



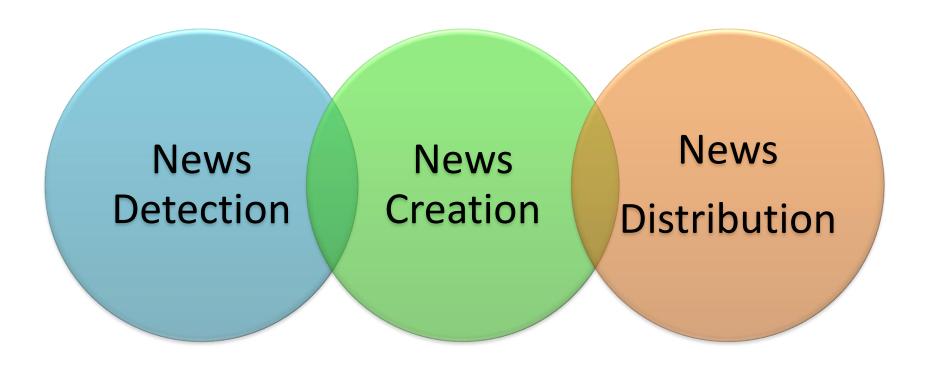
# The Artefacts of Automated Journalism: Producers' Perspectives and Audience Assessments

#### **Neil Thurman**

@neilthurman neil.thurman@ifkw.lmu.de

Digital Media, Journalism and Factual Storytelling Symposium, Cardiff University, 19 May 2016





16.03.2017





#### **Automated Journalism:**

"Algorithmic processes that convert data into narrative news texts with limited to no human intervention beyond the initial programming".

- Matt Carlson

DEPARTMENT
INSTITUT FÜR KOMMUNIKATIONSWISSENSCHAFT UND MEDIENFORSCHUNG





# **text**on





Our robots write in several languages to meet your international needs.



The market leader in real-time data storytelling



Narrative Science /

LET US DO THE WRITING FOR YOU.

