



# Quality in Construction Lunch 'N' Learn – National Highways

**26 March 2024, 1pm - 2pm**

# Please Participate!

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Please ask your  
Questions via the  
Question and Answers  
Speakers will respond  
during the session



The session will be  
recorded  
Slides/recording will be  
distributed afterwards.

[www.menti.com](https://www.menti.com)

Menti poll code  
**4899 6168**





# Welcome

Andrew Wilson

Programme Manager – National Highways  
Supply Chain Sustainability School

[andrew.wilson@supplychainschool.co.uk](mailto:andrew.wilson@supplychainschool.co.uk)

- **Welcome and introductions**
- **Improving Quality in Construction** - Rob Andrewes, Head of Quality, Design & Standards, National Highways
- **Importance of Get It Right First Time approach** – Cliff Smith, Executive Director, GIRI
- **Adoption of GIRI and Learning** – Lynden Haworth, Head of Assurance, Galliford Try
- **Future Plans & The GIRI Framework**– Emer Murnaghan, Innovation Director, Graham and Strategic Leadership Time, GIRI
- **Questions and Answers**

# New National Highways E-Learning Pathways - enrol now

## Pathways include:

- [NEW Business Improvement, Productivity and PPC \(Percentage Plan complete\)](#)
- [NEW An Introduction to Health and Safety](#)
- [NEW Productivity and Lean](#)
- [NEW Quality for Highways](#)
- [Social Value Pathways 1 & 2](#)
- [FIR Pathways Level 1 & 2](#)
- [Customer Experience Pathways x 3 – Strategic Procurement, Roadworks & Supplier Customer Maturity](#)
- [Supplier Development System](#)
- [Core 1 & 2 Pathways](#)
- [Sustainability and Net Zero Pathway](#)

National Highways: Quality for Highways

National Highways strives for the highest quality standards across its operations. As a member of the Get it Right Initiative (GIRI), National Highways aims to create a working culture that gets it right from the start, engaging all stakeholders in embracing error from inception, to completion. National Highways collaborates with other industry experts, organisations and businesses dedicated to improving productivity, quality, sustainability and safety in UK construction. Learn about how your business can play an important part in this work.

Complete this pathway to gain knowledge and understanding of how your business can contribute to driving quality in National Highways.

Allocated Friday, 2 June 2023, 9:59 AM  
This learning pathway is achieved when all resources marked required are complete.

- QUALITY MANAGEMENT**  
National Highways: Quality E-Learning Module  
E-LEARNING MODULE  
REQUIREMENT REQUIRED 20 mins
- QUALITY MANAGEMENT**  
Quality: Getting it right from the start  
E-LEARNING MODULE  
REQUIREMENT REQUIRED 45 mins
- QUALITY MANAGEMENT**  
GIRI Training Information  
DOCUMENT / PRESENTATION  
INTERMEDIATE REQUIRED 15 mins
- QUALITY MANAGEMENT**  
Introduction to GIRI Training  
VIDEO  
REQUIREMENT REQUIRED 5 mins
- QUALITY MANAGEMENT**  
Quality Management  
E-LEARNING MODULE  
REQUIREMENT REQUIRED 60 mins
- QUALITY MANAGEMENT**  
Quality in Infrastructure  
E-LEARNING MODULE  
REQUIREMENT REQUIRED 30 mins



# Rob Andrewes

Head of Quality, Design & Standards  
National Highways



# Improving Quality in Construction

**Rob Andrewes**

National Highways

Head of Quality – Design & Standards







GIRI research has estimated that quality issues account for between 10% and 25% of project costs

*“.....to improve quality we need to engage leadership and change attitudes.....”*

# The Opportunity



↑ Basic – but a good platform to improve



# The Opportunity

<p><b>Millions of potential savings</b></p> <p>by reducing Cost of Poor Quality NH by end of RIS 2</p>		<p>Reduced <b>customer disruption</b> due to rework.</p> <p>Improved <b>customer experience</b></p>		<p><b>KPI benefits</b></p> <p>potential efficiency gains in RIS 3 by aligning quality maturity with industry average. Reducing the risk of significant failure.</p>
	<p>Opportunity to deliver up to <b>10% carbon emission reduction</b> to drive the decarbonisation plan</p>		<p><i>Safety impacts:</i></p> <p>Reduced strategic <b>risk of asset failure</b>.</p> <p>Reduced <b>site risk</b> due to rework</p>	

# National Highways – Our 5 priority actions



**Our vision for quality**  
Our customers expect us to consistently deliver high quality roads that meet their needs. Quality is integral to how National Highways manages, maintains and improves the strategic road network to make journeys safer, smoother and more reliable. Quality is essential to every aspect of our work, from planning and design through to construction, operation and decommissioning.

**Our aim**  
To always do 'the right thing, the right way, every time' to reduce roadworks and build assets that last longer and require less intervention.

**Our approach**  
Our focus is to deliver real benefits for our customers, our people and our supply chain through:

- Significant efficiencies and productivity savings
- Safety improvements through better planning and 'right first time' execution
- Better customer experiences
- Substantial contributions to our carbon and environmental targets

**Improving quality in construction**  
Our charter

**Our principles**

- Culture** – Embed a culture of quality
- Process approach** – Improve our end-to-end quality process
- Partnership** – Incentivise suppliers to improve quality
- Measure to improve** – Enable data-driven improvement
- Capability** – Establish the right structure and skills

**Our personal commitment**  
As individuals and as a team we are all responsible and empowered to deliver better value through improved quality. We know there are many opportunities for improvement and we are committed to ensuring quality is a fundamental part of all our decision making and activities in support of our safety, customer and delivery imperatives.

*"I am convinced that if we get our approach to quality right, this will create more efficiencies and productivity savings, greater safety improvements and better customer experiences."*  
Nick Harris, CEO, National Highways

home safe and well

## The Five Priority Actions

- 

**Significant Quality Incidents Reporting**
- 

**Commitment To End Planned Pavement Surfacing Between December And March**
- 

**Interim Asset Lifespan Performance Metrics**
- 

**Supplier Quality Awards and incentivisation**
- 

**Quality management – independent works examiner role**

# Supplier Quality Group established



*Collaboration and building momentum*

## e learning



SUPPLY CHAIN SUSTAINABILITY  
**SCHOL**



Working closely with Supplier Development & Performance Team to expand the Quality Learning Pathway.

Create a consistent approach to measuring Quality maturity through Tier 1s and into our extended supply chain.

Support Supplier Quality Maturity assessment for Tier 2+ and provide tailored learning through the school

# Significant Quality Incidents

An SQI is an instance where the quality of delivery has the potential to cause:

- Significant harm, such as someone being killed or seriously injured.
- Significant impact on our customers, such as a full road closure.
- Significant impact on delivery of our work, such as causing a delay to one of our schemes.
- Significant additional cost, such as remedial work costing in excess of £100,000.
- Significant impact on the organisation's reputation, such as negative articles appearing in the national media.
- The repeated reoccurrence of lower-level issues that may require root cause analysis and more significant intervention.

## Reporting an SQI

### Report a Significant Quality Incident

Process for reporting Significant Quality Incidents (SQIs) into SHEQ Committee.

Aimed at raising the profile of quality across all National Highways projects and to start to inform us about the scale of significant issues.

This will also support analysis of trends and root cause leading to improvement actions / SHEQ quality alerts and to quickly identify and share issues that may require immediate attention. The reporting of SQIs will help to build consistency and confidence in our understanding of quality in our organisation and supply chain. We aim to align our approach with the successful methodology used in improving our focus on safety.

