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Unleashing the Power of Real-Time Data for Improved Project Performance

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20th September 2023

Setting the Scene

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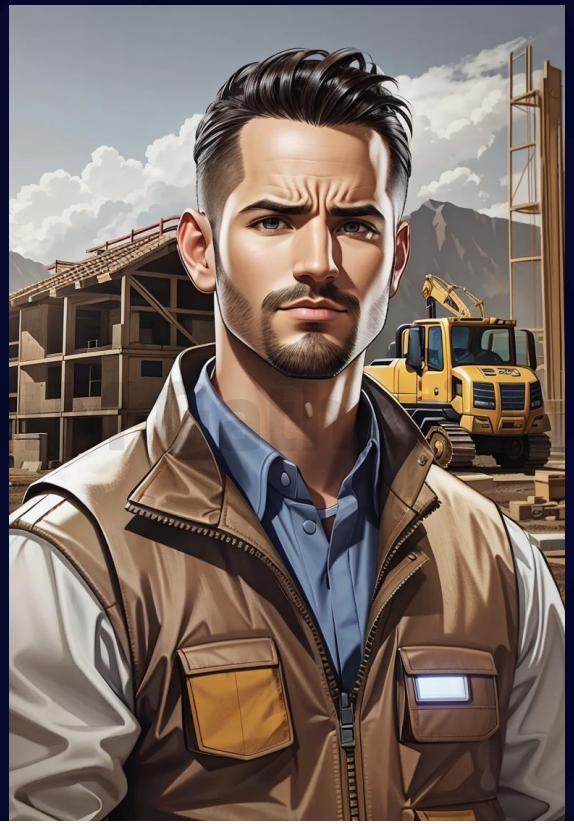
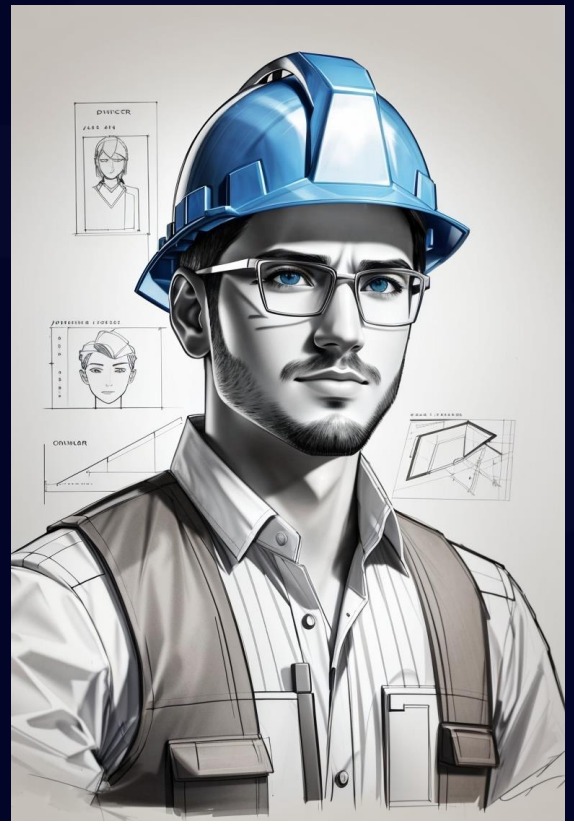
Paddy
Project Manager



Tom
Site Foreman



Jason
Engineer

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Objective:

To get from Dublin to Athlone for the BIM Gathering

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Change in Circumstances:

Major incident on M4 motorway on morning of the event

Setting the Scene

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- The right data delivered at the right time can dramatically alter the impact of a decision or course of action
- This could mean the difference between project success or failure

Introduction

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Jason Rymer

Data Engineering and Platforms Division Lead

GagaMuller Group

- Digital strategy and data specialist
- Bachelor of Engineering (Civil / Environmental), University of Technology,
- Over 20 Years experience in the Construction Industry
- 8 years in information systems and data analytics
- Specialist in digital integration and transformation

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Project management and technology consultancy to the construction industry

- **Dublin** and **London**
- 5 Years
- **90+** Staff Members
- **14** Countries
- **56** Clients
- **157** Projects

Sectors We Operate In

- **Residential**
- **Commercial**
- **Pharmaceutical**
- **Data Centres**
- **Housing**

Breaking from the status quo

People are so focused on doing the work…

They don’t make time for process improvements

Challenges

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Data Capture

- Lack of digital processes to capture data at source
- Data Lag
- Data Quality
- Lack of standardised data
- Data silos

Skills and Processes

- Technology skill shortage
- Inefficient work processes
- Scalability
- Complex workflows

Technology Integrations

- Software interoperability
- Poor information management
- Security and privacy concerns
- Legacy systems

Data Interpretation

- Domain knowledge
- Data complexity
- Right data at the right time to right people

