e-Builder Enterprise™ Solution Overview

Core and Modules Descriptions

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INTRODUCTION

The e-Builder Enterprise single data source is presented as a modular system which is supported with a set of core functionality used across all modules. The core is the e-Builder Enterprise Foundation and includes Document Management, Contact Management, Calendar Management, e-Builder Mobile, Security and Collaboration tools. The modules e-Builder Enterprise offers are Capital Planning, Cost & Funding Management, Submittals Management, Process Management, Schedule Management, Time Tracking, Bid Management, Building Information Modeling (BIM) and embedded Reporting/Dashboards and Business Intelligence tools.

Following is a summary of the e-Builder Enterprise Foundation and Modules. All Modules are included, and clients only implement the modules needed.

E-BUILDER ENTERPRISE FOUNDATION AND MODULES

INTEGRATED REPORTING AND DASHBOARDS

Managing your key project information is only part of the e-Builder Enterprise benefits. The ability to easily find, extract and report on information to help you and your project stakeholders make informed decisions is yet another important benefit. e-Builder Enterprise provides a powerful, yet easy-to-use reporting engine that gives you control over how you view your data without requiring third-party applications or programming knowledge.

Use any of the 120+ pre-defined reports or create an unlimited number of new reports based on your specific reporting needs. Automatically push reports to your project stakeholders, especially those that only require periodic updates. For instance, you can schedule email reports to individuals and groups at predefined intervals (e.g., daily, weekly, monthly).

Fully configurable executive dashboards provide a graphical representation of your project and program data using the charts, graphs and gauges you configure. These provide excellent visibility into the status of your projects and program key performance indicators. You can configure dashboards for individual use or distribute across your entire organization.
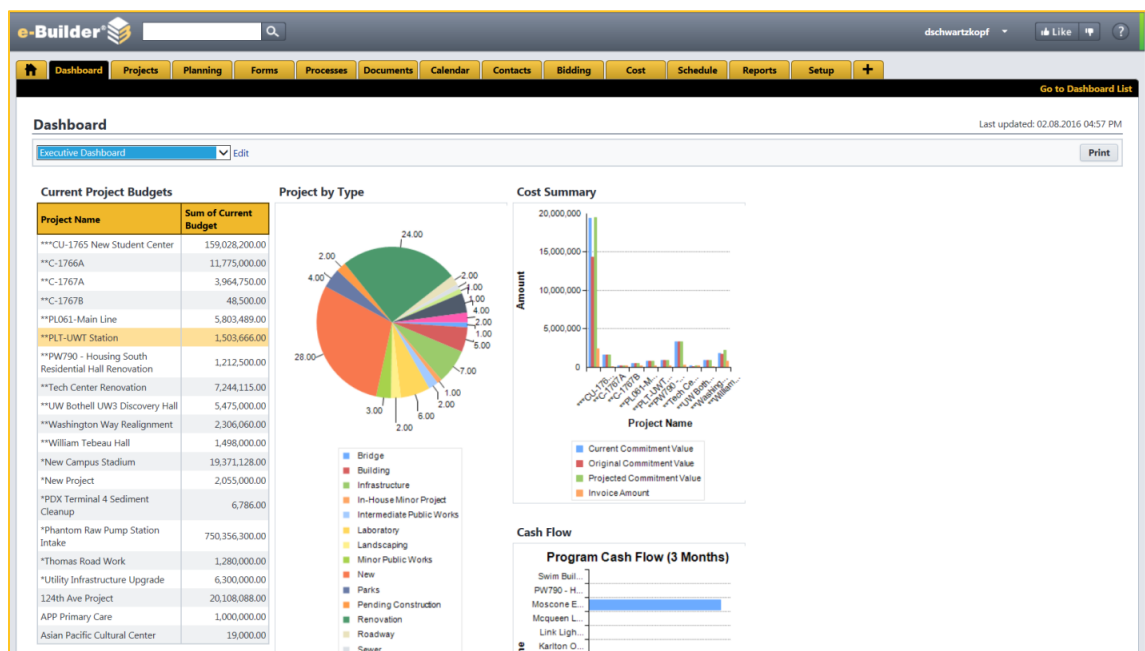
Powerful e-Builder Enterprise Dashboards Keep Everyone Informed

e-Builder Enterprise Cost Management provides financial control and audit features in a secure environment to help you improve how you manage your budgets across one project or your entire capital program. Create and track budgets during planning or construction, and conduct budget reviews, change management and approvals online. Quickly identify past, current and future costs, commitments and changes as a project progresses. Forecasting features enable you to accurately predict the cost-to-complete and cash flow needs to avoid unpleasant surprises.

