



# FORGOOD

Behavioural science **FORGOOD** - building trust, resilience and better customer outcomes

### Introducing...



### Dr Tom Reader

Dr Tom Reader is a psychologist, and expert on organisational culture. He directs the MSc in Organisational and Social Psychology and leads the <u>Culture and Risk Research Unit</u>.

Tom's research investigates how organisations and teams build resilient cultures in which people are good at managing risk, learning from feedback, and innovating when the unexpected happens. Focussing on domains such as healthcare, finance, energy, and aviation, the aim of his research is to generate insights and practical tools that can help organisations prevent harmful failures and adapt to disruption and change. Increasingly, Tom's work explores how psychological science and AI can be harnessed to better understand, assess, and improve the culture of organisations

Tom's academic background is in Human Factors psychology, and how the design of social and cognitive systems in organisations cause or prevent errors and catastrophic accidents in safety-critical industries.

## Since we last met...



## Website and members area

https://lse-forgood.webflow.io/



Use cases and studies – in progress



GAABS annual conference



Adapting tools and services

## The FORGOOD Framework



A 'Mindspace' for navigating ethical dilemmas

## An evaluation framework for the private sector

Fairness	Does the intervention <b>treat</b> its <b>target fairly</b> ? Are <b>cohorts</b> of the target community <b>treated differently</b> ? Does it <b>attempt</b> to <b>fairly manage conflicts of interest</b> between targets, beneficiaries and other relevant stakeholders?	Yes/ No - Mitigation
Openness	Is the behavioural intervention <b>disclosed</b> or <b>evident to</b> the <b>target</b> ? Are disclosures <b>clear and proportionate</b> ?	
Respect	Does the behavioural intervention <b>respect</b> the <b>target's autonomy, dignity, freedom of choice</b> and <b>privacy</b> within the <b>context</b> of their <b>relationship with the corporation</b> ?	
Goals	Does the behavioural intervention <b>seek</b> to <b>improve outcomes</b> for targets, beneficiaries and/or other relevant stakeholders of the company? Are there different goals?	
Opinions	Does the behavioural intervention <b>pass the</b> ' <b>front page test</b> ' of public opinion? Has the intervention been assessed by an <b>independent perspective</b> ?	
Options	How do <b>financial</b> and <b>non-financial cost/benefit assessments compare</b> to other options? Is an intervention the best way, on balance, of achieving the objective?	Quantify & Compare
Delegation	Does the company have the <b>regulatory right</b> and <b>ability</b> to <b>implement</b> the <b>intervention</b> ?	



## Using NLP to study culture and complaints

## FORGOOD

Dr Tom Reader

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## (1/2) Using NLP and AI to study culture

## Discussion: How is culture measured in your organisation?

## **Culture measurement**

- Traditionally we study safety culture through self-report
  - Psychometrically validated staff surveys
  - Interviews
  - Focus groups

### Survey staff



### Recommendations

### Safety culture improvement plan:

- *Improving feedback*: Ensure feedback on safety investigations is provided promptly
- Implementation: Recommendations from safety investigations should be implemented in 90 days
- *Leadership*: decision-makers encourage incident reporting
- *Reporting fatigue*: staff must see the outcomes from their incident reports

### **Examine trends**



### **Interpret findings**



## Safety culture measurement

- Traditionally we study safety culture through self-report
  - Psychometrically validated staff surveys
  - Interviews
  - Focus groups
- But this approach has limitations:
  - Partial view on safety
  - Top-down
  - Less reliable as safety culture worsens
  - Fixed questions
  - Averages, not specifics





## **Responses to surveys can be mixed indicators**







## Growth of new data creates opportunities for culture



## Examples (1)

### Ŵ

### "Research other airlines before choosing Ryanair as a 1st option"

- ★★★ Current Employee Cabin Crew in Madrid (Spain)
- Doesn't Recommend
  Disapproves of CEO

I have been working at Ryanair full-time (More than 8 years)

#### Pros

You get to work with a wide range of nationalities, Crew are very nice to work with, they make the job more enjoyable. You have chance to transfer base so you can experience living in different countries and Staff travel perks. Great experience temporary