Key to Success

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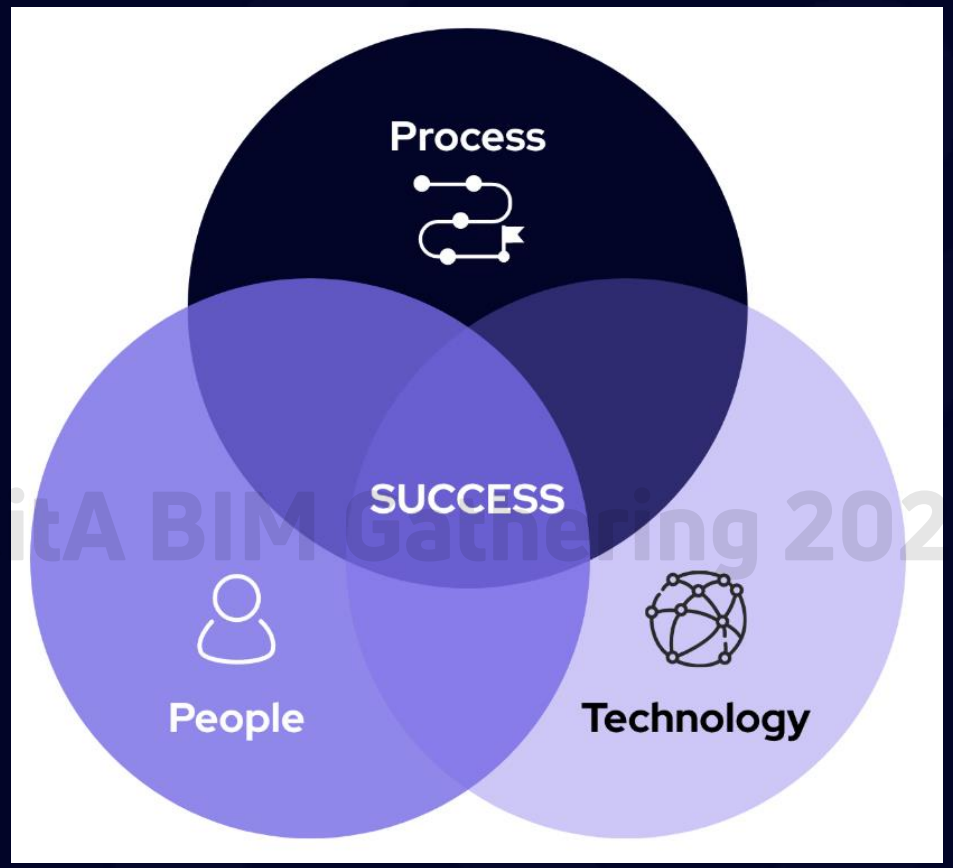

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People: Understand the people that are involved and their needs

Process: Develop a process that is structured, collaborative and repeatable

Technology: Use technology to enhance the process, improve data capture and scale

Project Reporting Cycle

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Enterprise Reporting Process

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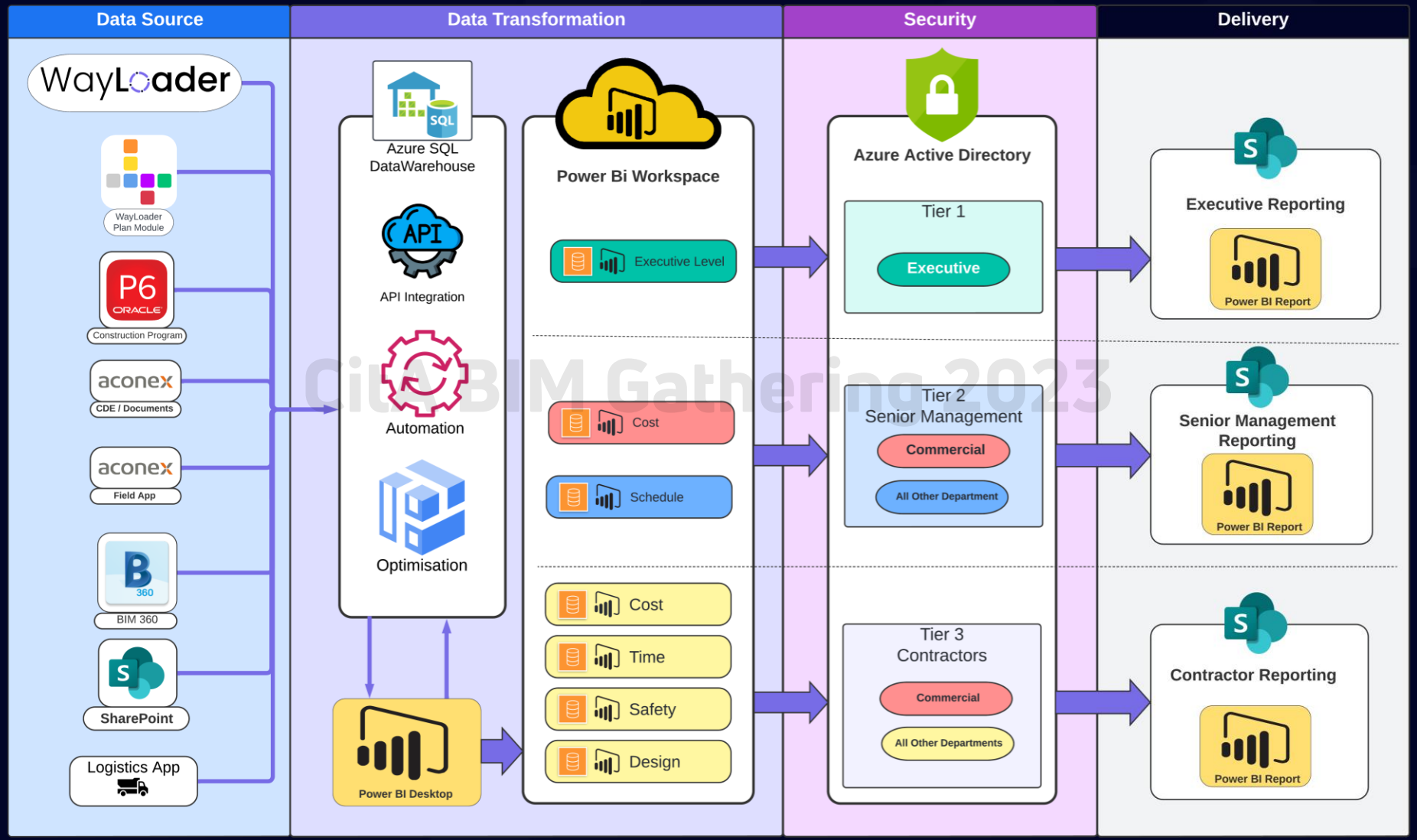

