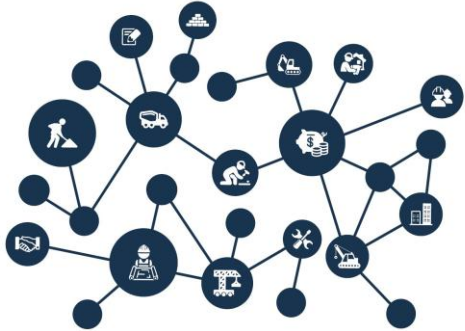


CPM Schedule Quality

A Schedule Quality Series



FSA



Empowering Construction Projects Through Innovative Technology Solutions and Expertise



Construction Schedule Data Using Real-Life Data

Welcome to

Part 2

Schedule Quality
&
Claim Success and
The Use of Lags

Swipe



Marsh Insurance₁

*“...With claims amounting to **65%** more time compared to the original contract duration and sums in dispute typically higher than one-quarter of a project’s total capital expenditure.”*

AON₂

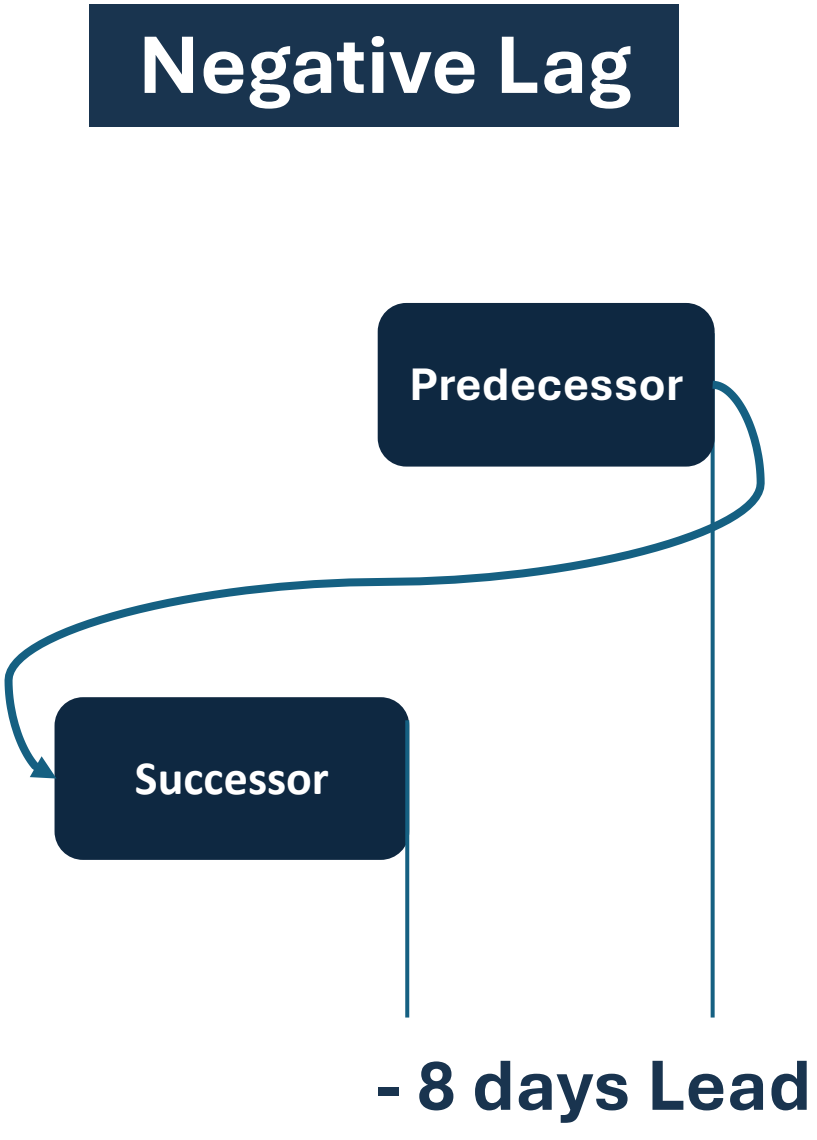
“...In our experience, we frequently find that the standard project program used by the contractor is not accurate enough to shed light on the critical aspects of the discussion”





