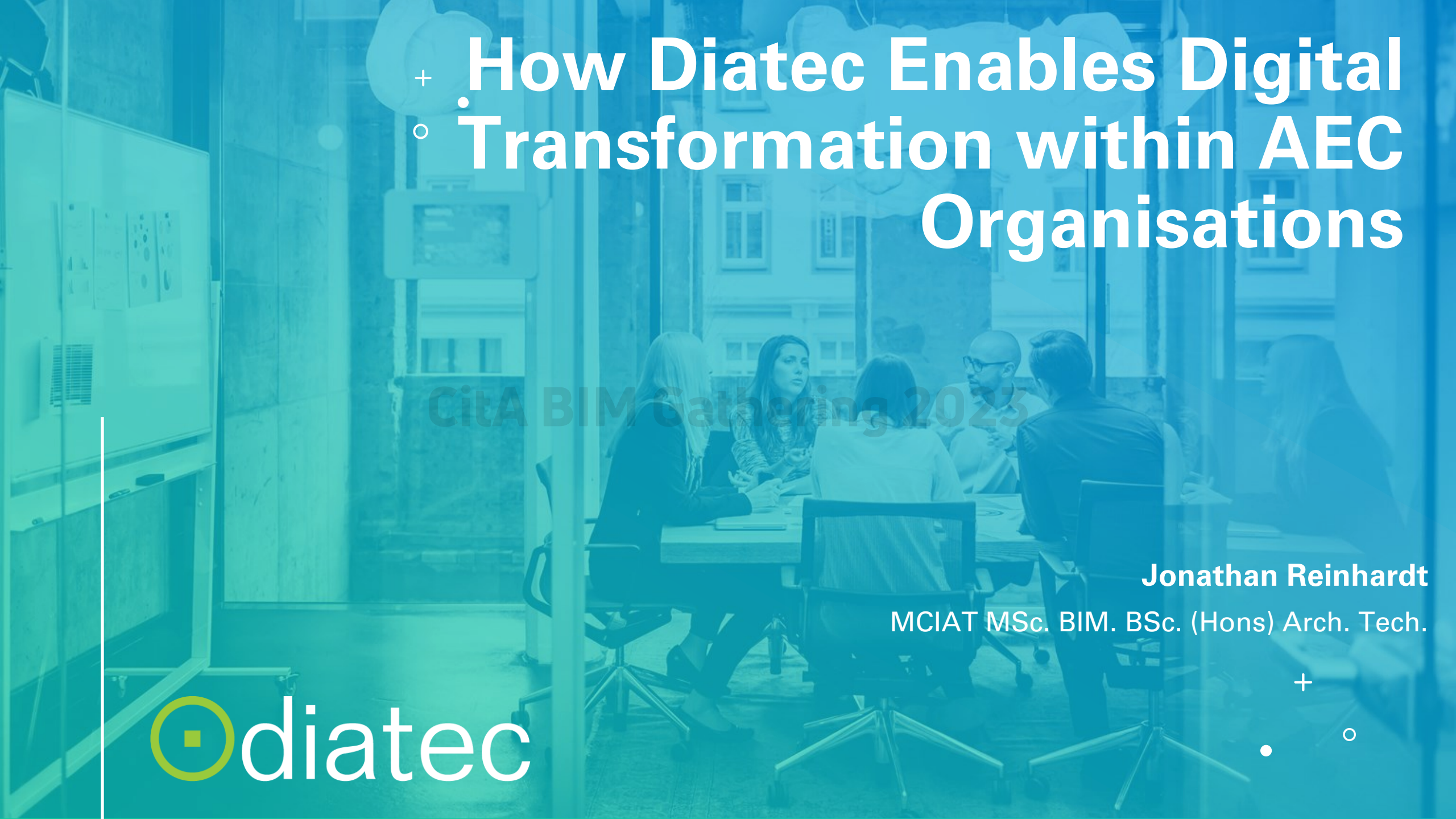

# How Diatec Enables Digital Transformation within AEC Organisations

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**Jonathan Reinhardt**

MCIAT MSc. BIM. BSc. (Hons) Arch. Tech.

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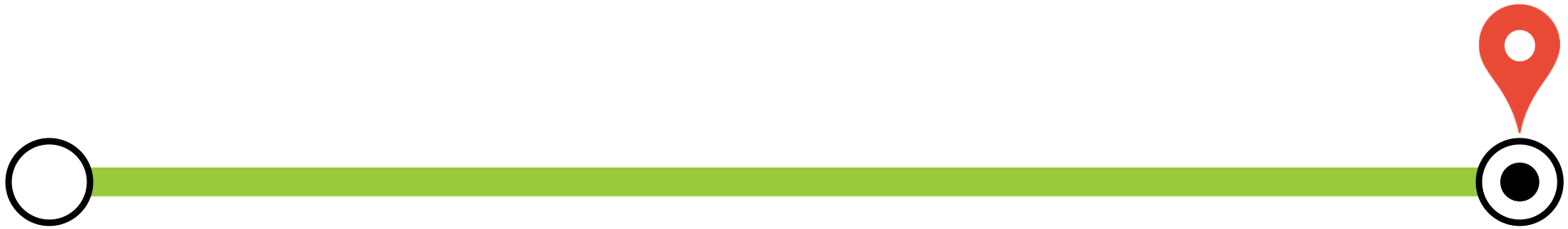