\* Required

1. Date(s) Quality incident identified \*

Please input date (dd/mm/yyyy)



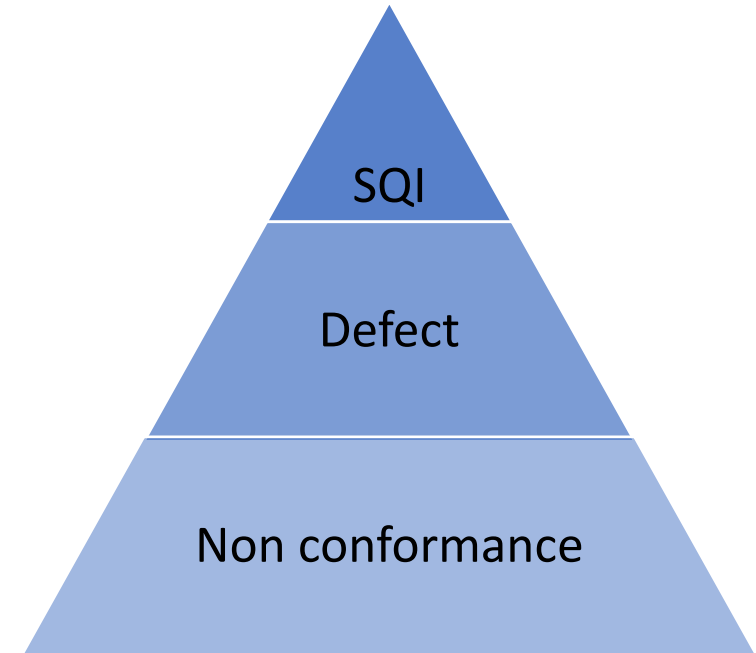
2. Full name \*

Enter your answer

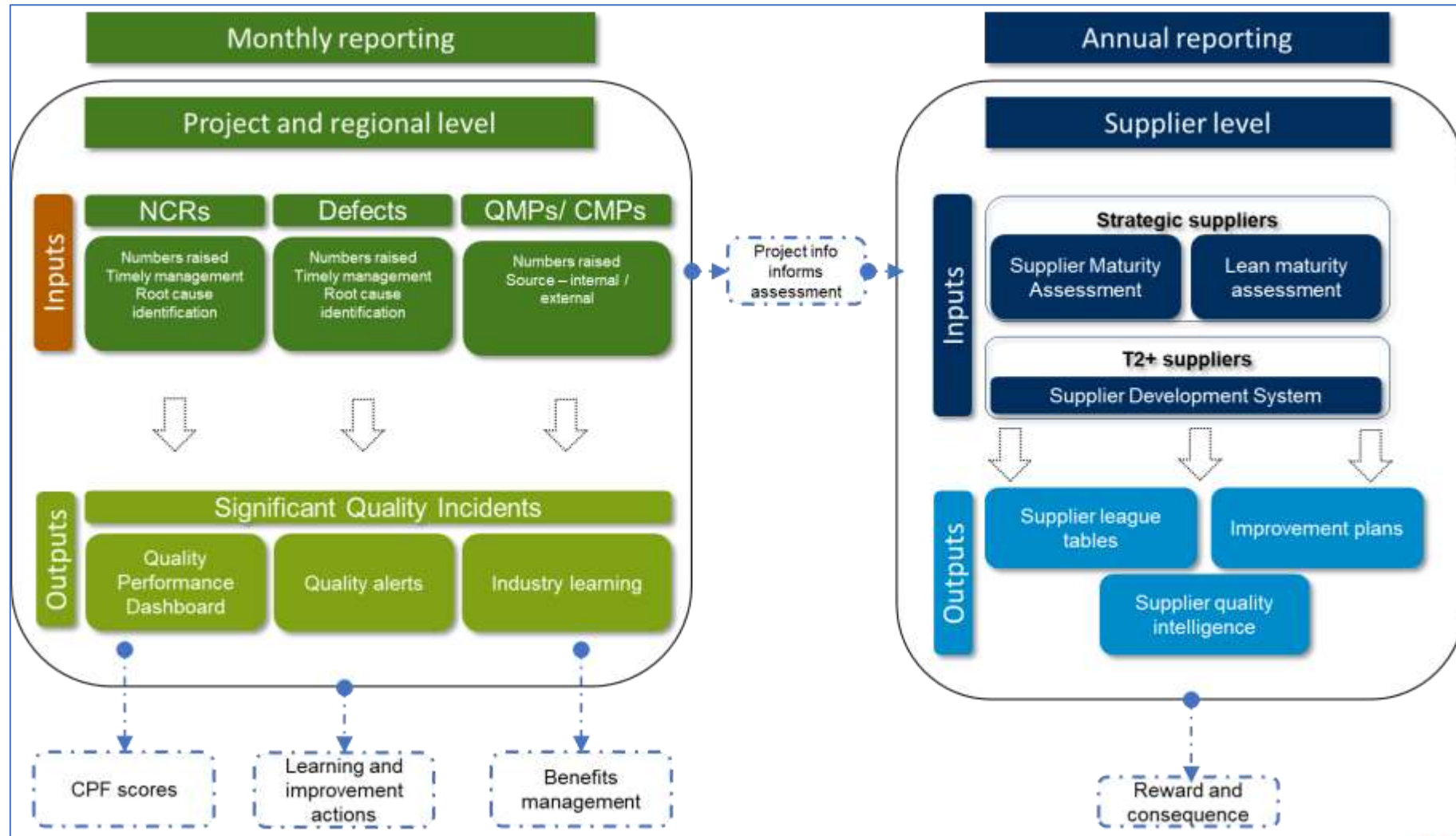
3. Location (e.g. Scheme name, Operations region) \*

Enter your answer

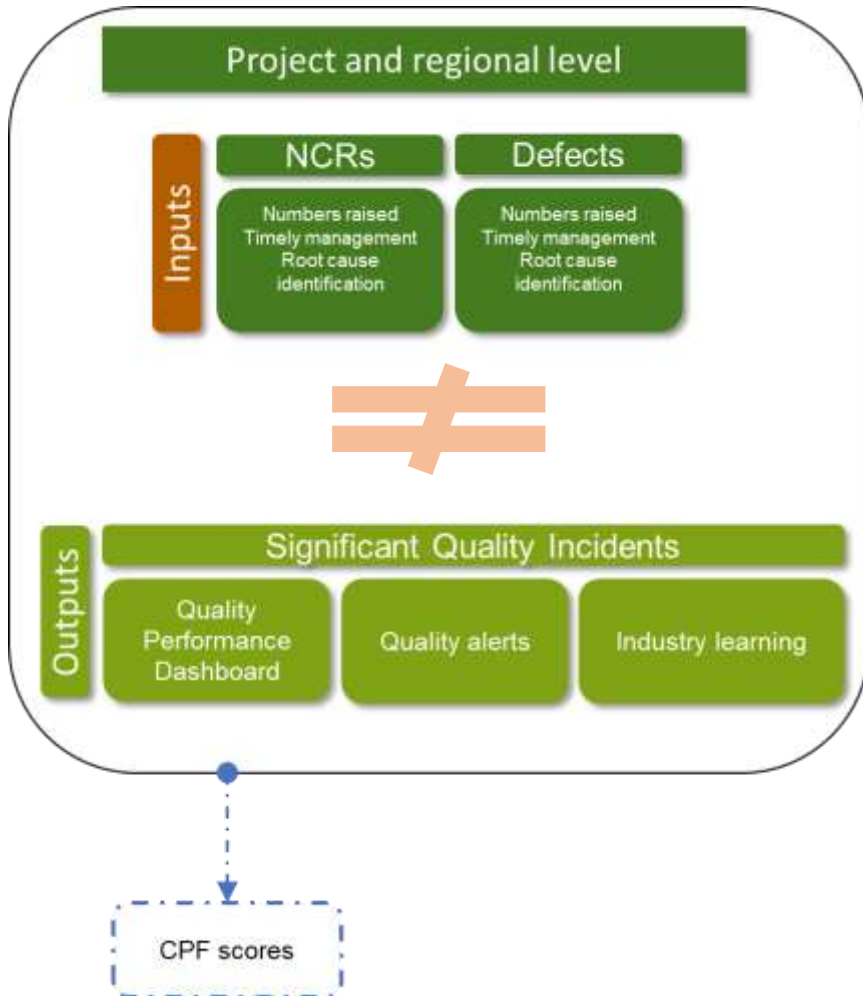
[Link to SQI form](#)



# National Highways Quality Performance System



# Challenges...



- Different data formats
- Different data captured
- Different definitions (or interpretations)
- Different language e.g. root causes
- Different environments & motivations
- Different approaches e.g. remedial cost estimates
- Not aligned to CPF

# Improving Quality in Construction







# Cliff Smith

Executive Director

Get It Right First Time Initiative / GIRI



A large concrete dam with a crack and a pile of coins. The dam is made of grey concrete blocks. A crack runs diagonally across the dam. A pile of coins, mostly British pounds, is visible on the right side of the dam. In the background, there is a small white building on a concrete platform.

# Introduction to GIRI

## NH SCS March 2024

**Cliff Smith**    GIRI Executive Director

Working together to eliminate error,  
by industry, for industry.