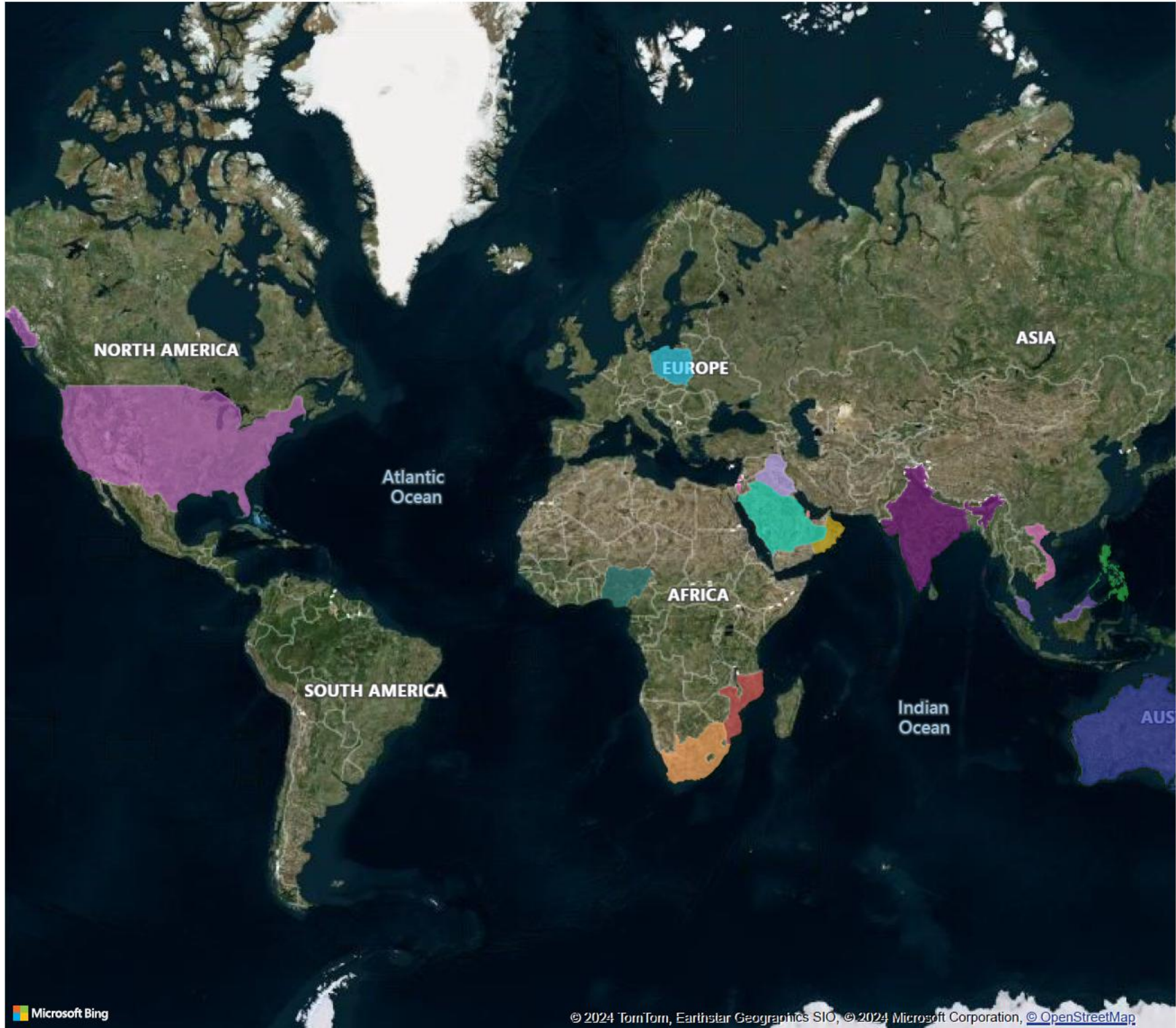
What is LAG

Lag is the waiting time between the end of a predecessor activity and the start of its successor. Negative lag, also known as lead, allows a successor activity to begin before its predecessor is completed. Most scheduling guidelines discourage using negative lag.

