

Gathering21

Construction Innovations
for Future Generations

CITA

INNOVATION AND TRANSFORMATION OF MULTI-PROJECT MANAGEMENT PRACTICES IN THE AEC SECTOR IN IRELAND

By

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Day One

Tuesday 21st September 2021



Presentation Overview

- Background to the Research
- Literature Review
- Research Methodology
- Key Findings
- Conclusion & Recommendations



*Innovation &
transformation to
digital information*

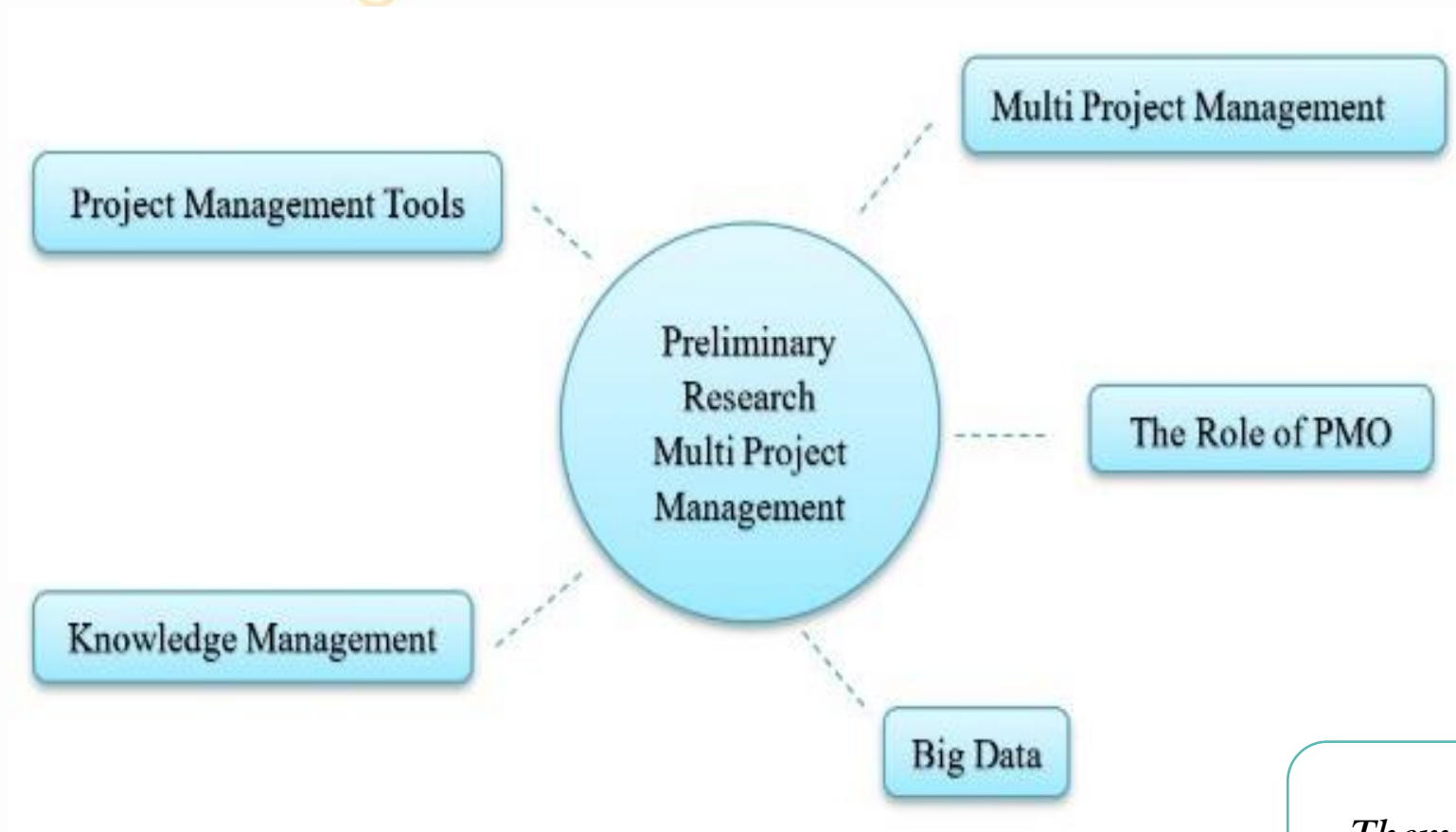


Background

- AEC sector (2018) –
 - Micro enterprises account for 91.9% in Ireland (CSO)
 - SME's (92.7%) engaged in Construction
- Projects –
 - Fragmented structures
 - Complexities
 - Project driven nature
 - Data heavy
- Digitalisation Trends –
 - Automation
 - IoT – Internet of Things
 - Big Data
 - Information sharing



