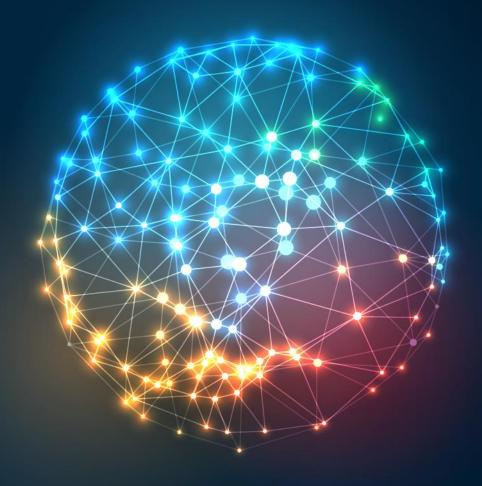


Armstrong Wolfe Event

Measure, Predict and Improve Organisational Performance with next Generation **Behavioural AI**

Presented By





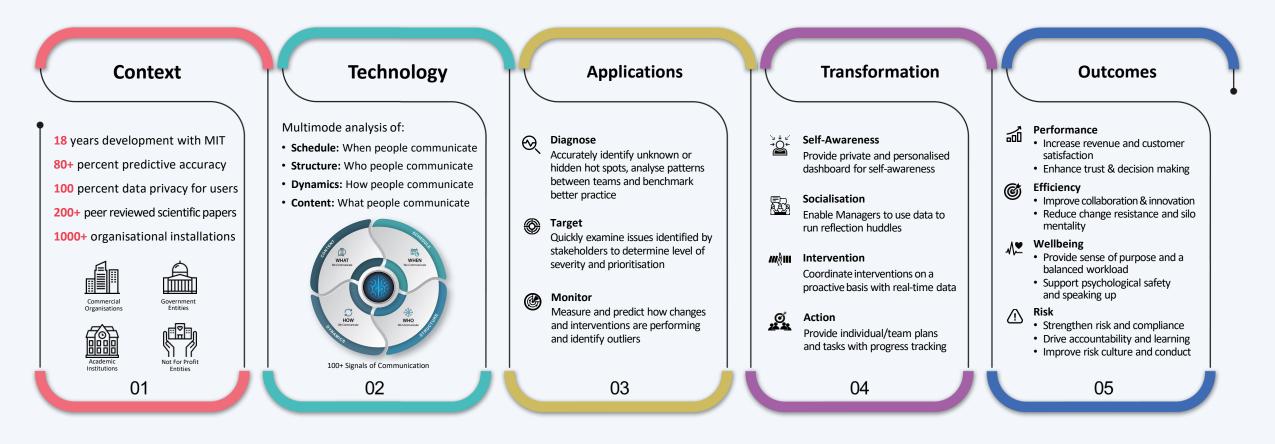
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OVERVIEW OF TECHNOLOGY

The infographic below illustrates the context, nature, application and outcomes from the use of the GalaxyLens Behavioural AI technology:





GALAXYLENS MULTIMODE TECHNOLOGY

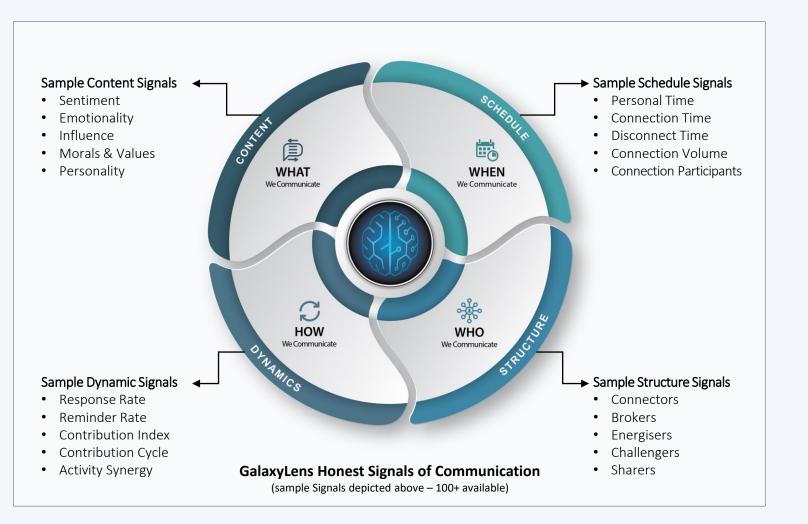
GalaxyLens has a unique multimode technology which captures a combination of communication:

