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APPENDICES

APPENDIX (A)

PRIMAVERA ENTERPRISE

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A. PRIMAVERA ENTERPRISE SOLUTION

A.1 Primavera's Commitment to the Public Sector

Primavera has paid attention to dedicating solutions that exclusively address the needs of Public Sector Organizations. From infrastructure to residential and from schools to highways, all types of projects are researched by Primavera to provide the teams responsible for them with what they exactly need. These solutions assist in executing business strategies and goals by improving delivery times, maximizing valuable resources and capturing best practices for quicker returns. In addition, these solutions improve stakeholder communications through industry-leading portfolio management and collaboration. The solution proposed consists of a comprehensive and all-inclusive suite that addresses all the required functionality and serves all levels of the organization.

Senior executives within federal agencies are under greater scrutiny today to ensure that their capital investments include not only a detailed and comprehensive business case, but that disciplined performance management is implemented to control these investments. Achieving this level of control can be a daunting task considering the multiple demands thrust upon Senior Executives. Primavera is the only product solution available that provides a complete capital planning and investment control process for the management and control of capital investments over their entire lifecycle.

Primavera's role-based approach makes earned value data easy to understand, and provides the workflow to enable everyone on the project team to perform within Earned Value Management standards.

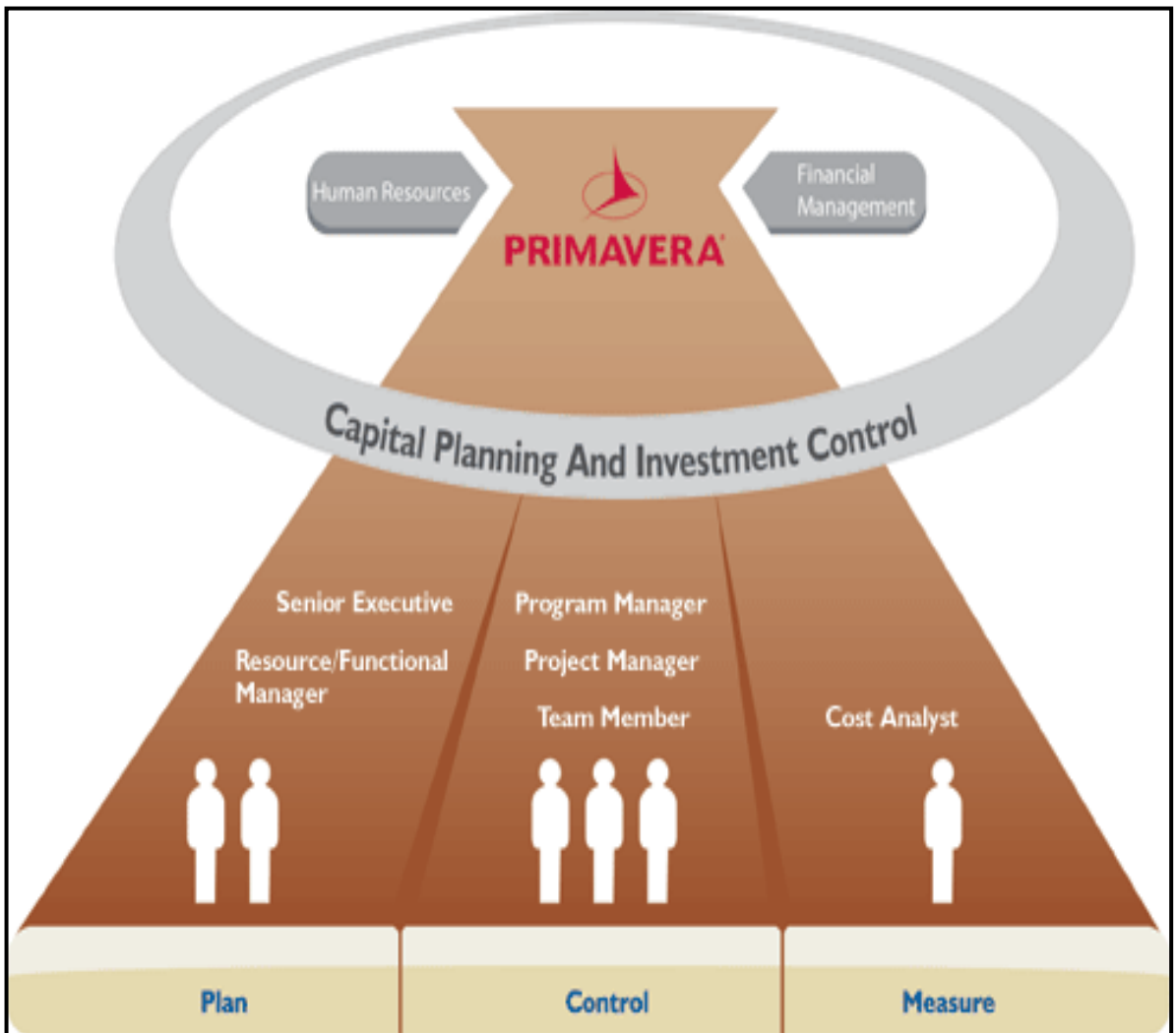


Figure A.1 Primavera's Role-Based Approach to Project Management

Primavera connects the right people to the right data and to one another. The result is accelerated business case development and reliable initial program baselines that accurately reflect required budget and expected delivery dates. Primavera works the way the team works, so the participation of every team member is reflected in program performance reports to provide the most accurate trend analysis possible. Primavera helps build the business case, budgets and baselines, and develops a resource plan to handle budgeted work, providing the level of control and performance analysis necessary to meet program objectives on time and within budget.