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The Big Challenge

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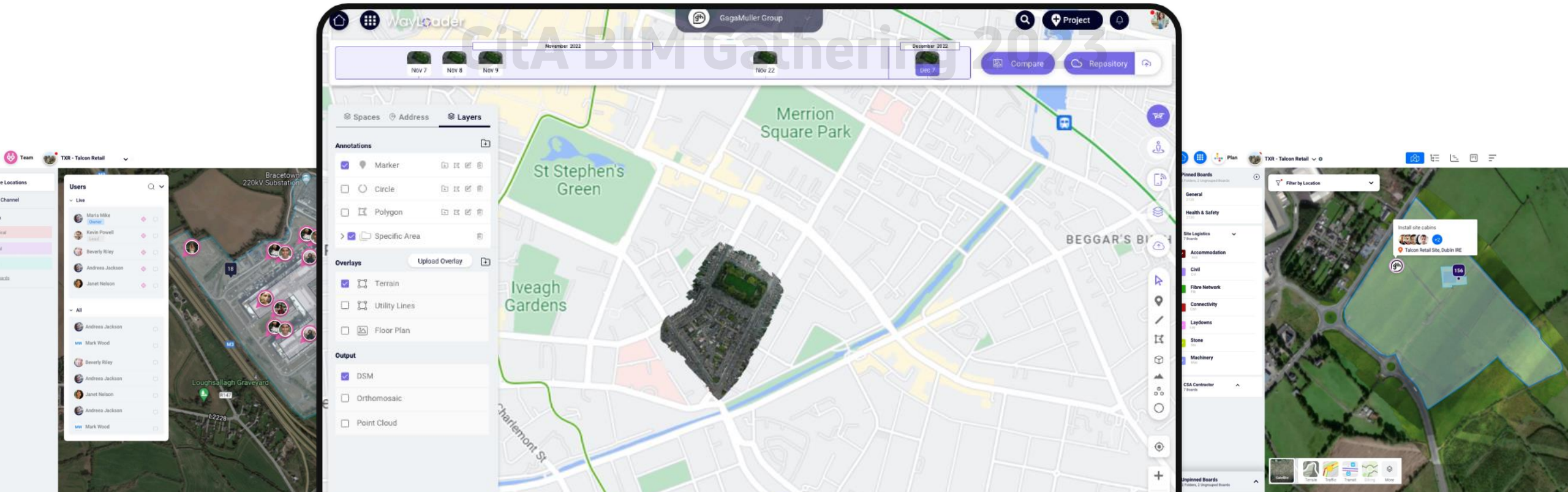
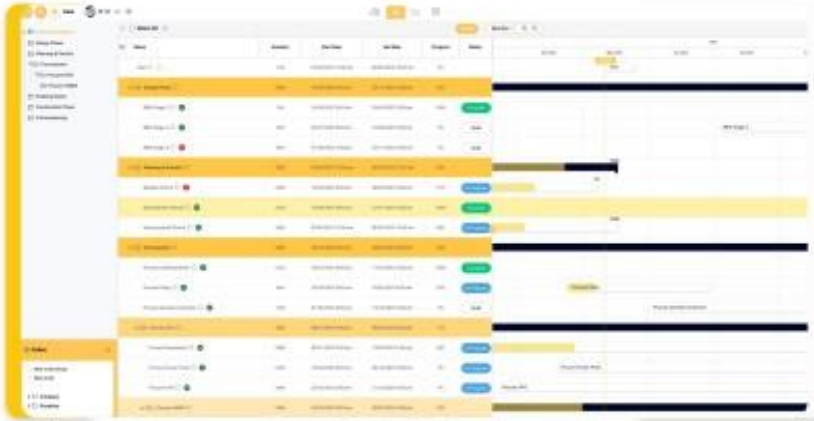
- Bridging the Communication Gap
- Improve Data Lag towards Real-Time Data

Introducing WayLoader

A location-based project management application developed to enable real-time visual dashboards for controlling work, enable collaborative communication between teams and empower decision makers to mitigate risks in a timely fashion.



