TIMeCS

Totally Integrated Management enterprise Control System

Agenda

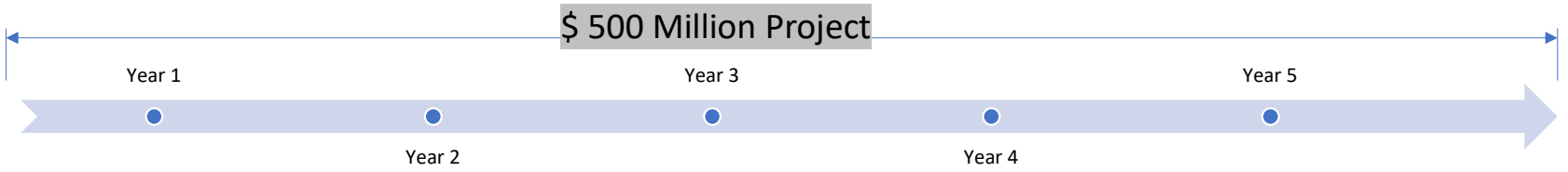
- Introduction
- Challenges to Data Management
- What is TIMeCS and How it Works
- Main Functional Modules
  - Project Controls
  - Risk / Issues Tracking
  - Document Control
  - Procurement
  - Inventory Control
  - Budget Control
  - Project Accounting
  - Time Keeping

TIMeCS

Introduction

- Data management
  - Is the process of ingesting, storing, organizing and maintaining the data created and collected by an organization. Effective data management is a crucial piece of deploying any system that runs business applications and provides analytical information to help drive operational decision-making and strategic planning.
- Data Management Best Practices
  - Begins with a business question and acquire the data that is needed to answer that question resulting in better analytics.
- Benefits of Data Management
  - By managing data both structured and unstructured, that floods businesses daily an organization can harness the power of their data and makes it a tool for the decision-making process.

Project Data is Huge Data



50k Documents

10k Formal Letters

30k Test Inspections

1m Files on shared servers

Thousands of other related lists and items such as change requests, punch items, permits, certificates, interface data etc.

TIMeCS

Redundant and Inconsistent Project Data

Multiple Departments	Inconsistent Data Formats	Multiple Data Locations
• Contracts / Commercial • Engineering • Planning & Controls • Document Control • Admin & Time Keeping • Quality Control • Health & Safety • Storekeepers • Construction • Testing & Commissioning	• Several Spread Sheets • Documents • Scattered Databases	• Different Site Offices • Corporate Offices.

Redundant and Inconsistent Project Data Cause Challenges

Lack of Integration (data handling/ monitoring)

Communication Management (Data flow between departments)

Stuck in un-trackable Spreadsheets / Formats

Duplication of Data Entry

Conflicts in Reporting

Productivity Monitoring at Various Levels

Traceability of Responsibility

Key Performance Indicators (KPI's) tracking (Accountability)

Checks and Balances

Correspondence Tracking

Inputs to Scope Change Management

Support in Building Practical Claims ensuring Contract compliant substantiation

Progress Recordings / Updates

Manhours burnt in preparation of Periodic Reports

Redundancy (Multiple Resources doing same job/task)

Maintaining Historical Records

Delay in Reporting

Management Dashboards

What is TIMeCS

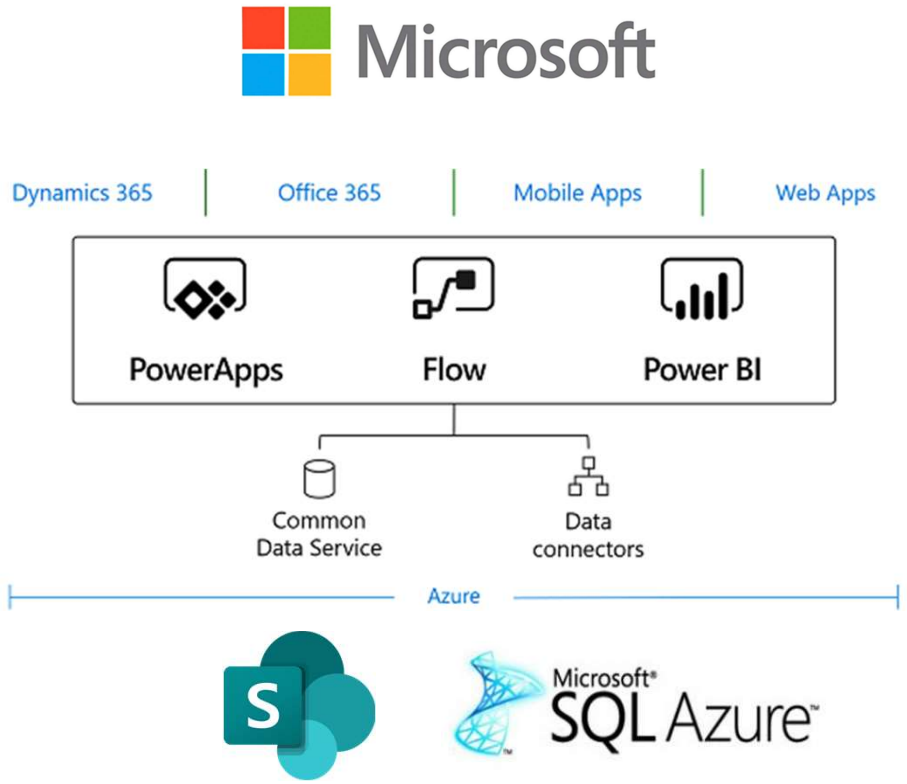
- **TIMeCS** is *an enterprise level, cloud based integrated* management solution.
- **TIMeCS is** designed to help Project Managers and Corporate Managers by providing a single tool that automates processes.
- **TIMeCS** delivers a true and unified picture of critical, up-to-the-minute (**Real Time**)information across the project life cycle.
- **TIMeCS** enables management to be better informed and have accountable control while being totally transparent.

Why TIMeCS - Benefits of TIMeCS

- **TIMeCS** *Is a Cost-Effective Option Compared with Competitors*
- **TIMeCS** *Provides More Modules and Features than Current Project Apps in the Market*
- **TIMeCS** *Is a Secured Cloud Based System Which Eliminates Backup Requirements*
- **TIMeCS** *Facilitates Live Earned Value Management Reporting*
- **TIMeCS** *Provides Visibility on Project Profit Margins*
- **TIMeCS** *Automates Progress Reports & Billing*
- **TIMeCS** *Results in Local Presence with Fast Implementation*
- **TIMeCS** *Supports Scope Change Management & Claims*
- **TIMeCS** *Increases Resource Utilization and Efficiency*
- **TIMeCS** *Results in Total Transparency and Facilitates Traceability and Accountability*
- **TIMeCS** *Improves Meeting and Exceeding Project Delivery Timelines*
- **TIMeCS** *Improves Business Profitability*

The Platform Used by TIMeCS

TIMeCS was developed utilizing the Microsoft Platform, ensuring reliability of data generated.



Project/Business Performance Impact Features of TIMeCS

- Optimizes by Streamlining Project Tasks
- Reduces Resource Loading
- Increases Project Efficiency
- Reduces Delivery Timelines
- Decreases Operational Cost
- Transparent transfer of Communication
- Clarifies Roles & Responsibilities
- Establishes Traceability & Accountability
- Real time data & statistical projections
- Realtime Project & Business KPIs

Benefits to the Business

- **TIMeCS** provides a real time snapshot.
- **TIMeCS** provides granular project visibility.
- **TIMeCS** identifies project bottlenecks.
- **TIMeCS** facilitates management intervention to ensure delivery timelines are met.
- **TIMeCS** ensures quality maintenance.
- **TIMeCS** safeguards profitability margins.
- **TIMeCS** helps increase Profit Margins.

TIMeCS Optimizes the Process / Project / Tasks

- **TIMeCS Process Making**
  - Eliminates broken or wasteful processes by reverse engineering, addressing variables and functions that constitute negative project impact. This ensures the project processes and performance mapping being in control within acceptable parameters.
- **TIMeCS Reduces/Eliminates the Paper-Based System**
- **TIMeCS Eliminates Silos**
  - TIMeCS provides inter project functional transparency through process maps. TIMeCS links key processes in key areas allowing the medium for them to be shared in a usable way.
- **TIMeCS Streamlines your Communication**
- **TIMeCS provides Analytics and Data Leveraging**

TIMeCS Streamlines

- **TIMeCS** acts as a medium of communication for all team members
- **TIMeCS** stores all the documents related to the project.
- **TIMeCS** brings together project specific info in a single depository.
- **TIMeCS** allows users Real Time information of project performance.
- **TIMeCS** aligns the Project Manager and team members even while working remotely.

TIMeCS Reduces Resource Loading / Increases Efficiency

- **TIMeCS** has interval work tracking and deadline notifications ensuring due date commitments are prioritized.
- **TIMeCS** enhances efficiency and provides tracking and tracing daily tasks to team members empowering them to address “non-automated” tasks.

TIMeCS Reduces Operational Cost

TIMeCS centralizes strategic initiatives having the project team committed to a single platform for all its activities.