#### Cons

Extremely difficult to progress, contracts for the new joiners are terrible, extremely focused on sales. staff travel is great however its risen in price over the years so sometimes its cheaper to book a normal passenger ticket. Not always the base you want you will be given and could be waiting years. Crew have no motivation and there is no recognition for how hard you increase sales. Bullying from management

### **Employee feedback**

#### **Chief Executive's Report**

#### Dear Shareholder,

We are pleased to present you with Ryanair's 2017 annual report. Over the last year we delivered traffic growth of 13%, by cutting fares 13%, and saving our customers over  $\in$ 700m. More importantly, we reduced unit costs by 11% so, even at these lower prices, profit after tax grew by 6% to a new record of  $\notin$ 1.316bn, a net margin of 20%. This represents a creditable performance by a robust business model in a very difficult trading environment last year as a result of terrorist events at a number of European cities, a large switch of charter capacity from Turkey, Egypt and North Africa to mainland Europe (most notably Spain and Portugal) where Ryanair is the largest airline and a sharp decline in sterling immediately after the June 2016 Brexit referendum. Despite these curveballs, we grew our load factor to an industry-leading 94%, delivered Year 3 of our AGB customer experience program and returned just over  $\notin$ 1bn to shareholders via share buybacks.

#### Our New Routes and Bases

In fiscal 2017 we opened 10 new bases, many of them at primary airports, in Bucharest, Corfu, Frankfurt Main, Hamburg, Ibiza, Nuremburg, Prague, Sofia, Timisoara and Vilnius. Our fleet will expand to almost 430 aircraft by March 2018 as we grow traffic to over 130m customers. Our new (2 aircraft) base at Frankfurt Main opened in March and will increase to 7 aircraft from September. In April we opened a base in Naples and, in September, we will open new bases in Memmingen (Munich), and Poznan, as well as launching our first flights to Tel Aviv in Israel.

This year we also announced the launch of Ryanair Sun, a charter airline which will have a Polish Air Operator Certificate ("AOC") and management team. This new airline will commence charter flights to/from Poland for the summer 2018 holiday season with an initial fleet of 5 aircraft. This will significantly boost our presence in Poland where Ryanair is already the No. 1 scheduled airline. We expect Ryanair Sun to become Poland's No. 1 charter airline as it grows to over 15 dedicated aircraft by summer 2019.

#### AGB 4

Our AGB Customer Experience program has seen forward bookings and load factors rise for the third year in a row.

### **Organisational reports**

## Examples (2)

### Flight 230 (1969)

PIC: Well, looks like our altimeters were within reason COP: Yeah PIC: Yeah, I like that altimeter COP: Boy, you know it - reads right about the middle marker there PIC: Yeah COP: I always watch that radio altimeter [Sound of PIC whistling] PIC: I go by this one on a field like this close one COP: Yeah PIC: There's too many valleys here PIC: Ask him - John, ask him if he's got his lights turned all the way up COP: Have you got the lights turned all the way up? TWR: Sure do, uh, a little fog, right off the end there [...] COP: Everything's good [...] COP: Watch it! [Sound of impact]



### Important information is buried under ideas and questions that should unfold <u>during</u> the meeting, not before it.



### Natural speech

### Written communication

## Examples (3)

"We are writing to you to complain about the care given to our mother...she twice visited A&E in pain from an severe and ongoing sickness. The doctors examined her, and diagnosed a gastric bug. They ignored our concerns that she was getting progressively weaker. We visited a third time, five days later, where mum was diagnosed as having a hernia blocking her bowel. We feel the first doctors should have detected the hernia and acted on her deterioration. The hernia could have been detected through a more thorough examination, before her health had deteriorated to the point where she was too weak to undergo the operation (which result in kidney failure and death)" Luxury Traveller wrote a review 21 Feb Q United Kingdom • 65 contributions • 35 helpful votes

#### 0000

#### Not 5-star service

This is not a 5-star hotel; it has limited facilities. The bar closes to residents at 12, with no room service. I explained that the 5-star criteria means 24-hour room service; they agreed but said they are reviewing it. We walked out to the local area and found somewhere at 12:30am!

...