retresco

ROBOT JOURNALISM AS A PARTNER

Supplementing the existing offer by more content in local and long tail



LABSENSE











**Forbes** 

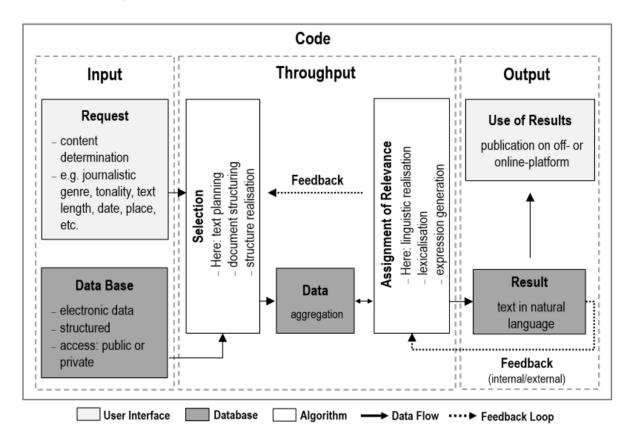
Berliner Morgenpost

Handelsblatt





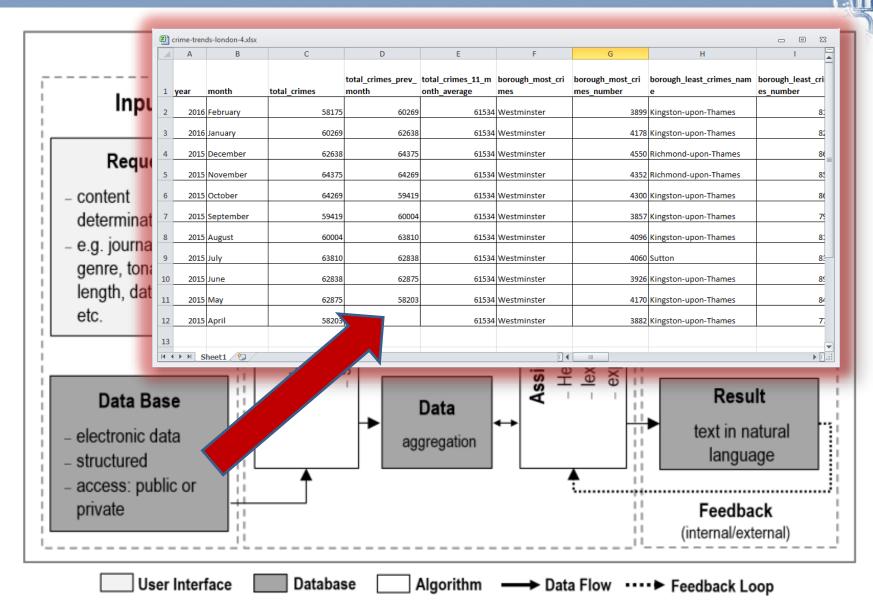
Figure 1
I-T-O model Algorithmic Journalism based on Latzer et al. (2014), Reiter and Dale (2000)