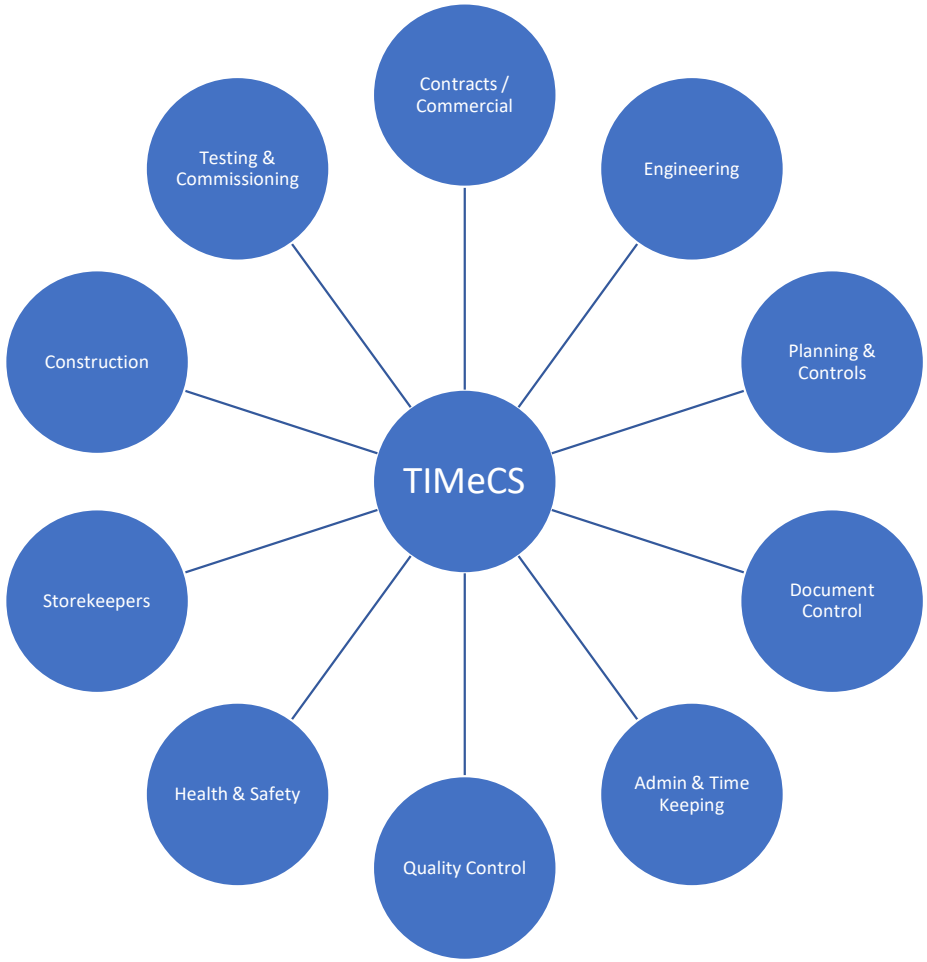
- **TIMeCS** Facilitates a team building environment
- **TIMeCS** Provides the user with Task Tracking
- **TIMeCS** Enhances Time and Resource Management increasing Efficiency & Utilization.

Business Performance Impact Features of TIMeCS

- Construction Projects Focused
- Configured Project Support
- Configured to Client Needs
- Supports Data Migration (All Microsoft Technologies)
- Integrates with other business uses i.e., Gmail, Outlook email, Calendar, Google Docs)
- Configurable Dashboards with Statistical Projections
- Unified Reports
- Risk Management
- Earned Value Management
- Scope and Change Management
- Field Productivity
- Artificial Intelligence
- Extension of Time
- Supports streamlined approach to issuing Variations
- Provides accessibility of Information for potential claims

TIMeCS at work for its Users

- **Connected Data**
- **Unified Data**
- **Control of Data Redundancy**
- **Enforcement of integrity constraints**
- **Multiuser**
- **Restriction of unauthorized access**
- **Backup and recovery facilities**



TIMeCS at work for its Users

TIMeCS Connected Data

- When data relates to contextually relevant relationships and leveraged across an organization, it leads to new growth opportunities, cost savings through efficiencies, accelerated agreements, and higher levels of customer satisfaction.

TIMeCS Ties Data Sources to a Unified Data Status

- When fragmented data sources are merged into one single central view, the unified data provides a complete and accurate picture of the company's data.

TIMeCS Controls Data Redundancy

- Data are stored in one place within the database. Sometimes, data redundancy exists to improve system performance, such redundancy is controlled by **TIMeCS** and kept to a minimum by platform's design.

TIMeCS Enforcement of integrity constraints

- Our system defines and enforces constraints ensuring users enter valid information and maintain data integrity.

TIMeCS at work for its Users

TIMeCS Multiuser

- The **TIMeCS** system is designed for multiple users accessing simultaneously the same database from different locations.

TIMeCS Restriction of Unauthorized Access

- Not all users will have the same access privileges. Some users might have read-only access with no editing capability while others might have read and modify privileges. **TIMeCS** provides options to create and control different types of user accounts and restricts unauthorized access.

TIMeCS Backup and Recovery Facilities

- These are methods that allow the protection of loss. The **TIMeCS** system provides a separate process for backing up and recovery of data, from that of a network backup.

TIMeCS Mobility

- **Business mobility can offer benefits like increased productivity and decreased expenses due to flexibility and efficiency**
- **Field resources can update the progress right from site, remotely**
- **Field / Office Employees will have up to date real time information on their devices**

TIMeCS Driven by Artificial Intelligence

- **TIMeCS driven by an Artificial Intelligence engine optimizes your business processes.**
- **TIMeCS enables your business to use AI in automating processes and collects insights from your data**

Overview

Reporting and Data Navigation Capabilities
Underlying Microsoft Technologies (Alerts, User interface Customization)

Budgeting & Project Control

- Multiple Projects
- Activities with Cost Codes
- Budget vs Actual Cost Analysis
- Productivity Analysis
- Risk / Issues Tracker
- Time Keeping

Document Control

- Drawings
- Materials Submittals
- Site Inspections
- Material Inspections
- Requests For Information (RFI's)
- Project Correspondence

Procurement

- Manage Suppliers
- Purchasing Materials
- Track phases in the procurement process

Materials Inventory

- Items Coding
- Delivery Notes
- Store Issue Notes
- Realtime Stock

Project Accounting

- Suppliers Accounts Payable
- Customer Accounts Receivable

Powerful reports for the project cycle including budgeting, progress, cashflow, productivity

Fully integrated with Power BI which provide more in-depth analysis and graphical reporting

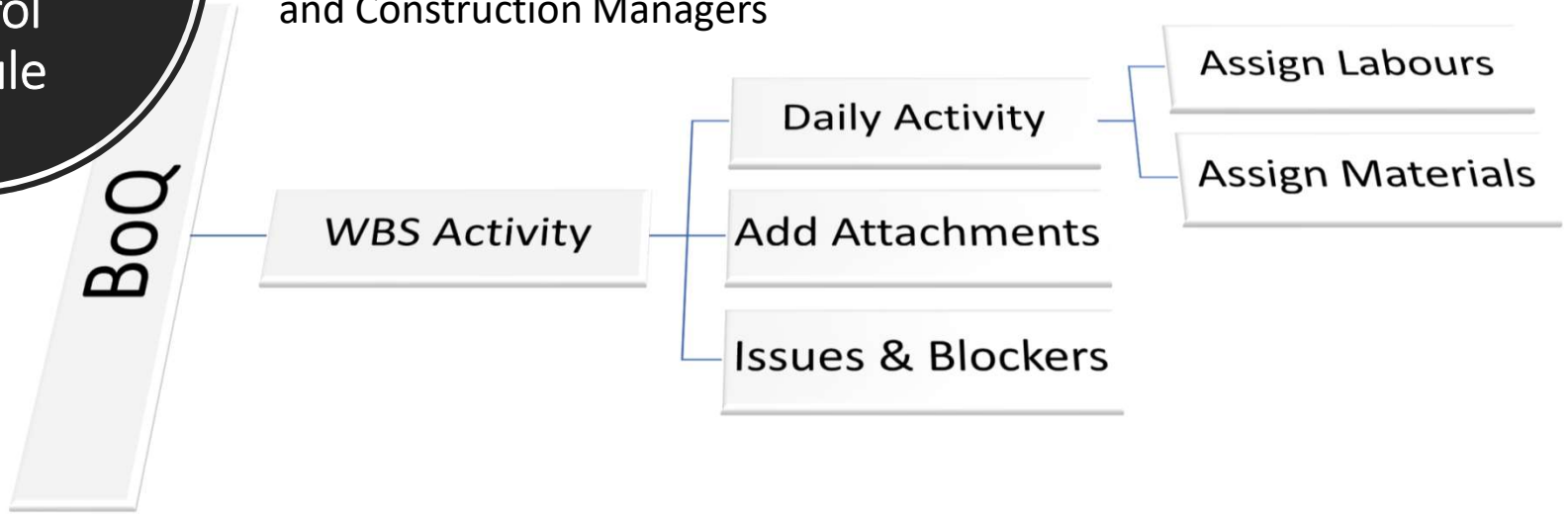
TIMeCS System Structure

- **TIMeCS** is structured to provide a harmonious connectivity of its modular functions.
- Upon data entry, **TIMeCS** constantly compares actual entries against the budget / baseline and generates flags for early warnings.
- When a user logs in to the system, the user will only see the information related to him/her.
- When a Manager or Department head logs in to the system, he/she will have all dashboards / reports available relating to his/her function with up-to-date information.
- When a corporate manager Logs in to the system, he/she will have the corporate level related real time information.