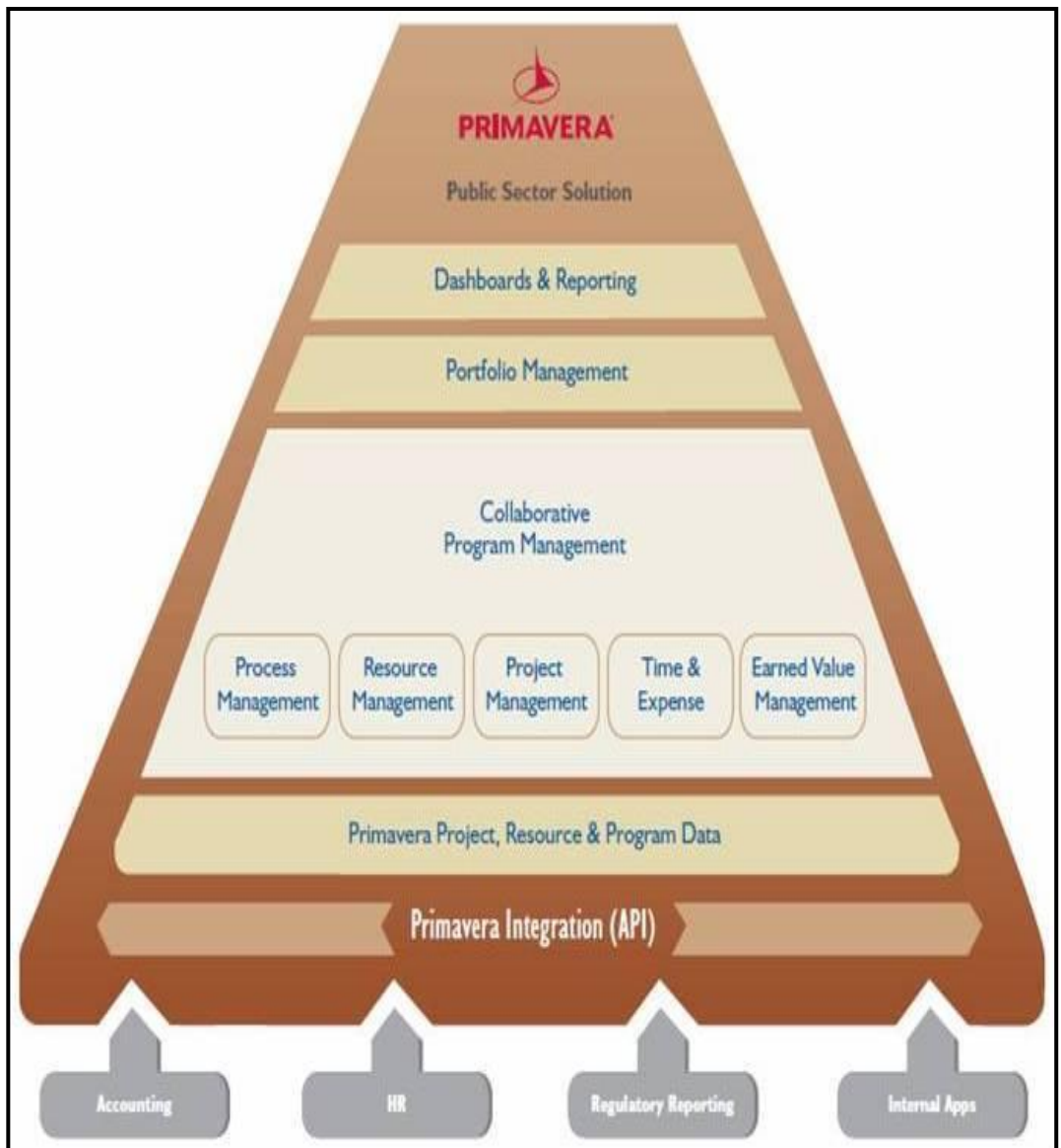


Figure A.2 Primavera Public Sector Solution

Since both technology and business needs are constantly changing, our solution is built for flexibility. We use standard development and design practices, such as componentization, design patterns, object-oriented design and programming, and the use of technologies and interfaces with globally accepted standards.

Some of the key features of the Primavera architecture include:

- ☐ Easy-to-use and administer multi-user, multi-project applications that are scalable and deployed throughout the organization to all project participants
- ☐ Centralized storage of the entire organization, project data and information
- ☐ Complete document management system to store all files and documents
- ☐ Robust project management features for scheduling, resource leveling and reporting on groups of projects or programs
- ☐ Flexible project and document workflows for designing customized processes the way they are done in your business
- ☐ Information delivery to every project participant based on their needs and contribution required for the project or program
- ☐ Easy-to-use reporting systems with hundreds of standard reports
- ☐ Extensive API support for detailed integration

The proposed solution shall consist of two major components; an Enterprise Project Management Solution (EPMS) packed with subcomponents addressing all project management needs; and an Enterprise Document Management Solution (EDMS) dealing with administration of contracts, submittals and all other project related documents. These shall each be clarified in detail in subsequent sections.

A.2 Solution Capabilities

With the solution proposed, based on Primavera products, work is captured at every level of detail directly from internal customers and stakeholders, and automatically distributed to those responsible for successful completion.

Primavera delivers the only Project management solution that doesn't require sweeping changes to your current processes.

Primavera leverages the natural way that teams work together, creating a true collaborative work environment so you can automate tasks and enable project-management improvements.