The Cost Management module also provides you with cost summaries across one or multiple projects with a couple of mouse clicks. Drill-down capabilities give you access to even more details. Information can be viewed in many different ways (e.g., by vendor, by project type, etc.). Used in the project planning phase, e-Builder Enterprise acts as a budget creation and project prioritization tool allowing you to use completed project data to develop accurate budgets.

From planning to payments, e-Builder Enterprise funding management provides both the tools and visibility necessary to easily and accurately manage all your funding sources, as well as their complex distribution rules. You can define consistent funding assignment rules and usage requirements, automatically track and distribute funding against budgets or commitments, easily monitor your funding balances as you incur actual costs, and quickly report accurate funding status to your stakeholders. Funding controls ensure you never over budget, over commit or over spend your funding again.

Line Item	Description	A Original Budget *	B Pending Budget Changes *	C Projected Budget Changes *	D Current Commitments *	E Pending Commit Changes *	F Projected Commit Changes *	G Actuals Received *
0001	Legal & Administration	511,000.00	0.00	2,000.00	0.00	0.00	0.00	0.0
0001.0111	Legal Fees	220,000.00	0.00	0.00	0.00	0.00	0.00	0.
0001.0112	Administrative Fees	216,000.00	0.00	2,000.00	0.00	0.00	0.00	0.
0001.0113	Printing and Shipping	75,000.00	0.00	0.00	0.00	0.00	0.00	0.
0002	Pre-Construction Services	22,490,000.00	0.00	0.00	1,682,000.00	0.00	0.00	0.0
0002.0200	Feasability	18,500,000.00	0.00	0.00	0.00	0.00	0.00	0.
0002.0201	Survey and Mapping	1,200,000.00	0.00	0.00	0.00	0.00	0.00	0.
0002.0202	Pre-Construction Consultant	990,000.00	0.00	0.00	1,682,000.00	0.00	0.00	0.
0002.0203	Entitlement	1,800,000.00	0.00	0.00	0.00	0.00	0.00	0.
0003	Design Services	1,785,000.00	0.00	0.00	1,790,500.00	20,000.00	0.00	171,767.0
0003.0300	Conceptual Design Fees	505,000.00	0.00	0.00	505,500.00	0.00	0.00	39,344.
0003.0301	Design Fees	900,000.00	0.00	0.00	905,000.00	0.00	0.00	15,000.
0003.0302	Design Reimbursables	140,000.00	0.00	0.00	140,000.00	0.00	0.00	94,000.
0003.0303	Design Consultant	240,000.00	0.00	0.00	240,000.00	20,000.00	0.00	23,423.
0004	Construction	90,730,000.00	0.00	0.00	24,714,764.20	0.00	28,300.00	2,160,857.
0004.1001	General Construction	90,650,000.00	0.00	0.00	24,386,764.20	0.00	28,300.00	2,157,757.
0004.1002	Project Management Charges	80,000.00	0.00	0.00	328,000.00	0.00	0.00	3,100.
0005	Site Conditions	26,900,000.00	0.00	0.00	25,000.00	15,000.00	500.00	3,500.0
0005.5050	Basic Metal Materials and Methods	25,000.00	0.00	0.00	25,000.00	15,000.00	500.00	3,500.
0005.5800	Expansion Control	1,900,000.00	0.00	0.00	0.00	0.00	0.00	0.
0007	Environmental Services	495,000.00	0.00	0.00	15,000.00	0.00	0.00	4,500.0
	Totals	159,028,200.00	0.00	2,000.00	29,777,264.20	45,000.00	28,800.00	2,462,624.