Backbone and Inputs

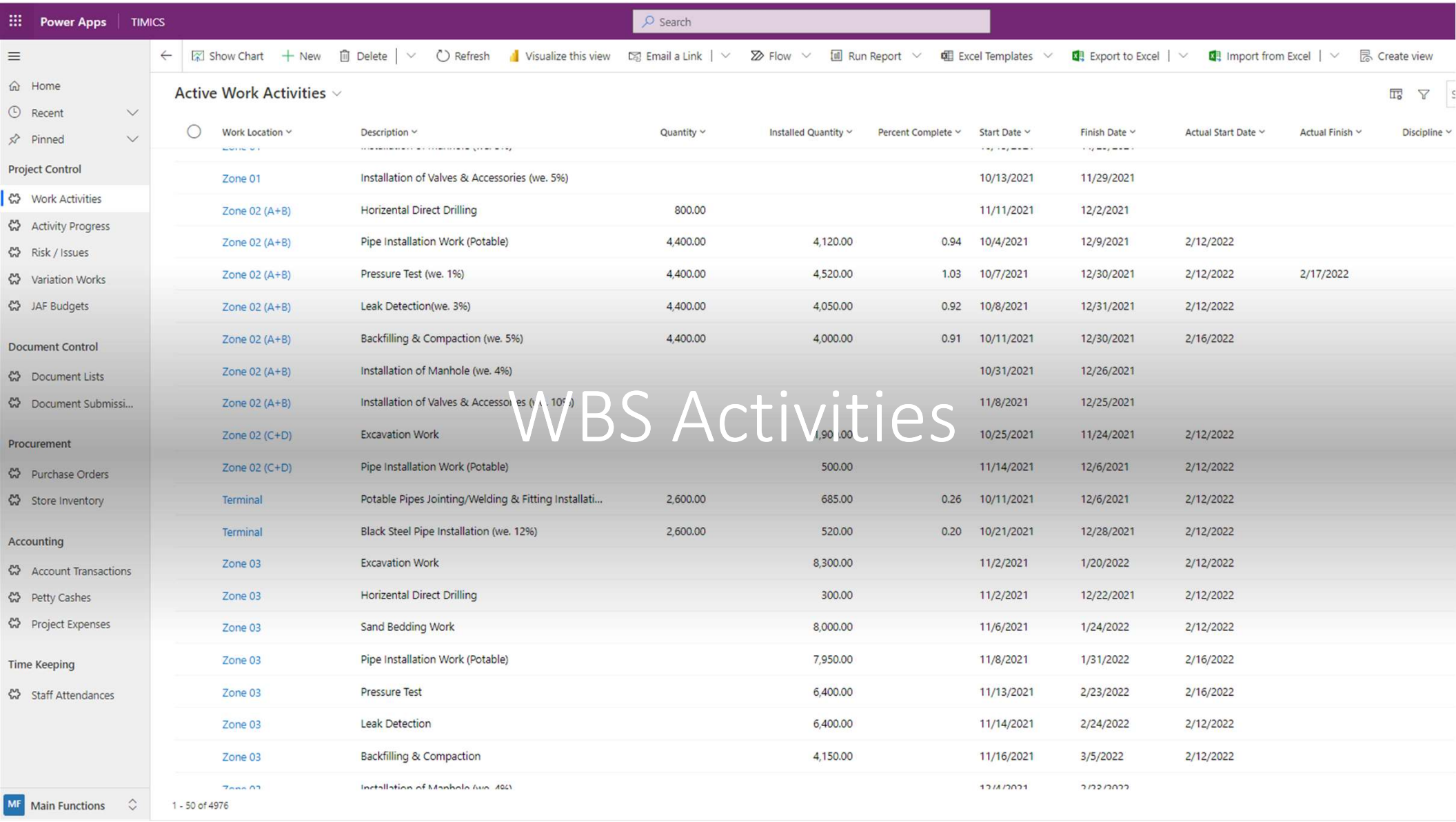
The Budgeting & Project Control Module

- Provides realtime information on Actual vs Budgeted Project Cost and enhances collaborations by linking the operations in the office and sites.
- Synchronizes all processes and assures data integrity between stakeholders.
- Connects BoQ Code Items, Cost Codes and WBS Activities, providing meaningful KPIs for Risk Assessment and Forecasting to Project Controllers and Construction Managers



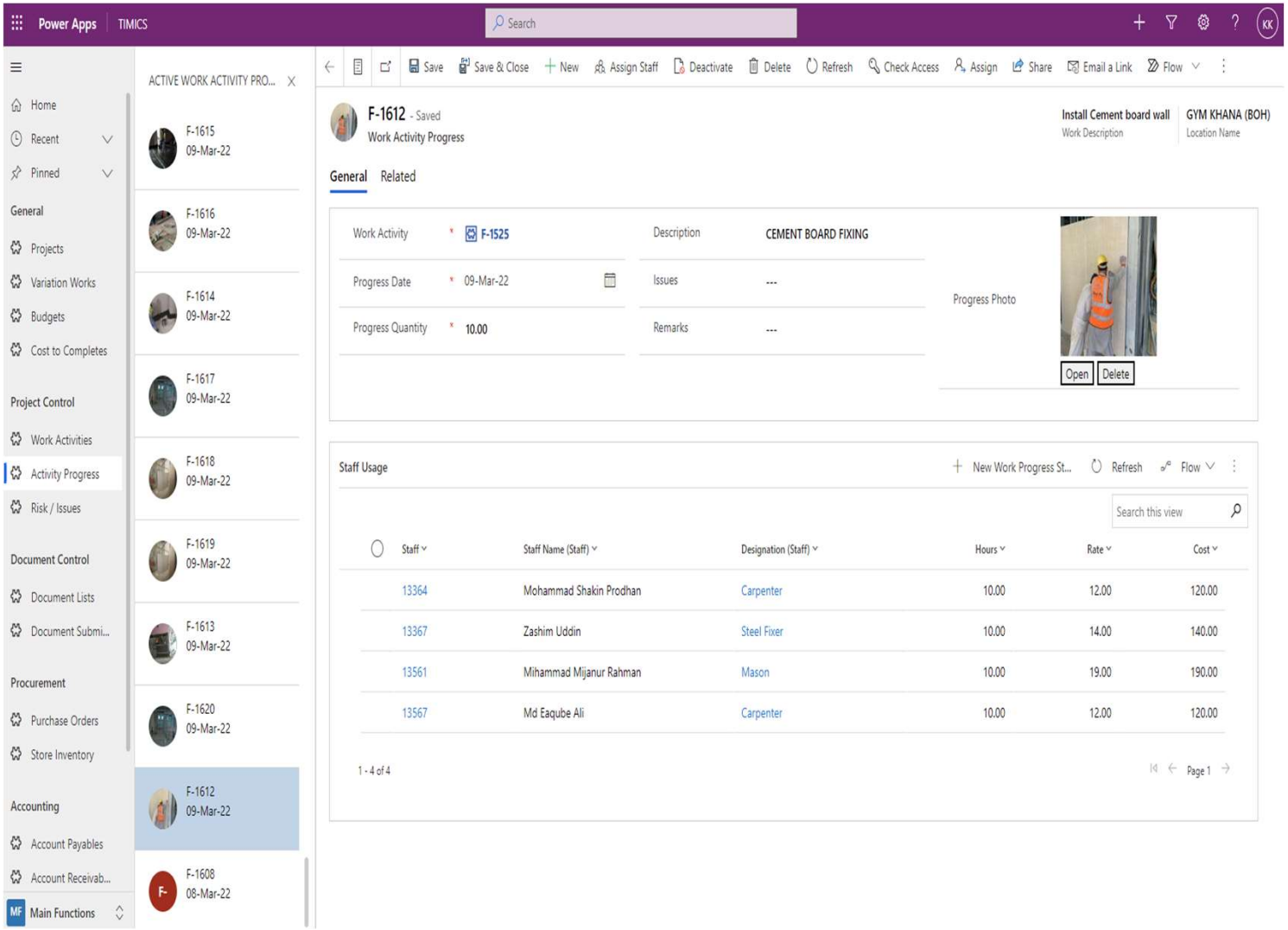
The Budgeting & Project Control Module Contd.

- BCWS (Budgeted Cost of Work Scheduled)
- BCWP (Budgeted Cost of Work Performed)
- ACWP (Actual Cost of Work Performed)
- VARIANCE%
- SPI (Schedule Performance Index)
- CV (Cost Variance)
- CPI (Cost Performance Index)
- BAC (Budget At Completion)
- EAC (Estimate at Completion)

