



U.S.ARMY



**Assistant Program Executive Officer
Business Mission Area (BMA)
PEO EIS**

**AFCEA BELVOIR Industry Days
21 March 2019**

Colonel Ed Barker



WHO WE ARE

U.S. ARMY



WE ARE the Army's trusted network and software acquisition professionals.

WE BELIEVE that the Soldier is the centerpiece of everything we do.

WE SUPPORT the Total Army and serve as a committed teammate.

WE ENSURE that the Army's networks, logistics, HR, finance, business systems and cyber defense support anything a **Soldier** and the **Army** need to do the job, every day.

WE GET Soldiers to the fight, support the fight and bring them home safe.

WE ARE PEO EIS.

Connecting the Army. Working for Soldiers.

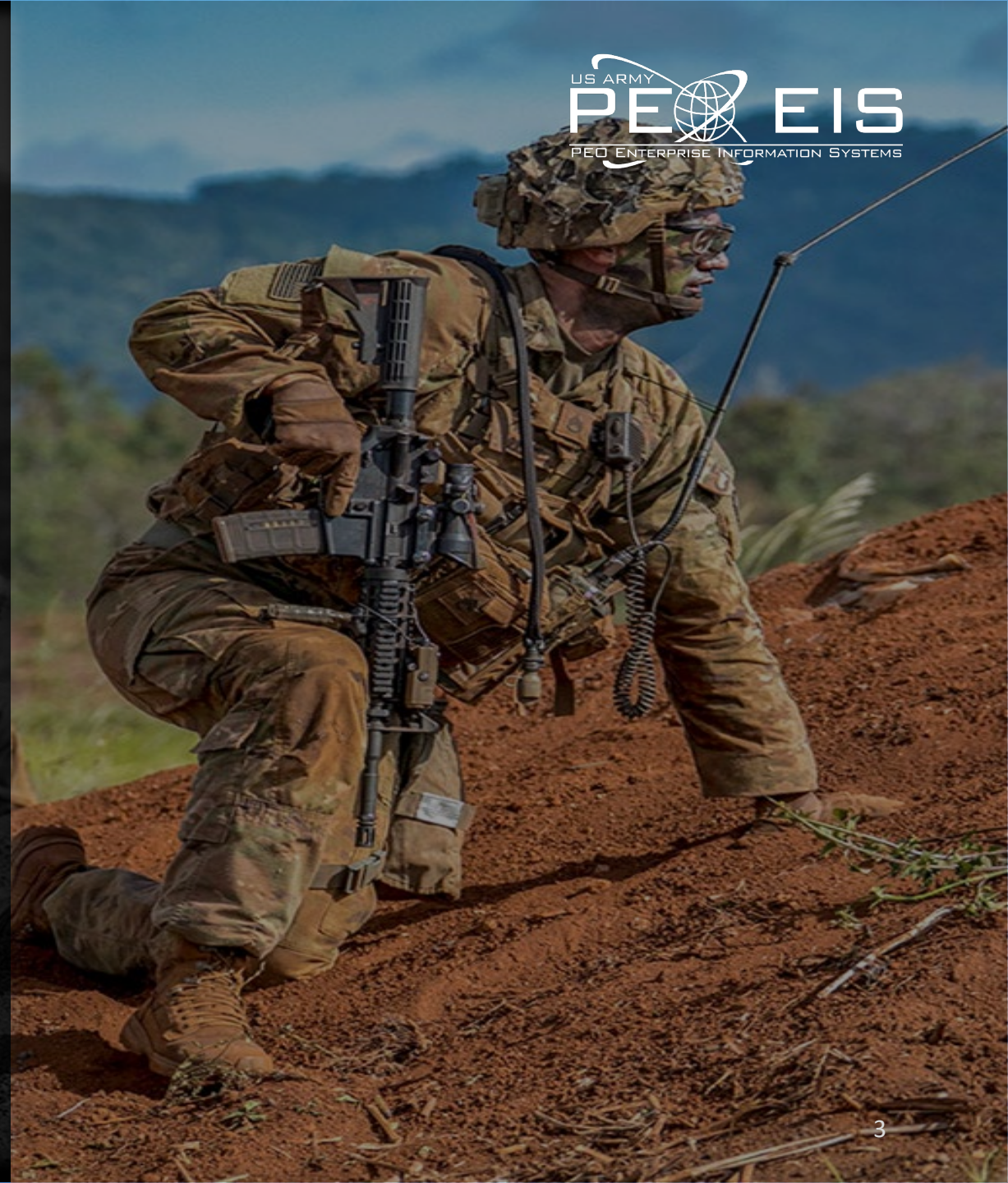


**WORKING FOR
SOLDIERS**

U.S. ARMY

From recruitment to retirement,
home station to foxhole, our
systems support Soldiers every
day around the world making
sure they're ready to

fight tonight.





MISSION & VISION

U.S. ARMY



Mission

Rapidly deliver **integrated, innovative and cost-effective** systems and services for the Total Force, to globally connect the Army and provide a decisive information advantage to every Soldier.

Vision

Be the recognized leader in delivering **integrated and cost-effective** information systems and information technology solutions across the Department of Defense.



Topics from the *Business Mission Area*



- Post-Modern ERPs
- Army Leader Dashboard
- Cloud Pilots





U.S. ARMY

RECRUIT/BASIC TRAINING

- Personnel System:
- Recruit (Accessions)
 - Personnel File Established
- Training System:
- Weapons Qualifications
- Property System:
- Issue Uniform



DUTY STATION

- Personnel System:
- PCS
 - Reenlist
 - Promote
- Training System:
- Unit Training
 - Range/Weapons Qualification
 - Field Training Exercises
- Property System:
- Weapon Assigned
 - Vehicle Assigned with Annex
 - Rapid Fielding Initiative
- Logistics System:
- Supply
- Maintenance System:
- Maintain Equipment
- Global Force Management System:
- Assign MTO&E



