# Project Control Tools Implementation in a Changing environment

There is a large amount of project control tools in the market. Some of them address all aspects of project controls while others are focused onto one aspect alone. It is very hard, if not impossible to find a single tool that covers all project control topics in a perfect way.

From what we see in the market, organizations are now keener than ever to incorporate as many projects control disciplines as possible into a single tool, alternatively, they strive to ensure a very complex interface between several tools that utilize different integration technologies and different road map strategies.

We also see that virtual monitoring and following up in the construction industry is trendier than ever and the benefits that accompany this trend are countless.

Other trends that we notice

- Faster project start-up and mobilization
- Systems, tools and processes and must be ready to use as soon as the project is defined
- Less tools and integrations
- Consistent processes across all contractors and vendors
- Transparency and Insights across all phases of the project
- Digitalization - Data centric future
- Model digitalization (BIM) and data, not just files and drawings
- Less paper/hardcopies
- Clients and Law now accept digital records as legally binding
- Mobile and mobility.
- Data security, Neutrality & IP protection
- Completion, Commissioning, Handover and Operations. Now more important (not just focus on completing the project

To keep up with the trends and to address the demand effectively, project control tools have evolved to incorporate more project control disciplines

However,

Even though project control tools have evolved and address several project controls disciplines, implementing a project control tool in an organization can still be an impossible task if the premises are not set correctly.

- You need to create an overall tool landscape for the organization and clearly defined objectives for the future. The landscape should include a list of all current tools along with a description of how and by whom they are used in the organization. Future objectives can range from reducing number of tools to identifying gaps, minimizing tutoring, moving to cloud solutions and security.
- You need to specify your needs and requirements thoroughly with respect to all project control disciplines.
- You need to perform a thorough investigation in the market regarding the possible tools available for your future tool landscape. Some companies are not aware of the possibilities

that exist, either because they do not investigate thoroughly or because the tools are not marketed or fully developed, and therefore very few can find out about their existence.

- You need to have the correct mandate and leverage in the organization to implement the tool and a well-defined timeline. For example, an empowered project with clear deadlines and with competent members from both the tool provider and the customer.
- The organization needs to be ready to accept a new tool, Resistance is in human nature and the project will encounter resistance and challenges that could be in form of resistance from persons, loyalty to other tools, cultural aspects and so on. It is, therefore, very important that change management principles are adopted at an organizational level and that upper management is involved in decisions that hinder the project timeline.
- You need to have a reliable tool provider with competence in both the tool and the respective discipline with project controls. System setup is extremely important in this case, but one also needs to have great attention to the competence that the tool provider has within the project control discipline.

Implementing a project control system that addresses the above is not a simple task though, and as mentioned, the premises need to be in place for a successful implementation. Unsuccessful implementations often occur when some or even one of the premises mentioned above is not in place. A tool provider that has good products and is eager to sell without having enough or competent resources in all the aspects of project controls is devastating for the implementation. Buyers must engage the tool provider in the implementation. There must be a balance between the responsibilities of the tool provider and the buyer during the implementation phase and for further support during production. The loss that could result due to an unsuccessful implementation are huge both in terms of money, time lost and frustrations.

There is currently no unique tool that covers all the project controls disciplines in an acceptable manner and integrations between ERP systems, HR systems and other potential systems are inevitable. But there are a handful of tools that can reduce the number of tools and integrations to a few rather than the ultimate one project control tool.

Metier OEC has over 35 years of experience in implementing project control and collaboration tools. We have carefully selected two tools from the oracle construction tools suite and we have had a very successful relationship with oracle for 35 years.

Our selected tools offerings and implementation cover Oracle Aconex and Oracle Primavera Cloud as **a fully blown project control and portfolio management system.**
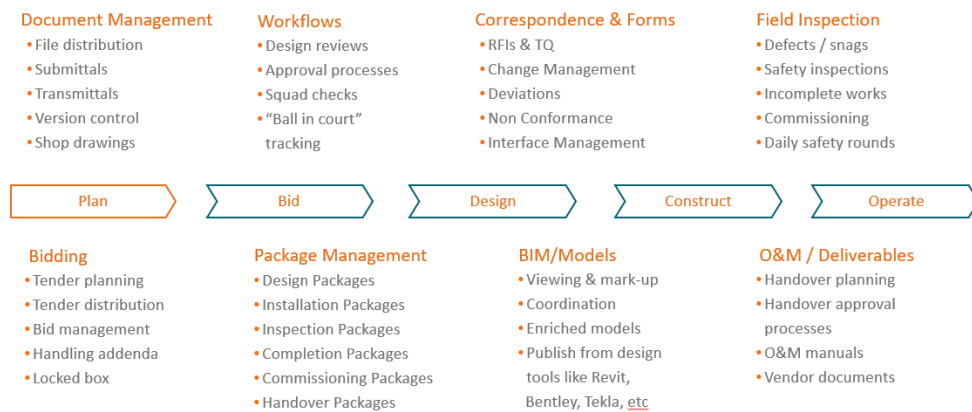
Please take contact with us for more information regarding implementing project control tools or specifically about our tool offerings.