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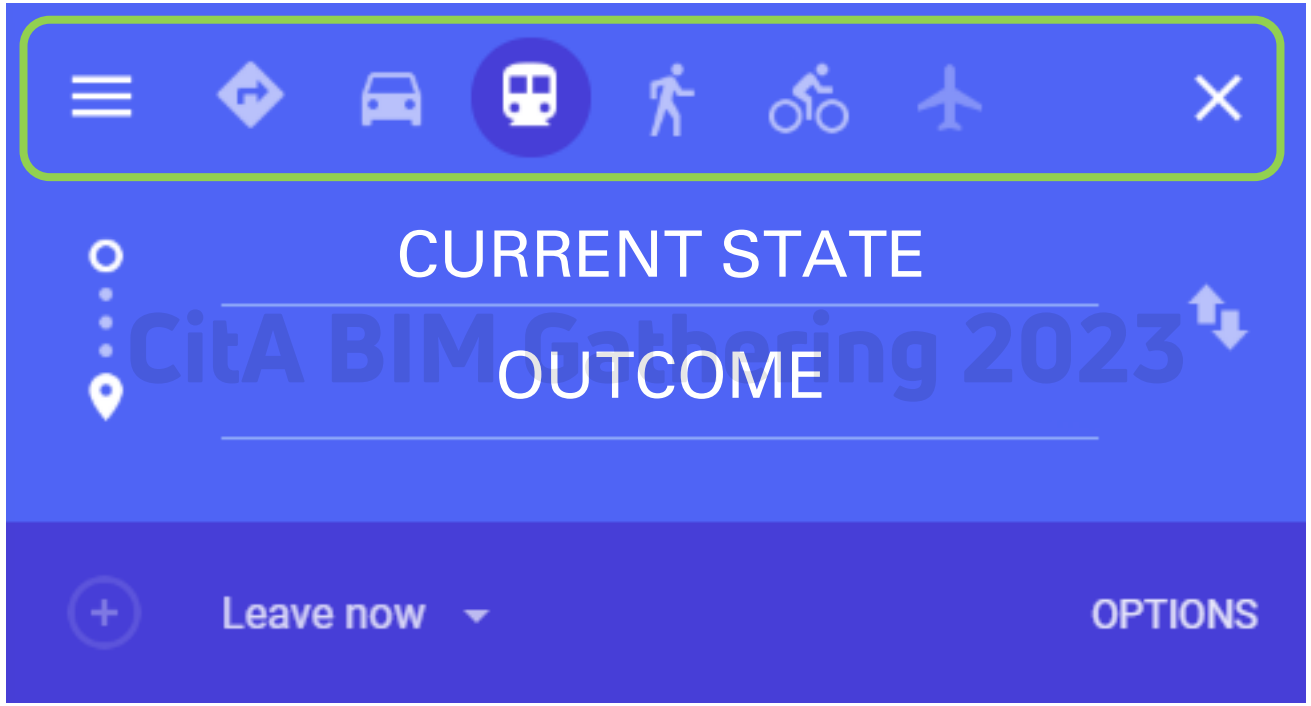
# Capabilities