- Schedule: When people communicate.
- Structure: Who people communicate with.
- **Dynamics:** How people communicate.
- **Content:** What people communicate.

The above represents a high level categorisation of the GalaxyLens Honest Signals of Communication, which currently comprise 100+ individual Signals.

Each Signal has been tested and proven over a number of years in numerous commercial applications.

Typically, a combination of only 3 - 4 Signals are required to accurately measure a chosen behavioural or culture factor.





GALAXYLENS MULTIMODE TECHNOLOGY



Multimode Technology

GalaxyLens is the only system that provides a holistic and all-encompassing analysis of communication data through its unique Multimode technology. This involves the combined measurement of communication Schedule, Structure, Dynamics and Content, which significantly increases the insight and certainty of the analysis process.

100+ Signals of Communication

The combined modes of Schedule, Structure, Dynamics and Content comprise over 100 Signals of Communication. When a number of independent Signals coalesce and display consistent results, the predictive accuracy can reach up to 80%. Predictive accuracy relates to whether the behaviour being analysed is present and whether the interventions being applied to improve that behaviour are effective.

Data Tools & Sources

Our technology can capture and analyse any text or voice data stored by an organisation on its servers, whether on premises or in the cloud. This includes email, calendar and collaboration apps (e.g. Slack, Yammer, Teams, etc.), video conferencing apps and instant messaging apps (e.g. Bloomberg, Symphony, etc.). The data sources can include virtually any form of data captured by the organisation.

Installation and Data Hosting

GalaxyLens can be installed on the client's premises, on the client's cloud server or Software as a Service (SaaS), where Galaxy Sciences provides and maintains the service.

Benefits

Multimode technology enables GalaxyLens to provide:

- Holistic Measurement: GalaxyLens is the only behavioural analytics tool that captures the full scope of communication Schedule (when), Structure (who), Dynamics (how) and Content (what).
- Wider Applicability: This enables the analysis of a much wider range of behavioural factors including Performance, Productivity, Wellbeing and Risk objectives.
- **Higher Accuracy:** The combination of communication Schedule, Structure, Dynamics and Content provides the most reliable prediction of behaviour with up to 90% accuracy.



GALAXYLENS CALIBRATION

The calibration process for GalaxyLens involves a systematic process of identifying the cultural and behavioural goals to be achieves, defining the causal drivers of each goal and assigning the appropriate combination of Signals to measure each causal driver. In this way, the GalaxyLens Signals are a measure of the root cause of the behaviour. Whilst there are over 100 Signals to choose from, typically a combination of only 2 – 4 Signals are required to accurately measure a behavioural driver.

Below is an example of the calibration process for measuring accountability for risk management.



