

Data Analytics for Project Controls

Program Controls

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Overview

Introduction



Programmatic Scale



Key Focus Areas



Data Workflow



Stakeholders



Takeaways



Q&A



Project Controls Mission Statement

“

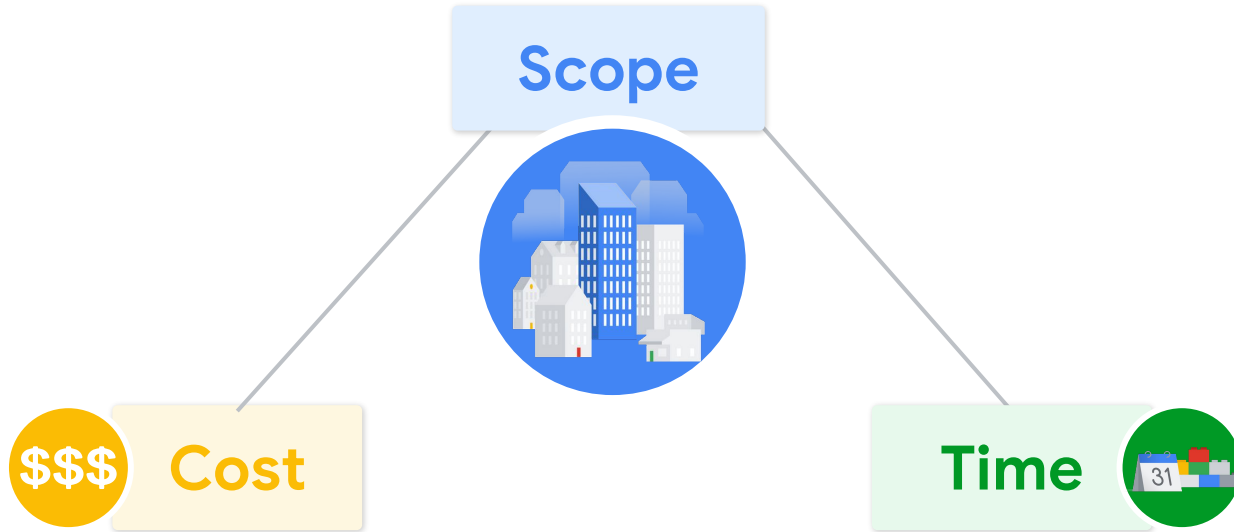
*Provide Actionable Data, Critical Analysis, and
Expert Advice That Improves Project Cost &
Schedule Performance*

Google Data Centers

Proprietary + Confidential



Program Controls

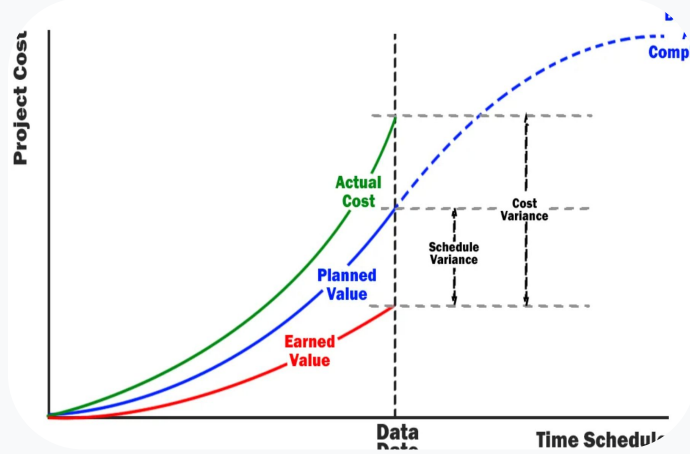


- Estimating & Benchmarking
- Planning & Scheduling
- Cashflow
- Performance Reporting
- Progress Measurement (EVM etc)
- Risk Management
- Change Control
- Contract Management
- Procurement