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## Desired Outcome

- Step 5
- Step 4
- Step 3
- Step 2
- Step 1

## Organisational Capability

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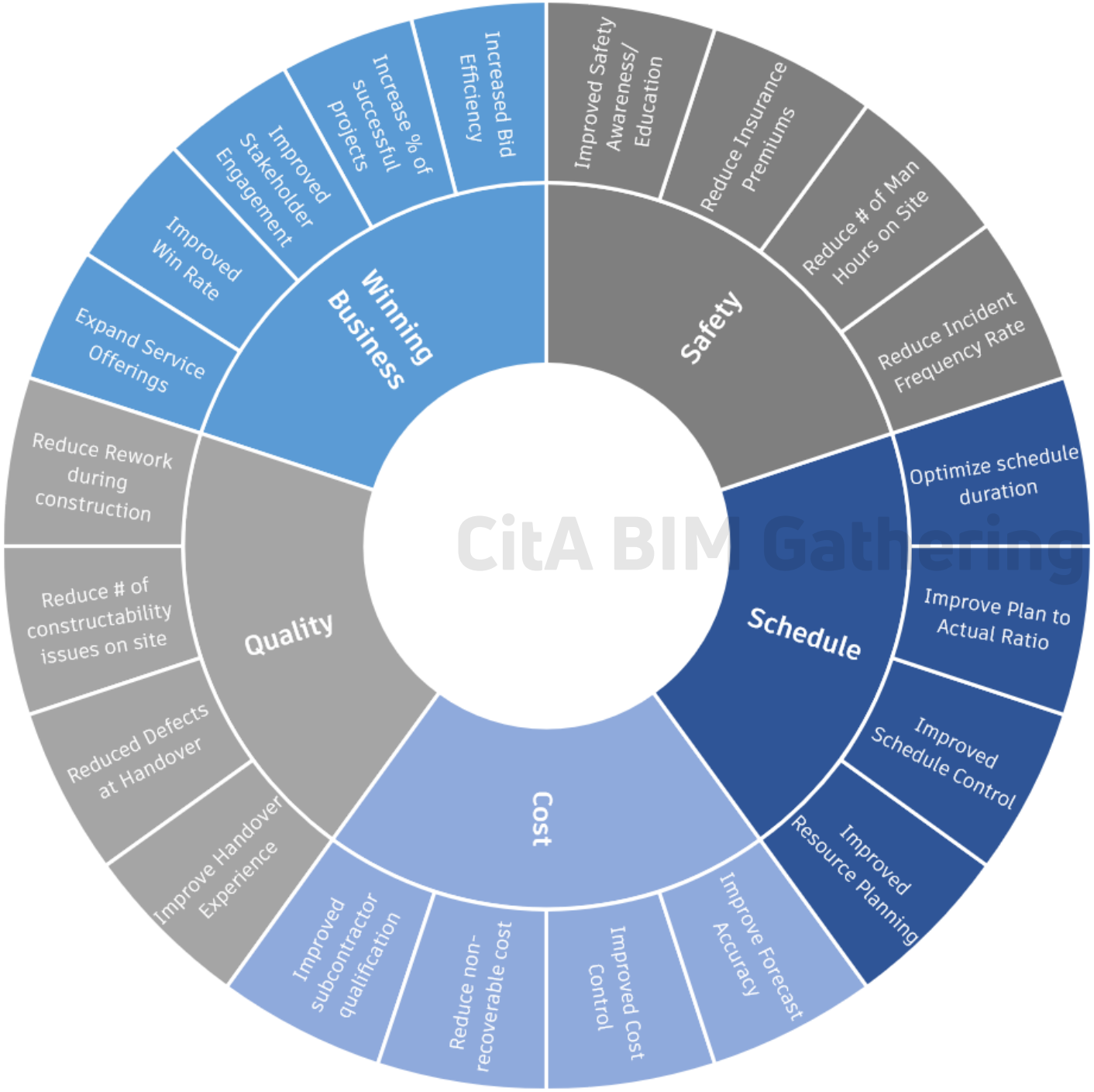


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# Outcomes aligned to Value Drivers

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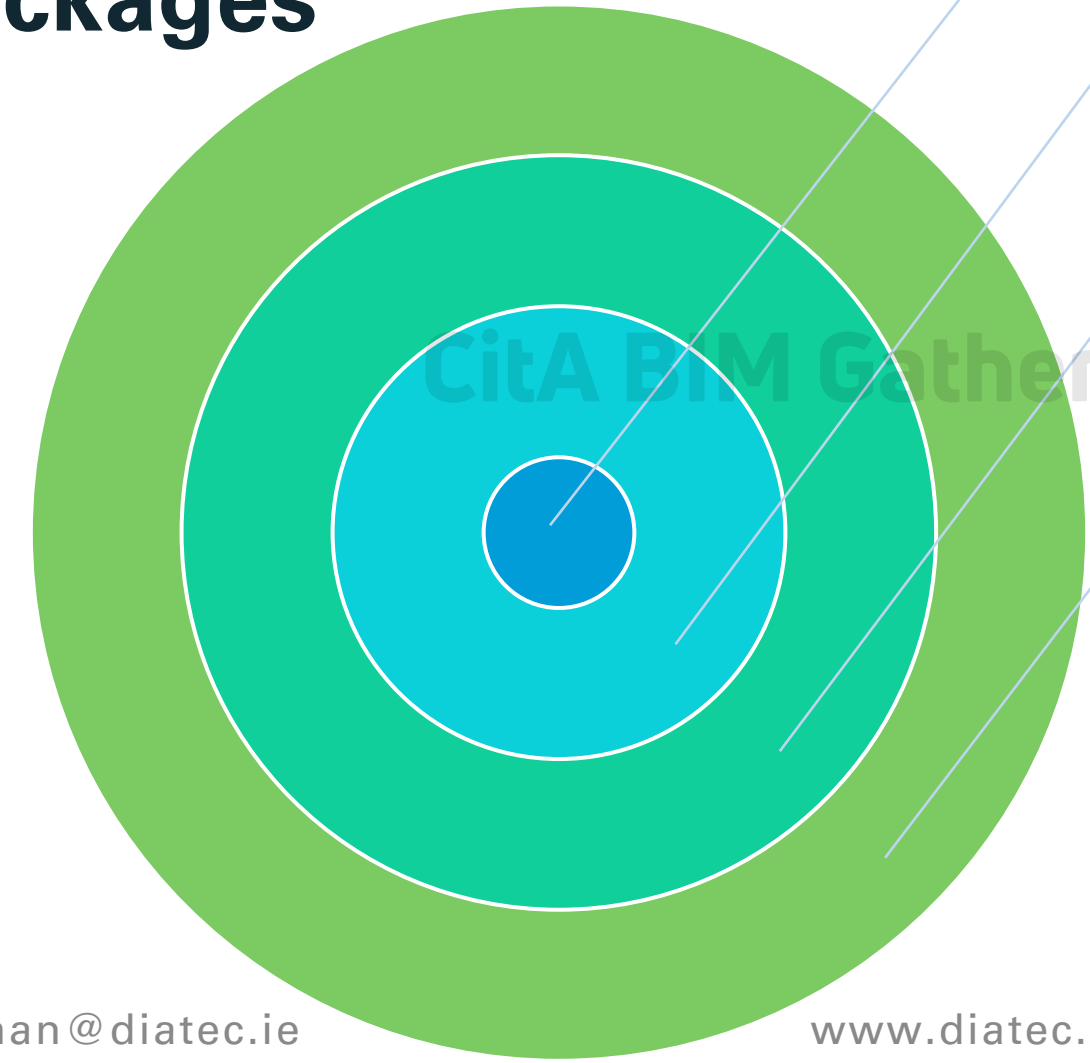
# Our Digital Transformation Packages



