

Social Media Verification

Results and business potential

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Project Fact-sheet

Name: REVEALing hidden concepts in Social Media

Acronym: REVEAL

Contract no.: FP7-610928

Funding scheme: Collaborative project

Type: Large-scale Integrating Project

Overall budget: ~ 6.9 m €

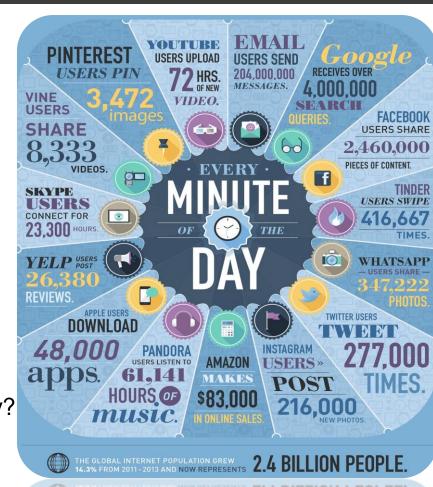
Consortium: 11 different organisations/companies from 7 different countries

Duration: Nov 2013 - Dec 2016 (3+ years)



Problem: too many lies...

- Huge masses of information produced by huge numbers of sources is made available to huge audiences
- Information on what is happening is usually somewhere out there
- but even if we manage to discover it one question will still be tricky is it true?
- ? Can we tell if a hot lead in social media corresponds to an actual event?
- ? Can we distinguish a hoax from a true story?
- ? Can we filter out propaganda?



How can we teach a machine to distinguish truth from lies?



Solution: too many ways...

Contributor

who says?

- **Reputation:** what do people think of this source?
- **History:** what is the past activity of this source?
- Popularity: who follows this source?
- Influence: what happens because of this source?
- Presence: does this source exist?

Content

sounds real?

- Quality: what is the text style of this post?
- **Popularity:** what is the social interaction with this post?
- Reputation: what do we know of linked web content?
- History: what is the history of linked web content?
- Originality: has the same content been used in the past?

Context

sticks together?

- Cross-check: are there any similar reports?
- **Diversity:** are the multiple reports sentimentally coherent?
- **Proximity:** do the locations relate to the reports origin?
- Influence: does this post trigger discussions?
- **Provenance:** which is the original source of this content?



We point to suspicious clues

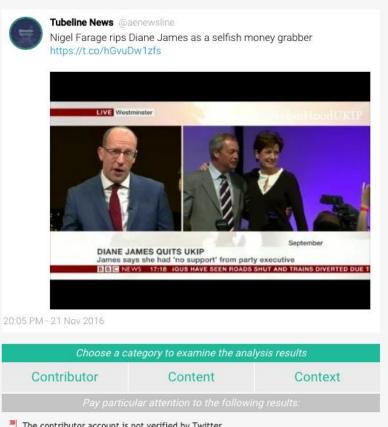


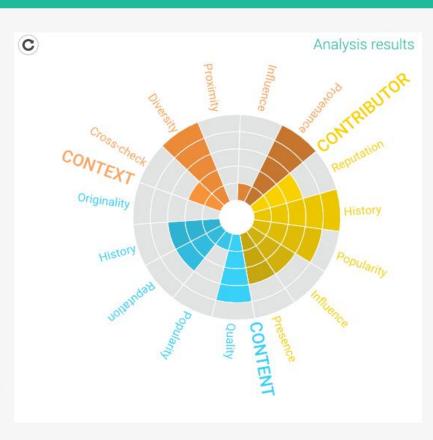












The contributor account is not verified by Twitter.

There are no likes on the post.

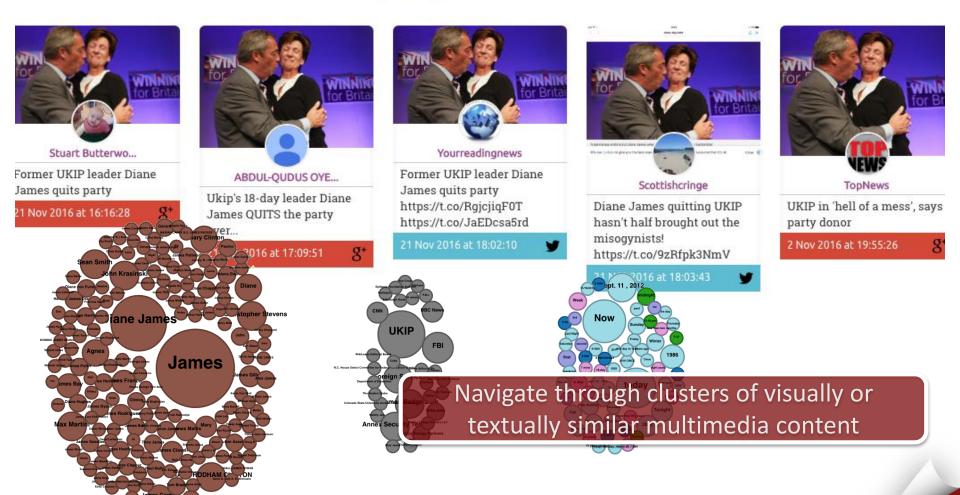
The post has not been retweeted at all yet.