Source: Dörr, 2015

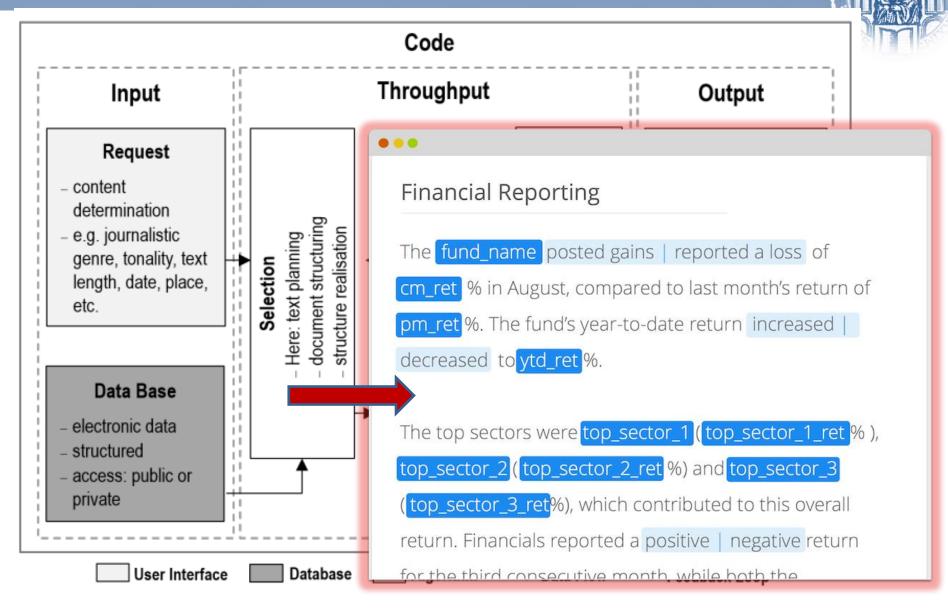


DEPARTMENT
INSTITUT FÜR KOMMUNIKATIONSWISSENSCHAFT UND MEDIENFORSCHUNG

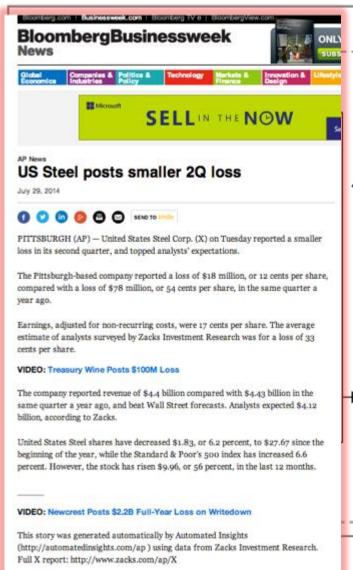


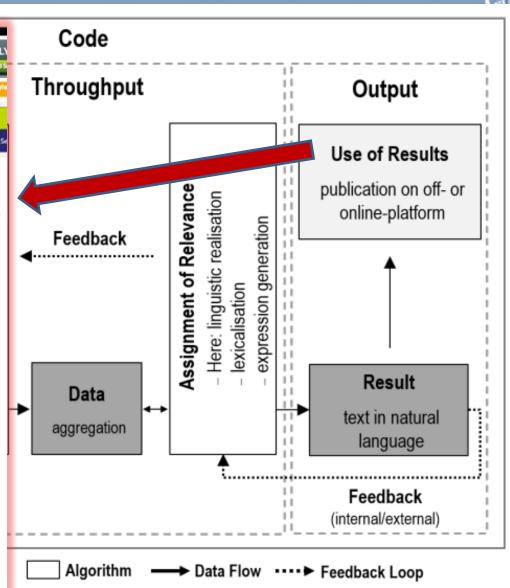


LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN













#### Methodological Approaches to Studying Automated Journalism

- 'Actors': humans involved in the process
- 'Actants': the robots / algorithms
- 'Audiences': the audience who receives the product





#### **Methodological Approaches**

'Audience'

e.g. Clerwall (2014)

Experiment / survey.

OCTOBER 11, 2015, 1:30 AM



shallow magnitude 2.6 earthquake was reported Sunday morning near Hacienda Heights, according to the U.S. Geological Survey. The temblor occurred at 1:23 a.m. Pacific time at a depth of 1.2 miles.

According to the USGS, the epicenter was one mile from La Puente, two miles from Avocado Heights, and three miles from Valinda.

In the last 10 days, there have been no earthquakes of magnitude 3.0 or greater centered nearby.





"I would never have written the story like that [based on the structured data file] I would have wanted a more diverse vocabulary...with analysis, interpretation, political context, quotes from local people or experts".

- Journalist/editor (personal communication, May 2016)





"I write five of the same types of story about five different companies, really basic, really formulaic stuff. It takes me two hours a day. Using robonews to do that would give me more time to do things that readers are going to care about".

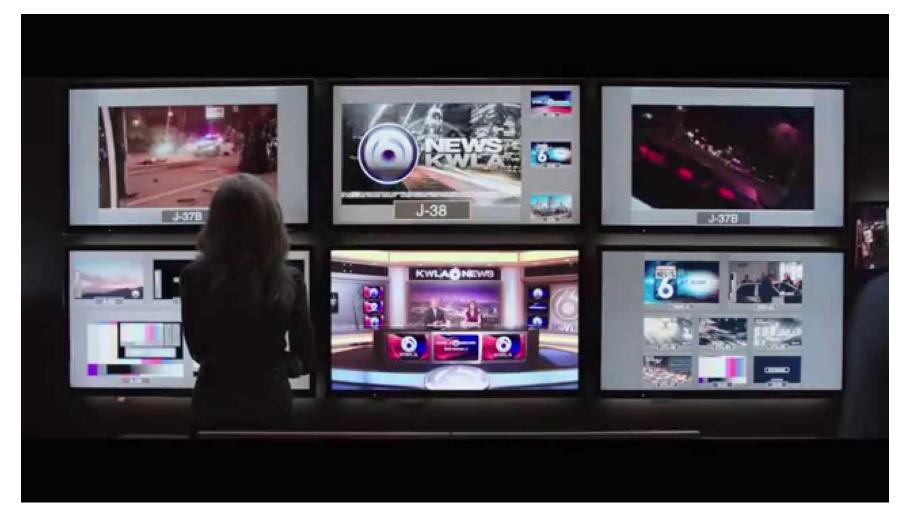
- Journalist/editor (personal communication, May 2016)



LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

DEPARTMENT INSTITUT FÜR KOMMUNIKATIONSWISSENSCHAFT UND MEDIENFORSCHUNG







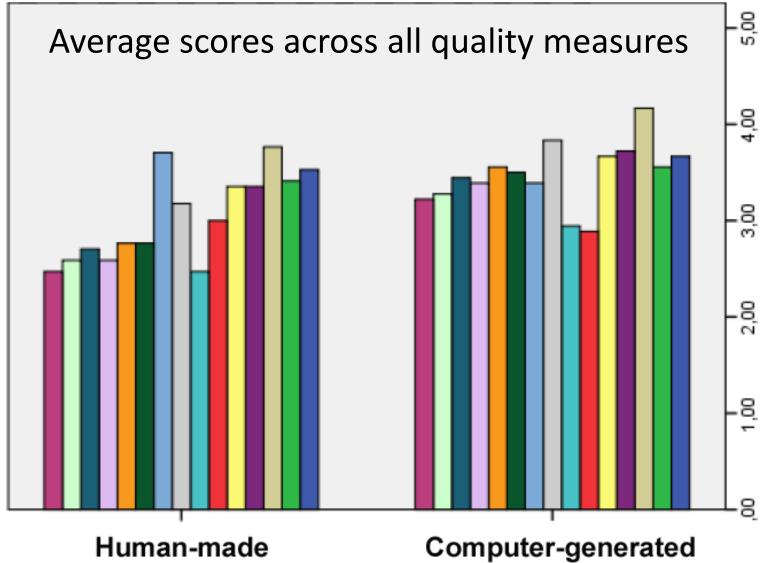


## Methodology

- Measure message quality by not disclosing the video source
- Quality in news videos <u>defined</u> as:
  - Journalistic experience: coherence, concision, etc
  - Watchability: entertaining, interesting, etc.
  - Credibility: accuracy, trustworthiness, etc



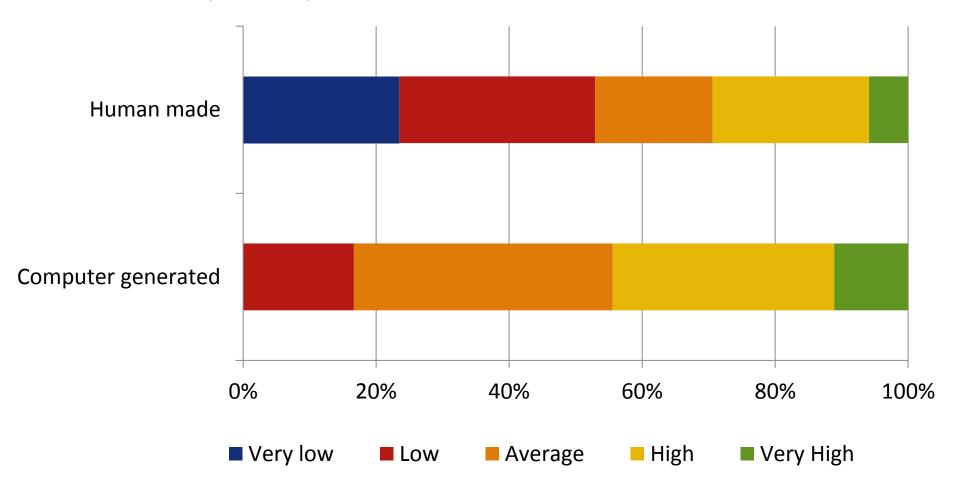








## Viewers' perceptions of trustworthiness





LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN









# "the capabilities for scale are most interesting for me".

- Editor, global news organisation





"it's an opportunity. We could write one template and produce 15 different stories to put across the regional outlets rather than having one person in every office doing that work"

- Data journalist, major UK regional news publisher





"using this technology we can grab massive amounts of data and package it up in a way our clients can use and sent it out to them"

- Editor, global news organisation





"I see this as a threat to people whose skillset does not extend beyond doing basic factual reporting"

- Editor, global news organisation

"media owners will say 'you know something' this can now replace human beings'"

- Editor, global news organisation





- Means through which young journalists are trained?
- Editorial oversight?
- News sources delivering data in structured form gain more exposure?





technology in journalism has a history of "being used by owners and managers to ... make journalistic labor cheaper...to reduce costs, while increasing productivity and maximizing profit"

- Spyridou and Veglis (2016)





#### **Neil Thurman**

@neilthurman neil.thurman@ifkw.lmu.de

LMU, University of Munich