COST ANALYSIS VISUALIZATION ENVIRONMENT - CAVE

LOE ④

THE ARMY DEVELOPS AND OPERATES FOUR WEB-ACCESSIBLE LEGACY COST MODELS: OSMIS, FORCES, AMCOS AND THE CPP. THE CAVE MODERNIZATION PROJECT WILL SIMPLIFY THE SYSTEMS ENVIRONMENT BY CONSOLIDATING THESE FOUR SYSTEMS WITHIN THE FM DOMAIN PORTFOLIO, SUPPORTING COST ESTIMATING AND COST ANALYSIS, INTO A SINGLE, CLOUD-OPTIMIZED, CORE SOLUTION.

CAVE's major lines of effort include:

- **Rehosting from a Data Center to the Cloud:** In the past year and a half, DASA-CE, and industry partners, have rebuilt and configured these four legacy systems into cArmy's Amazon Web Services (AWS) environment.
- **Reengineering Business Processes:** ASA(FM&C)'s Business Process Reengineering (BPR) team has gathered revised system requirements; documented and engineered "as-is" and "to-be" processes; and designed alternative cloud architectures in support of CAVE's solutions analysis.
- **System Consolidation and Refactoring:** Upon the completion of the solutions analysis and resulting implementation plan, DASA-CE will begin to refactor these systems in FY24.

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THE CAVE MODERNIZATION PROJECT UTILIZES BUSINESS PROCESS REENGINEERING METHODOLOGY TO ASSESS PROCESS INEFFICIENCIES, IDENTIFY GAPS, AND IMPLEMENT OPPORTUNITIES TO RE-ENGINEER AND MODERNIZE APPLICATIONS.

Key Technical Enablers of CAVE's Modernization

Serverless Architecture:

- Applications built on a serverless architecture only consume compute resources when needed. This eliminates the expense of maintaining reserve compute capacity, while increasing scalability and flexibility.

Cloud Native Software as a Service:

- Incorporating cloud native SaaS eliminates costly software licenses, simplifies software configurations, and reduces laborious Risk Management Framework activities.

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