

# 1 Project Tracking Solution

The project tracking solution is a fully integrated solution that was developed to produce a complete solution for monitoring entities' different projects with their attached details. The Project Tracking solution manages and monitors the different levels of business work volumes starting with the program to the project, and ending with the project's activities.

It specifies the needs of the office users to display all project information, and monitor alerts and notifications about project status, in addition to the capability to integrate with multiple systems.

The following diagram presents the Project Tracking components. The solution consists of three main parts that start from the data sources that the solution integrates with and ends with the executive dashboards that will be presented in front of the decision-makers or the higher management levels.

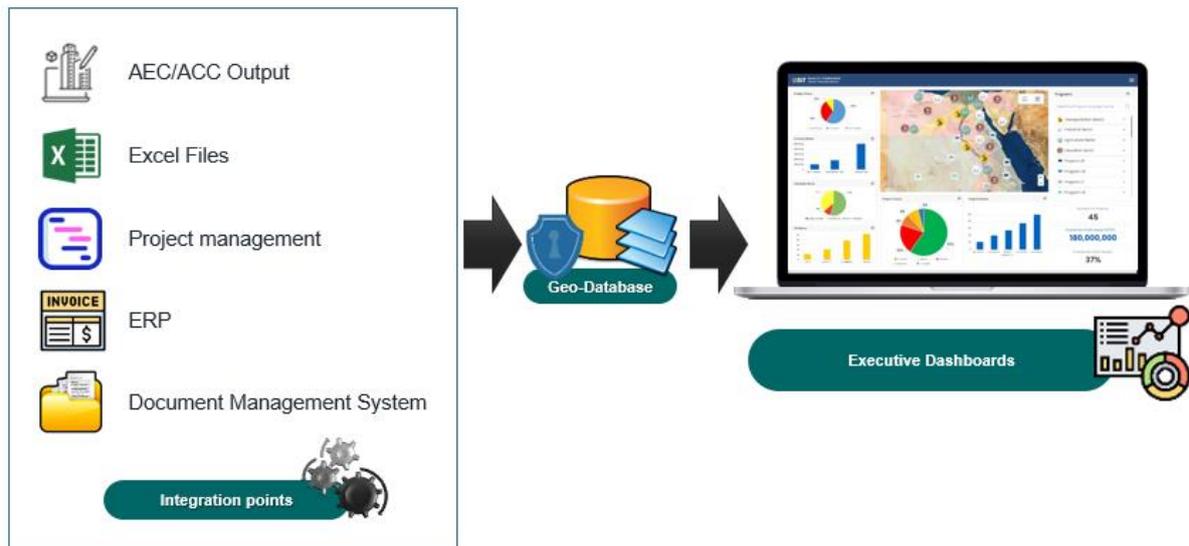


Figure 1: Overview of Project Tracking

Regarding the integrated systems, Project Tracking enables integration with several systems such as the following;

- MS Project, Primavera, and MS Excel
- ERP Systems (SAP, CRM, HR, People Engagement, supply and chain management, Accounting and financial close, etc.)
- DMS
- Geodatabase

The integration is designed to get the project's information such as the assigned resources, work activities, costs, budget, invoices, payrolls, payments, schedule, risks, issues, change requests, etc.

The project tracking has two main applications; Map Viewer and executive dashboard. The following sections provide all the details about these two applications separately.

## 1.1 Map Viewer

The map viewer is a complete spatial view for all the integrated projects. The purpose of that viewer is to discover the spatial distribution and pattern of the projects. Moreover, each project has its data associated and can be viewed by selecting any of the projects. Each project has four main statistical viewers that show the details of cost, schedule, work progress, and attachments.

It enables the user to display project information, the total budget, and the locations of the activities affiliated with the project. It enables the user also to send and receive alerts and notifications about the project progress, changes in cost, phases in each project, attaching key related documents about each project, classify projects according to multiple factors, and generate reports about each project.