Drill into Budget Line Items with e-Builder Enterprise

The e-Builder Enterprise Processes module is a sophisticated workflow engine that puts you in control of your processes. With the Processes module, you can define step-by-step processes that mirror and enforce your organization's policies and procedures.

Your project administrators will appreciate how easy it is to create and configure workflow processes using the graphic Workflow Designer tool. Electronic processes enable, you to capture and route information based upon the business rules you define. For instance, route an item to an individual or a

group and set rules that permit a specific action to be taken. Actions taken can initiate other workflows, including documents, forms, schedules, cost approvals and more. Processes can be standardized across your entire program, or on an individual project by project basis.
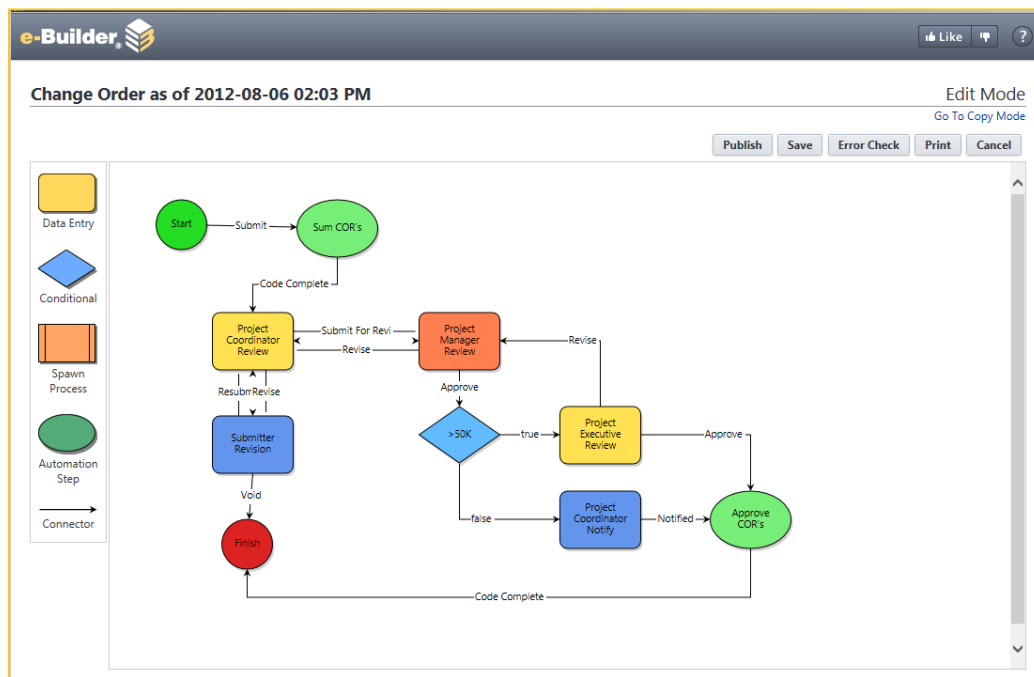

Easy to Use e-Builder Workflow Designer

The Forms module is also a powerful workflow engine that extends the power of the Processes module by allowing the users to drive the process. Forms are often used when a highly controlled process is not needed or when the process is not well defined. Forms can be used as a starting point to test and refine your processes and still achieve the benefits of tracking and reporting. These forms can then be used to help map your defined process and moved into the Processes module.

DOCUMENT MANAGEMENT

e-Builder Enterprise Documents Management serves as the central repository for all your project files, including documents, drawings, photographs, BIM files, CAD drawings and more. Documents Management will help ensure stakeholders work off the most current file versions and collaborate using the integrated markup tools. Project teams benefit from improved communications, faster data exchange and improved collaboration by accessing files from one secure location. e-Builder Enterprise tracks and records all activities (e.g., upload, view, download, email) occurring in the system.