1. Discovery
2. Strategy
3. Implement
4. Optimise

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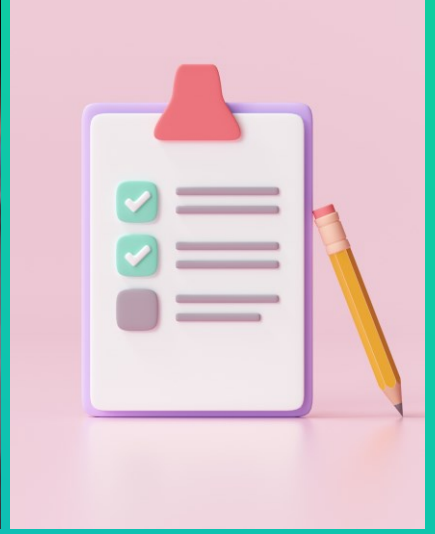

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# DISCOVERY

# Assessing Current Capability

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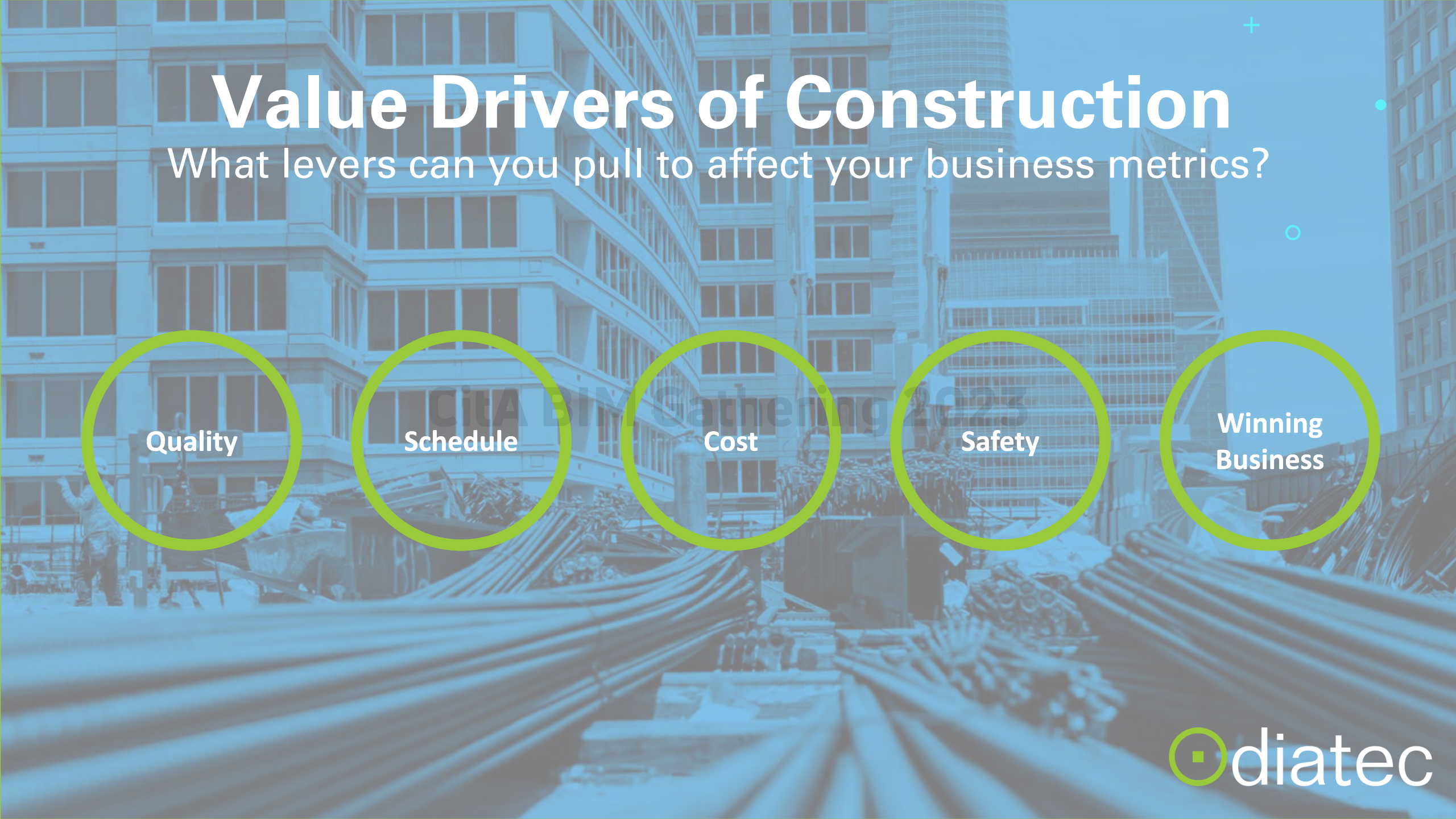
Increase Revenue
Reduce Cost
Minimise Risk / Compliance