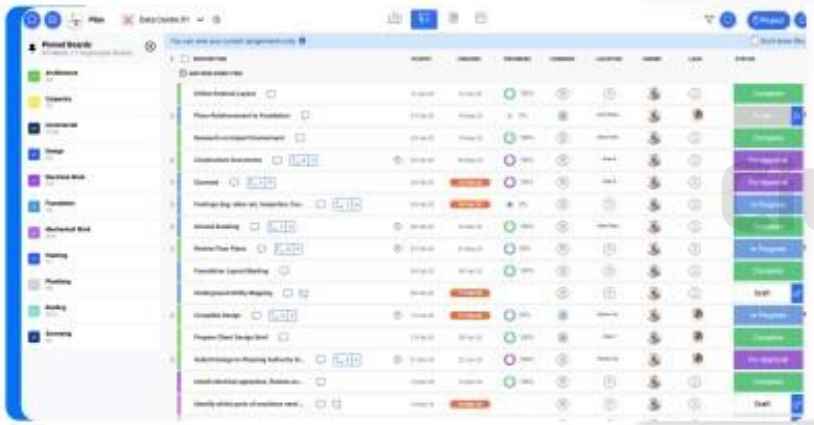
WayLoader



PLANNING

WayLoader Goal

- Macro level road map and scheduling
- Manage high level work breakdown
- Mitigate risks and minimise interruptions
- All while linking Goal's Gantt chart with Plan



MANAGING TASKS

WayLoader Plan

- Geospatial focused task management
- Lean Last Planner and constraint logs
- Real-time progress tracking
- Built in task approval process

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FOR MESSAGING

WayLoader People

- Instant chat across your organisation
- Project focused channels and group chats
- Sharing of live onsite locations
- Reducing build up of email threads

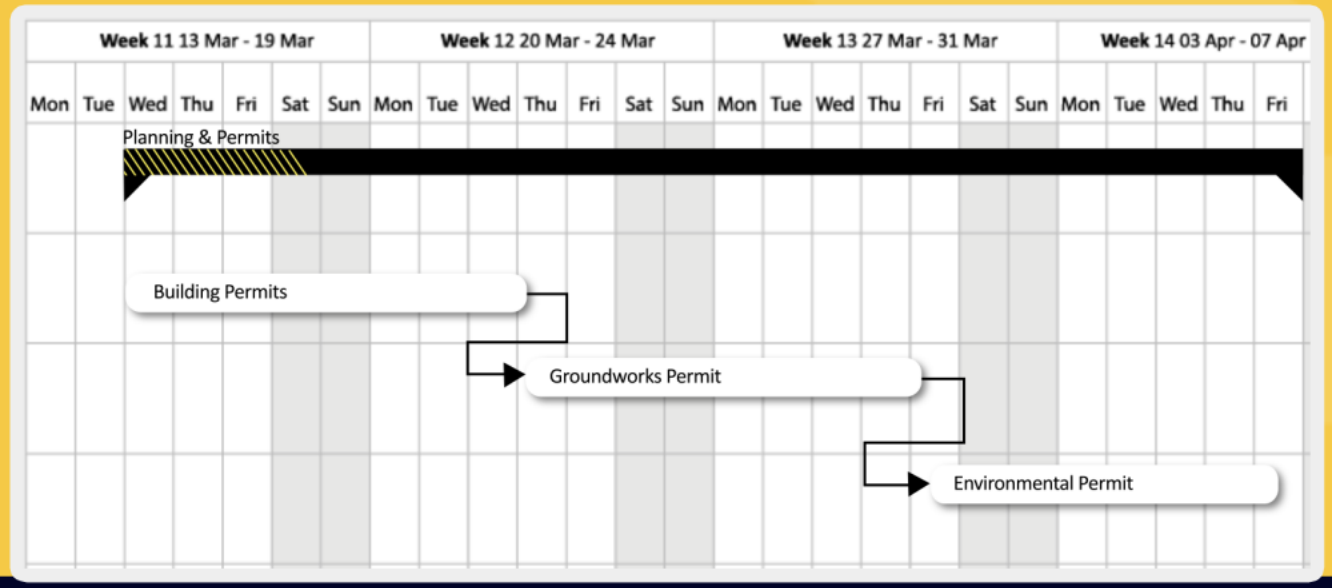
THE STRUCTURE

Select the modules that benefit your organisation

Goal

- Macro level project management
- Plan module integration
- Schedule variance visability
- Work and code breakdown structures

Name	Duration	Start Date	EndDate
2023 - Roadmap	90d	15/03/2023	17/04/2023
Planning & Permits	40d	15/03/2023	24/03/2023
Building Permits	7d	15/03/2023	23/03/2023
Groundwork Permit	18d	24/03/2023	19/04/2023
Environmental Permit	99d	18/01/2023	17/04/2023
Design Phase	9d	15/03/2023	24/03/2023