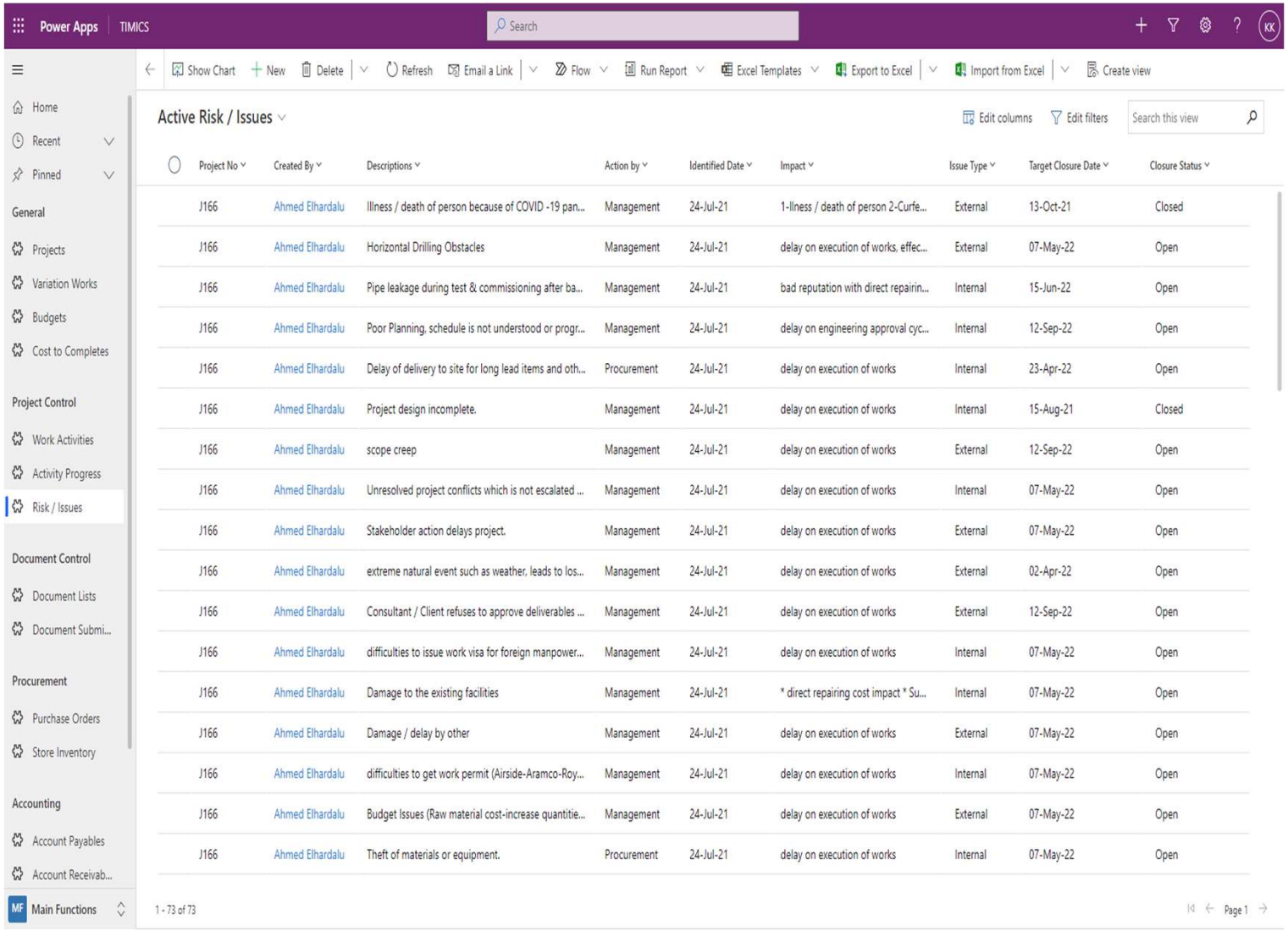


WBS Activities

Daily Reports

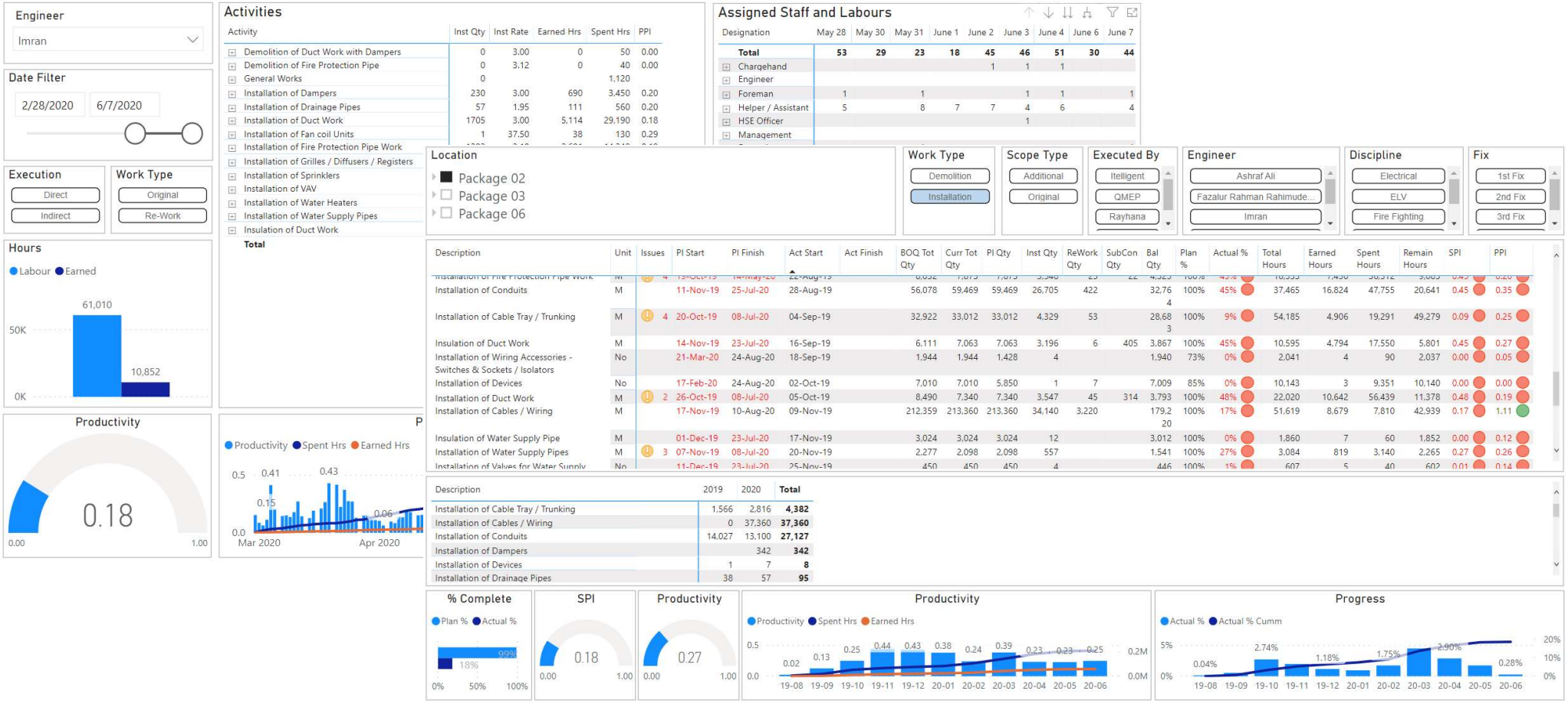


Issues & Blockers



Project No	Created By	Descriptions	Action by	Identified Date	Impact	Issue Type	Target Closure Date	Closure Status
J166	Ahmed Elhardalu	Illness / death of person because of COVID -19 pan...	Management	24-Jul-21	1-Illness / death of person 2-Curfe...	External	13-Oct-21	Closed
J166	Ahmed Elhardalu	Horizontal Drilling Obstacles	Management	24-Jul-21	delay on execution of works, effec...	External	07-May-22	Open
J166	Ahmed Elhardalu	Pipe leakage during test & commissioning after ba...	Management	24-Jul-21	bad reputation with direct repairin...	Internal	15-Jun-22	Open
J166	Ahmed Elhardalu	Poor Planning, schedule is not understood or progr...	Management	24-Jul-21	delay on engineering approval cyc...	Internal	12-Sep-22	Open
J166	Ahmed Elhardalu	Delay of delivery to site for long lead items and oth...	Procurement	24-Jul-21	delay on execution of works	Internal	23-Apr-22	Open
J166	Ahmed Elhardalu	Project design incomplete.	Management	24-Jul-21	delay on execution of works	Internal	15-Aug-21	Closed
J166	Ahmed Elhardalu	scope creep	Management	24-Jul-21	delay on execution of works	External	12-Sep-22	Open
J166	Ahmed Elhardalu	Unresolved project conflicts which is not escalated ...	Management	24-Jul-21	delay on execution of works	Internal	07-May-22	Open
J166	Ahmed Elhardalu	Stakeholder action delays project.	Management	24-Jul-21	delay on execution of works	External	07-May-22	Open
J166	Ahmed Elhardalu	extreme natural event such as weather, leads to los...	Management	24-Jul-21	delay on execution of works	External	02-Apr-22	Open
J166	Ahmed Elhardalu	Consultant / Client refuses to approve deliverables ...	Management	24-Jul-21	delay on execution of works	External	12-Sep-22	Open
J166	Ahmed Elhardalu	difficulties to issue work visa for foreign manpower...	Management	24-Jul-21	delay on execution of works	Internal	07-May-22	Open
J166	Ahmed Elhardalu	Damage to the existing facilities	Management	24-Jul-21	* direct repairing cost impact * Su...	Internal	07-May-22	Open
J166	Ahmed Elhardalu	Damage / delay by other	Management	24-Jul-21	delay on execution of works	External	07-May-22	Open
J166	Ahmed Elhardalu	difficulties to get work permit (Airside-Aramco-Roy...	Management	24-Jul-21	delay on execution of works	Internal	07-May-22	Open
J166	Ahmed Elhardalu	Budget Issues (Raw material cost-increase quantitie...	Management	24-Jul-21	delay on execution of works	External	07-May-22	Open
J166	Ahmed Elhardalu	Theft of materials or equipment.	Procurement	24-Jul-21	delay on execution of works	Internal	07-May-22	Open