## Oracle Aconex Highlights

Trusted by 16K+ project leaders for process visibility & control, reduced risk, & connected team. Below are some use areas.

- Cloud-based project delivery platform that deploys in days:
- Document Management: Secure, single source of truth for the entire project-team
- Process Management & Collaboration: One collaboration platform for the entire project
- Aconex Model Coordination: A Common Data Environment to connect teams, models, and project data
- Field: One App to manage ALL your inspections

In short, Aconex covers the following aspects within project management

**Document Management**
- File distribution
- Submittals
- Transmittals
- Version control
- Shop drawings

**Workflows**
- Design reviews
- Approval processes
- Squad checks
- "Ball in court" tracking

**Correspondence & Forms**
- RFIs & TQ
- Change Management
- Deviations
- Non Conformance
- Interface Management

**Field Inspection**
- Defects / snags
- Safety inspections
- Incomplete works
- Commissioning
- Daily safety rounds

Plan → Bid → Design → Construct → Operate

**Bidding**
- Tender planning
- Tender distribution
- Bid management
- Handling addenda
- Locked box

**Package Management**
- Design Packages
- Installation Packages
- Inspection Packages
- Completion Packages
- Commissioning Packages
- Handover Packages

**BIM/Models**
- Viewing & mark-up
- Coordination
- Enriched models
- Publish from design tools like Revit, Bentley, Tekla, etc

**O&M / Deliverables**
- Handover planning
- Handover approval processes
- O&M manuals
- Vendor documents

## Oracle Primavera Cloud Highlights

For more than 30 years, successful projects around the world have relied on Oracle's Primavera solutions to plan, build, and operate critical assets. Oracle Primavera Cloud is the only solution that integrates project and portfolio planning and delivery teams for planning, resourcing, risk mitigation, scheduling, and program management.

- Cloud-based, delivering fast time to value
- One platform for planning, prioritizing, executing, and monitoring projects and programs
- Optimization and oversight of capital spend to maximize return and align with strategies
- Enhanced risk mitigation; better visibility of project and portfolio health
- Comprehensive, integrated planning - critical path method (CPM) and Lean scheduling, plus upstream portfolio planning and downstream risk mitigation
- Total resource management – maintain optimal staffing levels to improve delivery efficiency
- Collaboration and control across teams – drive efficiency and quality, reduce waste
- Connect teams with access from any device, create and update activities and tasks, and view portfolios and files with offline support
- Risk mitigation – avoid delays and cost overruns

The overall functionality can be summarized as follows in the following way

## Cost and Funds
Summary Cost Sheet
Fund Sources
Cost Sheet
Cash Flow
Project Funds
Budget
Actuals

## Custom Logs
Log List

## Dashboards
Dashboard List
Manage Dashboards

## Files
File List

## Forms
Forms List

## Integration
Synchronize
Monitor

## Portfolio Analysis
Summary Scorecard
Scorecard
Investor Map
Prioritization Matrix
Spending

## Project Team
Users
Companies
User Groups
Security

## Related Items
Related Item List

## Reports
Report List
Print Layouts

## Resources
Resource List
Role List
Assignment List
Analysis
Resource Demand

## Risk
Risk Register
Risk Analysis

## Schedule
Activities
WBS
Assignment List
Schedule Comparison
Baselines

## Scope
Scope Items
Work Packages
Scope Assignments
PBS
WBS
Baselines
Scope Item Changes
Work Package Changes
Period Closeout

## Strategic Alignment
Strategy Scorecard
Strategy List

## Tasks
Work Plan
Hand-offs
Task List
Constraints
Analysis

## Workflows and Forms
Monitor Workflows
Start Workflow
Form Design
Workflow Design
Workflow Configuration