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Plan

- Real-time progress updates
- Location based task management
- Resource Management

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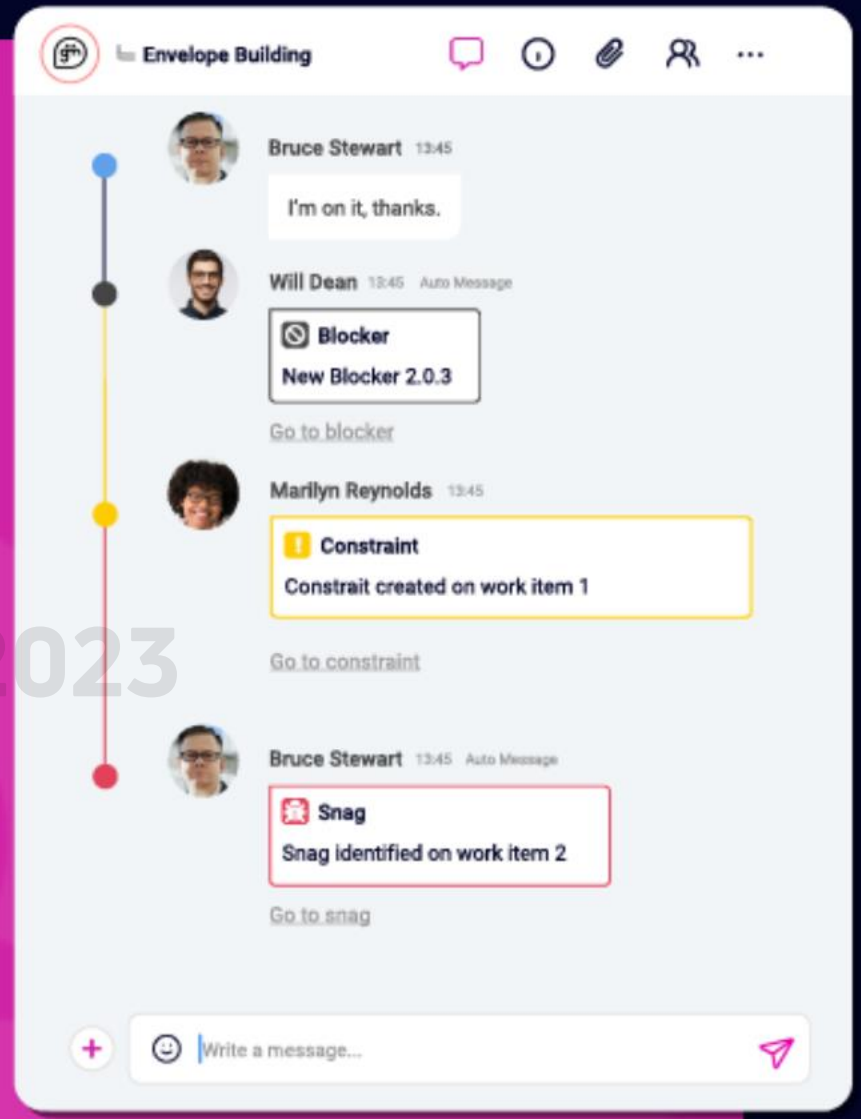
DESCRIPTION	STARTS	FINISHES	PROGRESS	COMPANY	LOCATION	OWNER	LEAD	STATUS
Position Steel	05 Nov 2023	17 Nov 2023	100	Red Networks	DB 1			Complete
Erection Of Steel	18 Nov 2023	13 Dec 2023	100	Red Networks	DB 4			For Approval
Paint Steel	14 Dec 2023	22 Dec 2023	80	Red Networks	DB 2			In Progress

People

- Structured conversations
- Live location on resources
- Records of issue management



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WayLoader

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FOR EXTRA TOOLS

WayLoader

Upgrade to WayLoader Plus

WayLoader Plus is a premium feature within the WayLoader application, which unlocks additional geospatial features that allows project owners to have a more immersive view of site from their desktop

Drone Overlays

Fly a drone regularly over your site for a birds-eye view of progress. Use drone analytics for accurate decision-making. Toggle drone overlays on our customisable map view for optimal space utilisation.

360° Walkthrough

With a 360° camera, upload content to WayLoader for you and your team. Explore your space with a customisable map view and 360° perspective.

GIS Layer Overlays

Wondering about utilities and services near your site? Our in-house library and support team can help. Toggle on layers or request additional ones to get the best tools for analysing your surroundings.