Progress Dashboards

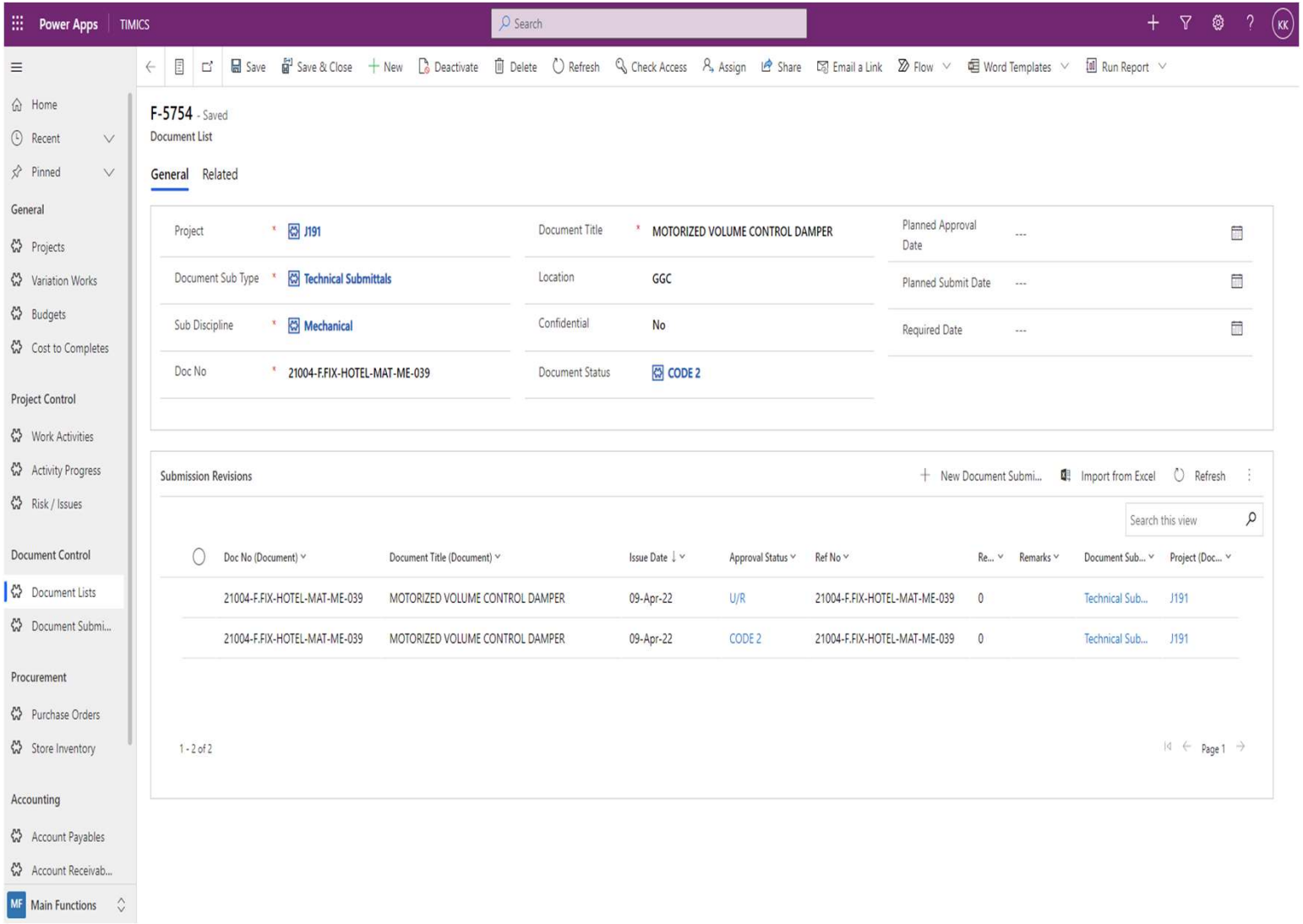


Document Control

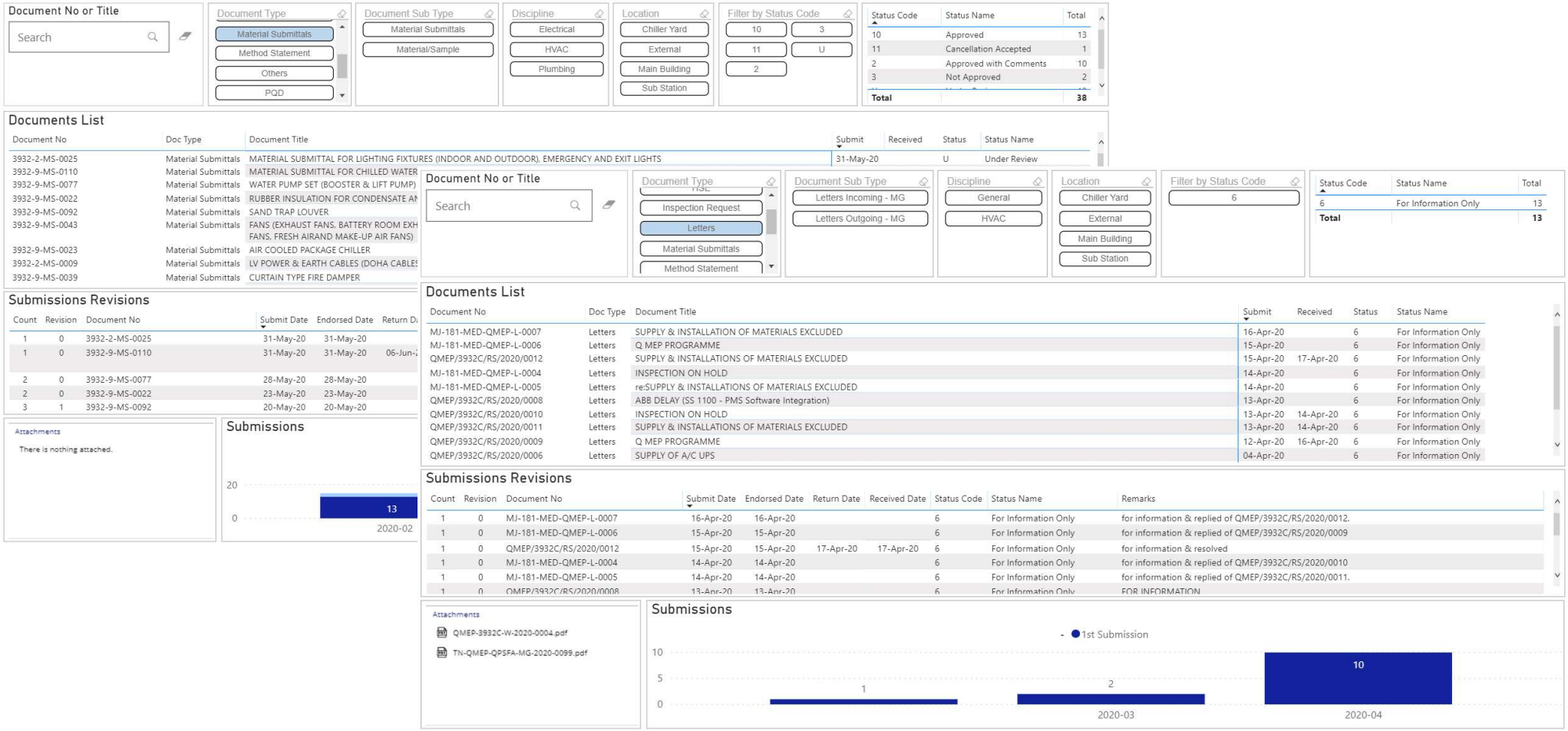
Manages and tracks engineering drawings and documents across their lifecycles, with complete visibility on dashboards & reports.

- Change and Revision Management, Maintains full revision history. Compares different versions of a document. Easily recovers previous versions if needed.
- Ensures that everyone works on the most up-to-date information with complete traceability.
- Collaboration via electronic reviews, commenting, approvals, RFI's, correspondences, and Transmittals.
- Work as a team making sure everyone is held accountable for their responsibilities and action items.