Built-in version control automatically renames documents and files upon transfer and automatically generates a copy of the previous version(s). View more than 125 file types in e-Builder Enterprise using the integrated viewer without needing the application that created the file installed on your computer. You can preview and markup a PDF version of the original, without altering the original file. E-mail and fax (in and out) capabilities and complete integration with the modules provides users with additional collaboration and communication options that promote use and adoption.
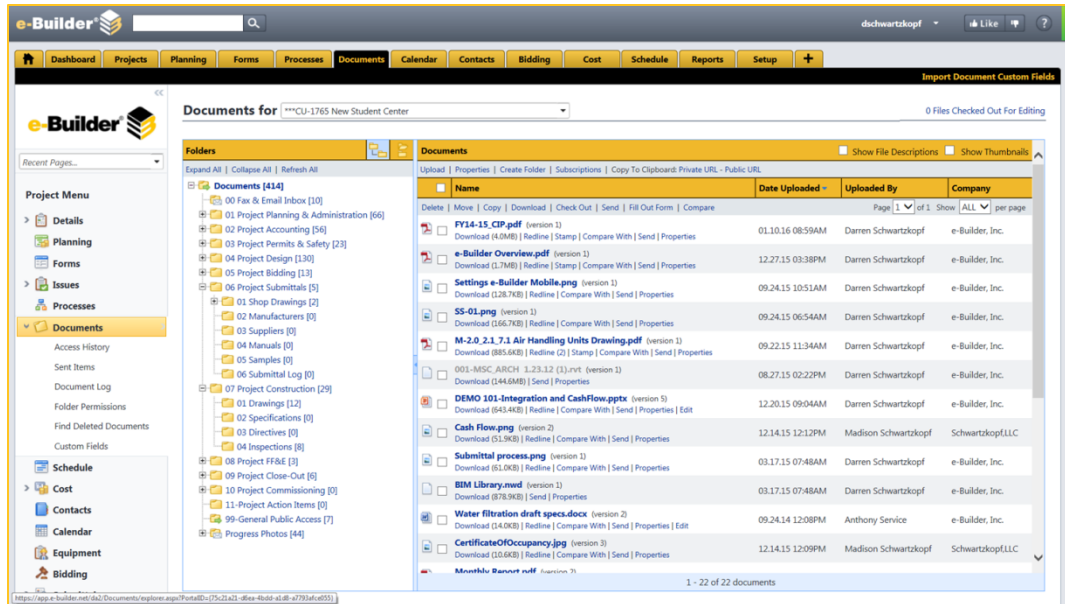
Managing the Document Repository with e-Builder Enterprise

SCHEDULE MANAGEMENT

e-Builder Enterprise Schedule Management integrates the power of Critical Path Methodology scheduling with internet-enabled collaborative capabilities to provide a program-wide milestone tracking system. Efficiently manage schedule and scope changes from a centralized online location. Built-in integration with Oracle® Primavera P6 and Microsoft® Project® lets you import existing project files. Track performance against a baseline as the system automatically updates the critical path when tasks are completed, or you approve schedule changes. Integrated Gantt views and reports give you a graphical presentation of your project's activities and milestones (e.g., Completed, Percent Complete, etc.), as well as an early-warning system to alert you about potential issues.