ONGOING

- Pay System
- Finance System
- Enterprise Services AKO



DEPLOYMENT/REDEPLOYMENT

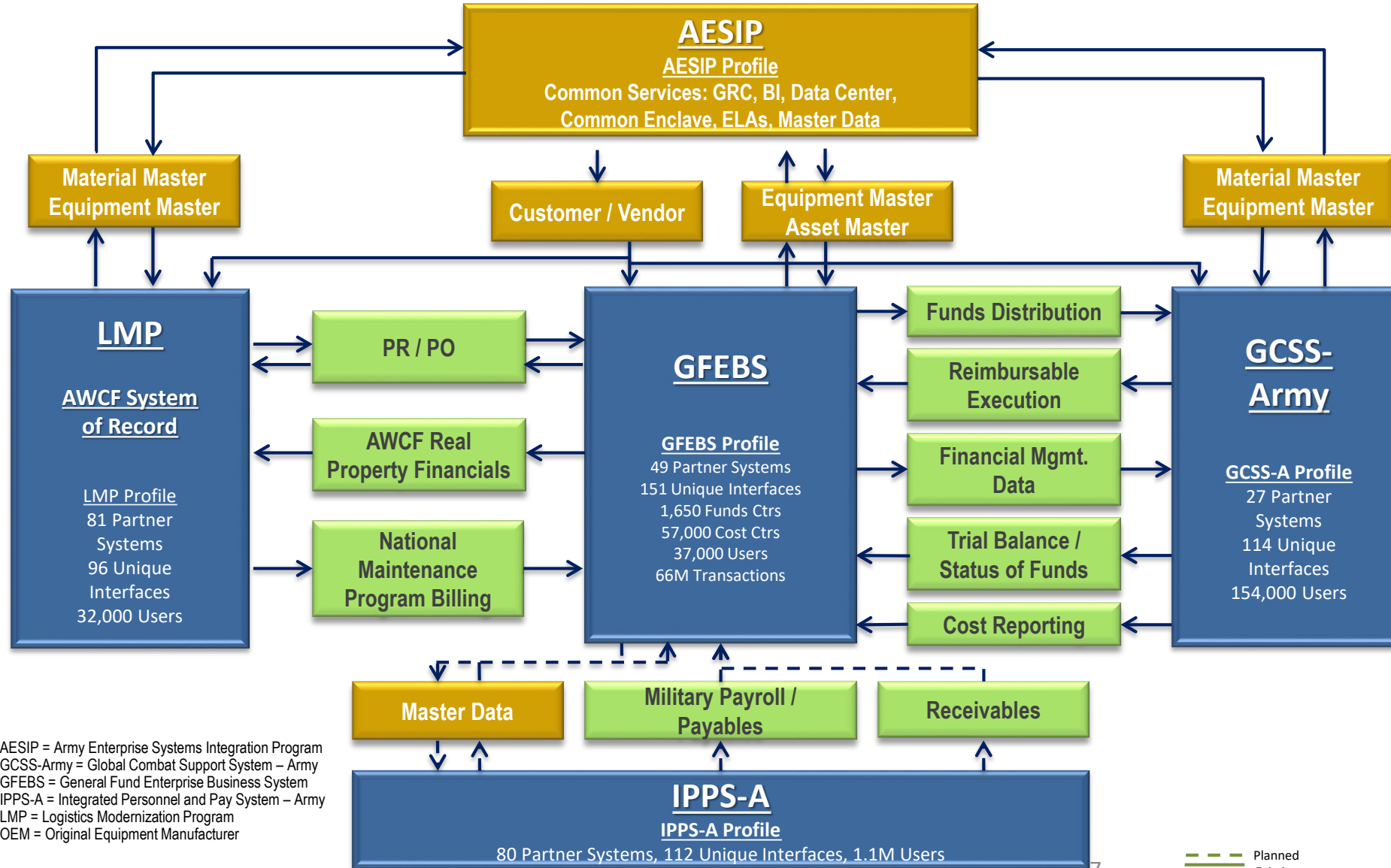
- Personnel System:
- Soldier Readiness
- Property System:
- Army Preposition Stock
 - Ammunition Issue Stock
 - Issue Equipment
- Logistics System:
- Track Equipment Logistical Support
 - Sustain Equipment
- Maintenance System:
- Maintain Equipment
- Global Force Management System:
- Task Organize
- Contracting System:
- Contingency Contracting

NETWORK





What the Soldier Won't See – Complexity



AESIP = Army Enterprise Systems Integration Program
 GCSS-Army = Global Combat Support System – Army
 GFEBs = General Fund Enterprise Business System
 IPPS-A = Integrated Personnel and Pay System – Army
 LMP = Logistics Modernization Program
 OEM = Original Equipment Manufacturer



Army's ERP Modernization & Integration Plan – Modernization Tracks



Track 1 – ERP Operational Capabilities Enhancement

- Supporting the Army enterprise and each functional domain's requirements for enhancements of Army ERPs to align with the proponents' / Army enterprise priorities (Domain 1 to N lists/ Army BRIC/ABC priorities)

Track 2 – Enterprise Data Integration Platform

- Cross-functional/program Master Data Management / Governance (MDM/MDG), Hub Services, Enterprise Structured Common Data Model, Unstructured Data Platform, Data Acquisition Strategy & Services

Track 3 – Enterprise-Wide Data Analytics

- Army Leadership Dashboard (ALD), Enterprise Data Analytics (EDA), Enterprise Universe of Transactions (EUOT) and Logistics, Financial Enterprise Reporting and Analytics

Track 4 – Commercial Cloud Hosting Common Enclave Migration

- Analysis of approaches for and execution against plans for migration of Army ERP and other business system programs to a commercial cloud hosting common enclave.

Track 5 – ERP De-customization

- Analysis of dormant code (inactive RICEFW) and other customizations to minimize ERP program custom code to support sustainability/ cost efficiency and in preparation for ERP program baseline modernization.