[getitright.uk.com](http://getitright.uk.com)     [@GIRI\\_UK](https://twitter.com/GIRI_UK)     [@GIRI](https://www.linkedin.com/company/giri)

# GIRI

Get It Right Initiative

# Get It Right Initiative

Improving value by eliminating error

A Strategy For Change



Supported by

**ice**  
Institute of Civil Engineers

Initial research report:  
**Strategy for Change**

**GIRI**  
Get It Right Initiative

## Wasted spend on error

### Direct costs of error (5%)

resources used in correcting an error

### Indirect costs of error (7%)

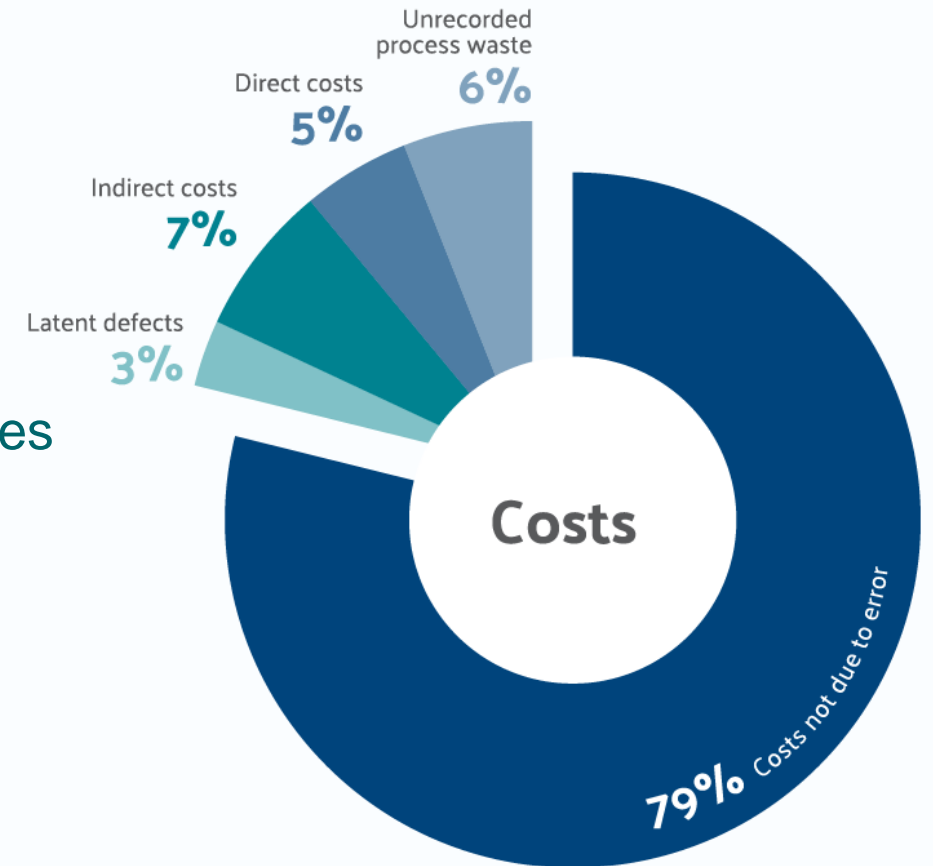
Resources used in follow on work and costs to other parties

### Unrecorded process waste (6%)

Errors occur, are identified and corrected without being recorded

### Latent defects (3%)

remain in place after client acceptance and any 'defects liability period' has passed



# GIRI

Get It Right Initiative

- **Which areas of construction have the costliest mistakes?**

**Use the poll**

**[www.menti.com](http://www.menti.com)**

**Menti poll code  
4899 6168**



# Areas in which cost of error is greatest

- Concrete works
- Mechanical systems
- Facades/cladding
- Electrical systems
- Finishes
- Roofing
- Basement waterproofing
- Setting out
- Drainage
- Drainage to completed works
- Steelwork coatings
- Piling
- Roads & pavements

**GIRI**

**What do you think are the most likely root causes of error?**

**Use the poll**

**www.menti.com**

**Menti poll code  
4899 6168**



# Root causes of error

- Inadequate planning (from task through to project level)
- Late design changes
- Poorly communicated design information
- Poor culture in relation to quality
- Poorly coordinated and incorrect design information
- Inadequate attention paid in the design to construction
- Excessive commercial (financial and time) pressures
- Poor interface management and design
- Ineffective communication between team members
- Inadequate supervisory skills

**GIRI**



# Defining productivity

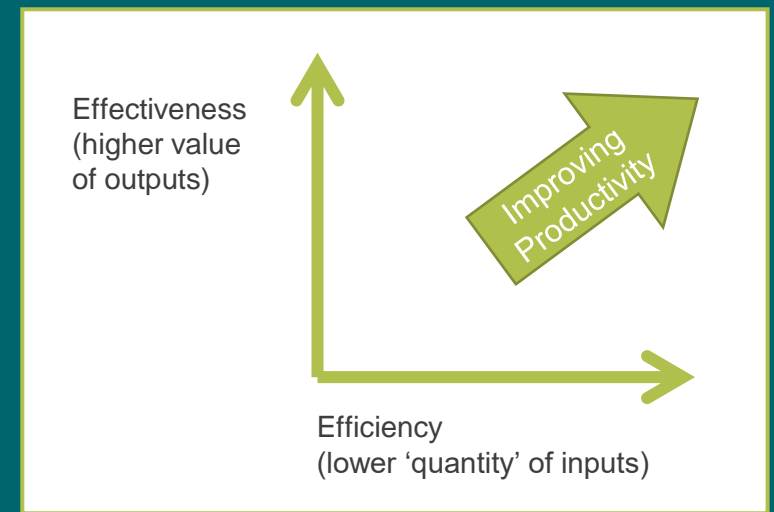
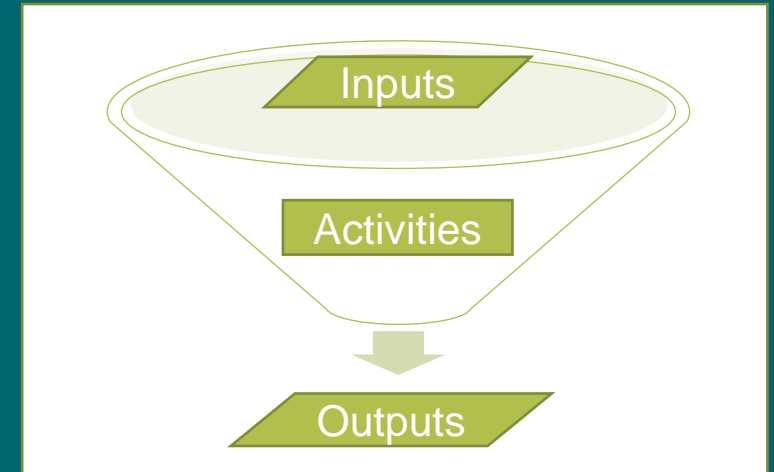
Our definition of productivity relates to activities, which take inputs and produce outputs (see Figure 1).

The two concepts of effectiveness and efficiency are important to consideration of productivity where:

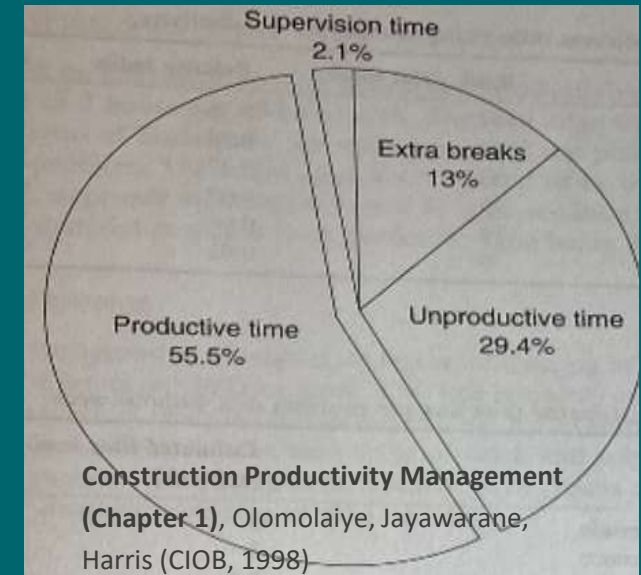
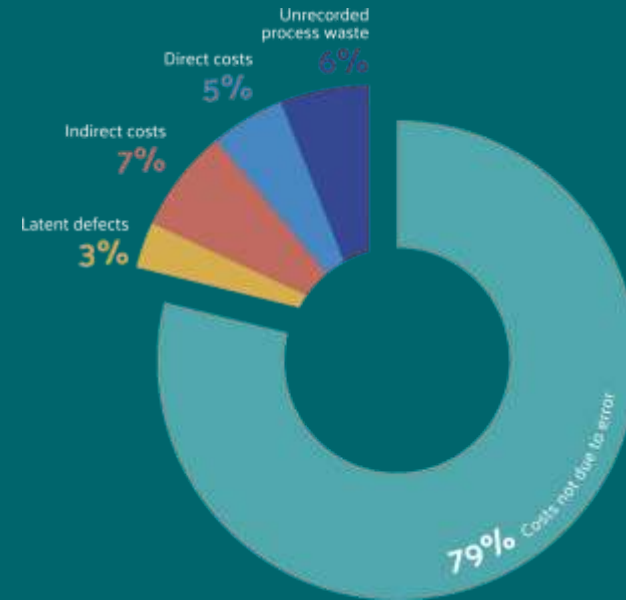
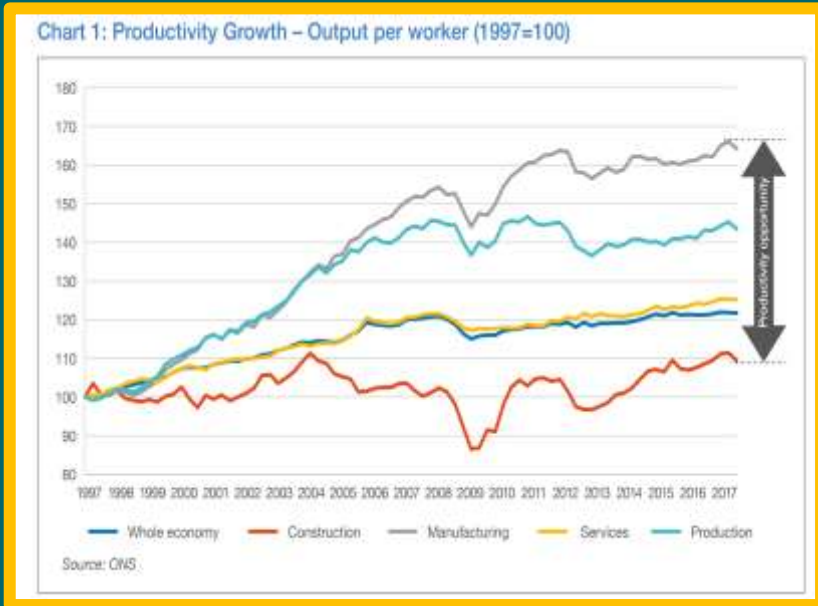
- Effectiveness refers to the quality or value or scale of the outputs; and
- Efficiency refers to some ratio of outputs to inputs