Track Project Tasks in the e-Builder Enterprise Schedule Module

CAPITAL PLANNING

Capital Planning is fully integrated within e-Builder Enterprise. Simplify the planning process by creating a capital plan with accurate and up-to-date information. Prioritize projects based on your organization's strategic goals. An easy-to-use dashboard gives you immediate access to the summary information you need to analyze and prioritize new projects. Quick access to active project data gives you a complete picture on evolving cash flow needs. Take advantage of historical data to develop more accurate estimates of future projects.
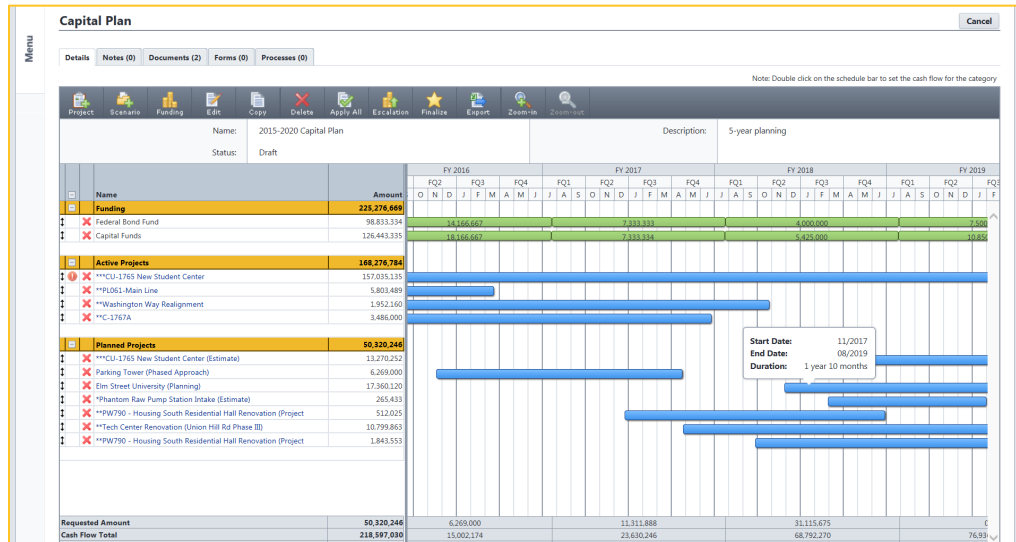
e-Builder Enterprise Visibility into a Projects Capital Plan

BID MANAGEMENT

e-Builder Enterprise Bid Management provides the capability to invite bidders to a project, distribute plans and specifications, manage all bid-related communications and track bid status across all your projects. Whether you are bidding for a General Contractor or a Subcontractor, the bidding module helps you improve bid coverage, reduce printing and shipping costs, standardize the bid management process, and maintain historical project data. e-Builder Enterprise saves time by performing automatic bid analysis. An unlimited number of bidders in your vendor database can easily view and download information, as well as communicate with you throughout your bid process.
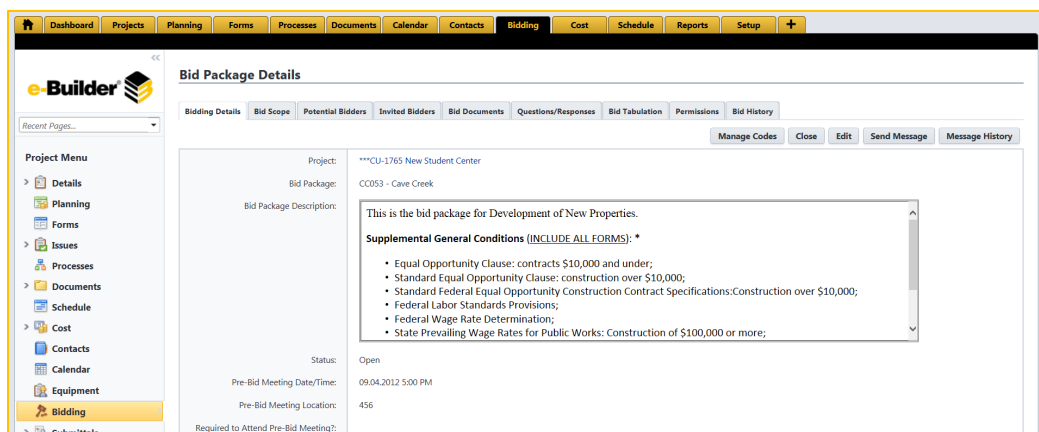
Manage and Track Bid-Related Communications and Status Across All Projects

CONTACT MANAGEMENT

e-Builder Enterprise Contact Management allows your team to easily access and manages all of your contacts across all of your projects in one central location. Associate one or multiple contacts within a company and maintain one master contact list for all of your projects. You can easily view integrated project information with each contact (e.g., contracts, change orders, insurance information, etc.).

The contact directory may be used by the Cost and Bid Management modules as a project participant's directory. The contact directory enables project participants to collaborate amongst each other. Examples of this collaboration include: Send files stored within e-Builder Enterprise Document Management, invite a Bidder to view bid information and bid electronically, and send reports via email.

