism experience.
- 50% from Europe, 15% from the UK, and 10% each from Asia and the Americas.

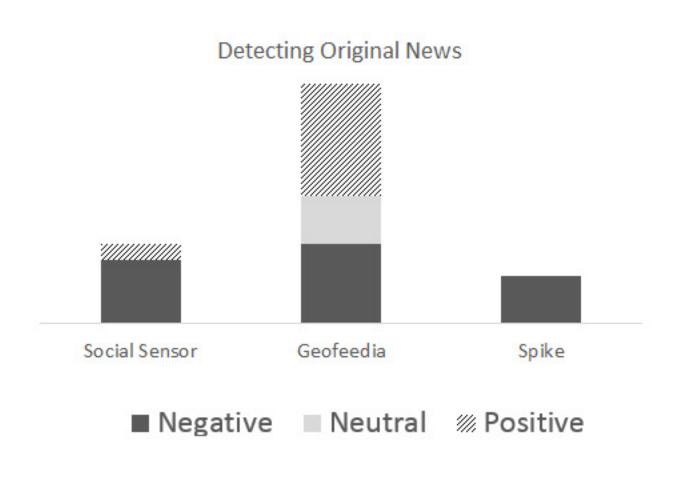
# **RQs**

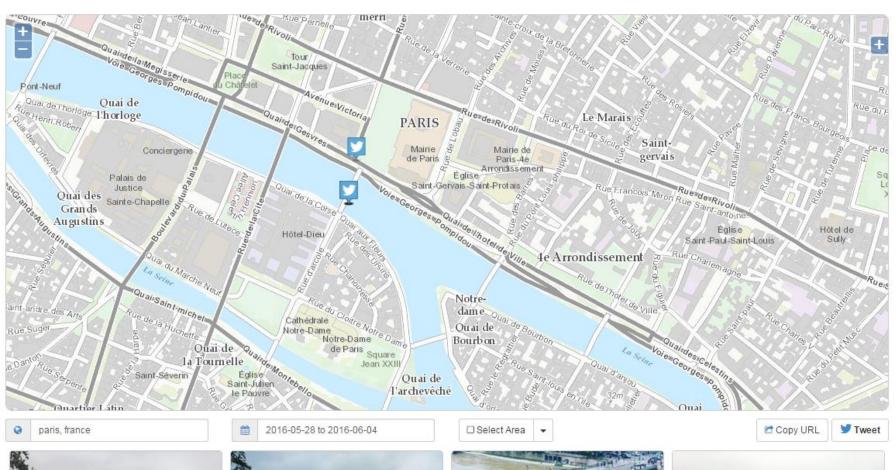
- Identify original news on social media?
- Assess the reliability of social media contributors?
- Identify trends?
- Identify sentiment?





# Detecting original news











6/3/2016, 10:53:57 AM



#flood in paris #pont d'arcole #zoiaskoropadenko #artistinparis @ Pont d'Arcole https://t.co/MXJrkmm8Gs



6/3/2016, 2:11:27 AM

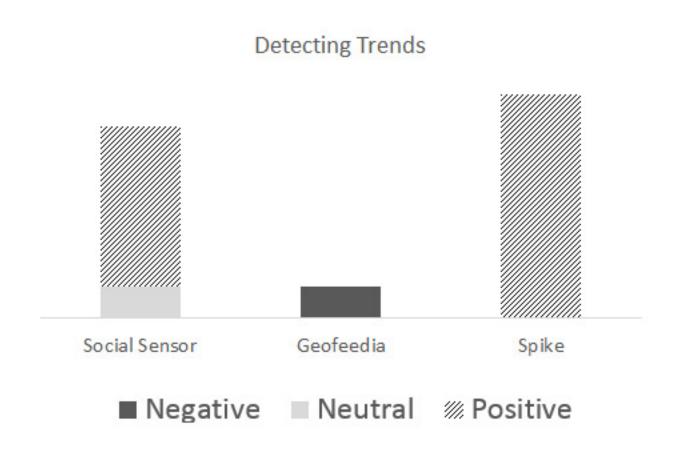


La Seine à 5 mètres ♥♥♥₤ @ Pont d'Arcole https://t.co/PhJ0DkZI0g





# **Detecting Trends**



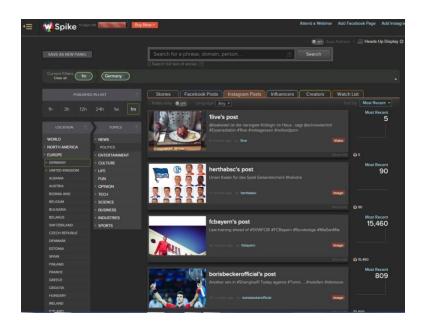




## **Detecting Trends**

"Spike helped me decide which stories to pitch on London Fashion Week."