Key Focus Areas



Setting Baselines

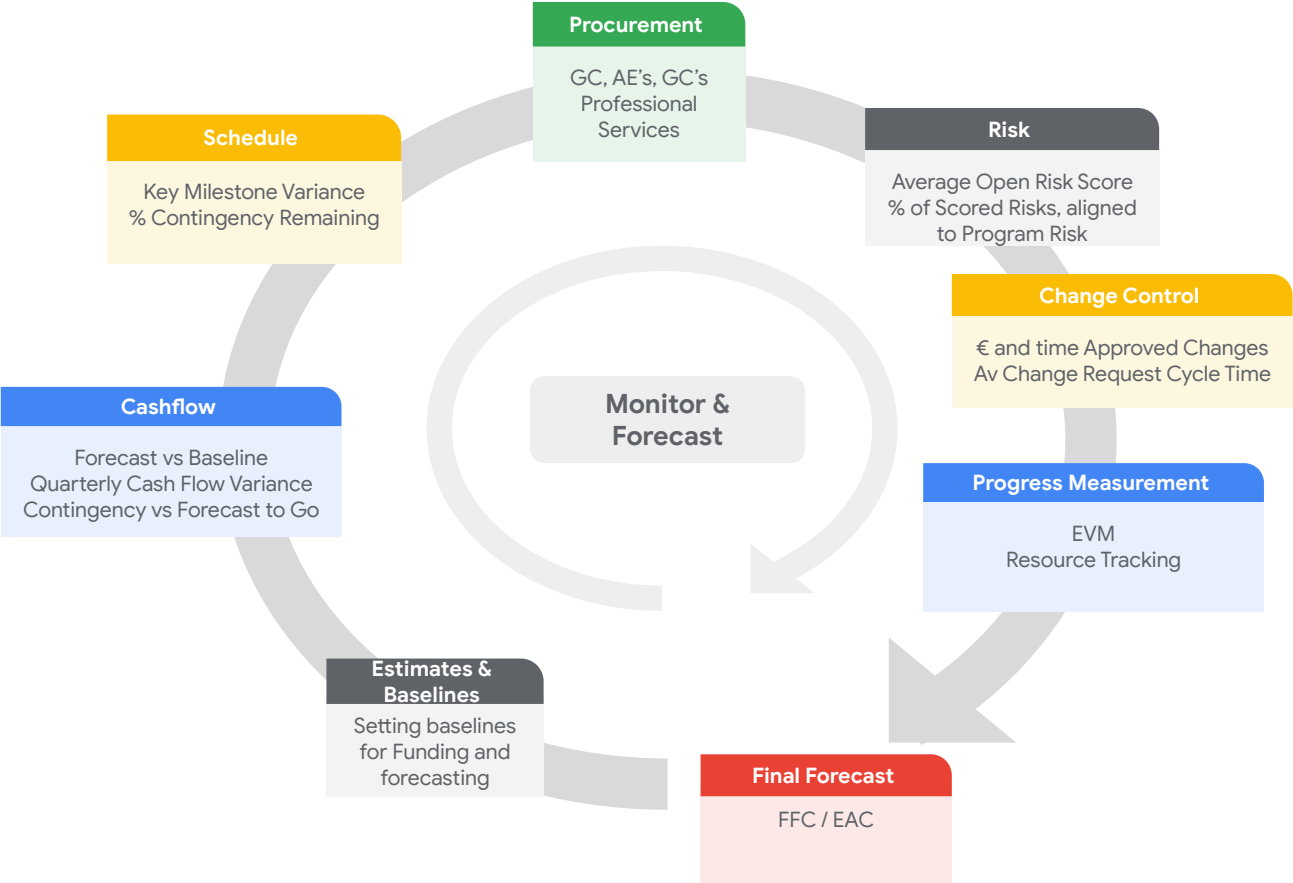


Report outs, Visualisation and Data Analytics



Explaining the Data

Data Workflows



Key Parties in Construction

Program Controls and **Data Analytics** specifically plays a critical role in managing the **flow of data**, noting that we live in a stack **project and program controls environment**, with a challenge to remove duplication and ensure complimentary flows of data with single sources of truth

Client / Owner: multiple Parties within a Owners Organisation;

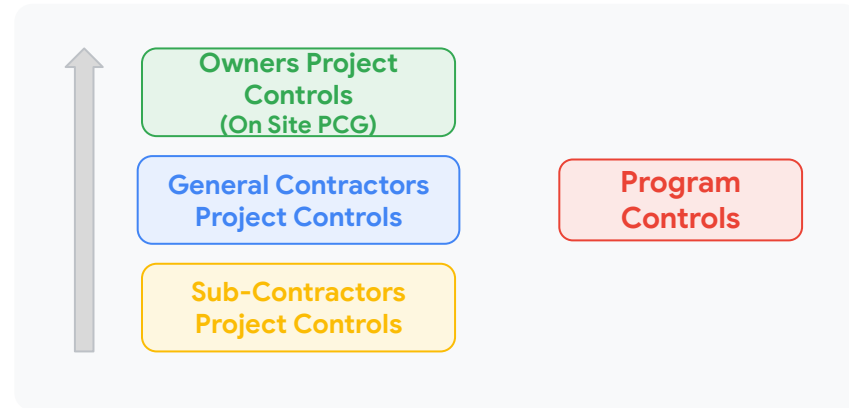
- Delivery Teams
- Program Controls including Contracts
- Procurement (Incl Equipment) and Contracting
- Finance Teams

Professional Services:

- Architects/Engineers
- Cost and Schedule consultants
- Owners Rep / Project Managers

Main Contractors: Oversee the construction process and manage subcontractors.

Subcontractors: Specialize in specific trades and carry out the actual construction work.



Big Ideas (Key Takeaways)

Idea 1 Baseline Variance is Crucial

Idea 2 Not All Metrics Are Equal (End User of Data Flow is critical)

Idea 3 Customize Your KPIs

Idea 4 Monitor Early Warning Signs

Q&A