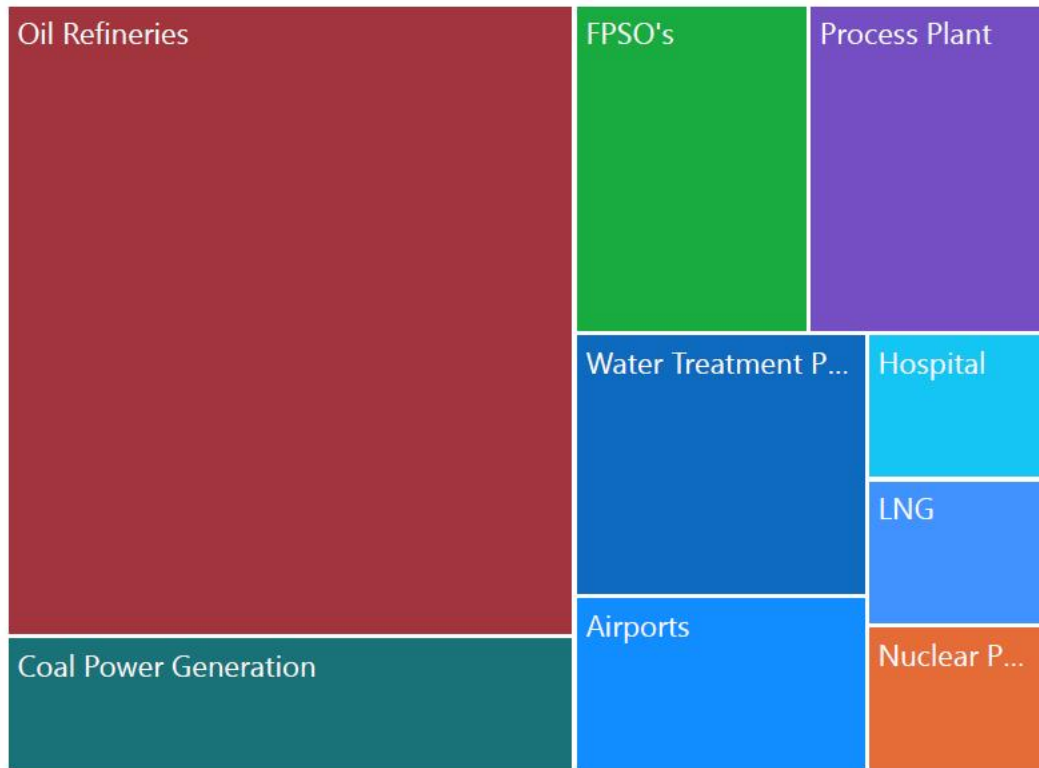


2339 Project schedule data between 2007 and 2024 was analysed

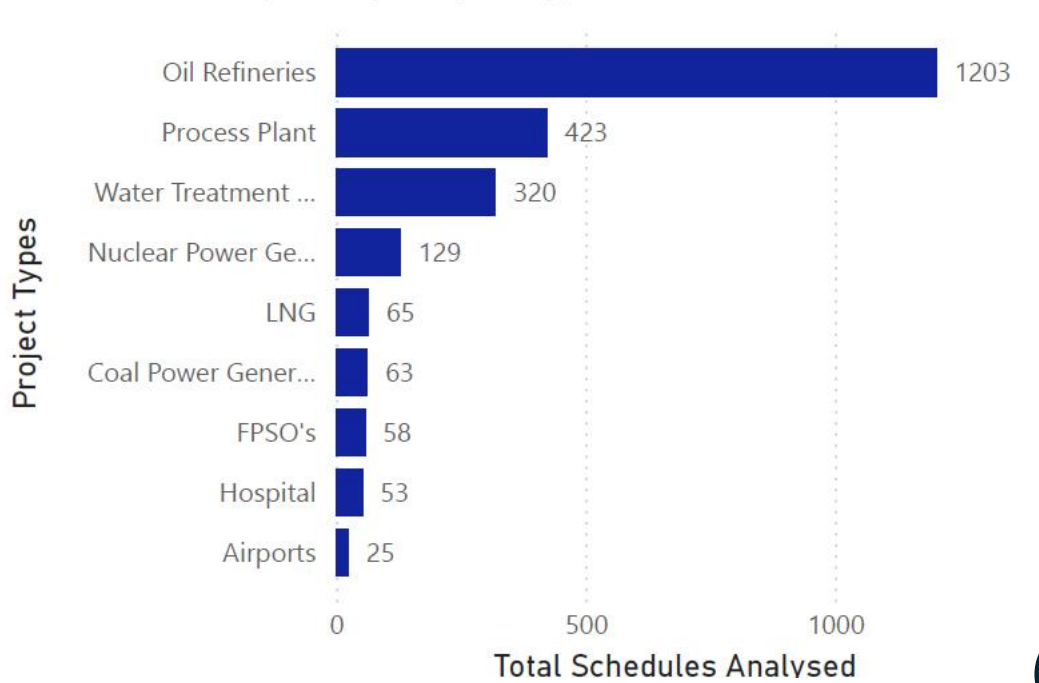
FSA Global Project Study



Project Type



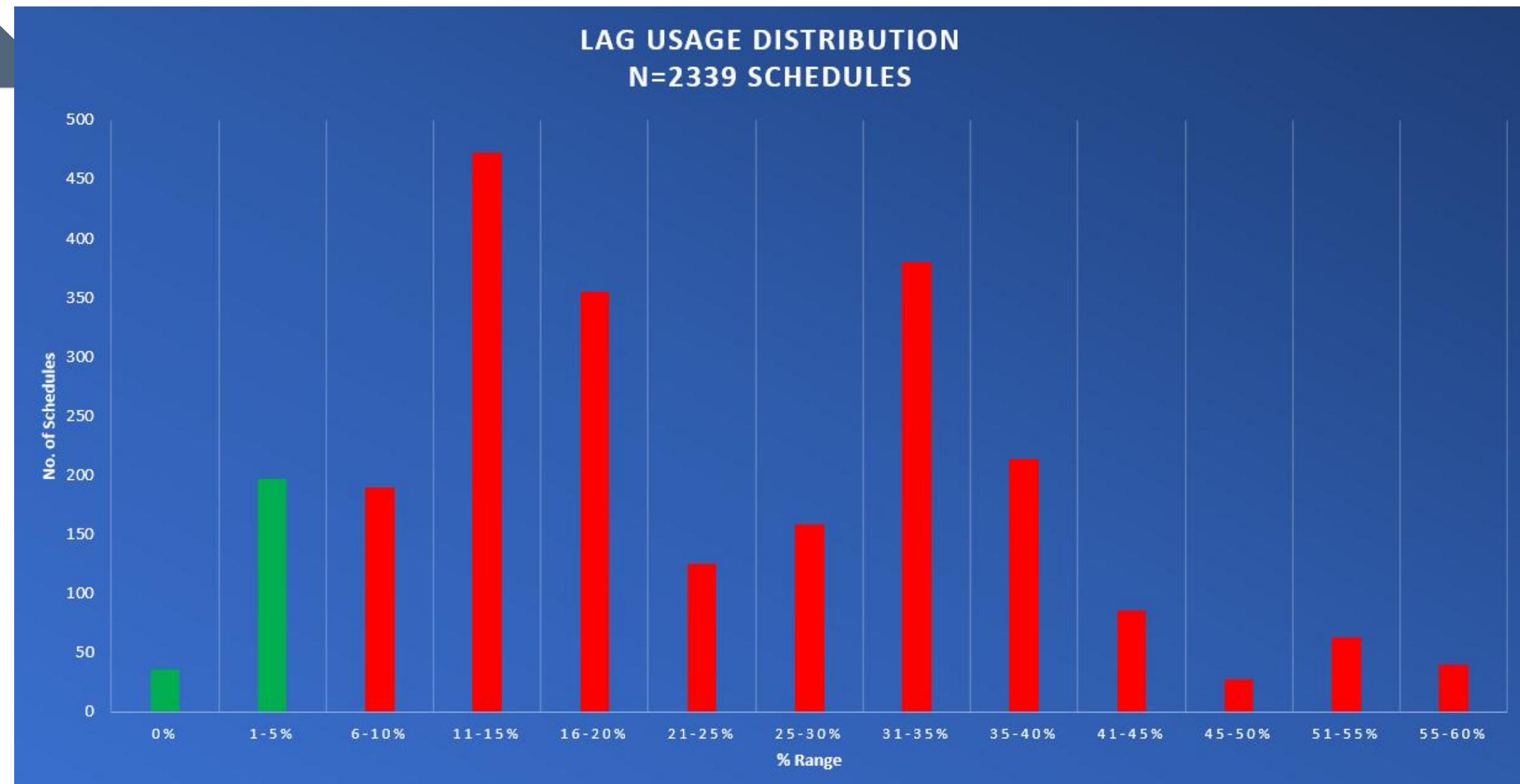
Schedules Analysed by Project Type



Oracle Primavera P6 states,

“...lags can affect critical path and distort total float”

90% of the schedule data reviewed had more than **5%** lag usage




Potential Schedule Issues Due To Excessive Lag Usage

- **Hidden Risk:** Excessive lag may hide the actual time needed, leading to inaccurate project timelines and misleading float.
- **Critical Path Impact:** Overusing lag can obscure the true critical path, delaying identification of crucial tasks.
- **Schedule Quality:** Too much lag reduces transparency, making progress tracking and delay management harder.
- **Resource Mismanagement:** Lag doesn't reflect resources directly, leading to potential resource allocation issues.