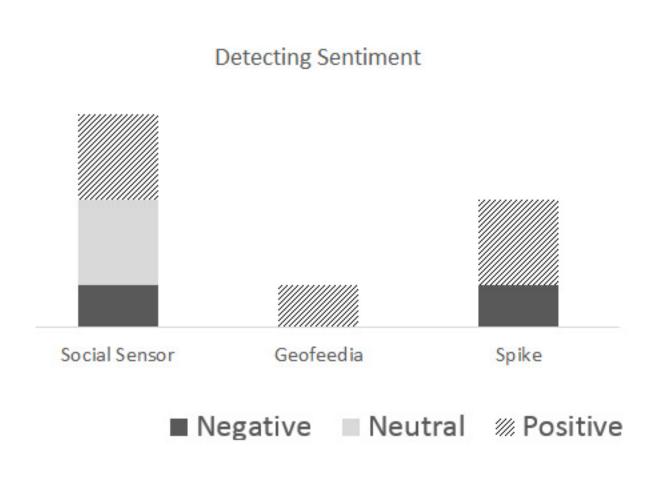








# **Detecting Sentiment**







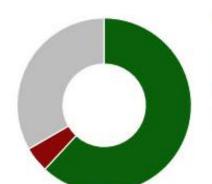
**Detecting Sentiment** 



"Sick" or "wicked," which the "Sentiment" function would presumably categorise as negative, could sometimes mean something positive, for instance."

#### Sentiment

Filter the posts by selecting an area of the donut chart



61.90 % positive

Positive posts: 13

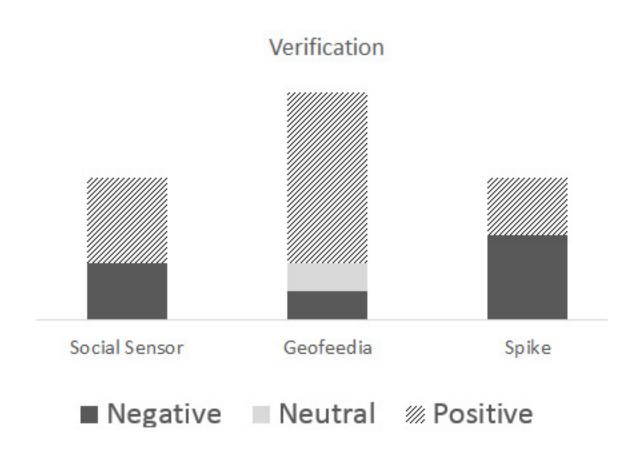
Negative posts: 1

Neutral posts: 7



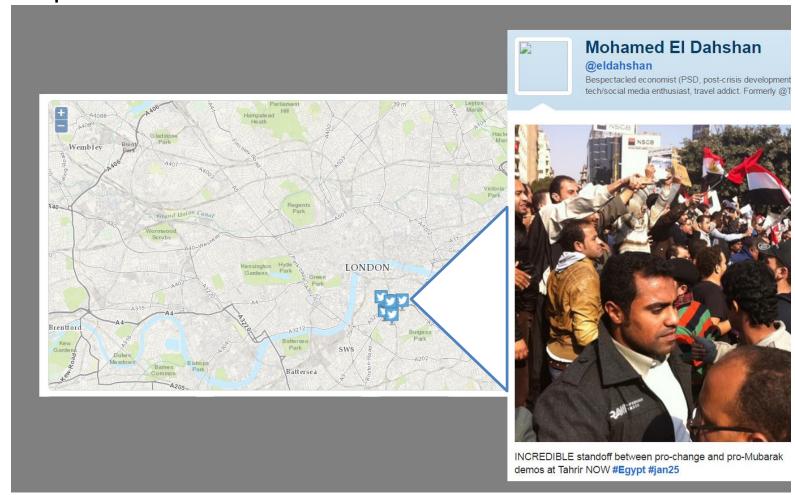


#### Verification



#### Verification

"Geofeedia helps in verification of information, since it shows social media posts' location. You won't be misled by someone 'pretending' to tweet from the heart of Egyptian revolution, while in reality drinking his cup of tea somewhere in London".







"In order to successfully cover events like New York Fashion Week, journalists **must use tools** like Twitter and Geofeedia."







