



AND

**Locate25** | **G**  
THE NATIONAL GEOSPATIAL CONFERENCE



**Geospatial**  
Council of Australia

Collaboration, Innovation and Resilience: Championing a Digital Generation

Brisbane, Australia 6–10 April



Alison Watson MBE  
President

“Make Space for Education”



ORGANISED BY



**Geospatial**  
Council of Australia

PLATINUM SPONSORS



CHCN**AV**





AND

**Locate25** | **G**  
THE NATIONAL GEOSPATIAL CONFERENCE



**G** **Geospatial**  
Council of Australia

Collaboration, Innovation and Resilience: Championing a Digital Generation

Brisbane, Australia 6–10 April



**Alison Watson MBE**  
**President**

**“Make Space for Education”**



PLATINUM SPONSORS





AND **Locate25** |   
THE NATIONAL GEOSPATIAL CONFERENCE



Collaboration, Innovation and Resilience: Championing a Digital Generation

Brisbane, Australia 6–10 April



# Sustainability and the Civil Engineering Surveyor



**Dr Michele Victoria** PhD BSc(Hons)QS FHEA MCIQB APGBCSL  
Lecturer and Course Leader  
Quantity Surveying and Commercial Management  
Robert Gordon University  
Aberdeen, Scotland



PLATINUM SPONSORS





Collaboration, Innovation and Resilience: Championing a Digital Generation

Brisbane, Australia 6–10 April

## Sustainability and the Civil Engineering Surveyor

Core CICES Sustainability White Paper contributors:

Dr Michele Victoria, Robert Gordon University (Chair)

Dave Bennett, Topcon Positioning Systems

Andy Evans, Topcon Positioning Systems

Matt Haigh, Chartered Institution of Civil Engineering Surveyors



PLATINUM SPONSORS



## Introduction

‘Development that meets the needs of the present without compromising the ability of future generations to meet their own needs’ (Brundtland and Khalid 1987).



How can this be interpreted in different contexts?



## Theory – The Gap

- Despite studies addressing one or more dimensions of the triple bottom line, how Civil Engineering Surveyors, both commercial and geospatial, can practice sustainability in their current roles is not well established.
- Furthermore, the latest global survey on sustainability by Royal Institution of Chartered Surveyors highlighted that there is **less progress** across the construction industry particularly **in measuring carbon emissions and assessing the impact of projects on biodiversity** which are two key areas directly influenced by the Civil Engineering Surveyor (Zehra, 2024).
- This calls for research addressing this gap in the context of the Civil Engineering Surveyor.



## Research Questions

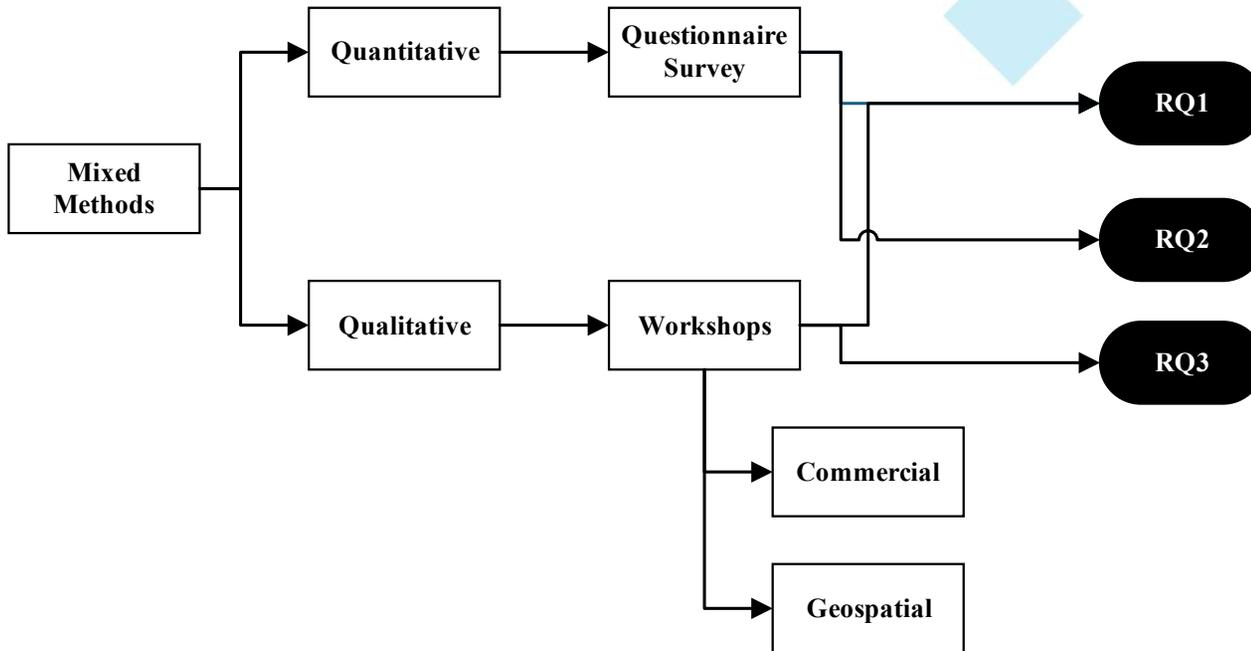
RQ1: What does sustainability mean in the context of the Civil Engineering Surveyor ?