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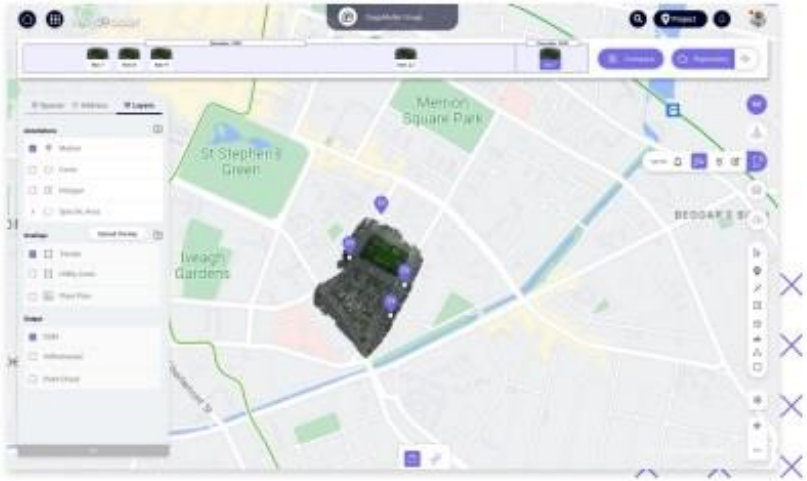

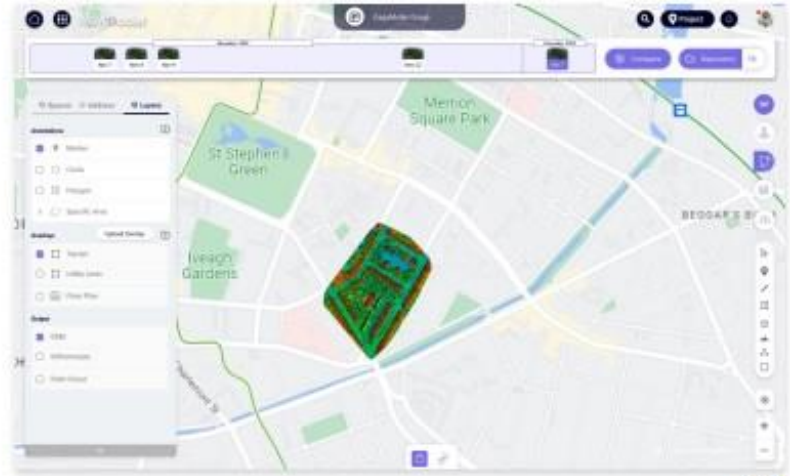

Sample Dashboards

Sample Dashboard

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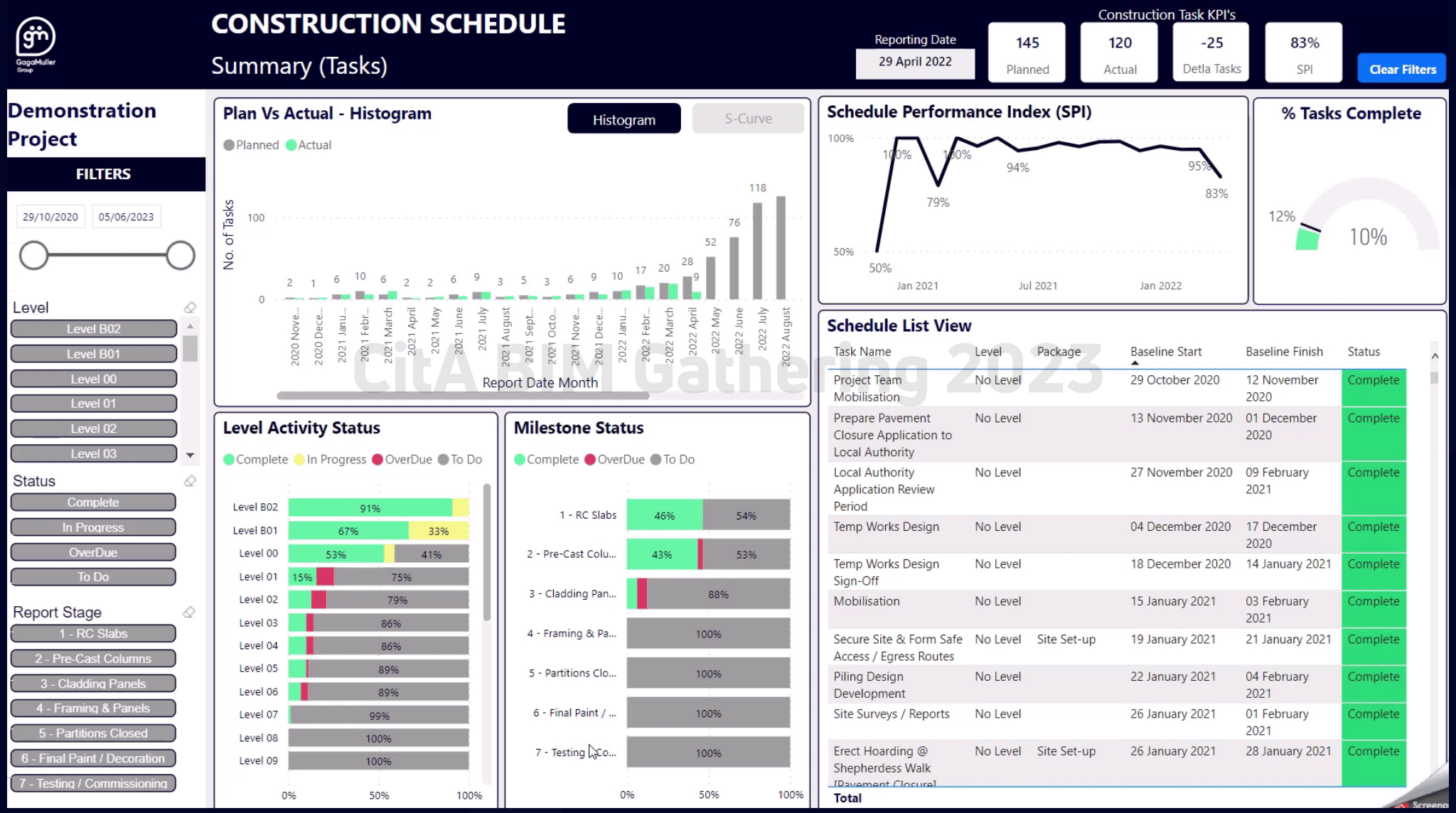