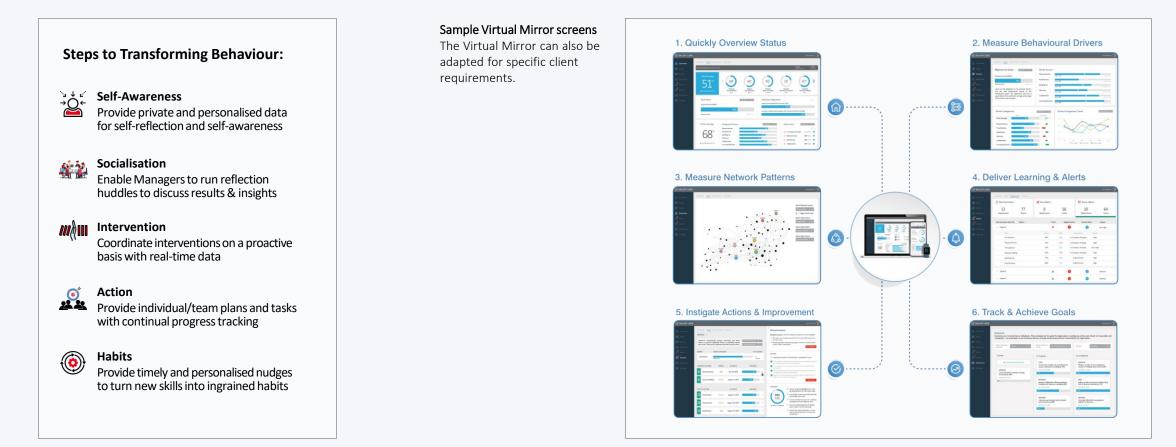
GALAXY

Transforming Behaviour

The behavioural change created by GalaxyLens stems from Virtual Mirroring. This enables individuals and/or teams to reflect on their own communication styles, look at their own areas of improvement and perceive themselves from new viewpoints. This leads to increased self-awareness and self-reflection, which creates the conditions for behavioural change.

Self-awareness also requires socialisation and continuous dialog on the impact that our words and behaviors have on others. To this end, the insights and recommendations produced by GalaxyLens are discussed in monthly Virtual Mirroring sessions with team leaders, where the communication characteristics of teams can be shared and debated and interventions planned and tracked.

Every employee is able to access his/her data on a private and confidential basis through their personalised Virtual Mirror dashboard. This dashboard has individual, team and company results.





BEHAVIOURAL OUTCOMES

GalaxyLens can be used to analyse, predict and improve a wide range of outcomes including Performance, Efficiency, Wellbeing and Risk objectives.

Examples of relevant applications are provided under each category with many more variations available depending on the context and needs of each client environment.





CASE STUDIES



Conduct & Behavioural Risk



Organisational Development



Client Engagement

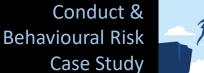


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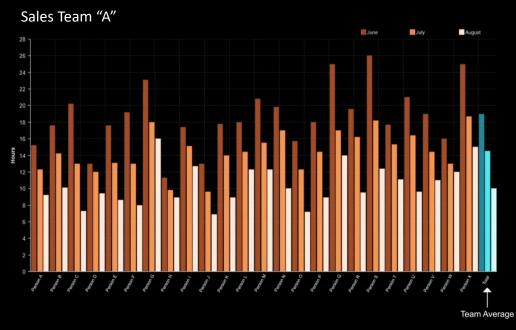


Responsiveness to Risk Issues

Timely and Effective Resolution of Risk Issues







How to read this graph: This measures the speed of response to the resolution of risk issues.

1. Analysis

- Established team benchmark for the appropriate average response time for Team A.
- The analysis identified slower than average response time on the part of Team A to risk teams.

2. Intervention

- Team A Leader socialised and discussed monthly results with team.
- Team A agreed to focus on better response time to risk teams and monitor progress of same.

3. Action

• Team A achieved 48% faster response time to risk teams over 3 month period. This brought Team A's response time to risk teams in line with its response time to other teams it interacts with. The objective is not to simply increase response time (this can create stress) the goal is to achieve an average response time benchmark appropriate for each team.

4. Outcome

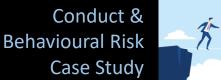
• 64% faster resolution of outstanding risk issues over a 3 month period.