Read more -

#### Date of stay: February 2024

This review is the subjective opinion of a Tripadvisor member and not of Tripadvisor LLC. Tripadvisor performs checks on reviews as part of our industry-leading trust & safety standards. Read our <u>transparency</u> <u>report</u> to learn more.

#### Helpful (1) Share

Response from Bertrand Dijoux, General Manager at London Marriott Hotel ... Canary Wharf Responded 3 days ago

Dear Lux200, Our sincere apologies for not living up to your expectations, especially with regards to our F&B services. I will contact you via a private message to discuss this further. Kind regards, Ehzam Ali Imran Night Manager

This response is the subjective opinion of the management representative and not of Tripadvisor LLC.

### Complaints

### **Responses to complaints**

## **Enter Al...**

### • Enables analysis of large text data:

- Beyond human comprehension
- 'Scores' text for concepts
- Three main approaches:
  - 'Bag of words'
  - 'Word embeddings'
  - 'Large language models



• How can we use these approaches to study culture?

## What does taking a language-based approach to culture mean?

- Focus is on communication rather than shared norms
  - Culture is conceptualised in terms of what people say and do
  - Measured through text that reveal values and norms

### • Very different to surveys

- Bottom-up and top-down analysis
- Less artificial
- Not about averages

## **Employee textual feedback**

- Employees often report workplace experiences
  - Social media
  - Employee surveys
  - Exit interviews
  - Professional website forums
  - Incident reports
- Vast data: millions of words
  - Sharp-end descriptions of culture
  - Cultural actions: e.g., speaking-up



## Demonstration

## Validity of this approach?

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ARTICLE HISTORY

#### Target pressure and corporate scandals: a natural language processing investigation of how organizational culture underlies institutional failures

Tom W. Reader (1)<sup>a</sup> and Alex Gillespie<sup>a,b</sup>

\*Department of Psychological and Behavioural Science, London School of Economics, London, UK; \*Department of Psychology, Oslo New University College, Oslo, Norway

#### ABSTRACT

An organizational culture of pressurizing employees to achieve unrealistic goals ("target pressure") is Received 10 August 2023 Accepted 23 August 2024 often suggested to foster the misconduct and risk-taking that causes institutional failures (corporate scandals, accidents). To conceptualize and investigate this, we gathered anonymous employee online **KEYWORDS** reviews about working in 218 companies (71,830 reviews, containing 4,356,105 words) and developed Organizational culture: a natural language processing algorithm to measure the salience of norms for target pressure within the institutional failure: natural employee reviews. Using this measure, we surfaced and gualitatively analysed sentences in which language processing: risk: employees discussed target pressure, and quantitatively tested whether companies with a high target target pressure pressure culture (in which target pressure was especially salient in collective thinking) were at greater risk of experiencing a corporate scandal. Our hypothesis was supported. Qualitative analysis found that high target pressure cultures are characterized by norms for three inter-linking elements: overly ambitious targets that are beyond the capability and control of employees, highly consequential targets that generate strain, and expediency in achieving targets, which encourages an "ends justify the means" mentality. Combined, these elements may increase the likelihood of institutional failures by promoting, incentivizing, and normalizing deviant or risky behaviour (i.e. to achieve targets), and implicitly deprioritizing the importance of safe and ethical conduct.

A culture of pressurizing staff to achieve unrealistic or risky measures to indicate when organizations have fostered cultural Deepwater Horizon oil rig explosion, pressure to establish with institutional failures. oil production contributed to errors in risk management et al., 2009)

goals ("target pressure") is frequently identified as a causal norms that increase the risk of an incident. Accordingly, in the factor in major institutional failures. For instance, in the current study, we conceptualize and investigate the nature of Wells Fargo cross-selling scandal, the pressure to meet a "high target pressure culture" - in which the norms for target unrealistic sales targets led bank staff to create millions of pressure are highly salient to the members of the organization false customer accounts (Tayan, 2019), and in the BP and the mechanisms underlying it, and explore its relationship We build upon recent advances in the use of unstruc-