Additionally, e-Builder Enterprise Contact Management provides you the data to report and track vendor historical capability (e.g., total contracted amount, vendor issues and rating, amount of change orders) with drill-down capabilities to access more detailed information. Integrated with e-Builder Enterprise Reporting and Dashboards, you will have current and historical reporting capability to manage your vendors and identify who are performing best for your company.

E-BUILDER MOBILE

Our solution includes e-Builder Mobile to increase productivity, responsiveness and project delivery quality by putting the power of e-Builder Enterprise directly on the job site. With e-Builder Mobile, any user with either an Apple® iOS® or Android™ smartphone or tablet can access project data and initiate work right from the field or anywhere else. e-Builder Mobile connects to the same project information stored e-Builder Enterprise, so all users work within a single system.
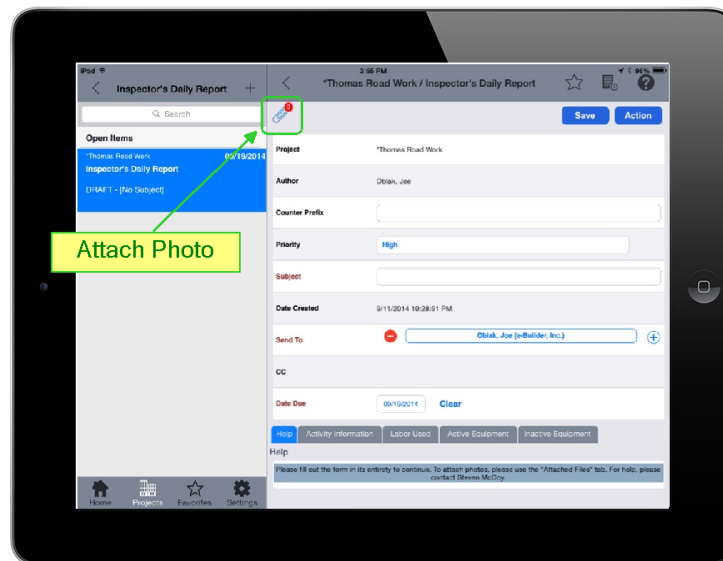
Example of Completing an Inspectors Daily Report Form on the iPad

With e-Builder Mobile, staff can access project data, act on issues, and initiate work in the field, instead of waiting and making a trip back to the office. As a result, our e-Builder Enterprise customers improve the quality of projects while reducing paperwork and saving time. Some customers report saving up to 10 hours a week because they no longer need to travel back to the office at the end of the day to key information and work list items. Information is communicated faster, and issues are routed to the appropriate person for follow up in real time. Using e-Builder Mobile can help save time and energy which leads to improvements in social, environmental, and economic performance.

CALENDAR MANAGEMENT

e-Builder Enterprise Calendar Management provides the capability to centrally schedule and maintain project specific meetings. Since many project meetings typically involve multiple companies, each with their own company calendar system (e.g., Microsoft® Outlook®, Lotus Notes®, etc.), Calendar Management provides a central calendar that is accessible by all project members to improve project meeting coordination among multiple companies. Additionally, any new project team members can easily access the key project meetings they need to attend as the project progresses through the construction lifecycle.

SUBMITTALS MANAGEMENT

The Submittal module is a comprehensive tool that allows owners, general contractors, architects, engineers, and the like to improve the entire submittals process. Using e-Builder's Submittals functionality you can enable the ball-in-court methodology so that contractor and architect coordinators can track response times from sub-consultants to ensure prompt responses and mitigate delays.

Throughout every phase of the submittal process, there are mechanisms in the module that facilitate the exchange of information, track transactions, and consequently provide real-time visibility into the status of each submittal item. The submittal register is uploaded before the start of construction, and due dates are assigned to streamline the process, reduce lag time, and improve accountability.

Using the Submittals module, you're able to push items through all the proper channels, while managing the entire process from a central location. Using the module to its fullest capacity will ensure an efficient process from inception through completion.