The proposed solution offers the following features:

- ☐ Project Management: Flawless planning, execution, and control across multiple projects utilizing shared resources.

APPENDIX (B) GEOGRAFICAL INFORMATION SYSTEM ArcGIS

- ❑ Demand Management: Effectively manage project pipeline with available resources
- ❑ Financial Management: Align budgets, actuals, billing for end-to-end financial planning across multiple projects.
- ❑ Resource Management: Resource alignment in support of business strategy; optimized staff utilization to meet key company objectives.
- ❑ Process / Workflow Management: Establish and share best practices and process compliance via governance-controlled workflow and methodologies to ensure repeatable project success.
- ❑ Portfolio Management: Align current and future projects, products and services with business strategy for optimized ROI and business value.
- ❑ Collaboration: Effective team and stakeholder communication to decrease time-to-market & improve decision-making
- ❑ Organizational Breakdown Structure (OBS) Assign responsibilities across the departments and the projects down to the activity level.
- ❑ Project Document System: Exceptional control over all documents, and file management for automated document review and routing that includes version control, an inclusive audit record for all documents and files and a historical record of previous document versions.
- ❑ Project Issues: Create, maintain and track all project related issues until resolved and protect company from claims. Support early identification and resolution of problems
- ❑ Risk Management: Identify impact of risk on project to preplan the risk response actions.
- ❑ Strong Project Support: Through shared central project workspace granting visibility to the entire team
- ❑ Change Management: which enables customized procedures and documents for change management
- ❑ Vendor Management: Powerful and detailed modules to track and control vendor related tasks
- ❑ Enhanced Reporting Capabilities Using 300+ built-in or customized text, tabular or graphical reports (printed or on-line)
- ❑ Integration With MS Project: Seamless integration with Microsoft Project.