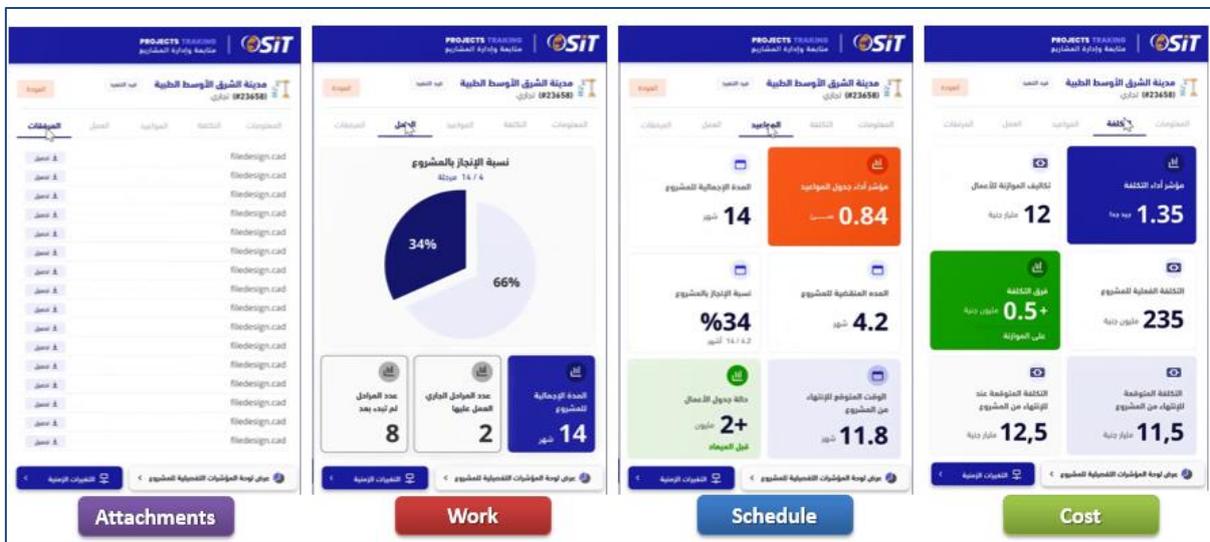


Figure 2: Monitoring Projects Progress

## 1.2 Executive Dashboard

Projects Dashboard provides a comprehensive summary view, holistic view for all projects, in addition to a detailed for the running projects. The executive dashboard enables users to monitor various indicators that cover net profit margin per project and overall net profit margin, Schedule Performance Index (SPI), and the number of projects per phase. The executive dashboard also enables users to follow up projects per budget, schedule, and status, compare issued with non-issued invoices value, and compare Paid with non-paid invoiced value, along with map classification, filtration, and navigation tools.

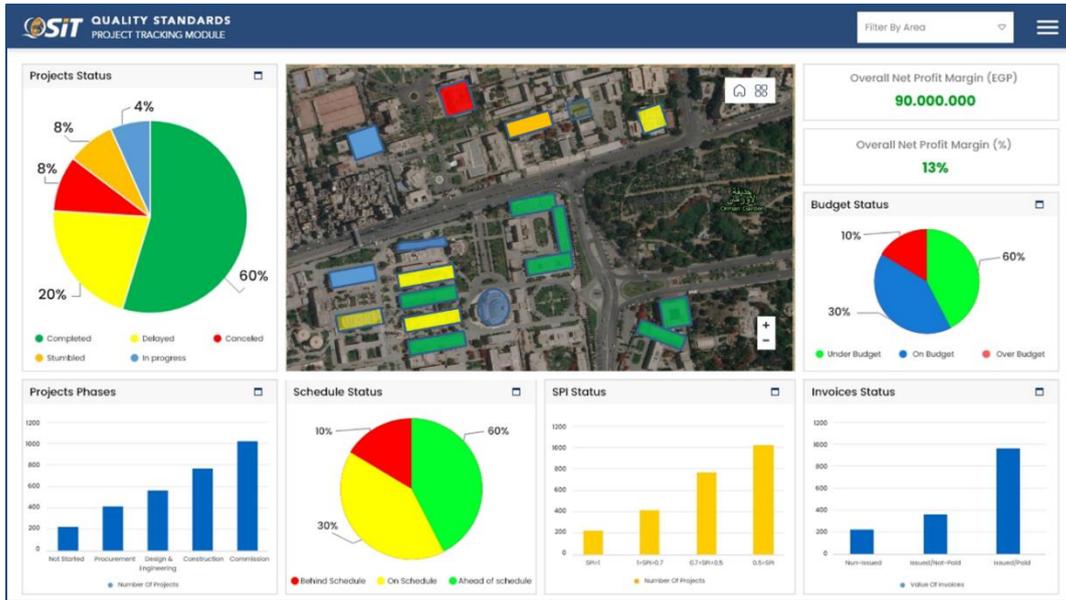


Figure 3: Example of the Executive Dashboard

### 1.3 Administration Module

This module is responsible for the access control, data management, function management, and notifications/alerts configuration management beside managing roles, groups and roles assignments.



Figure 4: Administration Module

The System Administrator is responsible for configuring queries, alerts, notifications, and managing report's templates. The System Administrator also manages different users; DB users, mobile users and LDAP users, and has the capability to view users' logs.