# Value Drivers of Construction

What levers can you pull to affect your business metrics?

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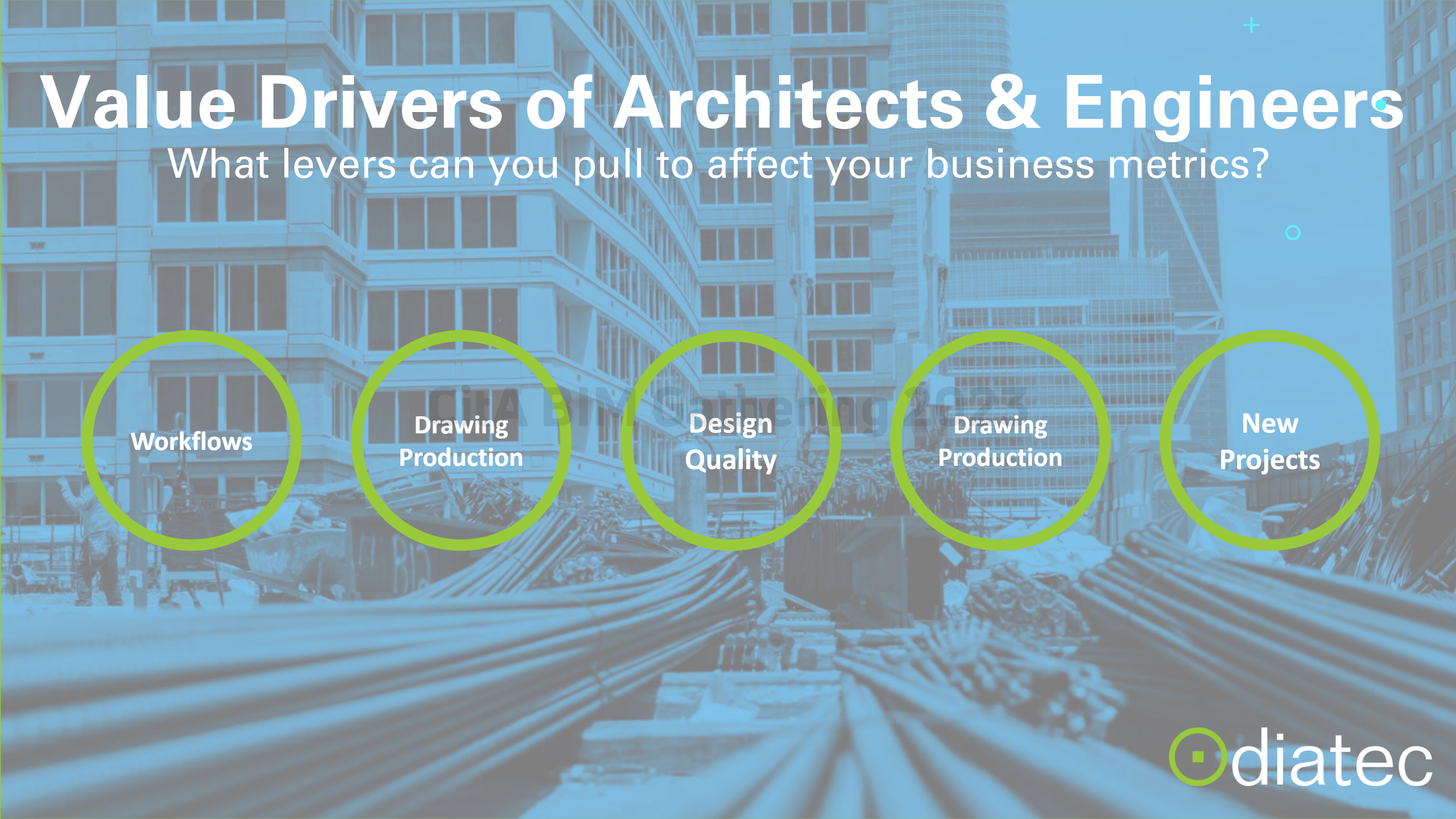
Reduce rework during construction
Reduce defects at handover
Quality
Reduce # of constructability issues reaching site
Improve the Handover Experience

# Value Drivers of Architects & Engineers

What levers can you pull to affect your business metrics?