Track 6 – Transactional Agility Capabilities Enablement

- Analysis of capabilities that are better suited to non-ERP (i.e., best of breed) solution delivery to address cost, schedule and operational business process efficiencies while still enabling standardization / integration

Track 7 – Solution Innovation Components

- Assessment, prototyping and production release of innovations (e.g., tools/ platform standardization, user empowerment / self-service, RPA, AI)

Track 8 – SAP HANA S/4 Planning

- Development Roadmap Analysis, ERP Programs Instance Consolidation Analysis, SAP Capabilities Development Advocacy



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Army Leader Dashboard



What is the Army Leader Dashboard?

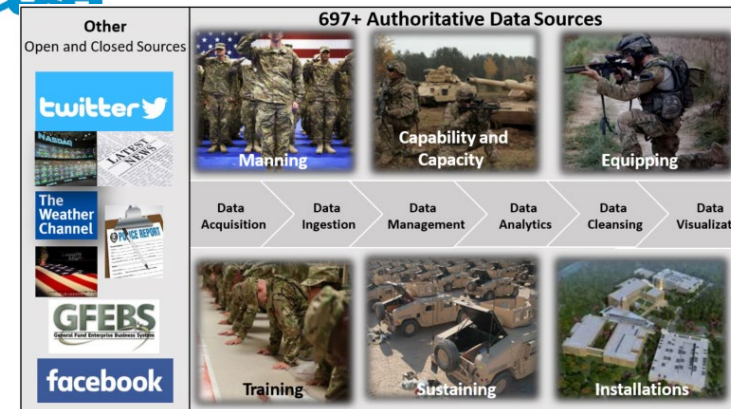


Mission: To organize and integrate **all** Army data, to make it accessible and understandable to inform strategic decisions

Vision: Generate strategic advantage for the Army through data

System Features / Critical Functionality:

- Commercially available software solution/web-based technology
- Available on desktop, laptop, tablet, and mobile (NIPR/SIPR)
- Access to real and near real time Authoritative Data Sources
- Highly configurable to individual users
- Data management solution- classified/unclassified
- "Plain Text" search capabilities (Google-like)
- Immediately understandable and actionable
- Intuitive, interactive, large-scale data exploration tools to filter billions of pieces of data through point and click
- Easily configurable, "Ticker Tape" banner with alerts
- Data ingestion, cleansing, and analytics / Geospatial services
- Provide future predictive analytics (5, 10, 20+ years into the future)
- Integrates, analyzes, and visualizes private and public disparate data
- Solution will be scalable (6,000+ users) across the Army to ensure subordinate Commanders have access to the same data
- *Not a transaction system*



All Army Data = BIG Data Platform

Supporting the Army's Strategic Objectives

✓ Readiness

Provide Army leaders near real-time visibility and access to Army data sources, facilitating rapid decision making while supporting strategic, operational, and tactical planning.

✓ Future Army

Standardize the way the Army views and manages current and legacy, structured and unstructured ADS, to provide an actionable view to support senior leader decisions.

✓ Take Care of the Troops

A continuous real time perspective into the pulse of the entire Army – Soldiers, civilians, and their families.