A Comprehensive Tool to Improve the Entire Submittals Process

TIME TRACKING MODULE

e-Builder Enterprise Time Tracking module allows your employees/consultants/contractors to track their time against projects and/ or activity codes. They can then submit their time sheets to be routed to the correct approver(s) (i.e. management) based on the associating Time Tracking workflow configured for the initiator's username or role. The Time Tracking module enables bill rates to be applied to time

entered and the costs to be associated with commitments or invoices in the e-Builder Cost module. This is a powerful tool for organizations that want to manage the cost of internal or consultant labor along with other project costs. For example, you may apply a billable rate (e.g. $65) to a project manager and track their hours worked against the projects and activities they log in their timesheet. These costs are captured in draft commitment or general invoices that may be submitted for inclusion in overall project costs. When cost integration is enabled, commitment and commitment line items may be configured to appear as optional fields on the timesheet entry page. When a commitment line is selected by the person entering their hours, the billable time is created as draft invoice against that line item after passing through a workflow/validation process.

BIM MODULE

e-Builder Enterprise Building Information Modeling (BIM) module is the first BIM solution fully integrated with a Project Management Information System (PMIS) that is designed from the ground up to serve the needs of the owner. A single integrated BIM and PMIS solution drives further cost and schedule reductions and more risk mitigation than can be achieved from stand-alone solutions or relying on third parties.
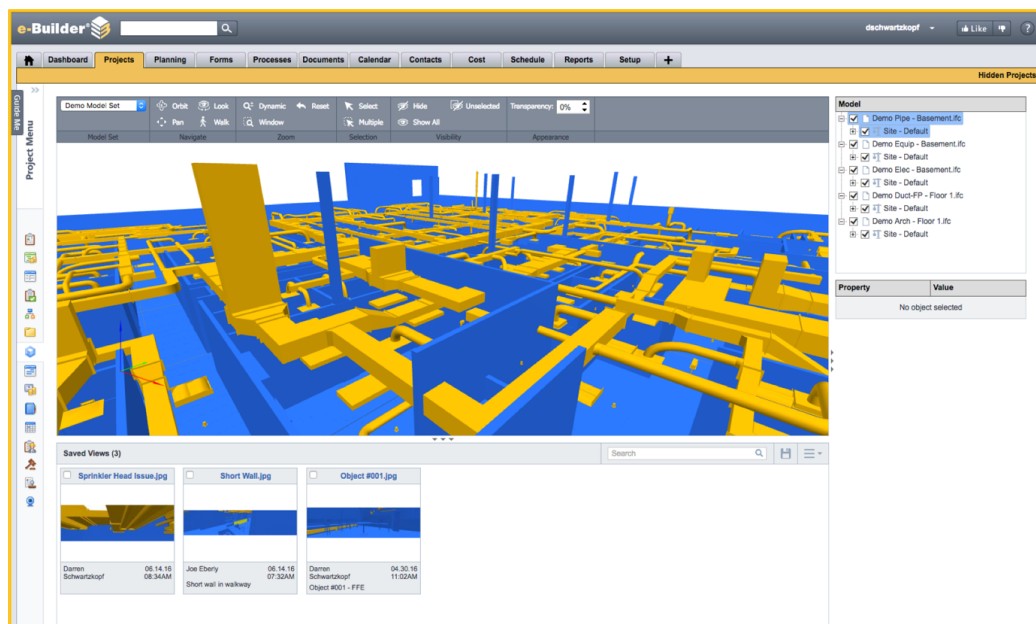
BIM Model Sets within e-Builder Enterprise

The primary aim of the e-Builder BIM Viewer is to put BIM data into the hands of the extended project team, not just those on the design team with the design software. The BIM Viewer can be utilized to provide a simple interface for linking BIM content to other relevant project management data. All the information can be stored in one integrated system to maintain a complete set of interconnected data.

- Building on the existing e-Builder collaboration environment, Processes, Forms, Documents, Equipment Management, etc. can be enhanced with the related BIM data for better communication. Any location that allows for the attachment of documents can be expanded to link BIM content.

- Views of the model can be saved with additional comments and markups to provide more collaborative communication. Project issues such as RFI's could be more easily understood in the linked context of the common model.