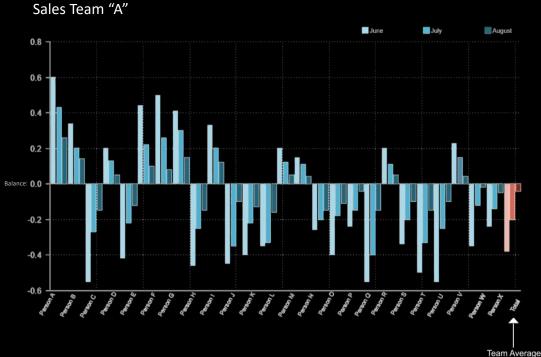




Proactiveness for Risk Issues

Engaged and Proactive Approach to Risk Issues





How to read this graph:

This measures the sending and receiving ratio of communication.

The optimum result is a balance in sending/receiving (i.e. 0.0 in the graph above).

A high negative score means the team/person is mainly receiving communication. A higher positive score means

they are mainly sending communication. Too high in either direction is not good – particularly when a team/person has a good balance and gradually moves too low or too high.

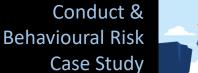
1. Analysis

- Established team benchmark for the appropriate balance for Team A.
- The analysis identified low proactive communications from Team A to risk teams.
- 2. Intervention
 - Team A Leader socialised and discussed monthly results with team.
 - Team A agreed to be more proactive in comms with risk teams and monitor progress of same.
- 3. Action
 - Team A gradually contributed more proactive and meaningful communication with the risk teams.
- 4. Outcome
 - 75% improvement in communication balance over 3 month period.





Speaking Up Challenging and Escalating Risk Issues





Sales Team "A"

Testing Copy Finding Leadership List Stability Systems Letter Governance Infrastructure Assurance Focus Growth Enterprise Base Customized Services Questions Iterate Restore Recommendations Pricing Opportunity Quality Regulation Understood Capital Management nvestment Banking RO Behaviour Develop Compliance Remuneration Modelling Materials Agree Week Placement Process Query Equity Environment Procurement Strategy Metrics Staff Log Policies Deliverables Core Transition Factor Customized -arn Conference Pavoff Network Interface Communicate

How to read this word cloud:

This measures "Honest Language" – the balance of positive and negative sentiment in communication. The more balanced the sentiment, the more "honest" the language. In the case of Speaking Up, it is desirable to see a degree of negative sentiment as this would reflect language associated with challenging, concerns and awareness.

1. Analysis

• As can be seen from the word cloud on the left, most of the sentiment is positive. If the objective is to understand the level of honesty and transparency, an absence of any negative sentiment can also indicate a fear mentality or an aversion to speaking up and sharing bad news.

2. Intervention

- Team A Leader socialised and discussed monthly results with team.
- Team A Leader reinforced safety to speak up and led by example. Other senior leaders also endorsed this and led by example.

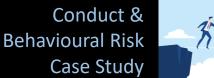
3. Action

- Better use of honest language with leaders setting the example over time.
- 4. Outcome
 - 15% improvement of honest language across the team.





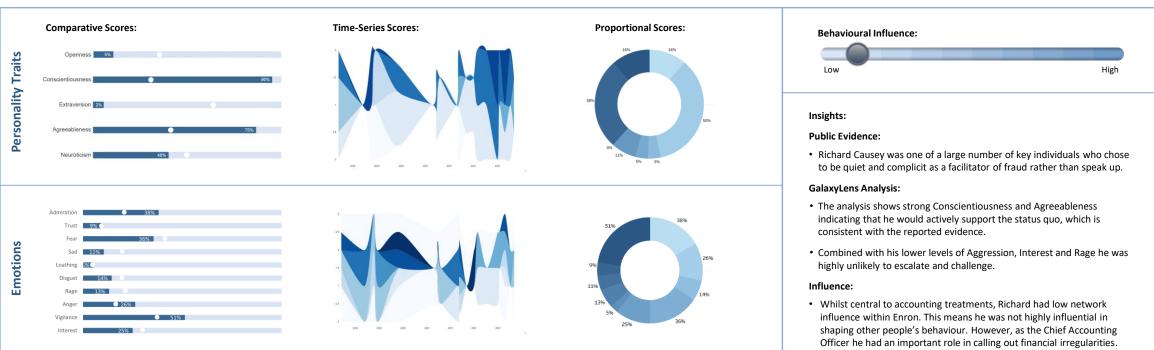
Speaking Up Challenging and Escalating Risk Issues