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***Outcome: Reduce Defects at Handover***

Industry Leading

Move to Digital

| | | |
|---|---|---|
| 5 | **Predict** | Are you leveraging automation to predict quality problems on site? |
| 4 | **Integrate** | Are you using other data sources to further improve quality? |
| 3 | **Analyse** | Are you benchmarking digital quality on projects? |
| 2 | **Standardise** | Are you implementing digital quality across all projects? |
| 1 | **Digitise** | Are you implementing digital quality on your project? |

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***Capability: Quality Management***

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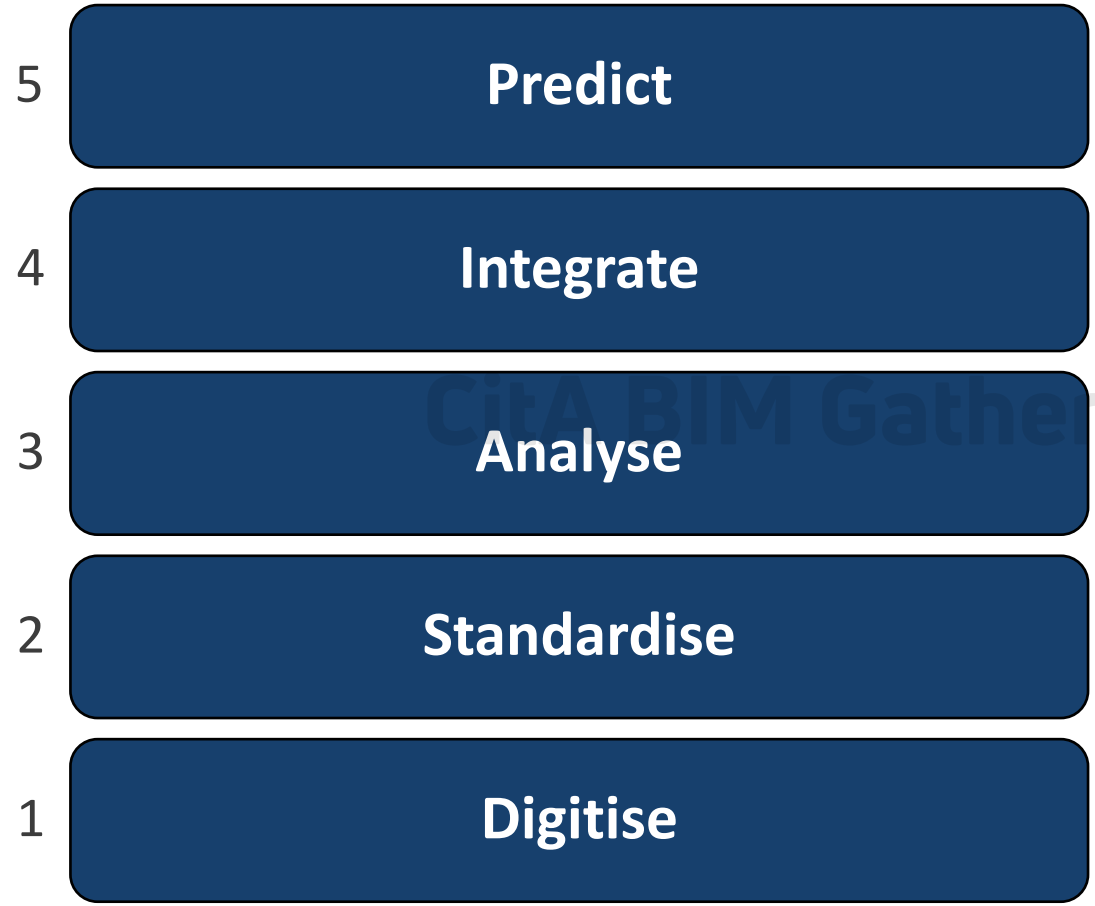
***Outcome: Reduce Defects at Handover***




Subcontractor Avg. Close Out Period = 5.5 days (MEDIUM RISK)

Plan vs. actual work package completion date vs. Time to close out Issues

Target Time to close out Issues = 3 days

Time to close out Issues (Cross-project)

Time to close out Issues (Single Project)