Document Control



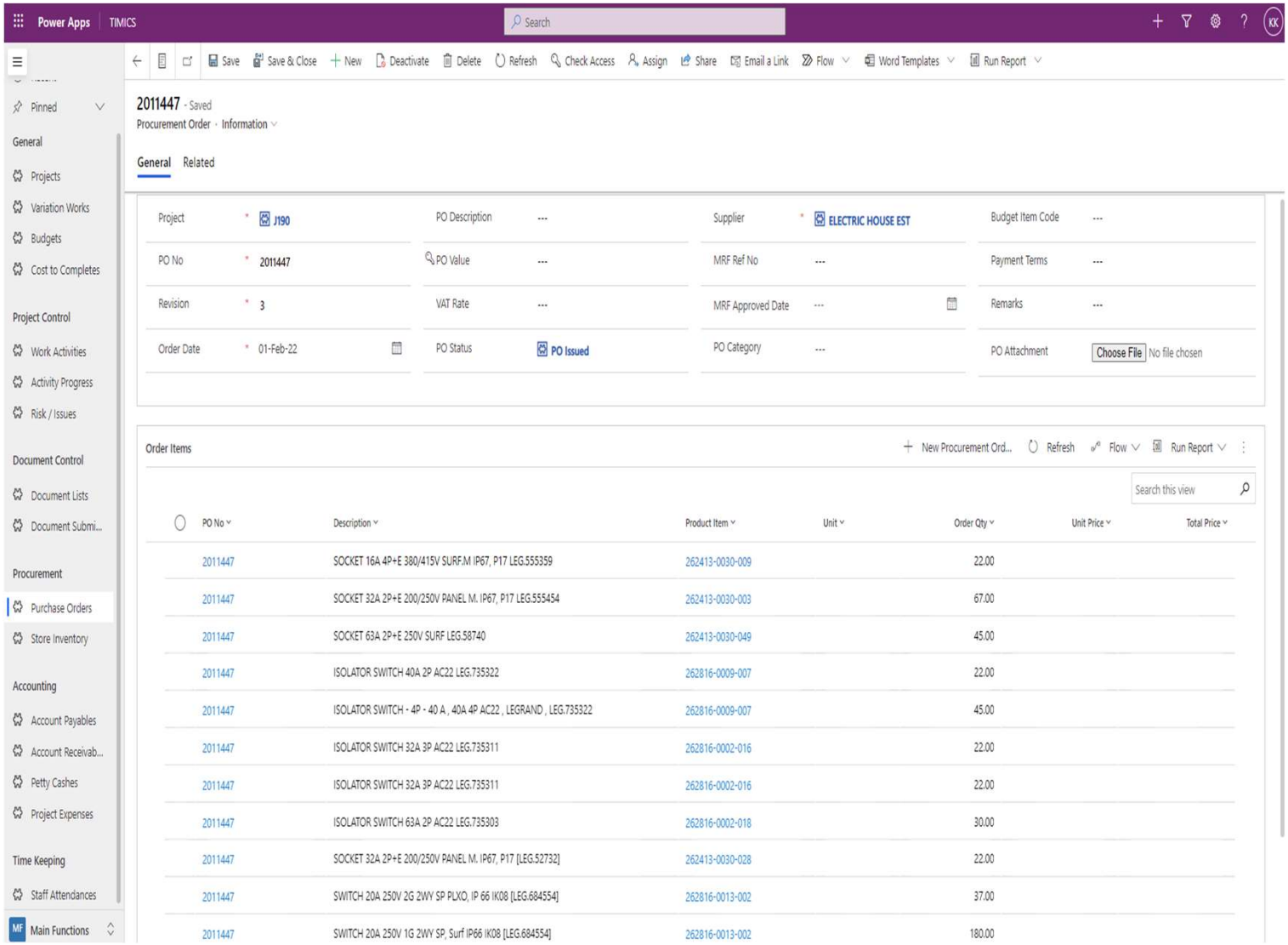
Documents Dashboard



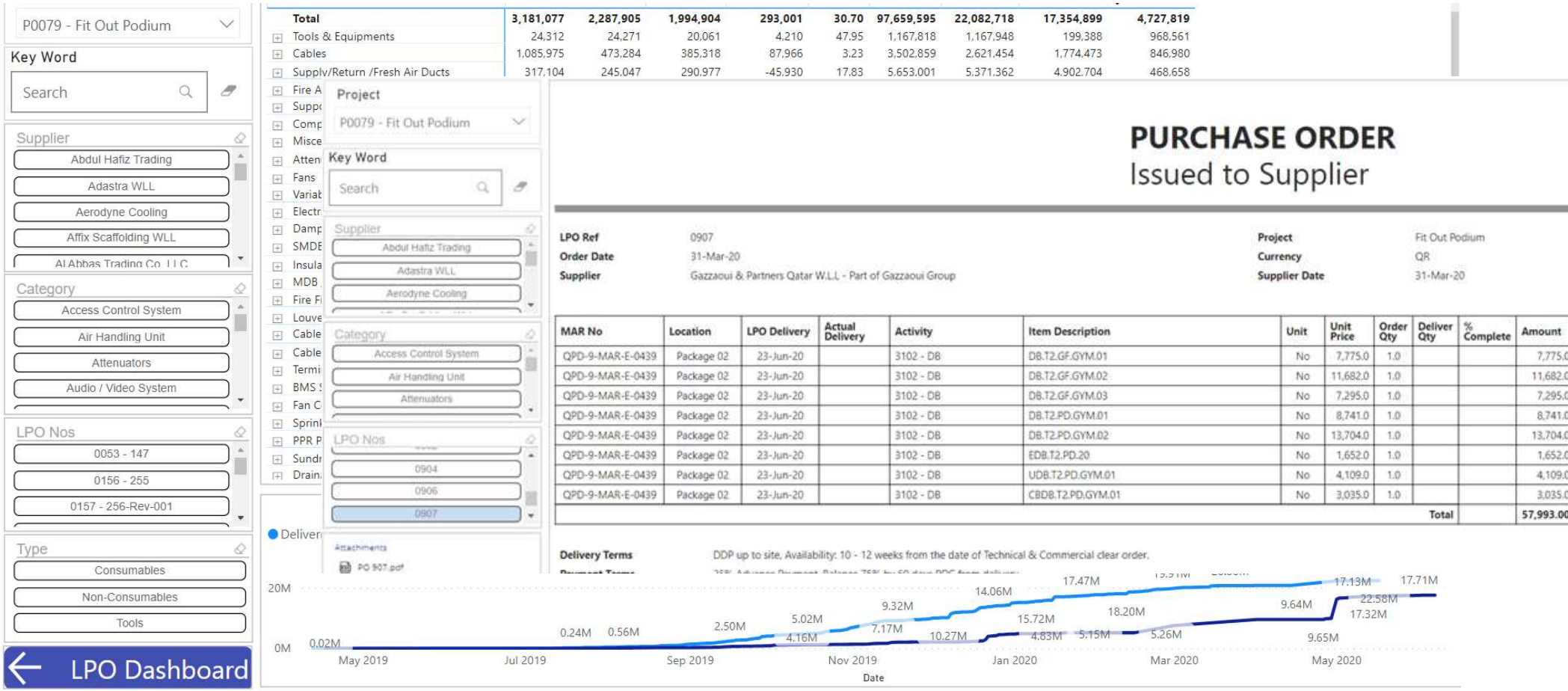
The Procurement Module

- It facilitates both Subcontractors and Materials Procurement.
- It enhances transparency and accelerates Purchasing and Procurement processes. Through the Material Request Form (MRF) or Site Requisition, Site and Procurement Engineers can directly associate their request to BoQ-WBS or Cost Codes, creating clarity to the Costing and Accounting departments.

Procurement



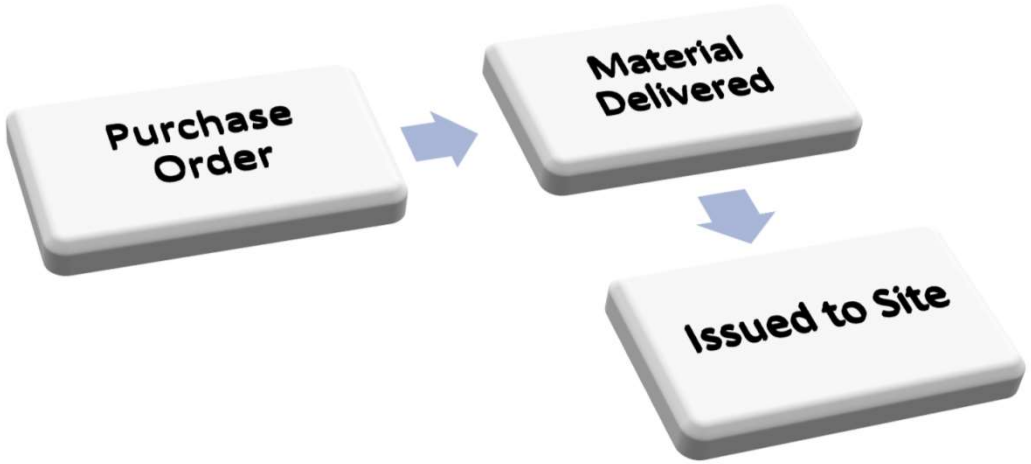
Procurement Dashboard



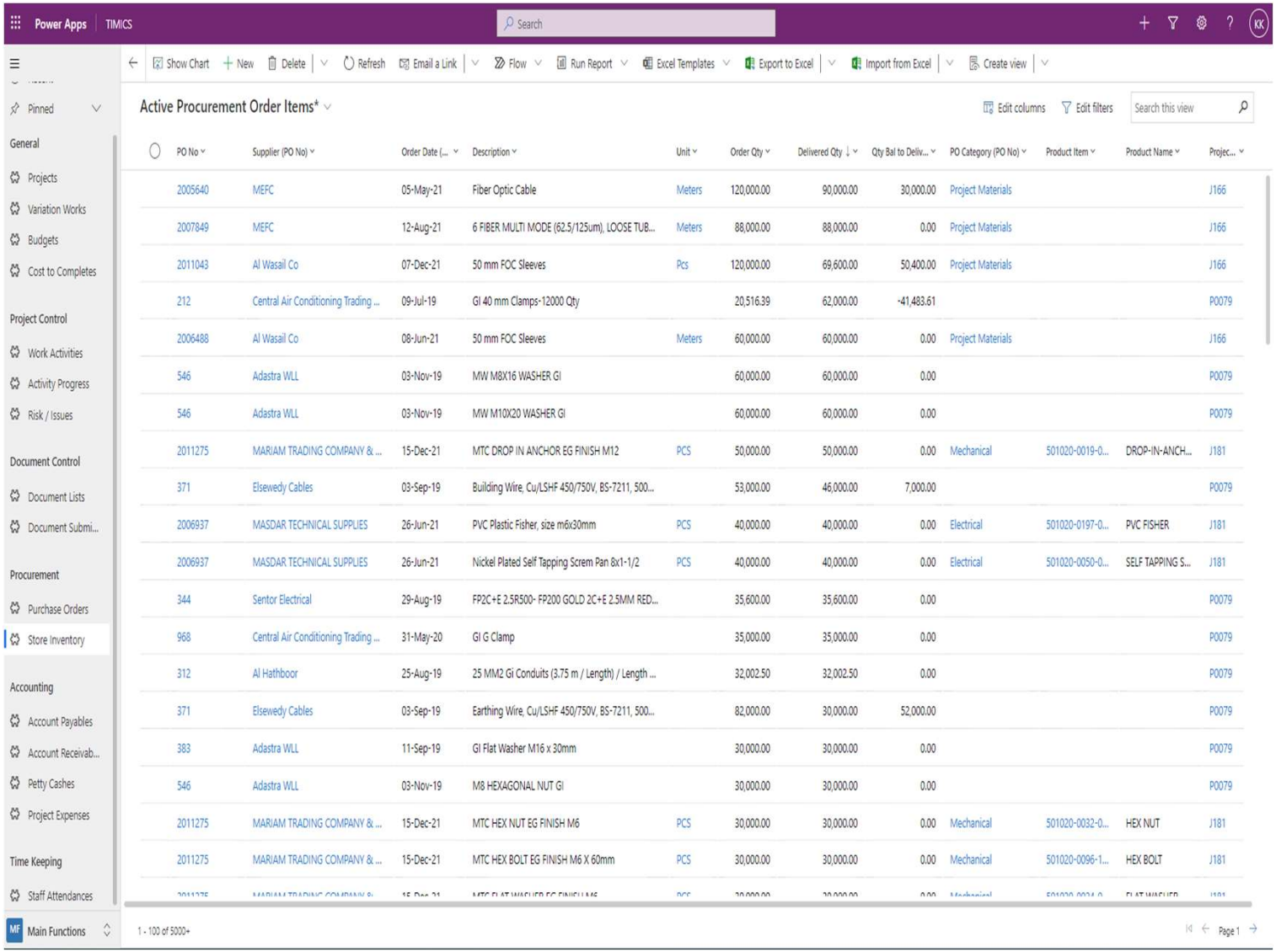
Materials Inventory Module

This module assures that all materials (items) are always associated to the Bill of Quantities, Work Breakdown Structures or Cost Codes. Tracking materials logistics starting from requisition to internal order, procurement and Purchase Orders (POs) requires a full control on orders and stock availability.

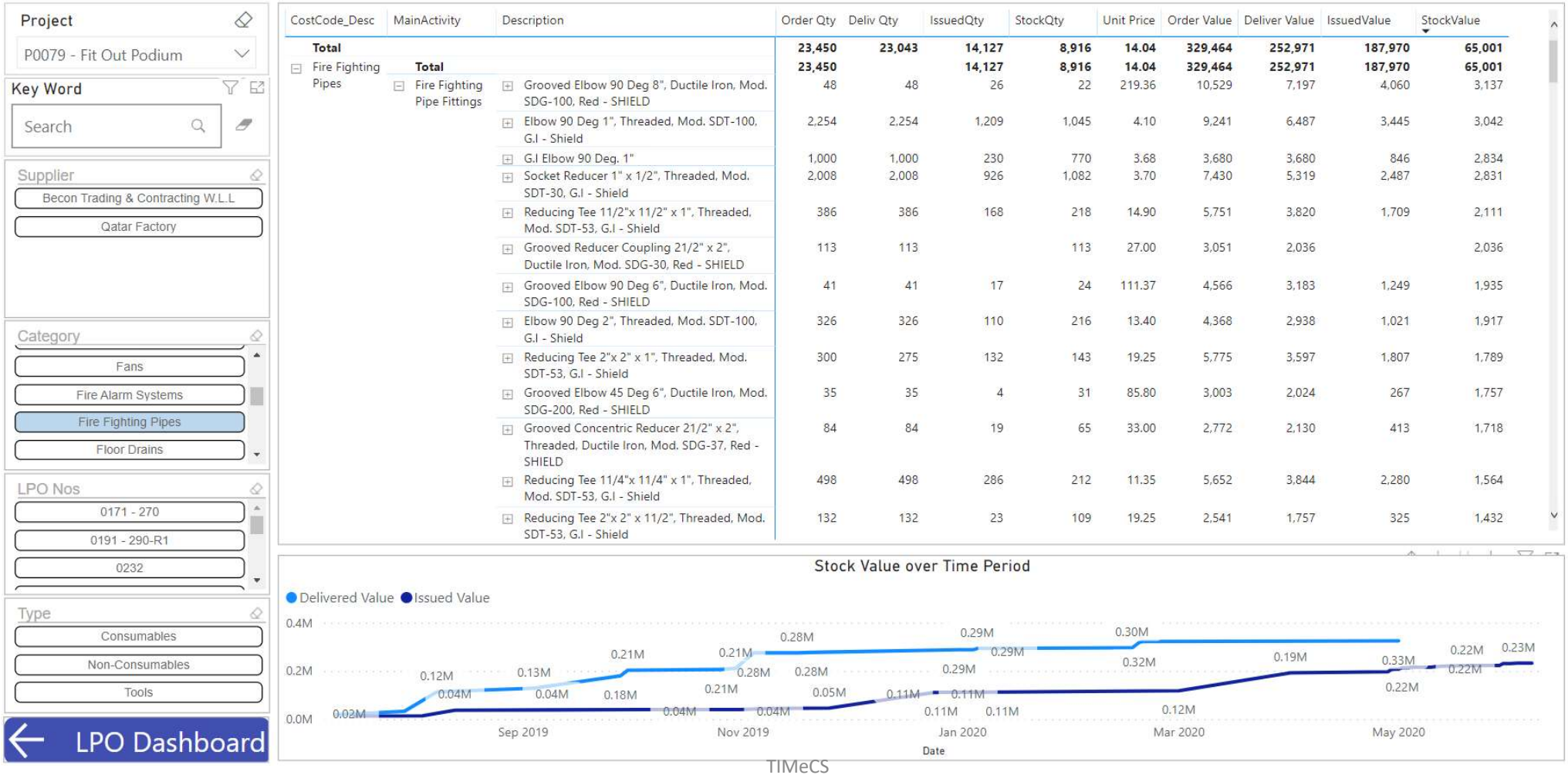
The Materials Module facilitates end-to-end tracking and materials handling and provides a full dashboard along with the necessary historical information.