RQ2: What does the sustainability maturity look like at the organisational level?

RQ3: How can the Civil Engineering Surveyor practice sustainability in their job role?



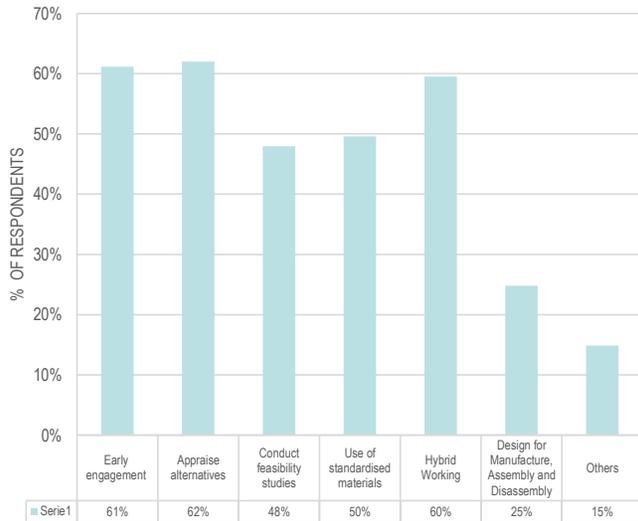
## Method



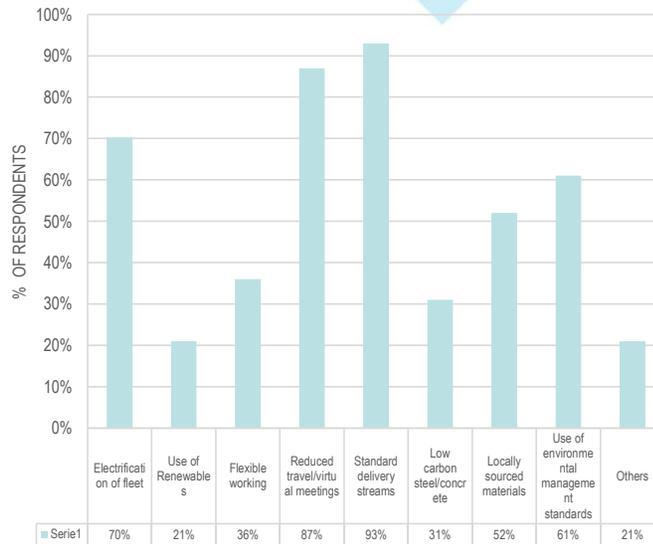


# Results – Sustainability Maturity

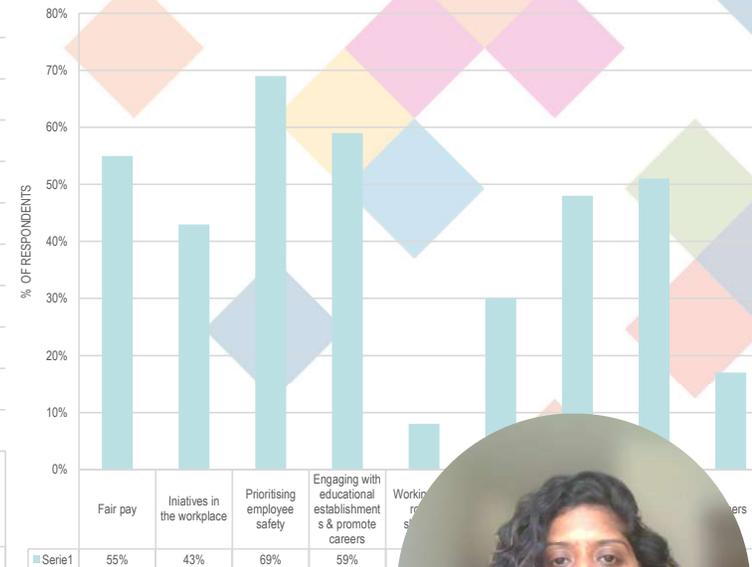
## Economic



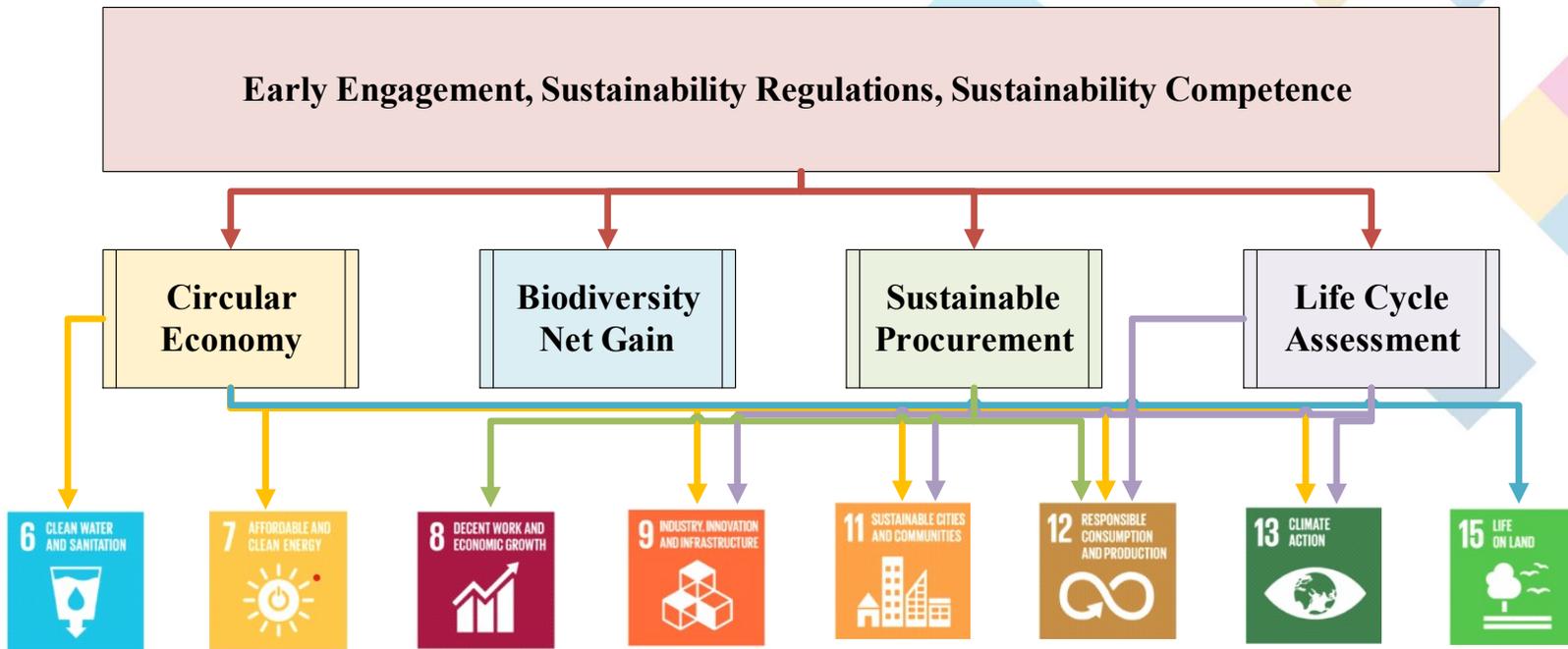
## Environment



## Social



## Results – Workshop Themes



## Key Take Aways

- Early engagement of the Civil Engineering Surveyor is crucial
- The knowledge of sustainability regulations and standards is important
- Civil Engineering Surveyors should keep up to date with ever-evolving sustainability topics
- Mandatory government regulations to drive sustainability





AND

**Locate25** | **G**  
THE NATIONAL GEOSPATIAL CONFERENCE

Collaboration, Innovation and Resilience:  
Championing a Digital Generation



Brisbane, Australia 6–10 April

**THANK YOU!**

**Get in touch with Michele:  
[m.victoria@rgu.ac.uk](mailto:m.victoria@rgu.ac.uk)**

Download the CICES  
Sustainability White Paper  
here:



PLATINUM SPONSORS