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Sample Dashboard

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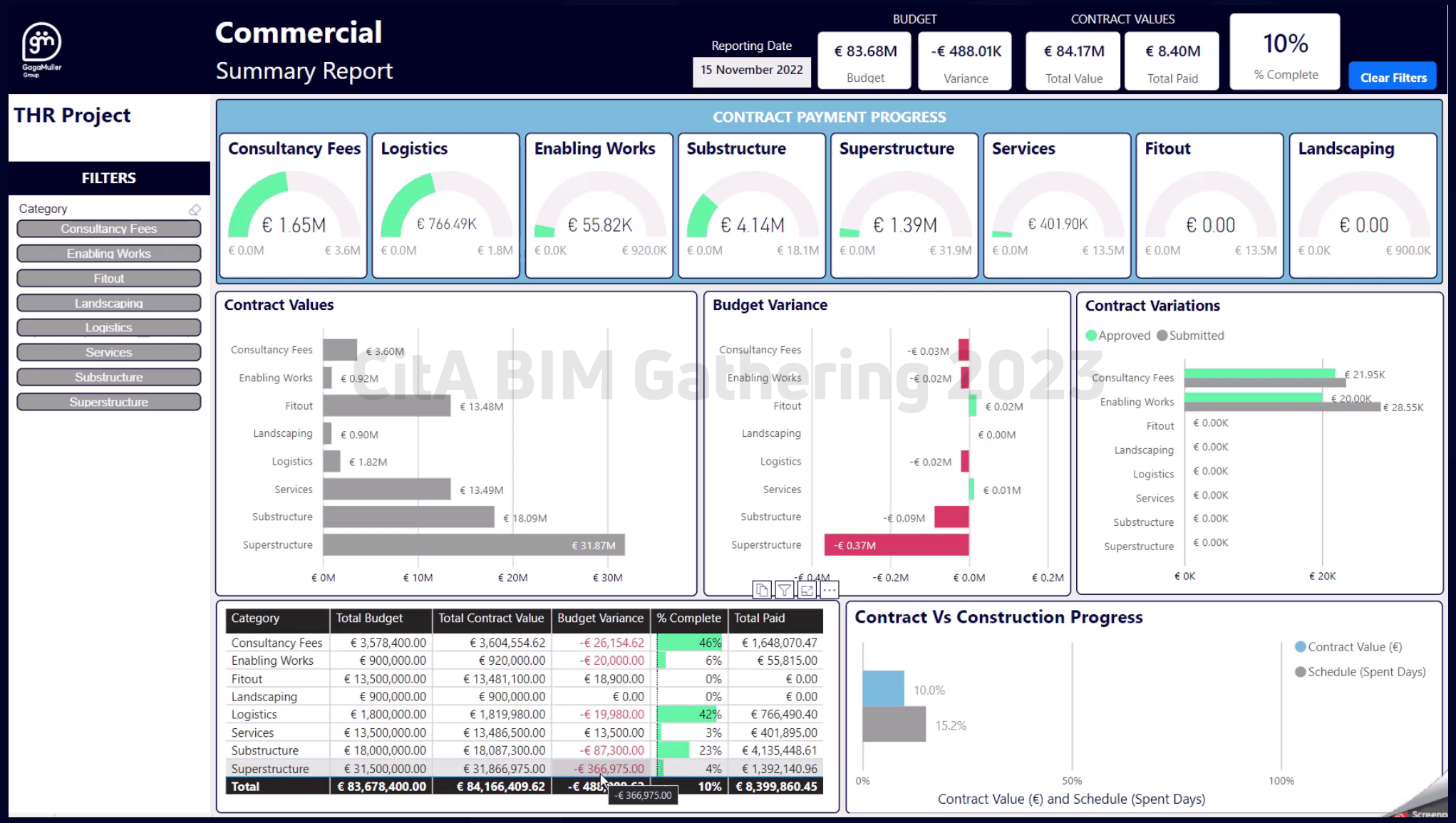