$$\text{Efficiency} = \frac{\text{Output}}{\text{Input}}$$

*Improving productivity means increasing both effectiveness and efficiency.*



# The construction productivity problem



Changing to compete (2009) found that:

*“Engineering construction project productivity in the UK was identified as being highly variable - up to twenty or thirty percent better or worse than average.”*

# GIRI

Summary root causes of error:

- Culture
- Planning
- Design
- Supervision

# Human cost of error



# Synergies health & safety and quality

1994 First Version of CDM



Building Safety Act 2022



GIRI

- sharing knowledge
- changing behaviour
- developing competence

# GIRI

# Strategic aim of GIRI

To improve construction productivity & quality, and reduce costs & waste by eliminating error.

# GIRI aims & objectives

- Create a **culture** and working environment to get it right from the start.
- Change **attitudes** and harness **leadership** responsibility to **reduce error, waste & rework** and **improve quality, productivity & safety**.
- Engage all **stakeholders** in eliminating error from inception, through operation, to completion.
- Share **knowledge** about error reduction processes and systems.
- Improve **skills** across the sector creating a positive approach to pre-empting error.

# GIRI

# GIRI strategic priority themes

- Deliver a strategic awareness **campaign** to improve sector attitudes to error
- Develop and implement an error reduction **skills programme** across the sector
- Develop improvements to **processes, systems and technology** to remove error
- Provide opportunities for members to **share** experience and network



# Current GIRI membership: 90+ companies

- Government advisory bodies
- Clients
- Architects
- Structural and M&E engineers
- Tier one and tier two contractors
- Lawyers
- Insurers and insurance brokers

**GIRI**

**GIRI MEMBERS**





**BENEFITS**





# GIRI

Get It Right Initiative

[getitright.uk.com](http://getitright.uk.com)  [@GIRI\\_UK](https://twitter.com/GIRI_UK)  [@GIRI](https://www.linkedin.com/company/giri)



Training

# Training

## Four CITB-accredited courses

- *Leadership training*
- *Interface & design management training*
- *Supervisor & manager training*
- *Trainer training*

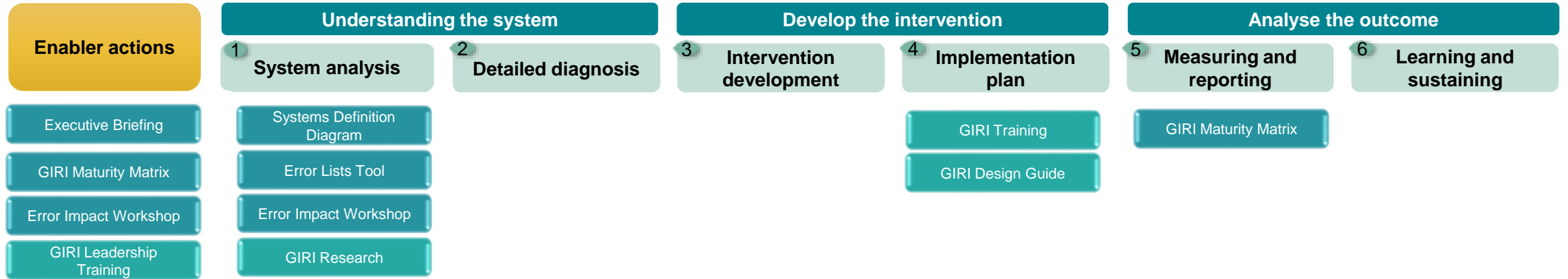


# GIRI

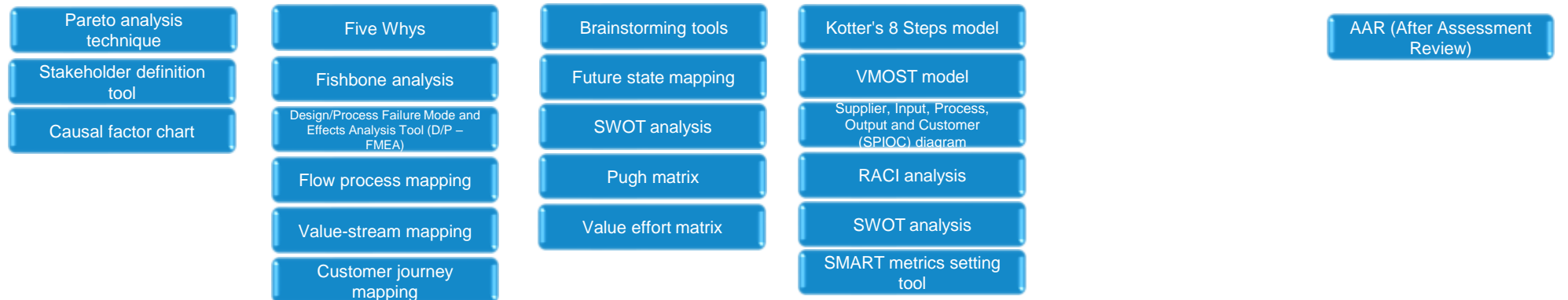
Get It Right Initiative

# GIRI Framework Toolkit Mapping

- GIRI Training
- GIRI Developed Tools
- Industry Tools

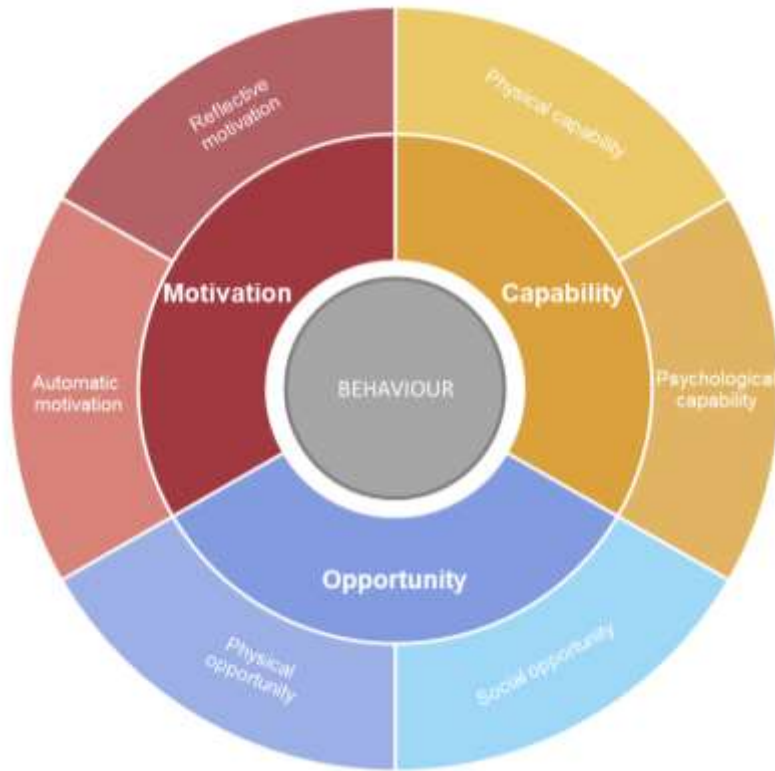


## Industry-recommended tools



# GIRI Error Maturity Matrix

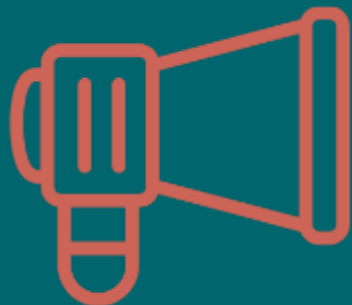
The GIRI Maturity Matrix was developed to help organisations measure their readiness to manage error and support an error-free environment. The matrix was developed based on COM-B behaviour model which suggests that to drive the right behaviour you need to have the right capability, opportunity and motivation in your organisation. GIRI Error Maturity Matrix factors have been developed as shown on the left hand side diagram below.