APPENDIX (B) GEOGRAFICAL INFORMATION SYSTEM ArcGIS

The Intranet / Internet based solution with real web based modules provides an easy connectable portal for any user from any location.

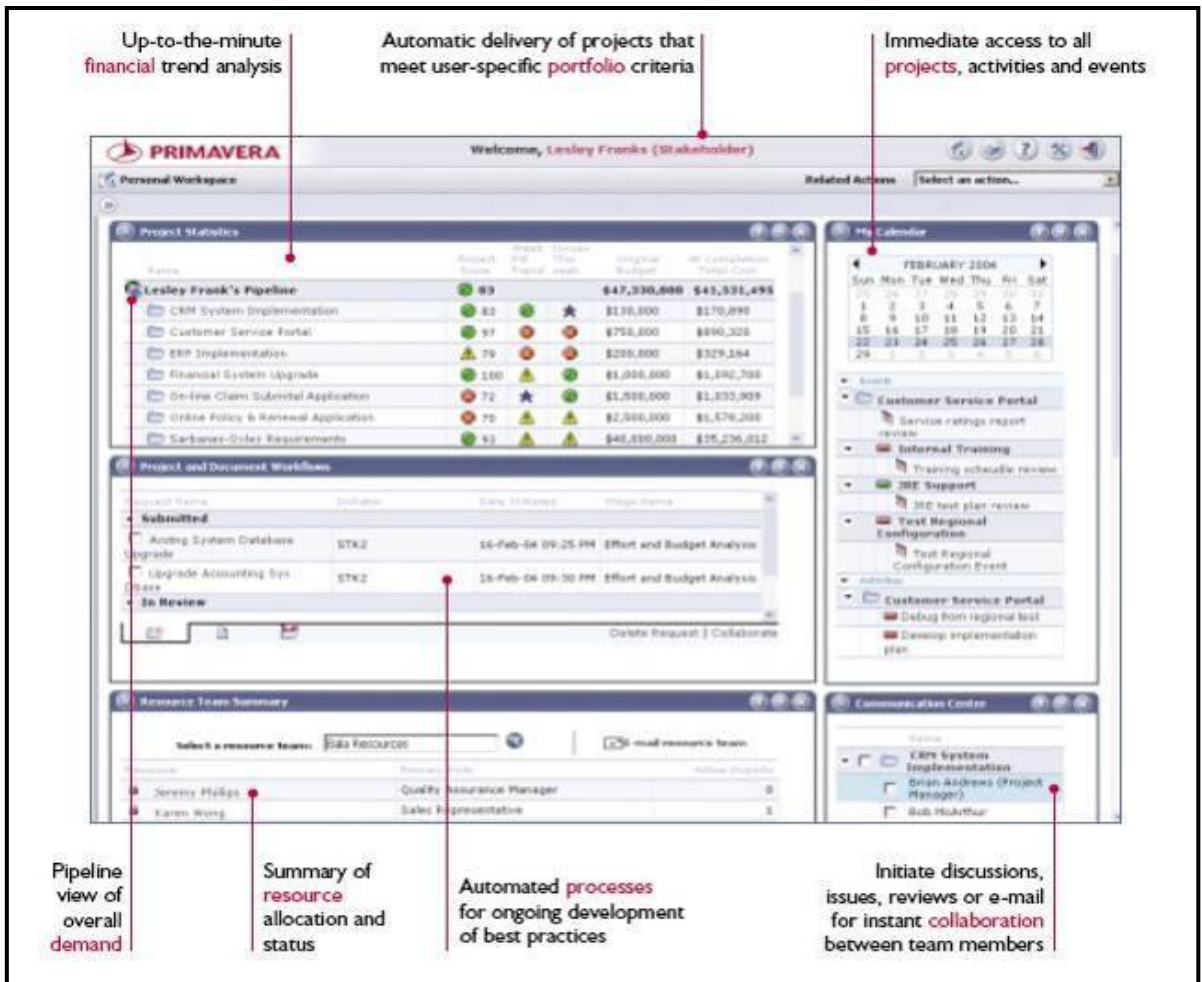


Figure A.3 The Customizable Primavera Shared Workspace

Primavera offers support up to practically unlimited number of users depending on well-known database platforms; SQL, Oracle and MSDE databases. The product offers very strong security and administration capabilities; application level security up to the work package, project components level and feature privileges; and on the operation system level Primavera complies with the Active Directory Security through "LDAP".