Materials Inventory Module



Materials Inventory Dashboard

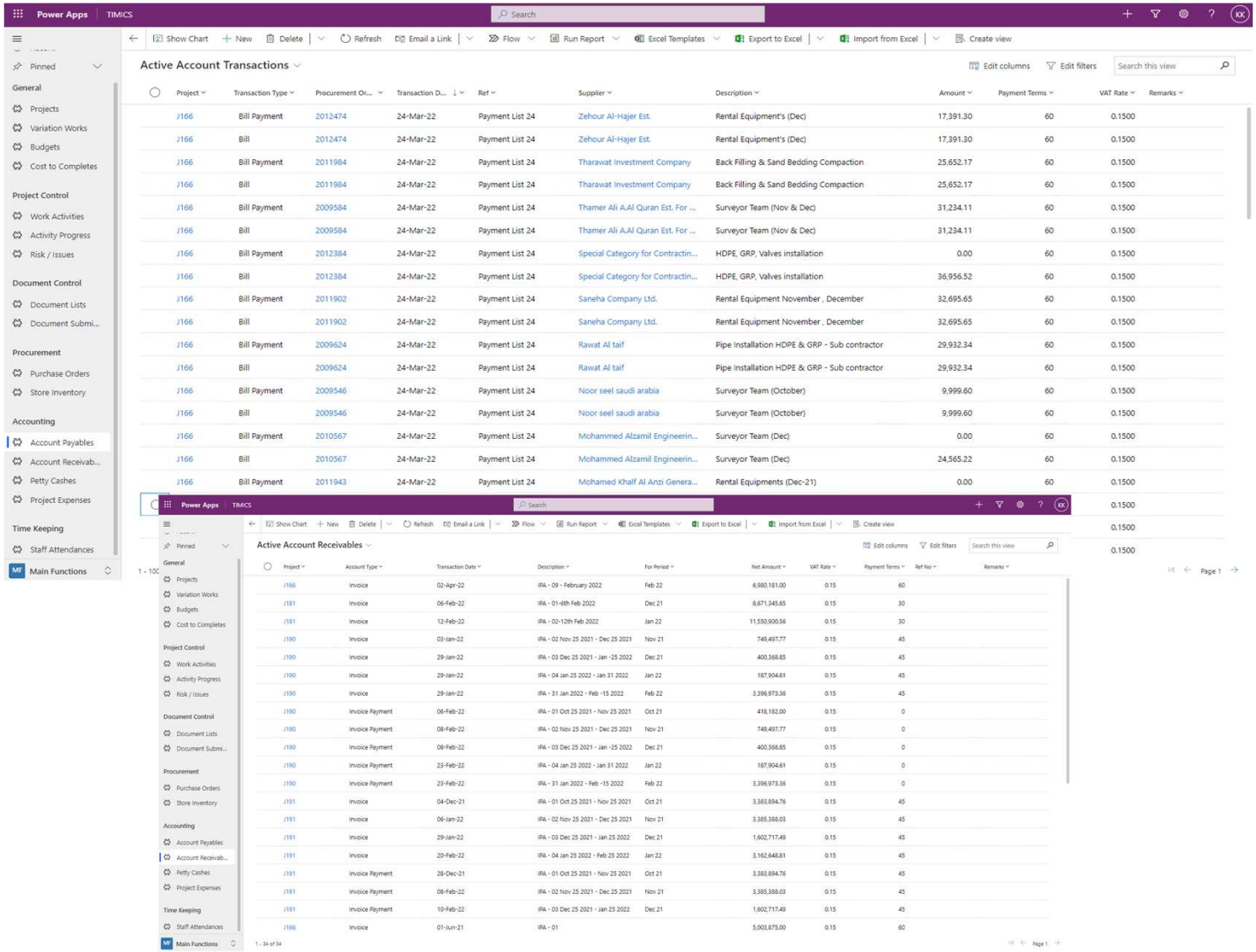


Accounting & Financials Module

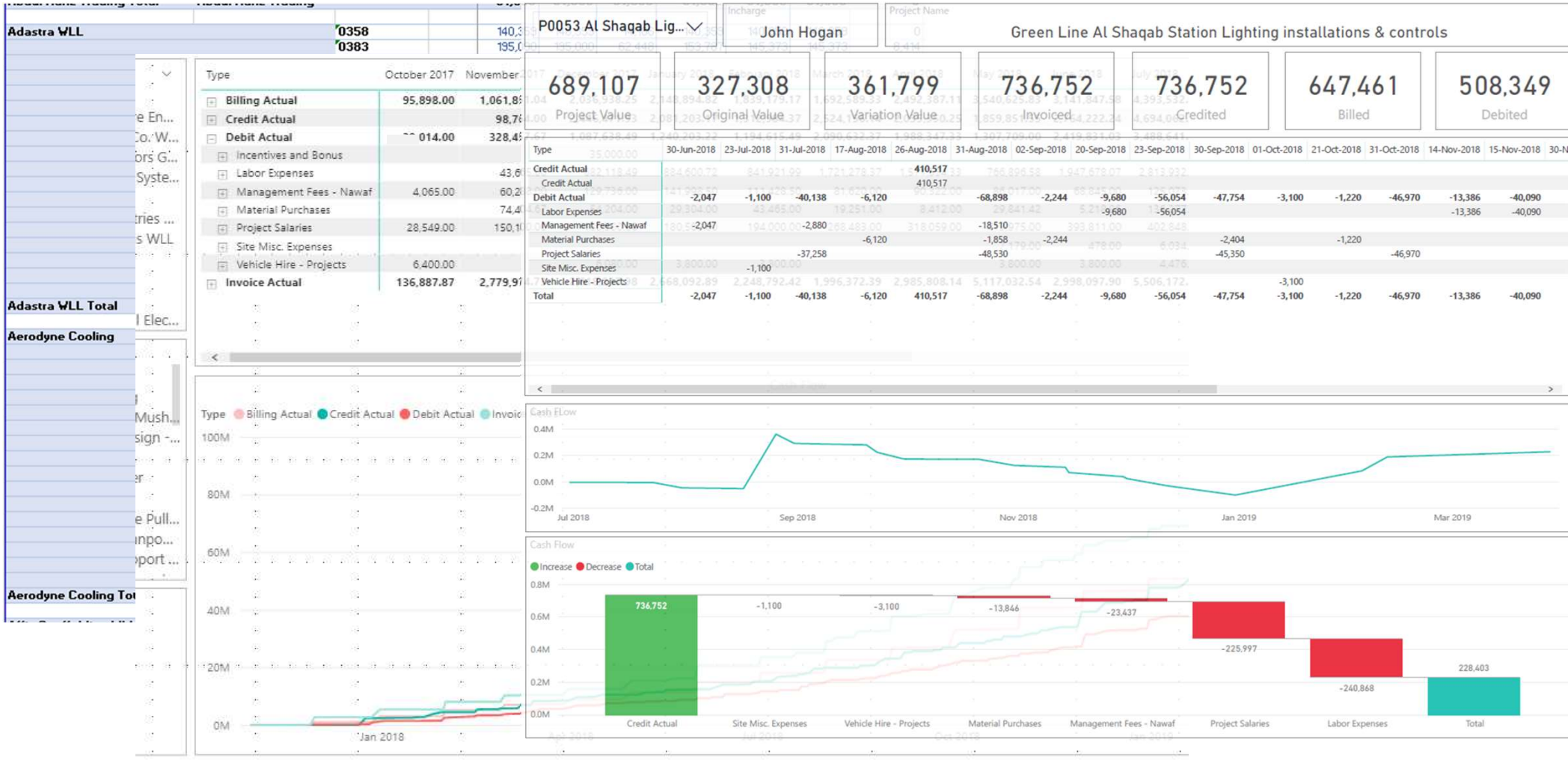
A multi-project module fully parameterized, multilevel Chart of Accounts with standard accounting entries with debit/credit for General Voucher transactions. Accounting and Cost Control are aligned as they refer to a Single Source.

The Supplier Accounts Payable Module includes all master data of vendors associated to many material categories and service types, incorporating a complete address book that includes the master data of each vendor to facilitate association per project and department. The Vendor financial card is credited automatically by invoices derived from inventory transactions and/or subcontractor specifications while debited automatically by payment of the invoices. The Customer Accounts Receivable Module includes all master data of Customers associated to projects.