***Capability: Quality Management***

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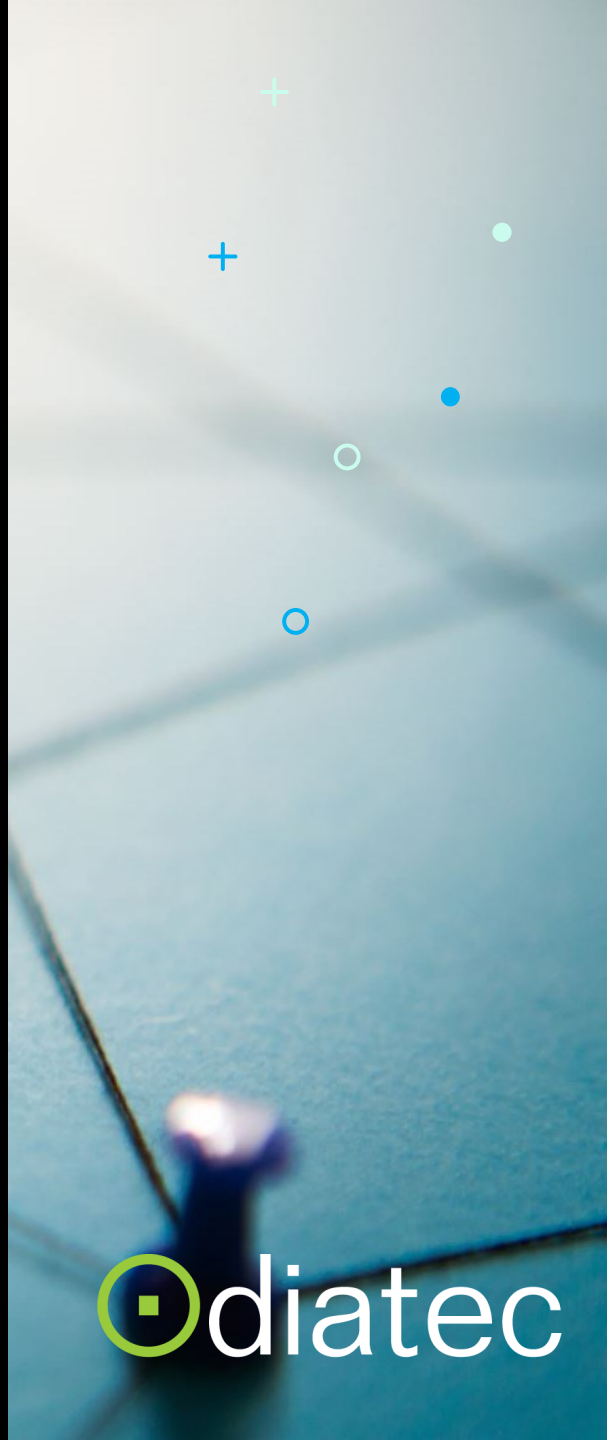
Proposed Plan

KPI’s

Timeline

# STRATEGY



# Measure what matters

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*I believe our initiative helps my business but I don't know how and I can't prove it*

*I can see instances in which this initiative has improved my business, but I can't measure it consistently*

*Based upon trustworthy data, I know that this initiative brings results upon and drives specific business outcomes*

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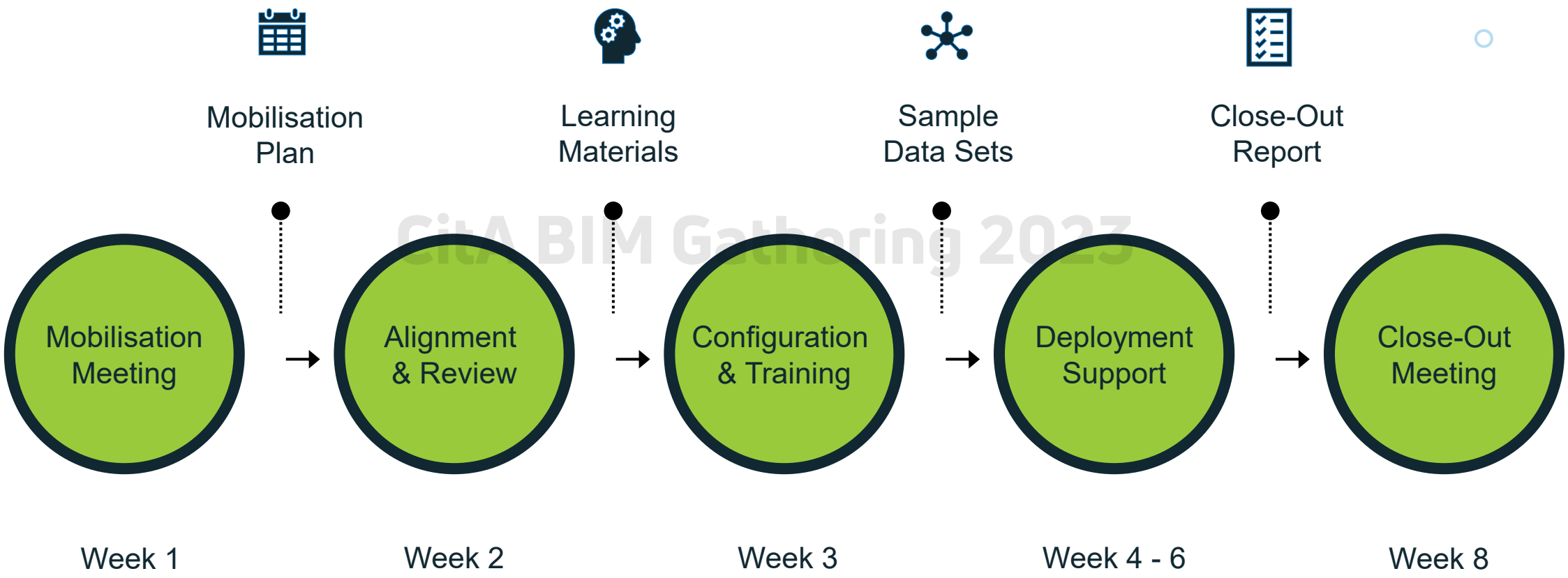
# IMPLEMENT