(Reader & O'Connor, 2014). Broadly, it has been theorized tured textual data and natural language processing (NLP)<sup>1</sup> that excessive target pressure in organizations - for to measure organizational culture (Pandey & Pandey, 2019), instance, from managers setting infeasible yet punitive or and analyse anonymous employee online reviews that lucrative targets - tacitly or directly encourages and nor- describe experiences of working in major European firms. malizes deviant behaviour, undermines values for safety and Research has suggested that such unobtrusive and unstrucethics, and thereby increases the likelihood of an accident tured textual data are valuable because they can generate or corporate scandal (Entwistle & Doering, 2023; Ordóñez unvarnished insights into organizational culture, and NLP is increasingly used to develop quantitative indicators from While target pressure is often an implicit part of cultural textual data on the degree to which certain norms are models that aim to explain why institutional failures occur, for prominent and shared within an organization (e.g., around instance, as part of the theory on safety culture (Guldenmund, target pressure) and to surface high-relevance textual state-2000) and ethical culture (Kaptein, 2011), the psychology litera- ments that qualitatively show how norms manifest and ture lacks (a) a nomological conceptualization of target pres- shape behaviour in workplace environments (Hald et al., sure as a cultural construct and process, and (b) the systematic 2024: Reader et al., 2020). Taking a mixed-methods investigation of its proposed relationship with institutional fail- approach to address two research questions, we developed ures. Addressing these gaps would advance theory and evi- an NLP algorithm to indicate whether an organization has dence on how target pressure manifests in organizations, developed a high target pressure culture, and used the better account for the role of organizational culture in institu-algorithm to (a) gualitatively conceptualize how a high tartional failures, and potentially lead to the development of get pressure culture manifests and shapes behaviour within

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ORIGINAL ARTICLE

#### Online patient feedback as a safety valve: An automated language analysis of unnoticed and unresolved safety incidents

#### Alex Gillespie<sup>1,2</sup> I Tom W. Reader<sup>1</sup>

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#### Abstract

But, their effectiveness is undermined if staff do not notice or report incidents. Patients, however, might observe and report these overlooked incidents because they experience the consequences, are highly motivated, and independent of the organization. Online patient feedback may be especially valuable because it is a channel of reporting that allows patients to report without fear of consequence (e.g., anonymously). Harnessing this potential is challenging because online feedback is unstructured and lacks demonstrable validity and added value. Accordingly, we developed an automated language analysis method for measuring the likelihood of patient-reported safety incidents in online patient feedback. Feedback from patients and families (n = 146,685, words = 22,191,427, years = 2013-2019) about acute NHS trusts (hospital conglomerates; n = 134) in England were analyzed. The automated measure had good precision (0.69) and excellent recall (0.98) in identifying incidents; was independent of staffreported incidents (r = -0.04 to 0.19); and was associated with hospital-level mortality rates (z = 3.87; p < 0.001). The identified safety incidents were often reported as unnoticed (89%) or unresolved (21%), suggesting that patients use online platforms to give visibility to safety concerns they believe have been missed or ignored. Online stakeholder feedback is akin to a safety valve; being independent and unconstrained it provides an outlet for reporting safety issues that may have been unnoticed or unresolved within formal channels.

Safety reporting systems are widely used in healthcare to identify risks to patient safety.

KEYWORDS

incident-reporting, natural language processing, online feedback, patient safety

#### 1 | INTRODUCTION

Approximately 10% of hospital patients experience an adverse event during treatment (unintended harm due to errors), such as exacerbating resource pressure, harm, and even mortality (Lane et al., 2021; Makary & Daniel, 2016; National Academies of Sciences & Medicine, 2018; Vincent et al., 2001; World Health Organization, 2017). To reduce adverse events, healthcare organizations have invested in safety reporting systems for staff to report observations or involvement in safety incidents (adverse events and near misses) in order to identify and mitigate emerging risks

(Barach & Small, 2000; Vincent et al., 2017). However, the success of these reporting systems in reducing adverse events has been limited due to inconsistencies in staff recognizing and reporting incidents (Shojania & Thomas, 2013; Stavropoulou et al., 2015).