COM-B Behavioural Model

Behaviour					
Capability		Opportunity		Motivation	
Physical capability	Psychological capability	Reflective motivation	Automatic motivation	Social opportunity	Physical opportunity
Physical competence	Knowledge and understanding of tasks	Communication and shared learning	Quality management systems and processes	Cultural support for error reduction	Reward and recognition incentive systems
Competency assurance	Interdisciplinary awareness and skills	Cross-functional collaboration	Decision-making procedures	Strategies	Environmental cues
Tools and equipment	Error awareness	Contractual arrangements and procurement processes	Information access	Individual attitudes	Automated systems
Training and development programmes	Decision-making skills	Leadership support	Safe working environment	Care about reputation and success	Continuous improvement incentives
	Managing psychological factors				

GIRI Error Maturity Matrix



Campaigns

# Communications – strategy

- Presentations and collaborations
- Aligning our message on error with wider industry challenges
  - Building safety
  - Productivity
  - Reducing error on the way to net zero
- Amplifying GIRI's voice through media and public affairs

# GIRI





Research

# Design Guide

- Re-edit following survey
- Edit complete
- New web-based platform for ease of navigation



# GIRI



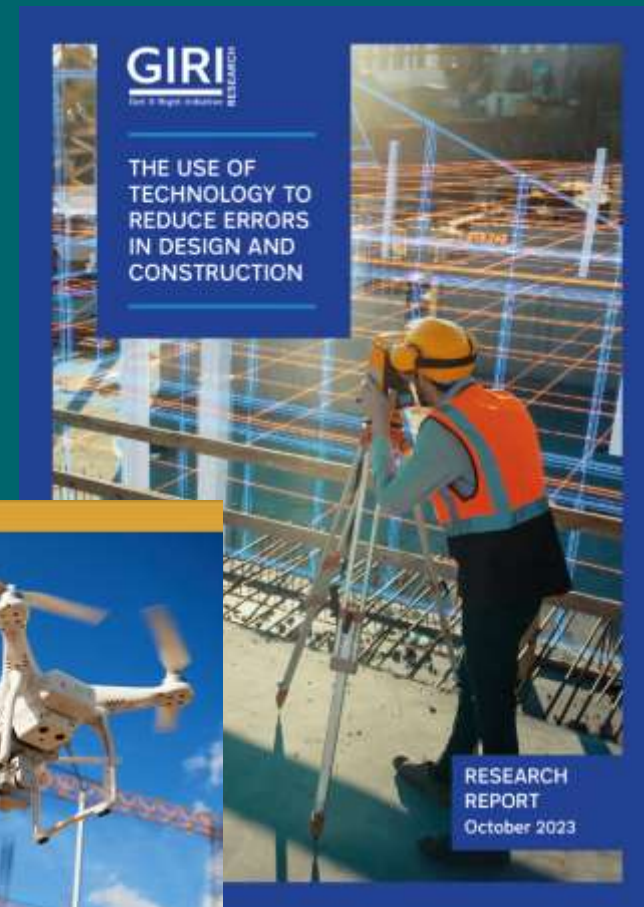


# Technology Group

Research

Research into

- various technology applications to avoid error
- effectiveness of technology at workplace



# GIRI

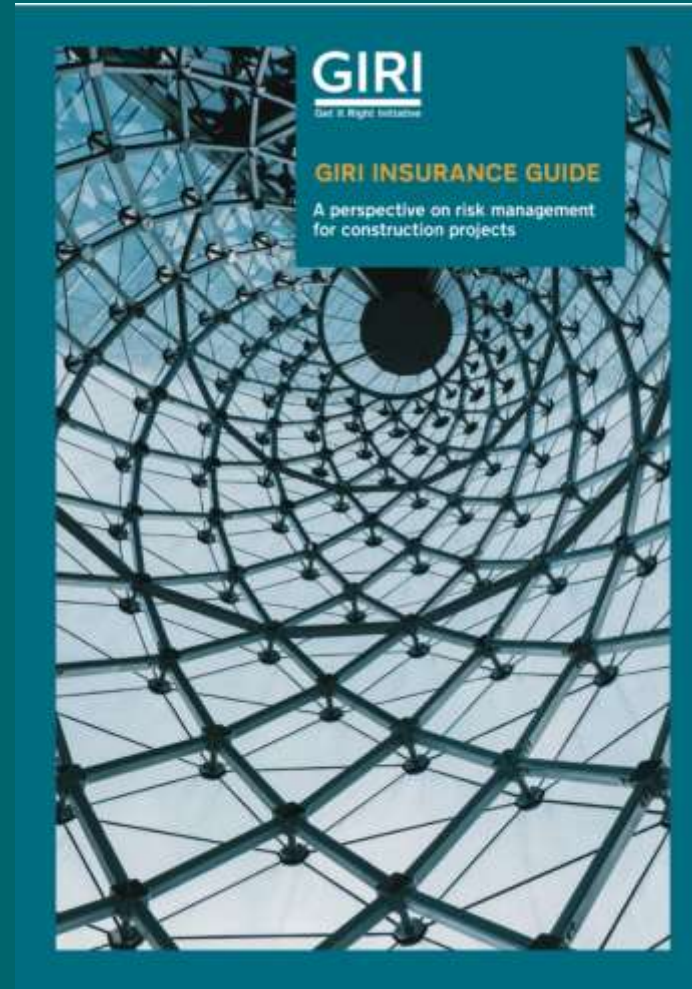
Get It Right Initiative



Research

# Insurance working group

- Guidance document issued September 2023



# GIRI

Get It Right Initiative



Research

# BSA Steering Group

- Established July 2022
- Focus on reducing error in implementation of new Act.



Documents > General

Name	Modified
BSA Knowledge Hub Content	October 2
GIRI BSA Steering Group Meeting 20230627	June 28
GIRI BSA Steering Group Meeting 20230726	July 20
GIRI BSA Steering Group Meeting 20230928	September 15
GIRI BSA Steering Group Meeting 20231103	October 30
CLC Building Safety - June Industry Call - fo...	July 21
GIRI BSA Steering Group Meeting 2023062...	June 28

# GIRI

Get It Right Initiative



Research

# GIRI Metrics

CLC and GIRI carrying out a pilot research project re: industry wide EFR

HS2 GIRI Efficiency project undertaken leading to identification of project level error metric process





Networking

# Collaboration

**Constructing Excellence**

**CQI**

**ConSIG**

**Temporary Works forum**

**BSI – QS/1/4 Committee**

**BSF**



# GIRI

Get It Right Initiative

An aerial photograph of a large concrete dam. A prominent crack runs diagonally across the dam's surface. In the bottom right corner, a large pile of coins is visible, appearing to be spilling out from a hole or crack in the dam. The overall scene is in shades of grey and blue, with the coins providing a point of contrast.

**GIRI**  
Get It Right Initiative

# Driver of cultural & behavioural change in the industry

Working together to eliminate error,  
by industry, for industry.