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# IMPLEMENT

- Training Schedule
- Aligned to Strategy & KPI's

- Live &/or Pre-made Videos
- Quality Team Process Training – 2hrs
- Safety Team Checklist Creation – 2hrs
- Raising RFI's – 45mins
- Responding to RFI's – 30mins

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# OPTIMISE

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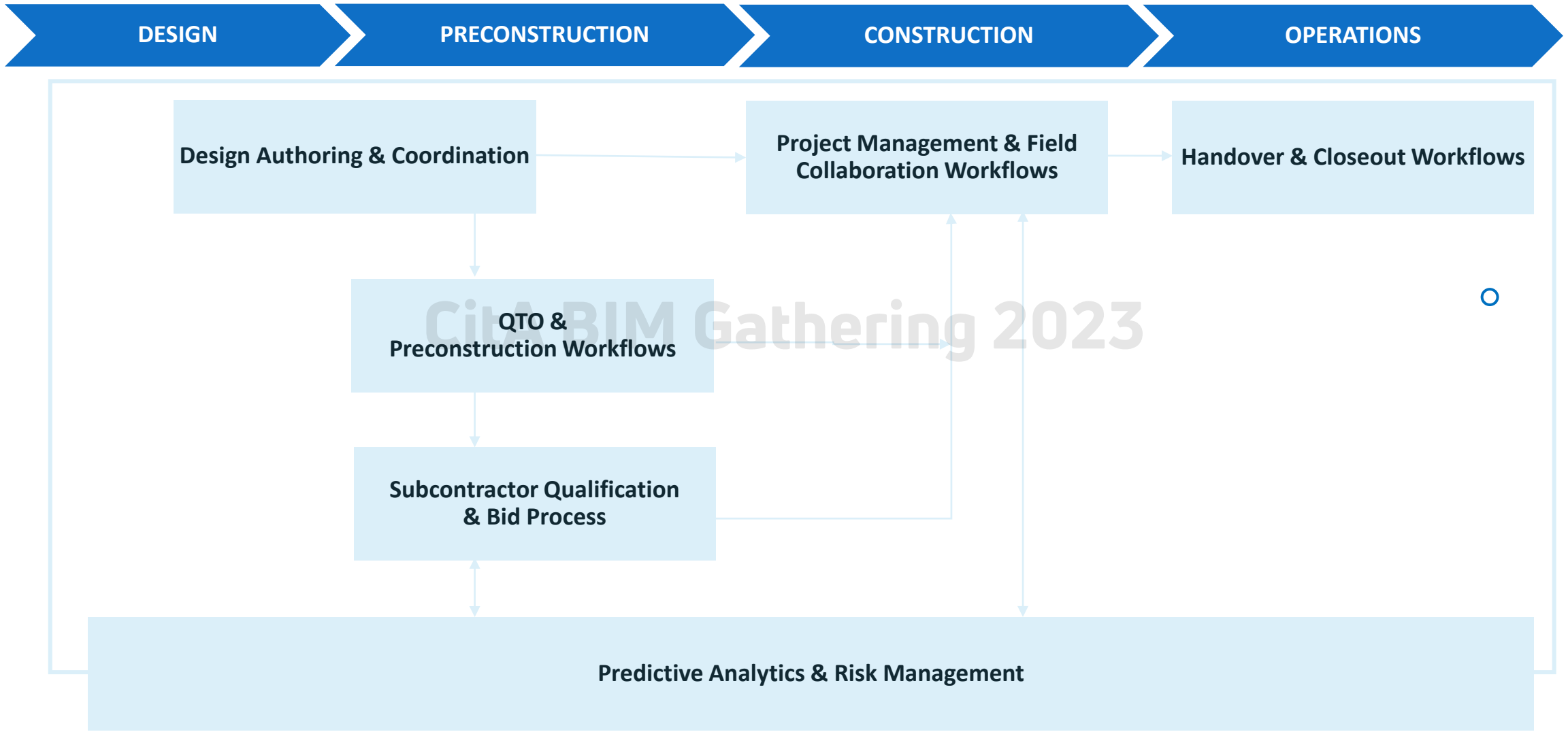
# Connected Organisational Processes

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# Architects / Designers / Engineers

Digital Discovery, Strategy & BIM Implementation

Common Data Environment Implementation

Collaboration Process Optimisation

Design Documentation Enhancement

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# Customer – Lead Contractor

Engaged to Discover, Implement & Optimise a Project Delivery Platform for multi-European technology complex projects

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- Document Controller Training to admin PDP
- Quality Team Training to report & track quality issues
- Site worker safety observation training

# Customer – Engineering Consultancy

Engaged to optimise bottlenecks for an SME's current BIM Design Workflows

Delivered Focused Workflow training targeted at each BIM user type

Increased workflow efficiency across all projects.

Designer – Feedback Loops

Engineer – Feedback Loops

Modeller – Feedback Edits to Model

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# THANK YOU..

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