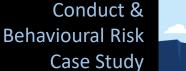
The previous slide illustrated a simple sentiment analysis on communication language. This level of analysis can be significantly enhanced through the measurement of personality traits and emotions. To illustrate such an analysis, GalaxyLens was applied to the Enron dataset to test the ability to identify the occurrence of proven misconduct. The analysis below is on Richard Causey.

Richard Causey. Chief Accounting Officer. Guilty of securities fraud. Served 5.5 years in jail. Dutiful and quite man described as religious, obedient and family oriented was a key support to the convicted CFO Andrew Fastow. He was largely unknown within Enron but had regular and detailed dialogue with the CEO and CFO and the treatment of accounting issues that underpinned the market deceptions.

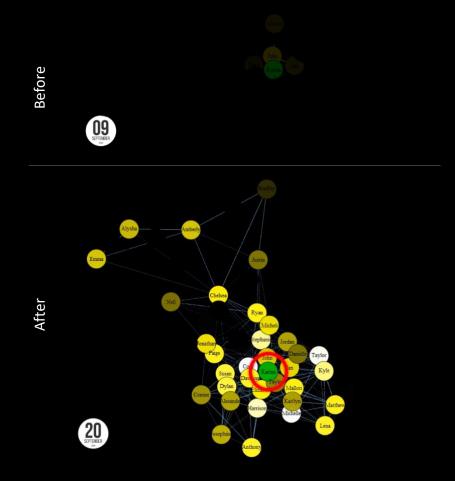












1. Analysis

- This analysis focused on "Diffusion" the degree to which the tone at the top and direction from senior leaders penetrates the many layers and boundaries of an organisation.
- In this case, we measured the diffusion of Anti Money Laundering directions from the CRO of a Bank.
- As can be seen from the illustration on the left, these AML directions were essentially unheeded by this
 particular team, reflected in the lack of interaction on this topic by the members of the team. The
 "Before" image shows most of the team members not taking part in any discussions or collaboration on
 the AML directions (their nodes or circles are dark in the network).

2. Intervention

- Identified key influencer or "Culture Carrier" in the network (Karina) and engaged her to champion and advocate on AML and other risk issues. Her influence is not based on seniority, but the level of trust and likeability others in the team have towards her.
- 3. Action
 - Once the Culture Carrier started to prompt discussion, the level of interaction and collaboration on AML increased significantly. This is shown in the "After" image by the number of members from this team "active" on this topic.

4. Outcome

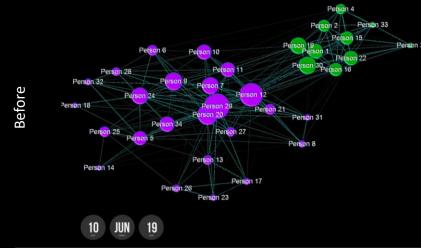
• 85% increase in communication diffusion on AML for this team.

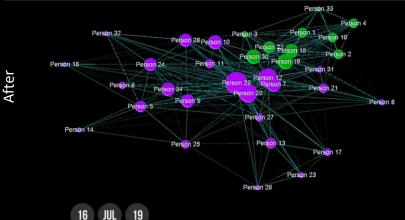


Communication & Collaboration

Cooperation and Teamwork on Key Issues Collaboration Across the 3 Lines of Defence Organisational Development Case Study







1. Analysis

- This analysis focused on "Betweenness Centrality". This counts the number of shortest paths that go through a person in a network. A path is a connection between two people. The higher the number of paths that go through a person, the more that person facilitates the flow of information between people. In other words, they are a connector between people. For this reason, they are often called "Brokers" (a type of Culture Carrier).
- Initially, we demonstrated that there was a silo between these two teams, as per the "before" network above left. The fact the silo situation was able to be measured and proven was in itself a key development because the purple team disputed the suggestion there should have been more interaction between itself and the green team.