Patient and family reports of care submitted to healthcare review websites (henceforth "online patient feedback") can augment risk management in hospitals (Greaves et al., 2013; Griffiths & Leaver, 2017). Specifically, we propose that online feedback is especially valuable for monitoring unnoticed and unresolved safety incidents. To this end, we introduce and validate an automated language analysis

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Risk Analysis. 2023;43:1463-1477

Check for up

Discussion: What forms of data do you have in your organisation that could be used to study culture?

## (2/2) Using NLP and AI to study complaints

## **Complaints**

### • The value of complaints

- From the sharp-end
- Outside the organisation
- Less pressure to distort
- Unsolicited, reveals events not averages
- Report on problems in organisational functioning
  - For example: medical errors, poor attitudes, bad communication, unsafe practice (<u>Reader & Gillespie</u>, <u>2021</u>)
- Provide an external view on culture



Discussion: How do you analyse complaints in your organisation?

## **Al-algorithm**

- Scores textual data from patients and families in complaints
- Measures every sentence in terms of relation to safety incidents
- Every story sent to a hospital is scored
- Hospitals are scored in terms of how much patient complaints focus on issues about safety culture

### **Safety Incident Measure Demonstration**

This is an interactive dashboard, illustrating an algorithm to measure safety incidents in patient feedback.

Press the button to randomly select and analyse patient feedback (or type/paste into the box).

'Safety incident' refers to whether a human judged the feedback to contain a safety incident.

'Algorithm score' is the score assigned by the automated text analysis.

#### ℃ Use an example

Type text

My husband and I took our 5 week old baby son to A&E at Solihull hospital with a temp and a rash. In my opinion the way we were treated was disgraceful. The nurses we met were unwelcoming and the doctor didn't have a clue what he was doing they put my son through hell trying to take blood, they covered him with blood after trying and didn't clean him up they caused him a lot of upset and distress the doctor got an anaesthetist down to help and even he didn't have a clue! I will never set foot back in that hospital again and I am making a complaint!

### Safety incident = yes Algorithm score = 0.401 My husband and I took our 5 week old baby son to A&E at Solihull hospital with a temp and a rash. 0.36 In my opinion the way we were treated was disgraceful. 0.4 The nurses we met were unwelcoming and the doctor didn't have a clue what he was doing 0.4 they put my son through hell trying to take blood, they covered him with blood after trying and didn't clean him up 0.41 they caused him a lot of upset and distress the doctor got an anaesthetist down to help and even he didn't have a clue! 0.41 I will never set foot back in that hospital again and I am making a complaint! 0.31

## **Empirical Study**

- <u>Care Opinion</u> (established 2007)
- Online feedback platform for patients and their relatives
- Aim to improve healthcare in UK
- 'Stories' posted are unsolicited and qualitative
- 'Responses' are posted by staff
- 700k stories and 15k staff listening

Marsh, C., Peacock, R., Sheard, L., Hughes, L., & Lawton, R. (2019). <u>Patient experience feedback in UK hospitals: What types are available</u> and what are their potential roles in quality improvement (QI)? *Health Expectations*, 22(3), 317–326.





### Featured stories

"Everyone was informed that she was visual impaired but **she wasnt provided with anything to help.** She was given a clear water jug and beaker so she was unable to see them"

About: Northampton General Hospital (Acute), Northa Accident and emergency, Northampton General Hospi Northampton General Hospital (Acute) / Older people

"Their commitment to his recovery and to supporting us (his family) is beyond words. They treat him and us with **professional expertise of the highest quality**"

About: Ninewells Hospital / Stroke care (Ward 33) and

## Descriptives

Hospitals = 134 Stories = 146,000 Years = 2013 - 2019 Total words = 22,191,427

Story mean words: 158

Range: 1 to 3,894 words



## **Descriptives**

## Stories have bimodal sentiment, with negative & positive peaks Responses have a positive sentiment skew



## High-scoring hospitals had more safety incidents

- "I raised concerns that the beta blockers were causing me to feel faint and confused [reporting possible adverse reaction to medication]";
- "I said...I thought my wife had a blood clot [voicing concerns over a misdiagnosed chest infection]";
- "she showed the video of her knee popping out, he [the doctor] immediately said that her knee had been fitted with the wrong sized spacer" [helping a doctor identify a medical error].
- "I asked 'why the hell had these stones been missed on both the ultra sound and MRI scans' [addressing poor safety standards]";
- "Our frustration with Mum's lack of care continued...my stepfather and I challenged the ward manager about how the ward was being run [on monitoring patients)";
- "to our horror we discovered she had been taking tablets prescribed for [someone else] and demanded the right ones [after a series of medication problems]".



