IMQS

IMQS SOLUTIONS

PROJECT CONTROL SYSTEM

OVERVIEW

Vast amounts of money are spent on deploying, managing and maintaining infrastructure assets. Often these projects are a failure due to ineffective project control caused by inadequate and disparate retention of and access to critical project data. The Project Control System addresses this problem through two primary enablers:

- Allow dynamic tracking and management of capital and operational projects in line with the life cycle asset management requirements.
- Establish auditability, transparency and project controls through technology.

PROBLEM(S) / PAIN POINTS

- Lack of standardised project management controls
- Multiple project management tools resulting in an unintegrated solution that does not provide end-to-end project and contract management capabilities.
- Misalignment between project engineers and finance.
- No single system where physical progress and financial progress is adequately tracked.
- No view to identify projects at risk across the organisation and monitor implemented mitigation strategies.
- Inability to generate strategic reports across all capital projects, including the lack of a strategic dashboard to monitor project health and financial spend against budget across organisational initiatives.
- Inability to holistically track budget, payment certificates, commitments and actual spend.
- Lack of resource capacity in order to maintain and manage the project data and documentation.
- Lack of system controls with regard to asset capitalisation.
- Globular amounts allocated to generic projects are capitalised as one asset.
- Non qualifying costs are manually allocated to a cost centre during the capitalisation phase resulting in imprecise financial allocation to financial assets.

- The asset commissioning phase is a manual process and therefore prone to delayed asset recognition. This has a direct impact in the accuracy of the financial accounting of the capitalised assets.
- Location data often inconsistent, and as a result when projects are capitalised they may reflect a reference to incorrect networks.

SOLUTION(S)

The various challenges associated with Infrastructure Asset Management projects can be resolved through the implementation of a centralised project control system.

IMQS offers a proven project control system that integrates with our primary Infrastructure Asset Management solution. The various challenges the system addresses are described in the table below.

PROJECT FUNCTION / PHASE	ABILITIES / ADVANTAGES PROVIDED BY THE PROJECT CONTROL SYSTEM
Project Creation	- Powerful import engine to import from vendor lists, organisational structures to annual approved/adjustment budgets. This capability reduces time spent to manually capture information significantly and therefore provide a working solution in a fraction of the time. - Create a project from scratch via dynamic input forms, configurable per client specific requirements. - Edit project information after the initial import. All changes made either via an import process or manual changes will be recorded in the audit files.
Programme Management	- The Programme manager can register the Programme and link the relevant projects to the Programme. - Multiple Strategic Objectives can be assigned to the Programme with a rolled-up reporting view across all linked projects and their progress. - Project planning principles are available on a Programme level for activity and phase planning required on a higher level.

PROJECT FUNCTION / PHASE	ABILITIES / ADVANTAGES PROVIDED BY THE PROJECT CONTROL SYSTEM
Budget Management	• Approved users can create, edit or delete budgets as well as budget line items (votes) as and when required. • Plan the project progress against the MTREF amounts and once the approved budgets are available funding is set against the project for future expenditure tracking. • Budget line items (votes) can further be split between projects if and when required.
Project Planning	• Milestones Planning – plan for specific milestones such as the appointment of the consultant/contractor. • Phase planning - Plan for different project phases such as Design, Planning and Construction. • Activities Planning – Activities are planned and linked to the relevant deliverables as established by the Strategic Objective of the Programme/Project. • Physical Progress Planning – monthly physical progress is planned in conjunction with the deliverables. • Financial Planning - Specific monthly expenditure is planned. The planned expenditure is the basis for the measurement and reporting of the overall financial progress of the project, rolled up to a programme/department/ward or metro level. • Project Activation – Projects undergo an approval workflow to ensure all required documents have been attached as well as approval on the project planning. • Timelines –Planning is presented in project timelines for easy interpretation and visibility.
Construction Phase	• Committed vs Actual Expenditure report / data. • Monthly Physical Progress – Physical progress is updated in terms of the deliverables set. • Risk Management – Risks can be registered either on a project or activity level. • Escalations & Notifications – Escalations & notifications are configurable.
Project close out	• Minimum requirements that need to be adhered to can be configured before a project can be completed and the assets capitalised.
Spatial Representation	• GPS coordinates for the relevant project enable the geographic view of the project location and the surrounding areas. This will give greater visibility in terms of

PROJECT FUNCTION / PHASE	ABILITIES / ADVANTAGES PROVIDED BY THE PROJECT CONTROL SYSTEM
	projects planned and active in a certain area such as a ward or region.
Project reporting	• Reports are web-based and easily configurable, to such an extent that it could be configured for an individual. • Offers customised views per target audience or more general reporting dashboards. • Levels of reporting stretches from funding source, affected wards, project, programme, department and overall metro to name only a few.

PRIMARY BENEFITS

- Provide complete control over budgets and costs and effective monitoring.
- Increase real-time visibility into key performance indicators.
- Reduce risk associated with scope, schedule overruns and required budget changes.
- Automate business processes and enforcing best practices and disciplines.
- Ensure compliance with corporate governance, laws and regulations.
- Leverage technology to enhance usability and increase end user adoption.
- Provide best of breed 'construction project' functionality.

TECHNICAL / FUNCTIONAL / FEATURE INFORMATION

- Fully internet driven (24 hour access)
- Standardisation of feedback forms
- Co-ordinated monitoring of all projects
- Automatic marketing flyer for each project
- Optimised usage of funds

- Future vision for all involved

- Co-ordinated development/customization

- Reduced duplication/redundancy of data

- Facilitates future budgeting

- Enforced backup procedures

- Controlled security access

- Efficient utilisation of human resources

CLIENT REFERENCES

- City of Tshwane

- Ekurhuleni Metropolitain Municipality

- Stellenbosch Municipality