Category	Total Budget	Total Contract Value	Budget Variance	% Complete	Total Paid
Consultancy Fees	€ 3,578,400.00	€ 3,604,554.62	-€ 26,154.62	46%	€ 1,648,070.47
Enabling Works	€ 900,000.00	€ 920,000.00	-€ 20,000.00	6%	€ 55,815.00
Fitout	€ 13,500,000.00	€ 13,481,100.00	€ 18,900.00	0%	€ 0.00
Landscaping	€ 900,000.00	€ 900,000.00	€ 0.00	0%	€ 0.00
Logistics	€ 1,800,000.00	€ 1,819,980.00	-€ 19,980.00	42%	€ 766,490.40
Services	€ 13,500,000.00	€ 13,486,500.00	€ 13,500.00	3%	€ 401,895.00
Substructure	€ 18,000,000.00	€ 18,087,300.00	-€ 87,300.00	23%	€ 4,135,448.61
Superstructure	€ 31,500,000.00	€ 31,866,975.00	-€ 366,975.00	4%	€ 1,392,140.96
Total	**€ 83,678,400.00**	**€ 84,166,409.62**	**-€ 488,009.62**	**10%**	**€ 8,399,860.45**

-€ 366,975.00

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Conclusion

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Process

- Streamline processes
- Good information Management
- Standardisation
- Governance

People

- Training
- Collaboration
- Good Communication
- Engage the entire team
- Monitor behaviours

Technology

- Digitise process where possible
- Cloud based solutions
- Keep it Simple
- Develop Automated Data pipeline
- Real-time analytics

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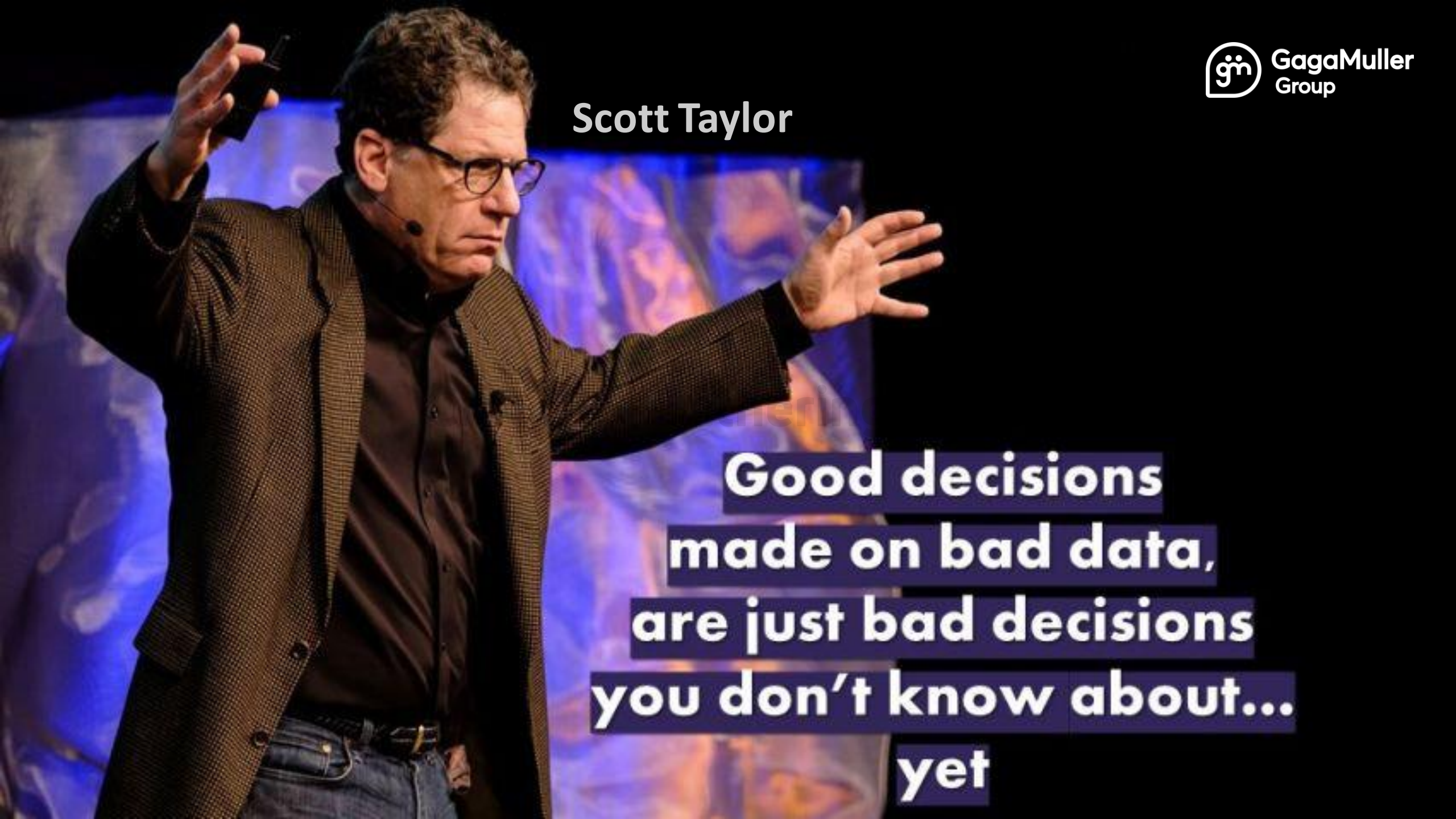
Scott Taylor



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