# Dangers with automated news gathering

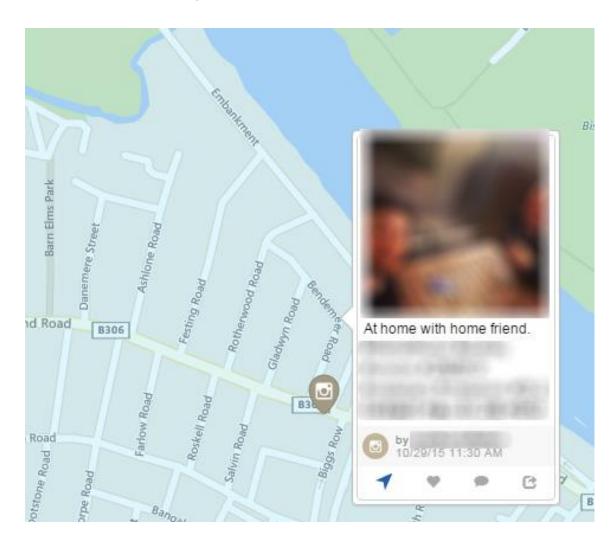
- Privacy
- Popularism
- Misplaced trust
- Biases





# **Privacy**

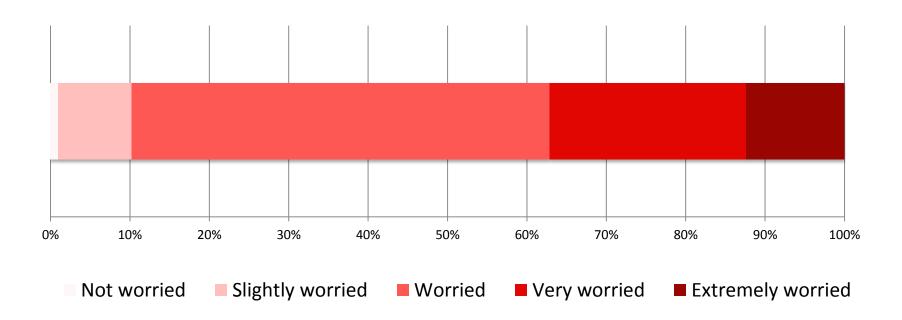
"slightly morally wrong and stalker-esque".







# Popularism

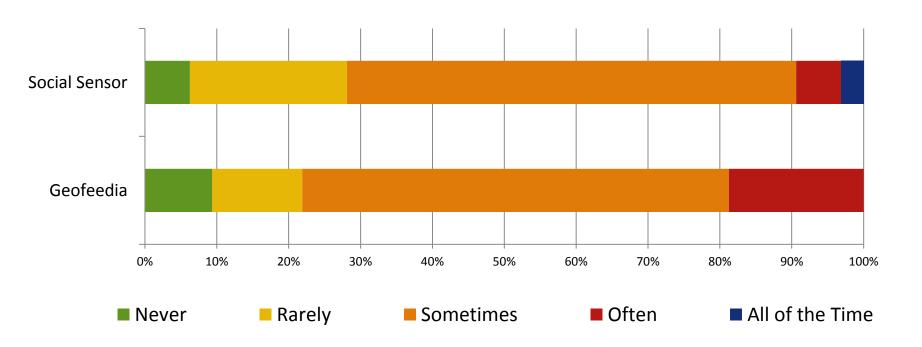


**Q**: Please indicate how much you worry that tools such as Spike, Geofeedia, Social Sensor, and Twitter could be helping to promote a more popularist news agenda where journalist write more about what the public want rather than what they (the journalists) consider to be important, no matter how unpopular (n=32).





# Misplaced trust



**Q**: Please tell me how much, if at all, the information found on each of these tools has been automatically verified (n = 32).

# 'Biases'

# social sensor





- 47% Men
- 25% Women
- (26% institutions)
- 60% metropolitan
   (London, New York,
   Washington)
- 40% nonmetropolitan/'foreign'
- 65% mainstream media
- 35% 'other' (NGO, experts etc)

# 'Biases'

Algorithmic transparency "is, at best, insufficient and, at worst, a dangerous misdirection away from sites of press power beyond code".

-- Mike Ananny and Kate Crawford

Beyond the Black Box: The Failures of Algorithmic Transparency





# Thank you.

Neil Thurman Neil.thurman@ifkw.lmu.de @neilthurman Steve Schifferes
Steve.Schifferes.1@city.ac.uk
@saschiff