INTRODUCTION



Thematic Literature Review

LITERATURE REVIEW

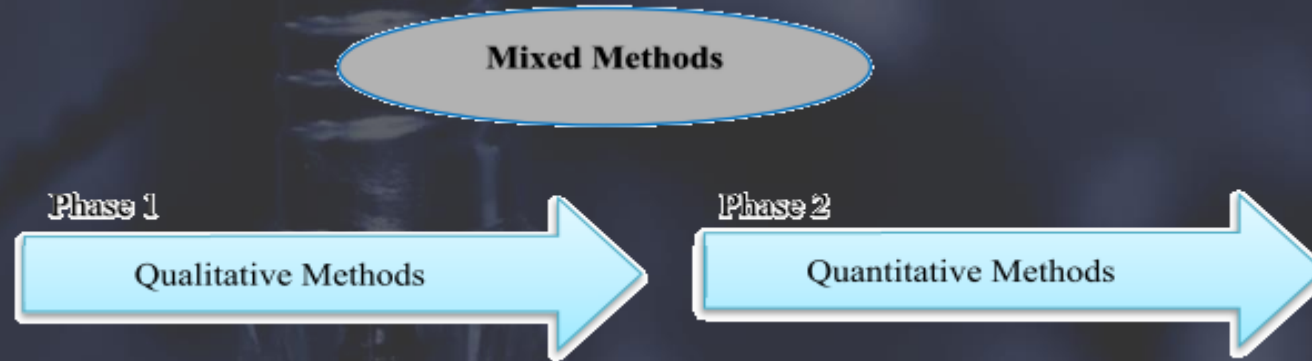


Methods to the Madness

Mixed method

Qualitative

Quantitative



Data Collection Method

Interviews (Qualitative)

Questionnaire (Quantitative)



METHODOLOGY

Key Findings

➤ Three segments [H.G

Gemunden et al, (2018)]

➤ Structures

➤ People

➤ Value

➤ PMO (large organisation)

➤ Digitalisation maturity

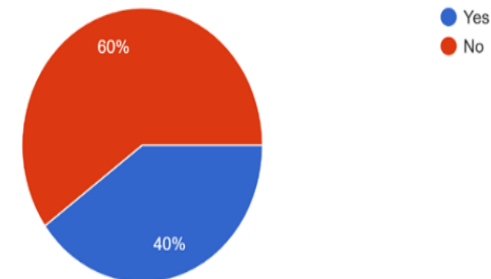
➤ Value of Data

Participant 4 (P4) -

“We've put good effort into capturing data and until we actually brought in professionals in big data we got nowhere, because we didn't know how to cleanse it properly. We didn't know how to bring it back to first principles, garbage in garbage out, and trying to understand what we wanted as our end game and work our way back to how we got that and not look for every bit of data and just get the real important items and be able to utilise that to make informed decision making. In our organisation it's vital because data drives everything we do, data drives productivity, data drives how we price jobs, how we can capacity plan.”

Have you heard the term "Big Data" in your organisation?

55 responses



FINDINGS

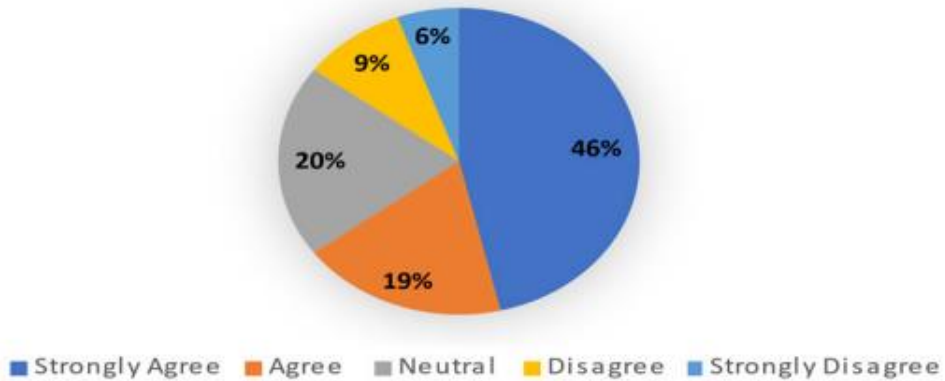
Key Findings

➤ Organisational Culture

Efficiency of organistaion at collecting existing project data



Culture within organisation can be one of the contributing factors to the adoption of digital tools for collecting and analysing data



FINDINGS

Conclusion

- *Digitalisation will drive innovation and transformation*
- *Value of data*
- *Strong Leadership*
- *Key drivers People & Process*

Recommendations

- *Strategy & Leadership*
- *Further investigation is required to explore digital technologies*

CONCLUSION



THANK YOU

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