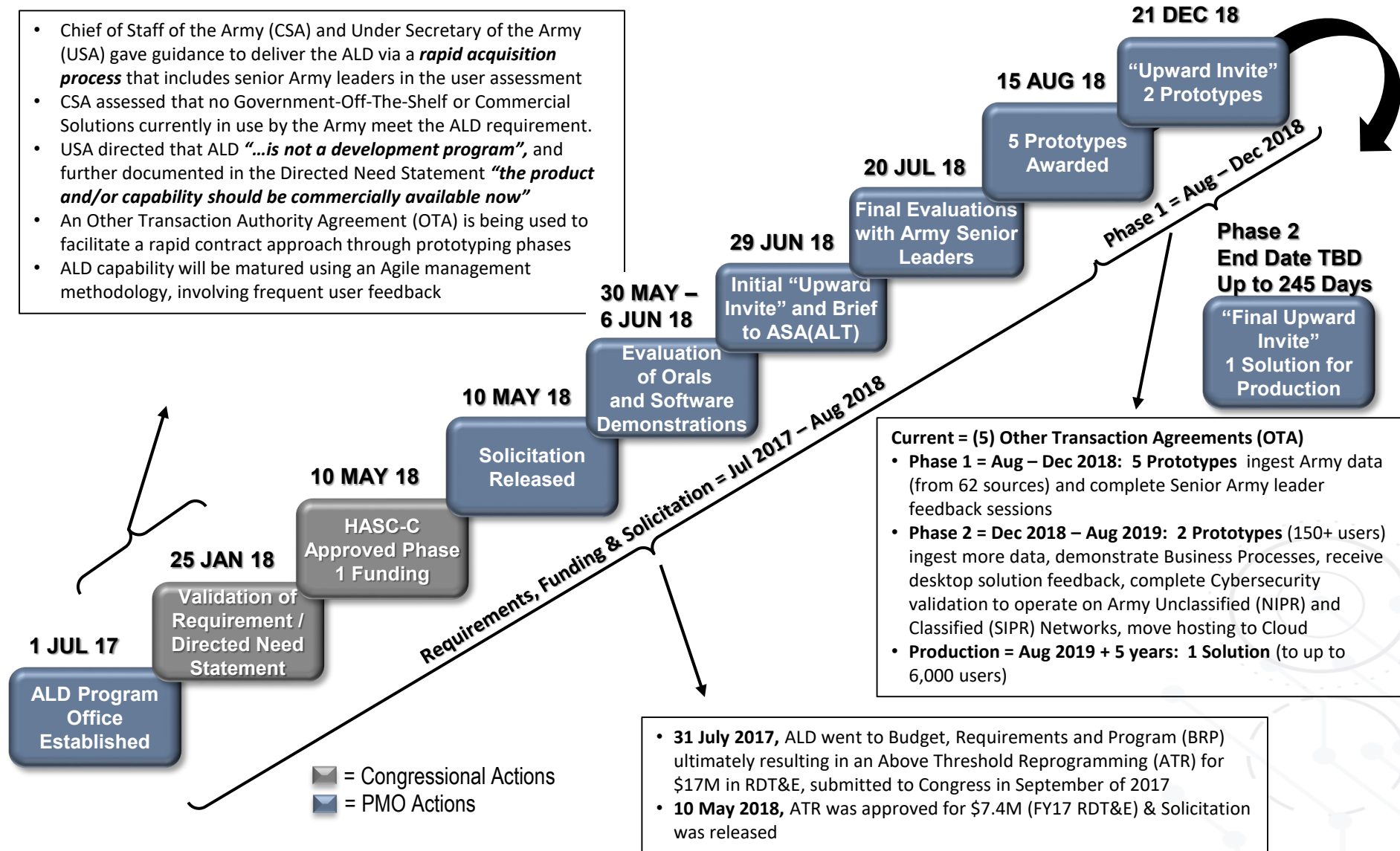


OTA Procurement Process

Prototyping Up Front to Deliver a Production Ready System



- Chief of Staff of the Army (CSA) and Under Secretary of the Army (USA) gave guidance to deliver the ALD via a **rapid acquisition process** that includes senior Army leaders in the user assessment
- CSA assessed that no Government-Off-The-Shelf or Commercial Solutions currently in use by the Army meet the ALD requirement.
- USA directed that ALD **"...is not a development program"**, and further documented in the Directed Need Statement **"the product and/or capability should be commercially available now"**
- An Other Transaction Authority Agreement (OTA) is being used to facilitate a rapid contract approach through prototyping phases
- ALD capability will be matured using an Agile management methodology, involving frequent user feedback