[getitright.uk.com](http://getitright.uk.com)  [@GIRI\\_UK](https://twitter.com/GIRI_UK)  [@GIRI](https://www.linkedin.com/company/giri)

**GIRI**  
Get It Right Initiative





# Lynden Haworth

Head of Assurance

Galliford Try / GT Infrastructure





**Quality in construction: Measuring, Understanding & Improving for Excellence**  
**26<sup>th</sup> March 2024**





# Lynden Haworth

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Head of Assurance

GT Infrastructure



# Introduction

*“Improving quality through culture, collaboration, consistent delivery and continual improvement.”*

# Introduction

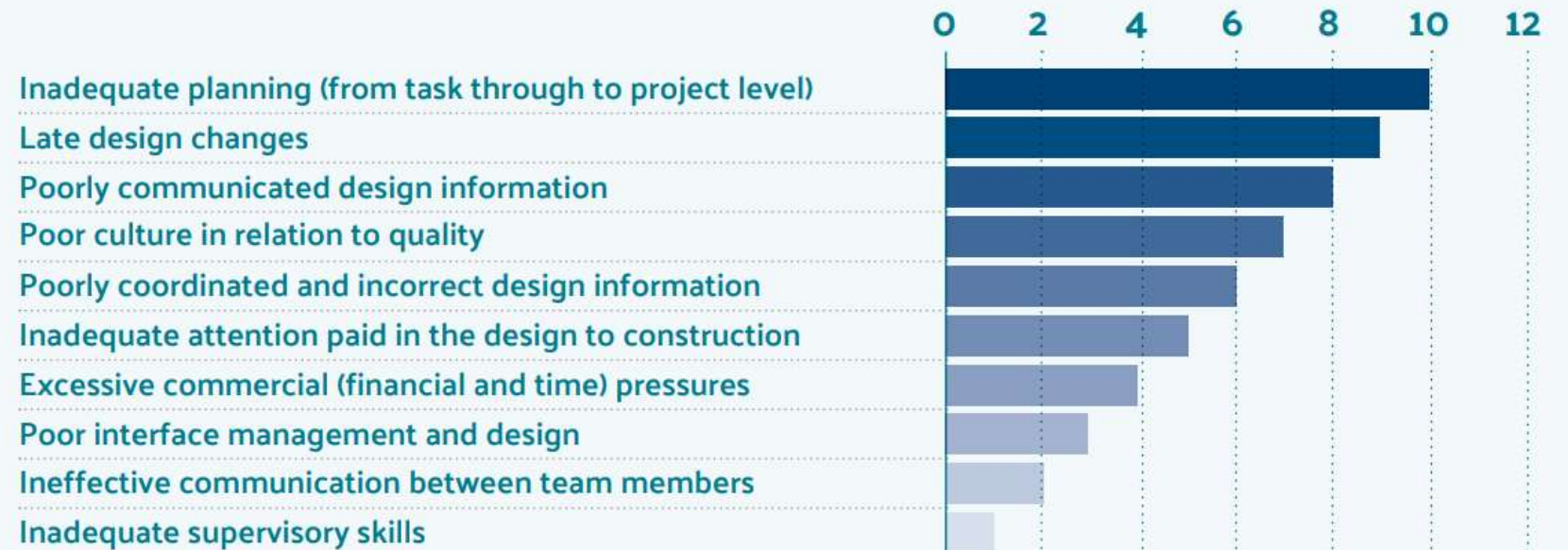


## QUALITY OBJECTIVES

 <b>Data and reporting</b>	 <b>Continual Improvement</b>	 <b>Behaviours and culture</b>	 <b>Collaboration</b>
<ul style="list-style-type: none"> <li>• What don't we know</li> </ul>	<ul style="list-style-type: none"> <li>• Back to basic principles</li> </ul>	<ul style="list-style-type: none"> <li>• Behavioural change</li> </ul>	<ul style="list-style-type: none"> <li>• Feedback mechanisms</li> </ul>
<ul style="list-style-type: none"> <li>• Discover and measure the status quo</li> <li>• Report trend analysis</li> <li>• Compare similarities and differences</li> <li>• Search strengths and weaknesses</li> </ul>	<ul style="list-style-type: none"> <li>• Calibration</li> <li>• Consistency</li> <li>• Achieve robust data</li> <li>• Create opportunities</li> <li>• Enhance knowledge and training</li> </ul>	<ul style="list-style-type: none"> <li>• Create and maintain 'safe' space</li> <li>• CPD</li> <li>• Doing the right thing</li> <li>• Shared values</li> <li>• Innovate</li> </ul>	<ul style="list-style-type: none"> <li>• Share experiences</li> <li>• Within project teams</li> <li>• Across GT</li> <li>• Across our external network</li> </ul>

# What ~~don't~~ we know?

Ranking of the root causes of error (higher values are more significant)



- Recognise that we get things wrong.
- Don't accept that there's nothing we can do.

# Back to basic principles

## Report

- Include Product Quality in Contract Reviews.
- Share lessons learned.
- Report project performance.
- Ensure we have full and compliant records at completion.

## Monitor

- Are installations compliant?
- Weekly Site meeting review.
- Field View dashboards.
- Detail compliance reporting.
- Have we got the records we need?
- Report all non-conformity, workmanship or defective materials.

## Build

- Inspect quality at the start of each site activity.
- Inspect the works progressively in line with ITP.
- Follow the agreed build sequence.
- Openly discuss quality at site inductions.
- Don't walk by. Raise quality concerns.



## Design

- Buildability and simple interfaces considered.
- Safety, health and quality by design.
- Compliance with brief and regulations.
- Engage with the right supply chain and design consultants.
- Implement learning from previous projects.
- Product details and specifications included in design.

## Plan

### Pre-start meeting actions

- Inspection and Test Plans (ITP).
- Check Sheets.
- Training and knowledge.
- Field View best practice set-up.
- Quality toolbox talks. Site mock-ups.
- TEDs and POMMs include quality requirements.

## Collaborate

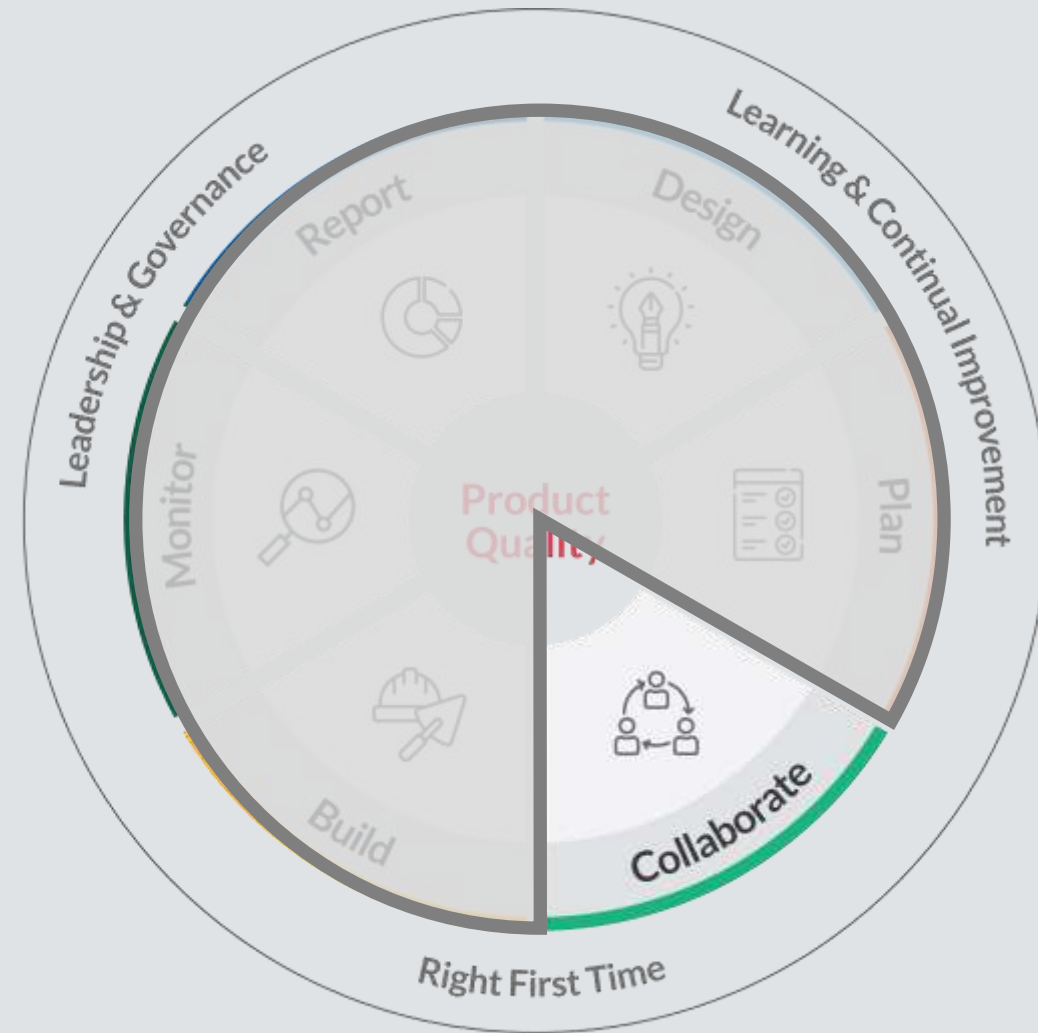
### Establish roles and responsibilities in the

- Project site team.
- Supply chain and design consultants.
- Manufacturers.
- Clients and third parties.

Our Quality wheel was created to provide an overview of our keep it simple approach to delivering a quality project.