Accounting & Financials

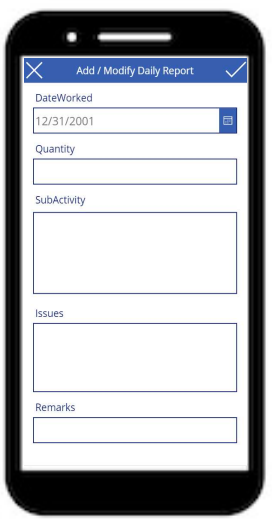


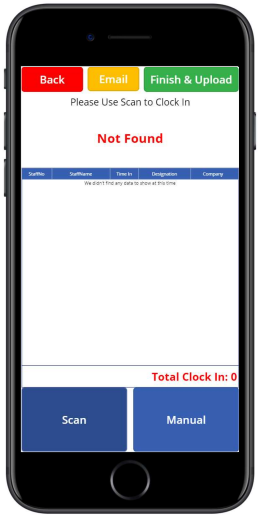
Accounting & Financials Reports

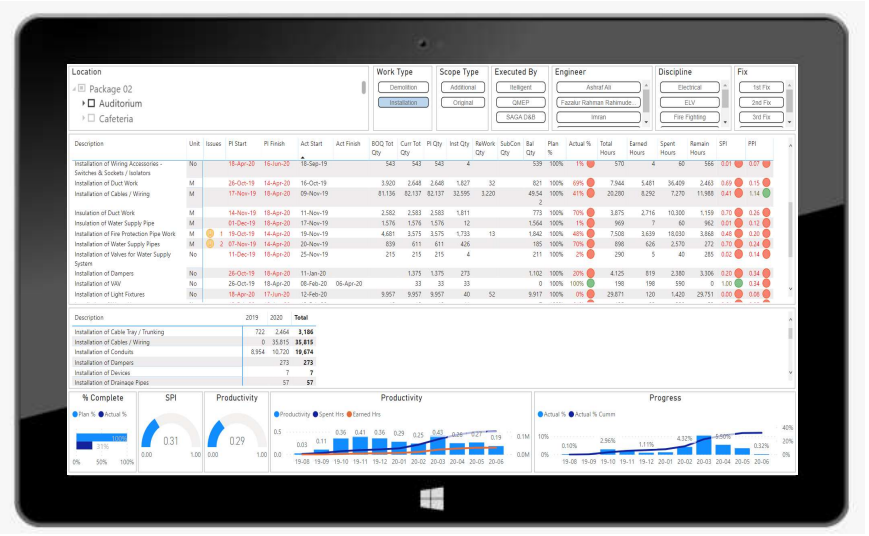


TIMeCS Mobility Solutions

- Field and Office Employees stay informed about the status and progress.
- Employees have access to the most relevant data.
- Real-time business decisions anytime and anywhere mean higher productivity.







Top 10 TIMeCS Competitors

Features	TIMeCS	Acconex	Procore	Monday	Oracle Aconex	Oracle Primavera P6	Basecamp	Microsoft Project	Liquid Planner	Teamwork ProjectS	CoConstruct	Wrike
Project Control	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓
Document Control	✓	✓	✓	✓	✓		✓					
Procurement	✓										✓	
Inventory	✓											
Accounts	✓										✓	
Time Tracking	✓		✓					✓			✓	
Cloud Based	✓		✓	✓	✓		✓		✓	✓	✓	✓
Construction Projects Focused	✓		✓			✓		✓			✓	
Customized Project Support	✓											
Customizeable to Client Needs	✓											
Support Data Migration (Excel Import/ Export)	✓											
Customized Dashboards	✓											
Unified Reports	✓											
Risk Management	✓											
Earned Value Management	✓											
Scope and Change Management	✓											
Field Productivity	✓											
Artificial Intelligence	✓											
Extension of Time	✓											

TIMeCS Competitive Analysis

App Name	Project Control	Document Control	Procurement	Inventory	Accounts	Time Tracking	Cloud Based	Construction Projects Focused	Customized Project Support	Customizeable to Client Needs	Support Data Migration	Customized Dashboards	Unified Reports	Risk Management	Earned Value Management	Scope and Change Management	Field Productivity	Artificial Intelligence	Extension of Time
TIMeCS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Deltek	✓				✓		✓												
Freedcamp	✓						✓												
Clockify						✓	✓												
Lucidchart						✓	✓												
My Hours							✓												
Agile CRM	✓	✓	✓	✓	✓	✓	✓												
Easy Projects	✓						✓												
Lumeer	✓						✓												
MeisterTask	✓						✓												
Wrike	✓						✓												
Celoxis	✓				✓	✓	✓												
Bitrix24	✓						✓												
Toggl Plan	✓						✓												
Asana	✓						✓												
Deltek Vision	✓		✓	✓	✓		✓												
Easy Project	✓					✓	✓												
Workiom	✓	✓					✓												
Basecamp	✓	✓					✓												
Liquid Planner	✓						✓												
Microsoft Project	✓					✓		✓											
Teamwork ProjectS	✓						✓												
Procore	✓	✓				✓	✓	✓											
CoConstruct	✓		✓		✓	✓	✓	✓											
Bluebeam	✓	✓			✓	✓	✓	✓											
Fieldwire	✓	✓					✓												
PlanGrid	✓	✓					✓												
Joist					✓		✓												
Smart sheet	✓	✓	✓	✓	✓		✓												
Monday	✓	✓					✓												
Instagantt	✓						✓												
TeanGantt	✓						✓												
Oracle Aconex		✓					✓												
Oracle Primavera Cloud	✓					✓	✓	✓											
Oracle Texture payment					✓	✓	✓												
Oracle Unifier	✓						✓												
Oracle Primavera P6	✓							✓											
Jonas Premier	✓	✓			✓	✓	✓	✓											
Sage 100 Contractor	✓				✓	✓	✓												
Contractor Foreman	✓	✓			✓		✓												
FreeAgent					✓		✓												
Jonas Enterprise	✓						✓												
RedTeam	✓	✓			✓	✓	✓												
Things 3 for iOS	✓						✓												
Google Calendar	✓						✓												
Any.do	✓						✓												
Fantastical2	✓						✓												
Active Collab	✓					✓	✓												
Proprofs Project	✓						✓												
Assembla							✓												
Binfire.com	✓	✓				✓	✓												
Mavenlink	✓				✓		✓												
Nimble	✓						✓												
Nutcache	✓				✓	✓	✓												
One Desk	✓					✓	✓												
Open Project	✓					✓	✓												
Plan.iO	✓	✓				✓	✓												
Planzone	✓	✓				✓	✓												
Project QtOr	✓						✓												
ProofHub	✓						✓												
Redmine	✓					✓	✓												
Stopilo	✓						✓												
Teamwork	✓					✓	✓												

TIMeCS SWOT Analysis

SWOT	TIMeCS
STRENGTHS	• **TIMeCS** is Easily Adaptable and Configurable • **TIMeCS** is User friendly, Real Time Live Data Platform • **TIMeCS** is a Cost Effective ERP / Oracle Like Solution • **TIMeCS** Streamlines Business Decisions • **TIMeCS** is a fully Integrated Business Suite • **TIMeCS** Provides Effective Management Control • **TIMeCS** Ensures Projects to be in Control • **TIMeCS** has an AI engine which streamlines processes and reduces human efforts/errors • **TIMeCS** operates on highly secured Microsoft Servers where Data is stored. • **TIMeCS** helps increase Project and Business Profitability
WEAKNESSES	Relatively new entry into a highly competitive Market
OPPORTUNITIES	• Few Products provide solutions like **TIMeCS** with substantial cost savings • Unlimited Market potential due to **TIMeCS** being applicable and configurable to any Industry • User low operational cost facilitating market penetration
THREATS	• Loss of Intellectual Property

Claims / Variations / EOT

Claims and change orders are an integral part of a project's risk portfolio. A claims and counter claims ready project facilitates a pre and post contract administration and management best practices implemented in full. Such readiness prevents, mitigates, and enables a quick turnaround increasing chances for a positive outcome.

TIMeCS enables a project to be claim-ready. All related documentation required for a claim are available in **TIMeCS**.

- Project Documents
- Daily Reports
- Request for Information (RFIs)
- Submittals
- Non-Compliance Reports NCRs
- Change Orders / Variations
- Interim Progress Applications
- Project Schedules

Claims / Variations / EOT

The Most important aspect for good contract management is Records because of it is not written down it didn't happen, In **TIMeCS** all project records are stored.

Claims are often complex and using the **TIMeCS** platform it is easier for the Project Team or any third-party claim consultant to access the information needed for the claims, which usually could take days.

Current TIMeCS Activities and Success Metrics

- Real World Hands on Operational testing ongoing for 7 months successfully with a construction/MEP entity having 120 users
- Currently configuration ongoing with Le Mirage Company (a business sector of “Sharaka Holding” in Qatar to be implemented on site shortly for 20 users.

Qualitative and Quantitative Metric Analysis

Qualitative:

- Real time data project snapshot facilitated correct decisions, as the labor KPI was being monitored in real time, so management was able to take correct decisions to improve it timely which save them money using **TIMeCS**.
- Real time Daily reports feedback in **TIMeCS** has helped the management pick up the variations / scope change more accurately and timely.

Quantitative:

- Project Staff was able to **find the right document 30% faster** as they were readily available and accessible in **TIMeCS** on any device.
- Progress Reports generated by **TIMeCS** the **accuracy and efficiency increased by 40%** as the data was available real time and organized as required.
- Project **Billing generated 20% faster** than before using **TIMeCS** system.
- **Variation / Change Orders generated 30% quicker** than before.
- **Site staff efficiency increased 20%**, being more organized, as all information being available to them using **TIMeCS**.
- **5% delivery timeline of project task improved,** by using **TIMeCS** due to constant follow-ups and right information being available to management.

TIMeCS KEY TAKEAWAYS

TIMeCS provides Management control for Decision Making with full Transparency and Accountability.

TIMeCS is adaptable & Configurable for a full spectrum of industries and business sectors.

TIMeCS is a real time snapshot of a Project's or Business's performance over a period along with forecasting capabilities.

TIMeCS streamlines processes and expedites the generation of Change Management and Claims capabilities.

TIMeCS is cost effective for use to all companies regardless of size.

TIMeCS reduces project cost by a more efficient utilization of resources and reduction in human error.

TIMeCS increases project profitability by reducing delivery timelines.

TIMeCS improves intra-project communication with well defined roles and responsibilities.

TIMeCS provides, tracking, Traceability and Accountability

TIMeCS

Totally Integrated Management enterprise Control System

TIMeCS *The Better Cost-Effective Alternative*

TIMeCS *leading the Project to Profitability*