- **Dependency Issues:** Lag can hide important dependencies that should be modeled explicitly for better coordination.
- **Unintended Gaps:** Excessive lag might introduce unnoticed schedule gaps, increasing disruption risks.

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At FSA, we offer thorough baseline and schedule reviews for owners, contractors, insurers and legal counsel to ensure uncompromised schedule quality, enhancing claims outcomes. Our approach includes:

- **Comprehensive Baseline & Schedule Review:** Detailed analysis to identify excessive lag, incomplete task networks, and misaligned dependencies.
- **Real-Time Risk Identification:** Our GenAI model transforms lagging schedule indicators into actionable early warnings, empowering proactive risk mitigation.
- **Tailored Solutions & Recommendations:** Data-driven improvements in task dependencies, transparency, resource allocation, and critical path accuracy.
- **Dynamic Risk Mitigation:** Real-time monitoring enables proactive interventions to prevent delays and disruptions.
- **Collaboration:** We work closely with owners, contractors, lawyers and insurers to uncover hidden schedule risks.

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Ensuring Optimal Schedule Quality & Claim Outcome

For more information on **FSA services** and how we bring value to your projects, visit our website www.fsa.sg or contact us at info@fsa.sg



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Thank You



At FSA, our vision, mission, and values are centred on safeguarding client data and information at all costs, ensuring integrity across all our services.



This study has been conducted with strict confidentiality, and no client information has been compromised.

Disclaimer: *The findings of this study are based on anonymised data, and no client information has been disclosed.*