ERP CLOUD PILOT



Business Systems Cloud Pilot

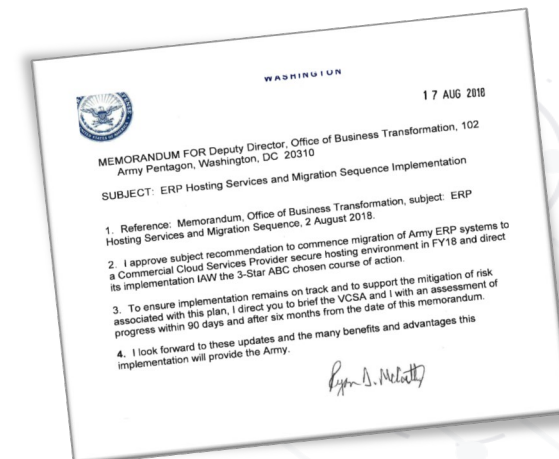
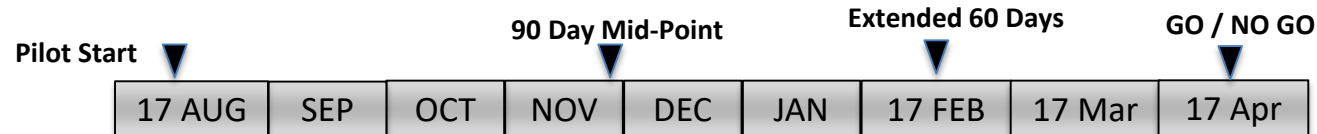


Commanders Intent:

This effort will track cloud migration related activities such as network and application performance with key performance indicators and sound metrics for a decision to production.

The scope of this effort will:

- Host ARMY ERP Systems in a Cloud Service Provider consuming Platform as a Service(PaaS)
- Address Cybersecurity as an evaluation criterion
- Leverage Year End FY18 OMA dollars
- Commence migration of General Fund Enterprise Business System and Army Enterprise System Integration Program
- Evaluate migration activities IAW establish criteria within 6 months of migration commencement