2. Intervention

- Identified the key "Brokers" between the two teams (not necessarily the team leaders) and ensured they were willing and able to facilitate better communication flow.
- 3. Action
 - Team Leaders of both teams focused their teams on improving the response time, reducing the number of reminders and improving the contribution ratio (sending/receiving ratio).

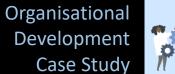
4. Outcome

• 87% increase in the Collaboration Efficiency score between both teams.

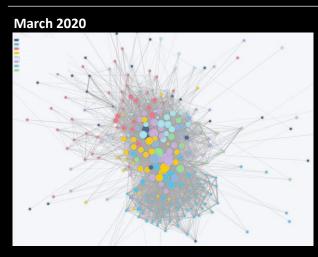


Reduction of Silo Mentality

Measuring and Improving Team Collaboration Pre-Post Restructure

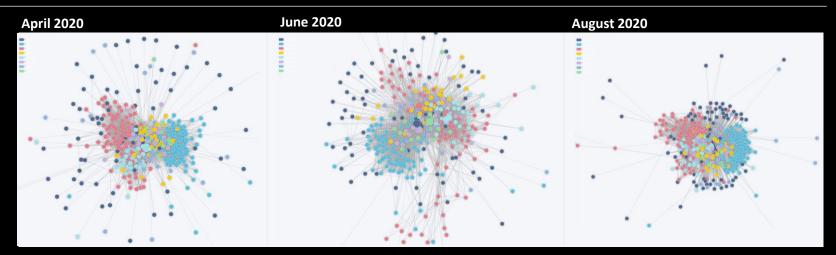


Pre-Restructure



- Situation: The network graph above shows a group of teams pre-restructure.
- Objective: Measure pre-restructure collaboration with postrestructure collaboration to ensure maximum synergy and effectiveness from restructure.

Post-Restructure



- the restructure.
- Fragmented collaboration with some teams following
 Improvement in collaboration amongst most teams with certain teams not improving as fast as others
- · Significant overall improvement with only a small number of individuals unable or unwilling to engage following the restructure.
- Outcome: 87% increase in collaboration effectiveness and communication efficiency across all team layers post-restructure.



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Actions

Results

Client Engagement Improve Client Satisfaction Ratings



GalaxyLens Improves Client Satisfaction at Genpact

 $\{(n)\}$ Scope Measured change in external Net Promoter Score (NPS)

· Level of leadership engagement in customer service provision · Speed of response and initiative around customer queries Client dealing with same employee rather than a rotating cast Analysis Use of clear and simple language in customer communication

Analysed 4.5 million emails once a month over two year period

- · Analysis was benchmarked to six-monthly NPS survey
- Team Leaders socialised data with their teams once a month for 30 minutes to review results and agree action plans

Teams using GalaxyLens increased their NPS by 17%
 Teams not using GalaxyLens went backwards in NPS

· Identified staff who would leave 5 months in advance

Identified staff who became the top 10% performers

Context

В

- In this widely recognised case study we sought to improve the Customer Net Promotor Score (NPS) at Genpact. To prove the efficacy of GalaxyLens, the analysis was conducted as a scientific study comprising an experimental group (using GalaxyLens) and a control group (not using GalaxyLens). Both groups were aware of the analysis taking place.
- Genpact is a US professional services firm listed on the NYSE and spun out of GE with over 70,000 employees.
- The objective of this study was to increase the Net Promotor Score (NPS) for identified client facing ٠ teams. NPS measures the likelihood of a customer to recommend a company, a product or a service to a friend.
- A summary of the context, analysis and outcomes is provided on the left infographic.
- This has become a seminal study in the behavioural analytics industry and was published in the Harvard Business Review in the April 2019 issue.







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