## Findings (1)

Staff-reported incidents

Obtrusive, internally reported

**No association** with hospital mortality rates

(for any year 2013-2019)



## Findings (2)

Patient-reported incidents

Unobtrusive, externally reported

**Strong association** with hospital mortality rates

(for every year 2013-2018)

ward 4. My family have been relying on accurate information about OUR MOTHER when we call. However twice in less than a week we have been given information about other patients. This is from two different wards, two different members of staff and two incorrect patients confidential information being passed on. this has been highly distressing to our family. To add insult to injury, when I sent an E-mail of complaint within their closed system there has been no response!

Thank you char11e I can acknowledge receipt of your concerns and advise that you will be contacted by my team today. Providing information via telephone is limited and there is a protocol in place to ensure that there are no breaches of confidentiality. If a relative lives a distance away we can set up a password to ensure the correct information is provided to the right person.

The ward is awful. My Dad is in there now and is in a shocking state. Unshaven, sitting in dirty clothes, has been given the wrong food, as he is coeliac. We had to wait over 1 hour yesterday to speak to someone in charge. It's not as if the hospital is around the corner we have to drive from the Isle of

Thank you for your feedback. I am very sorry that you are dissatisfied with your Dad's care, this must be very worrying for you.



Have you spoken to the Senior Sister or Senior Charge Nurse to let them know of your concerns. I know from experience that they would be really keen to know of your concerns as it will give them an opportunity to try and resolve things.



## Conclusions

- Complaints provide an alternative lens on culture:
  - They report on incidents and problems hidden or missed by organisations
  - Validated against outcomes
  - Can be used as an early warning system
  - Become especially important when there is a poor culture
  - Are usually the first 'canary in the coalmine'

Discussion: Potential to use NLP on complaints in your organistion?

## **Breakout Groups – 15 mins**

Tackle a live challenge in groups Come back ready to share



## Debrief

### Four experiential workshops in ethical behavioural science



Network of academics and professionals, with access to a curated content hub\*

\*supported by subject matter experts on behavioural science in AI and organizational psychology

## Conclusion and next steps

### **One Action**

What has resonated today? What one action will you take into your work tomorrow?

What application does this

### Feedback

l liked...

I wish...

Future topics of interest

### What's next?

**Prctical application** 

Increasing profile

Building community of practice

For a limited time, we are offering a **12-month** rolling membership at **£7.5k** per institution, with terms reviewed annually.

## Contact us at info@forgoodframework.com to find out more.

FORGOOD is supported by LSE Consulting and LSE Innovation & Impact

### The team

The **FORGOOD** team at LSE are supported by a wider group of subject matter experts who share professional knowledge and provide advisory support. LSE's research and teaching span the full breadth of the social sciences, from economics, politics, and law to sociology, anthropology, behavioural science, accounting, finance, and communication.



### Professor Liam Delaney | Co-Founder of FORGOOD

**Professor Liam Delaney** leads on the scientific insights curated for the **FORGOOD** community. He co-developed the **FORGOOD** Framework with Professor Leonhard Lades, heads the Department of Psychological and Behavioural Science at LSE and is a leading expert in the ethical foundations of behavioural public policy.



### Annabel Gillard | Co-Founder of FORGOOD

**Annabel Gillard** leads relationship development with the **FORGOOD** community. She has two decades of experience in asset management and is a key figure in shaping ethical business practices. She serves on the advisory council of the Institute of Business Ethics and Blueprint for better business, and co-founded CFA UK's ethics committee.



### Bishin Ho | Co-Founder of FORGOOD

**Bishin Ho** leads on the structure and delivery of the **FORGOOD** proposition. She is a finance strategist with over 15 years of experience. She specialises in applying behavioural science to corporate challenges, particularly in the age of new technology.