Cloud Pilot Objectives

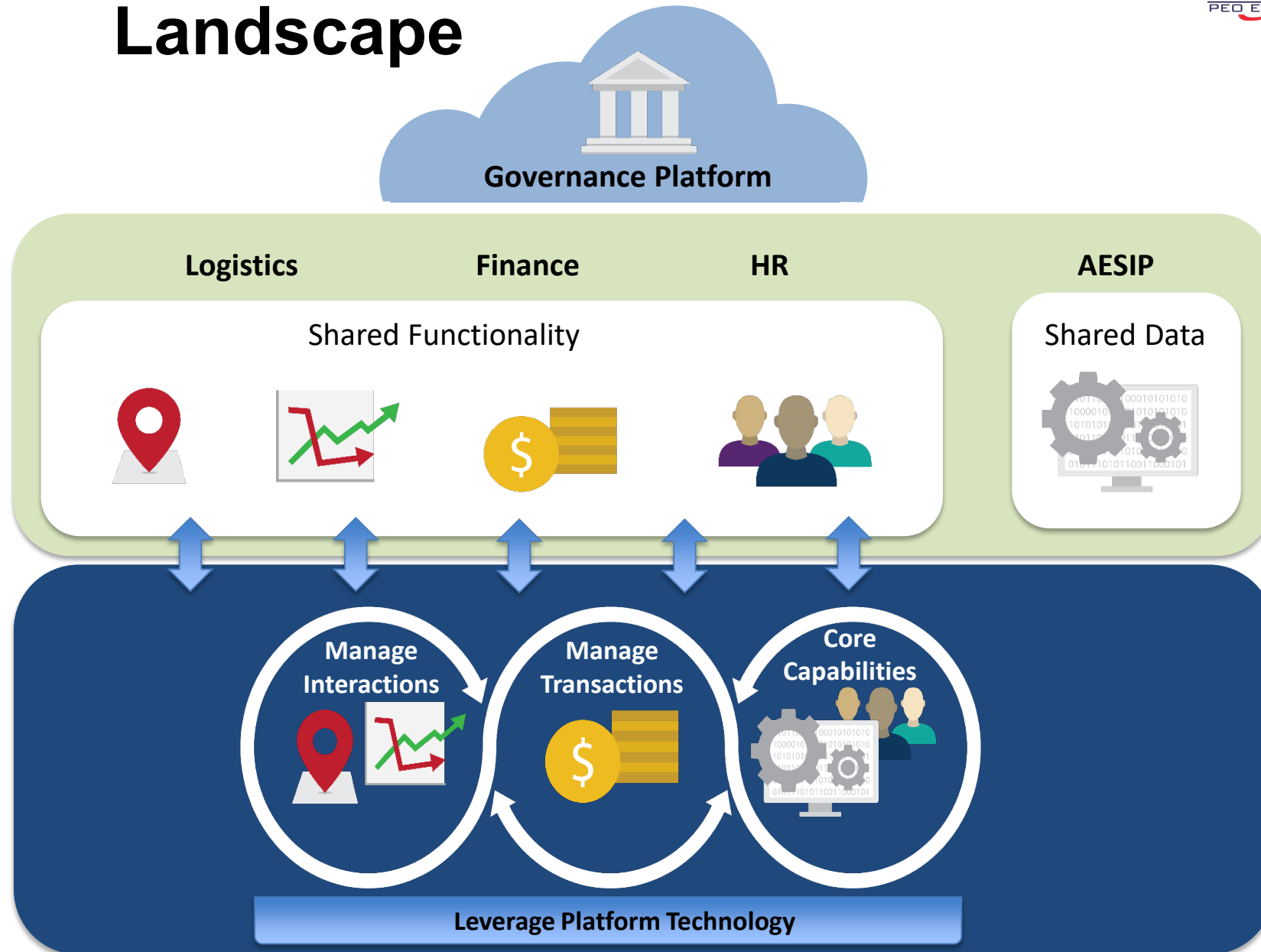


	AESIP Pilot	GFEBs Pilot
Pilot End Goal:	<p>Full migration of development and test environments for Business Intelligence (BI) and Business Warehouse (BW).</p> <p>Continue migration through production environments.</p>	<p>Creation of Sandbox environment and begin migrating development environment of SAP ECC.</p> <p>Execute migration of ECC landscape.</p>
Contract Type:	Firm Fixed Price	Cost Plus Fixed Fee
Pilot Cost (6 Months):	\$4.3M (Does not include annual hosting)	\$5.2M
System Integrator:	SAP NS2	IBM, subcontracting to SAP NS2
Pilot Focus:	<ul style="list-style-type: none"> Successful migration of development environment Successful demonstration of DEV (N+1) provisioning Successful demonstration of new capability provisioning Quick deploy application and/or data Successful Disaster Recovery (DR) demonstration Successful demonstration of scaling system Assess network performance 	<ul style="list-style-type: none"> Build out System 14 Cloud Virtual Machines Secure operating systems Perform software upgrade <ul style="list-style-type: none"> - HANA and Solution Manager upgrades in Cloud - Apache ECC, BOBJ, SLT Migrate configuration and test data sets <ul style="list-style-type: none"> - ECC, BW/HANA High Availability (HA) testing

We must be able to use the cloud like a utility and contract accordingly.



Future ERP Platform Landscape





Cloud Pilot Lessons Learned



Contractual

- Army maximizes best value with Cost- Reimbursement contract types.
- Cloud contract should be structured like a utility contract (DPW)
 - FAR Clause 41 for utilities Cost-reimbursement contract (IDIQ)
 - DFARS 239.7602-1 Directs Cloud Computing activities and focuses on disposition of Data in the Cloud
 - DFARS 252.239.7010 in all Cloud contracts addresses security and KO responsibilities
- As of today the Cloud contract structure direction is limited in the FAR
- This is an opportunity for the Army to develop a cloud contract structure that will support future requirements

Technical

- Army needs to define its own standards and practices to maximize enterprise efficiencies.
 - For example, one process for creating and managing virtualized containers using a specific cloud host's standard tools.
 - Requires resourcing and prioritization of efforts based on critical path activities
- Engage with DISA early in order to facilitate cloud connectivity through the CAP.
- Streamline each Program's migration with consistent processes and common services.

Propose Pilot for Utility Computing with Shared Savings Incentives



Questions