---

# Collaborate



- Project site team
- Supply chain and design partners
- Manufacturers
- Clients and third parties



# Behavioural change

## Golden Threads of the GIRI training suite



- Project site team
- Supply chain and design consultants
- Manufacturers
- Clients and third parties

**9 events currently  
planned to end June  
2024**

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# Feedback mechanisms

*“... It allowed us to focus our minds on the problem and establish mitigation well in advance of the works being undertaken. It’s not a dramatic or ground-breaking exercise, it is the simplicity that makes it work.....”*

*Start: “why do we need to do more training?” and “this will be a load of rubbish.”*

*1<sup>st</sup> break: “this is good” and “it’s different.”*

*End: “that was really worthwhile” and “can we do more of it?”*



GallifordTry



# Emer Murnaghan

Innovation Director, Graham &  
Strategic Leadership Group, GIRI



# GIRI Error Reduction Framework

NH SSCS Webinar 26<sup>th</sup> March 2024

Emer Murnaghan – Innovation Director, GRAHAM  
& GIRI Strategic Leadership Team

Working together to eliminate error,  
by industry, for industry

# Significant cost impact of error – why we need to do something!

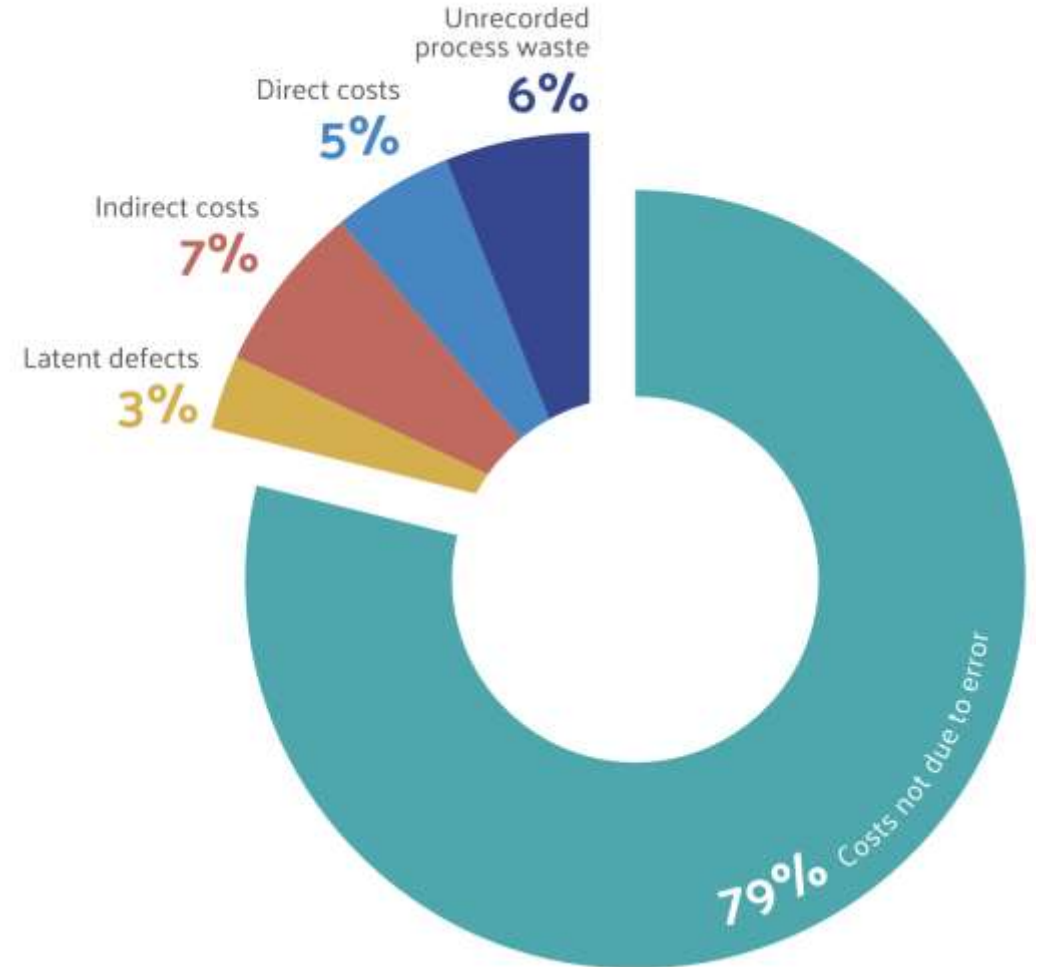
**Unrecorded process waste (6%):** occurs and is identified and corrected without being recorded

**Direct costs of error (5%):** resources used in correcting an error.

**Indirect costs of error (7%):** resources used in follow-on work and costs to other parties.

**Latent defects (3%):** remain in place after client acceptance and any 'defects liability period' has passed.

*'The annual spend due to error is estimated as **seven times** the total annual profit of the UK construction industry.'*



# The Challenge of Addressing Errors in Construction – if it was easy, we would have sorted it by now!

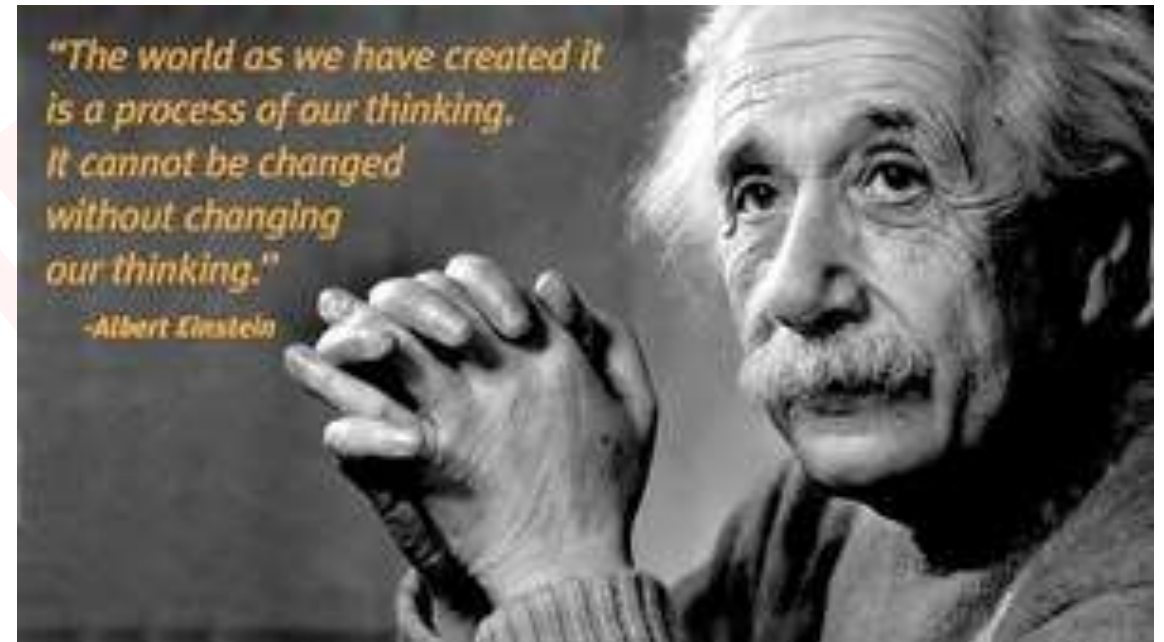
Addressing errors in the construction industry is challenging due to several key factors:

- **Complexity of Construction Projects:** The intricate nature of construction projects requires a holistic approach for error mitigation, making traditional quality improvement methods less effective.
- **Behavioural and Cultural Considerations:** Beyond technical challenges, the industry's stance on errors and the behaviours contributing to them must be addressed to foster lasting change and continuous improvement.
- **Impact of Poor Organisational Health:** Errors often stem from systemic issues within organisations, emphasising the need for maintaining organisational health to prevent error-prone environments.
- **Broader Organisational Impact:** Beyond technical challenges, the industry's stance on errors and the behaviours contributing to them must be addressed to foster lasting change and continuous improvement.