Check (and click on) the red flags that may directly point you to the most suspicious clues



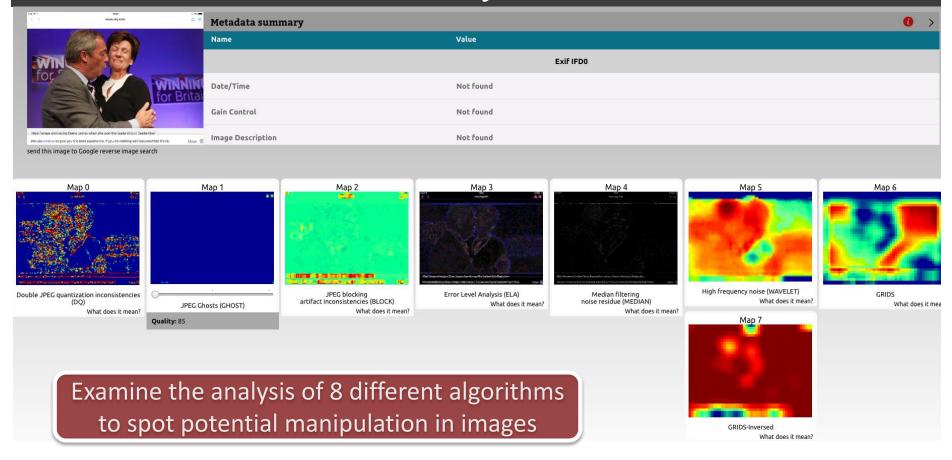
We find and group relevant multimedia

Items Entities Clusters



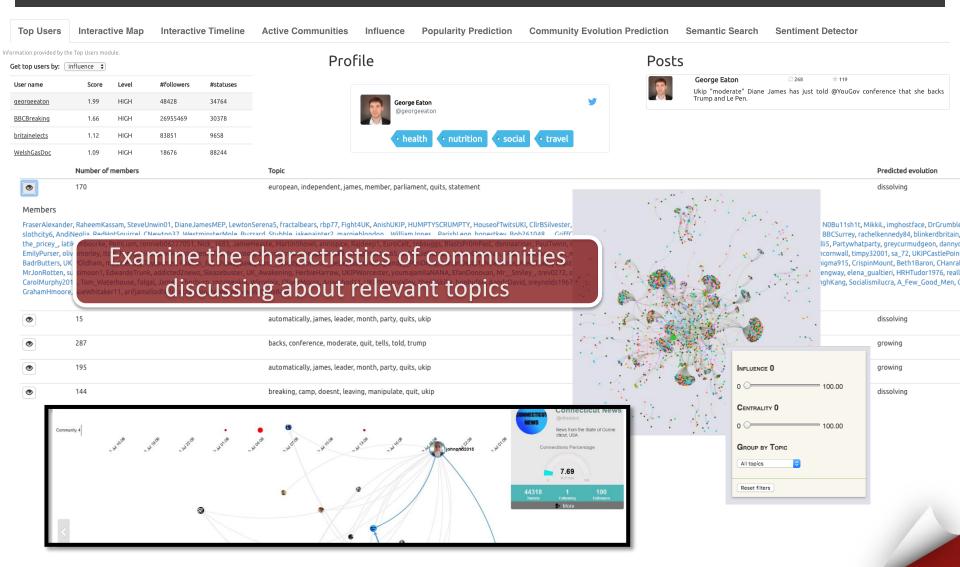


And check its authenticity



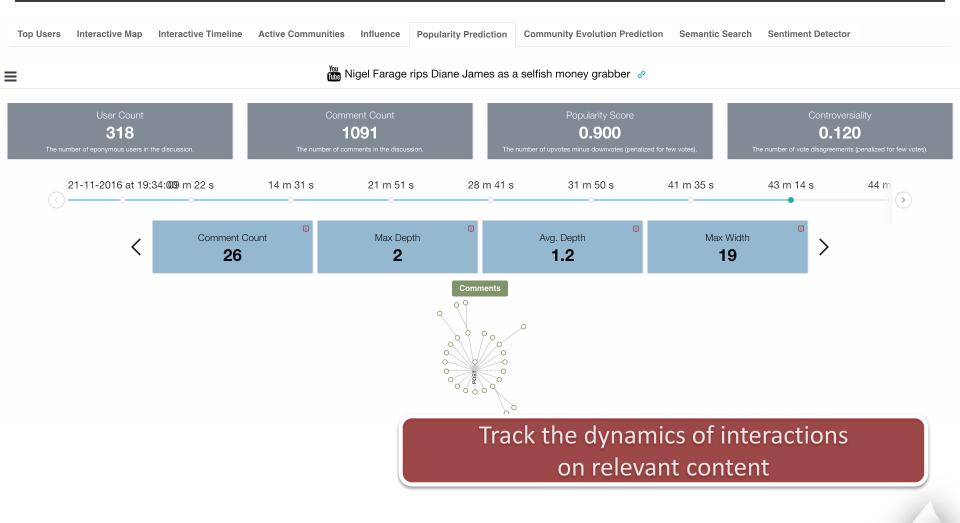


We find and track communities and influencers



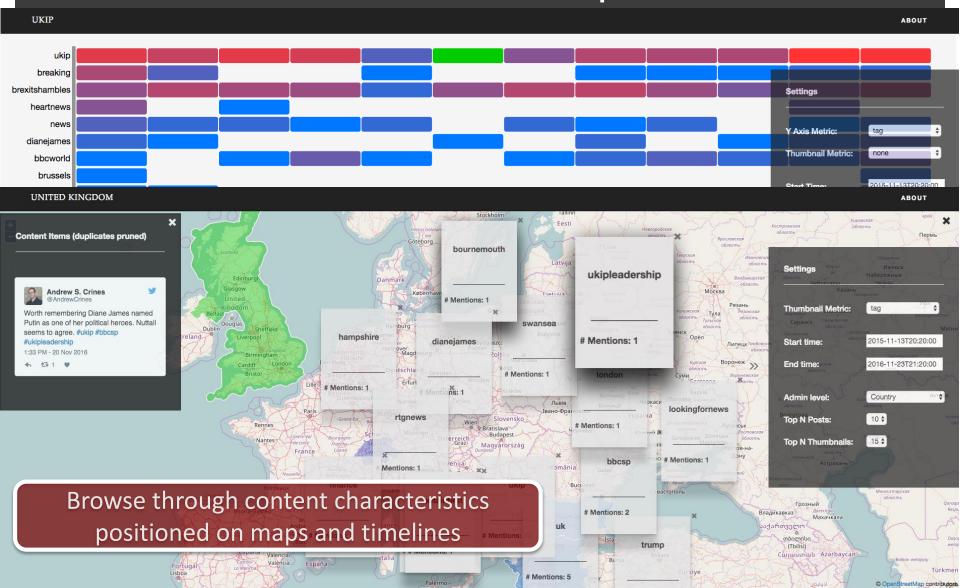


We track popularity of content





We track content in time and space





And all this, through state-of-the-art research

Community-focused Analysis

detection of communities around users and content themes or tags; discovery of central or influential users, as well as user behaviour and stereotype modelling

Media Analysis and Indexing

multimedia indexing, computational stylometry, similarity analysis and general study of relations between content items, and content credibility evaluation

Context-centric Interpretation

event recognition, location analysis of media, and social context

Information Fusion

merging of all available semantic information, in order to derive a final output that will be simple to explore and interpret

Legal Issues

take into account the public interest and fundamental rights of people, including freedom of expression, cultural and opinion diversity, accuracy and credibility of information, and privacy



What is our market?

- The obvious
- News organisations for whom veracity monitoring is every day work International Broadcasters, National News Agencies, News Aggregators, fact-checking organisations, Freelance journalists...

...but not so many and not big spenders

- The next in line
- Large industry who care about veracity of rumours that spread like wildfire Financial & investment firms, PR agencies, PR departments of large enterprises...

...many more with lots of money at stake

- The long tail
- The general public interested to know what is going on out there
 Citizens, and many special interest groups as politicians, marketeers, public figures...

...who wouldn't want to know the truth?



Our USP against competition

Social Media Verification Made Easy

- Verify Social Media content aided by state-of-the-art technology
 Systematic semi-automated investigations, deep content analysis and smart visualisations for cross-checking evidence
- Bundle the power of various verification tools
 Open platform capable to integrate state-of-the-art verification tools
- Discover experts & communities that can help

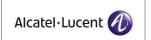
 Tracking interactions and mapping networks of people with expertise in specific topics
- Verify Social Media content collaboratively

 Real-time collaboration maintaining privacy at all levels



Project partners & where to find us



























Visit our website!

"The research leading to these results has received funding from the European Union Seventh Framework Programme under grant agreement #610928. The positions expressed are those of the authors and do not necessarily reflect the views of the European Commission"



Many thanks for your attention!

Any questions?

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