- The BIM viewer includes all standard navigation features including pan, zoom, rotate, and walk through. Users have control over the visibility of components which can be enabled/disabled or made transparent to get a better view of the model. Users can also inspect and review the properties of any object in the model.

BUSINESS INTELLIGENCE MODULE

e-Builder Enterprise Business Intelligence Module put the power of graphical objects and detailed reports in a single solution. Its mission critical to improve decision making with real-time data that is available instantly. e-Builder's Business Intelligence Reporting enables you to visualize performance of activities across your entire program, putting you in control of your operations so you can quickly and easily make decisions. This next generation of graphically rich dashboards and reports provides benefits to all users of e-Builder Enterprise.

FOR EXECUTIVES

- Insightful program performance and forecasts
- Graphically summarize complex data quickly
- Interactive, real-time answers about project & program status

FOR ADMINISTRATORS

- Report across multiple e-Builder modules
- Easily create dashboard reports with drag & drop fields
- Combine graphical reports with tabular reports in one view

FOR PROJECT MANAGERS

- Automated report production gets more time back in your day
- Visually analyze data in an easy-to-read manner
- Create compelling project status reports everyone can trust

e-Builder Enterprise Business Intelligence Module

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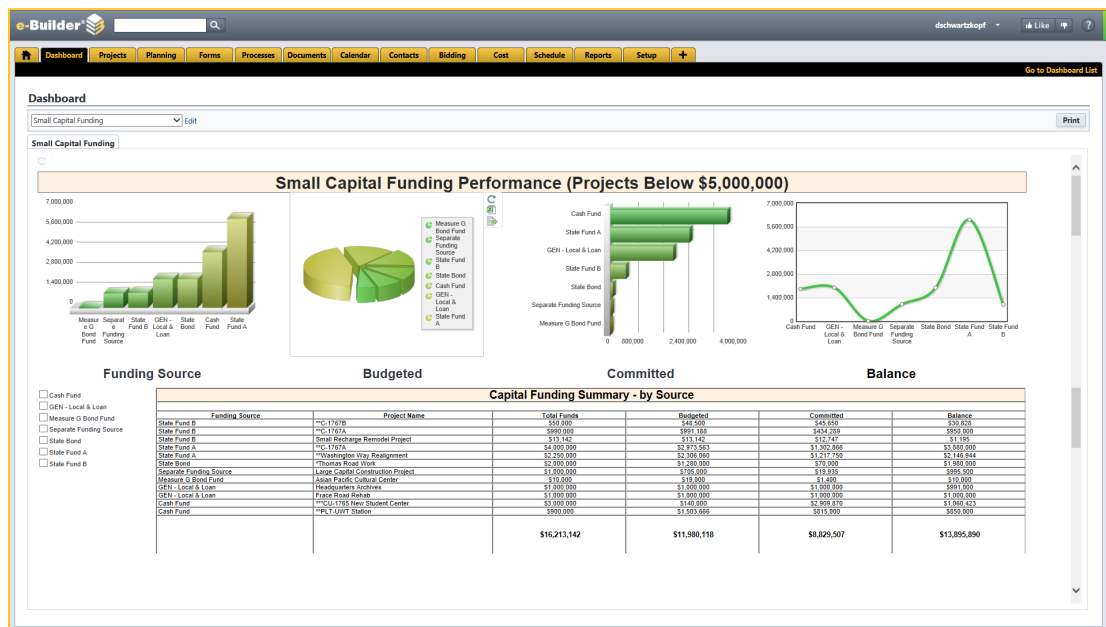
e-Builder is the leading provider of integrated, cloud-based construction program management software for top facility owners and the companies that act on their behalf. The company's flag-ship product, e-Builder Enterprise™, improves capital project execution, resulting in increased productivity and quality, reduced cost, and faster project delivery. Since 1995, e-Builder's technology leadership and construction industry focus has provided thousands of global companies, government agencies, and healthcare and education-al institutions managing billions of dollars in capital programs with solutions to improve the plan, build, and operate lifecycle. The company is headquartered in Plantation, Florida. For more information, visit www.e-Builder.net.