## The basis for the GIRI Error Reduction Framework

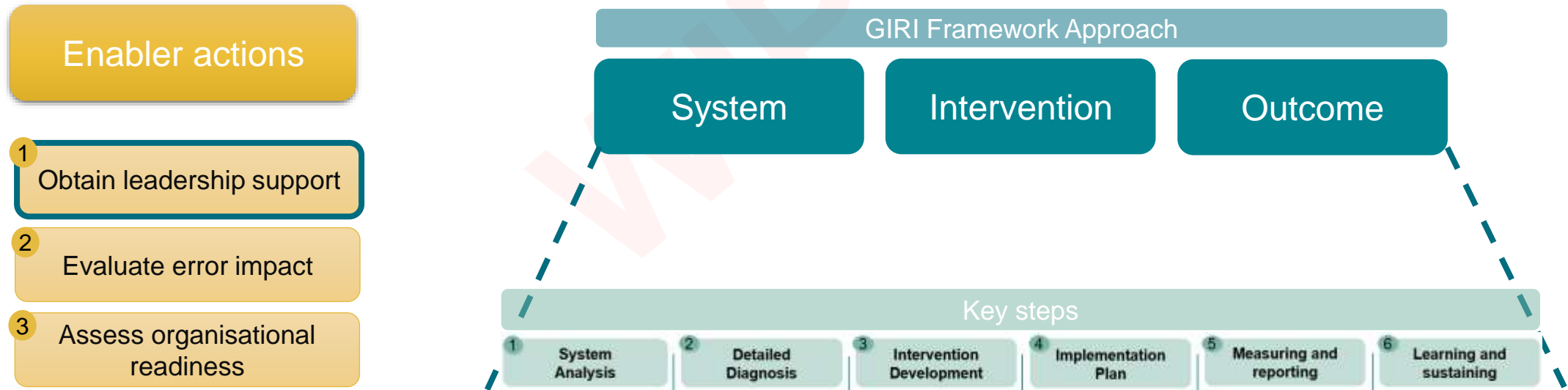
- *Error is not just a quality concern but can often be a symptom of deeper systemic issues within an organisation.*
- *To effectively address errors, it is essential to look at the underlying systemic issues.*





# GIRI Approach to Reducing Error

GIRI recommended approach to error reduction is starting with the key enabler actions and then applying the GIRI Error Reduction Framework to define effective interventions. This presentation is the first step is getting decision makers aware of this process.



# Next enabler actions

## 2 Evaluate error impact

The second recommended step involved gaining a high-level understanding of the potential errors in your organisation and impact of addressing error. GIRI recommends running the GIRI Error Impact Workshop together with the key project stakeholders to determine key potential errors that need addressing and identify high level ways to address the issues.



## 3 Assess organisational readiness

If your organisation is committed to addressing errors, the third critical step is to assess its readiness in managing errors. To assess this, GIRI recommends using the GIRI Error Reduction Matrix Tool, developed based on the COM-B model, which can be used to assess whether your organisation provides the necessary capability, opportunity and motivation to drives the right behaviour in managing error.



# GIRI Maturity Matrix

The Maturity Matrix was developed to evaluate organisational readiness to manage error. It considers whether the organisation has the appropriate factors in place to drive the right behaviours to eliminate error.

The Matrix is based on the COM-B model, a framework to understand and analyse key factors that lead to certain behaviours. The model suggests that behaviour is influenced by three key factors: motivation, capability and opportunity, each comprising a physical and a psychological part, leading to the following key sub-factors: physical capability, psychological capability, social opportunity, physical opportunity, reflective motivation and automatic motivation.

The model was adapted to error reduction needs by defining the key impact factors within each sub-factor that can impact error management in an organisation.

## When to apply this tool

The Matrix can be used to assess the maturity of the user's organization. It can also be used in workshop discussions to explore potential areas of error.

## How to use this tool

The Matrix can be used alongside the interactive GIRI Maturity Model Excel tool to input the rating and calculate a maturity chart.



Physical capability	Psychological capability	Reflective motivation	Automatic motivation	Social opportunity	Physical opportunity
Physical competence	Knowledge and understanding of tasks	Communication and shared learning	Quality management systems and processes	Cultural support for error reduction	Reward and recognition incentive systems
Competency assurance	Interdisciplinary awareness and skills	Cross-functional collaboration	Decision-making procedures	Strategies	Environmental cues
Tools and equipment	Error awareness	Contractual arrangements and procurement processes	Information access	Individual attitudes	Automated systems
Training and development programmes	Decision-making skills	Leadership support	Safe working environment	Care about reputation and success	Continuous improvement incentives
	Managing psychological factors				

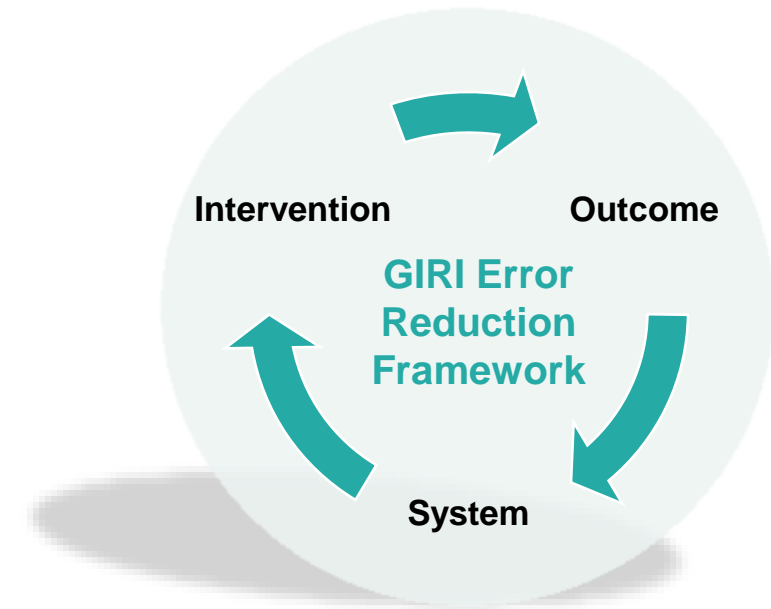
COM-B Model (top) and Error impact factors defined under each COM-B sub-category table (bottom)



# Eliminating errors with GIRI Error Reduction Framework

Once error has been determined, GIRI Error Reduction Framework can be used to develop effective change programmes.

The Framework uses a systems change approach to target systemic issues that lead to error and to achieve organisation change that supports an error-free environment. The Framework consists of a six-step methodology and step-by-step guidance explaining how to tackle each step, from identifying errors through to ways in which change can be embedded.



## Understanding the system

1 System analysis

2 Detailed diagnosis

## Develop the intervention

3 Intervention development

4 Implementation plan

## Analyse the outcome

5 Measuring and reporting

6 Learning and sustaining

# Why bother?.....Benefits of addressing error in your organisation

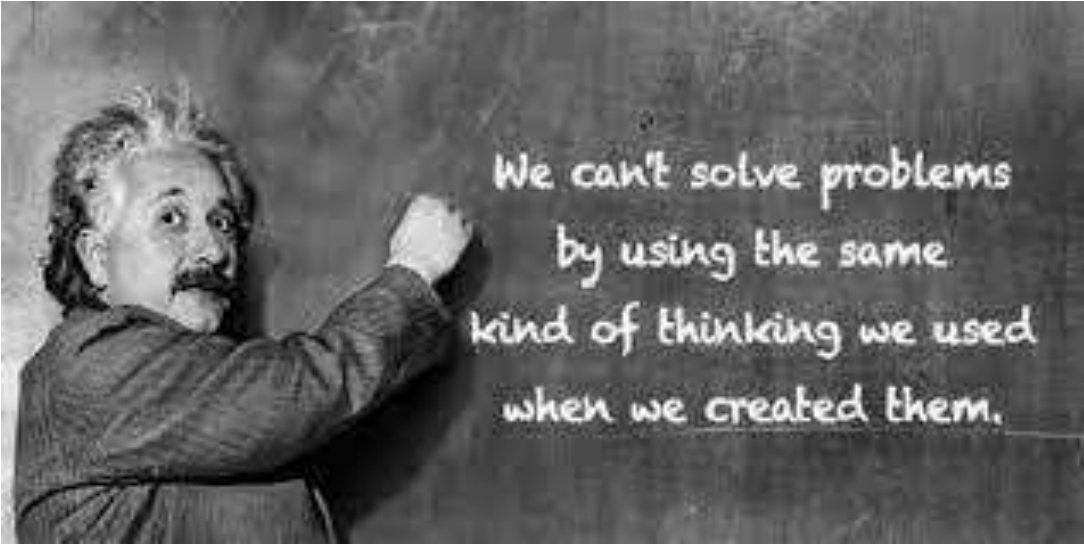
Improve	Improve	Improve	Provide
Improve organisational health	Significantly improve productivity, quality, reputation and social impact	Significantly improve cost margins	Provide a guiding compass for continuous improvement

# What next?.....do something!

[Home](#) | [Get It Right Initiative](#)



Find out	Consider	Invest in	Implement
Find out the impact of error in your business.	Consider the role that GIRI can play in reducing error within your organisation.	Invest in the GIRI Error Reduction Framework	Implement change, reduce error, and benefit.



# Keep in touch!

Click here to sign up to the GIRI newsletter.



If you are interested in getting involved with or knowing more about the Get It Right Initiative, please get in touch:  
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# GIRI

Get It Right Initiative

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