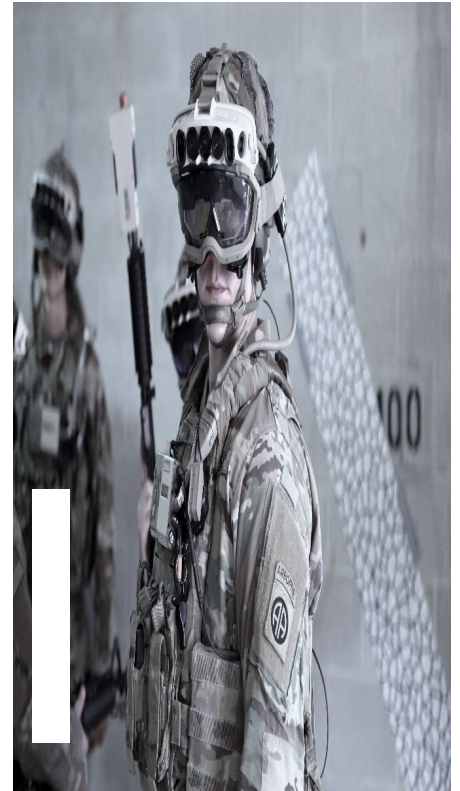
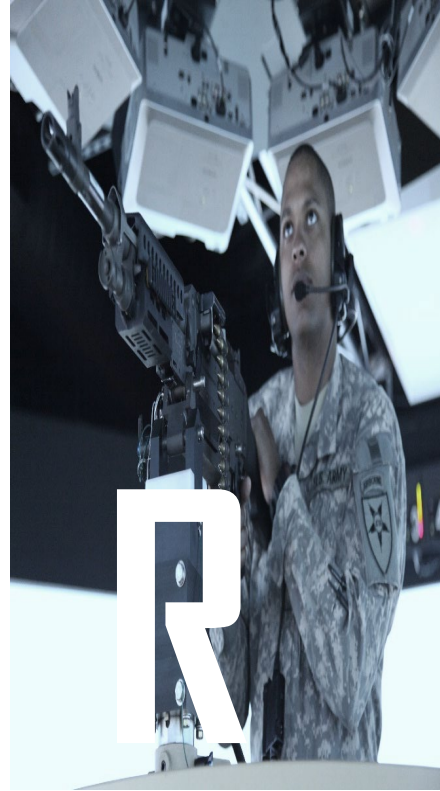


PEO STRI Digital Engineering



STR I



PEO STRI

PEO STRI Engineering Directorate

Harry A. Sotomayor

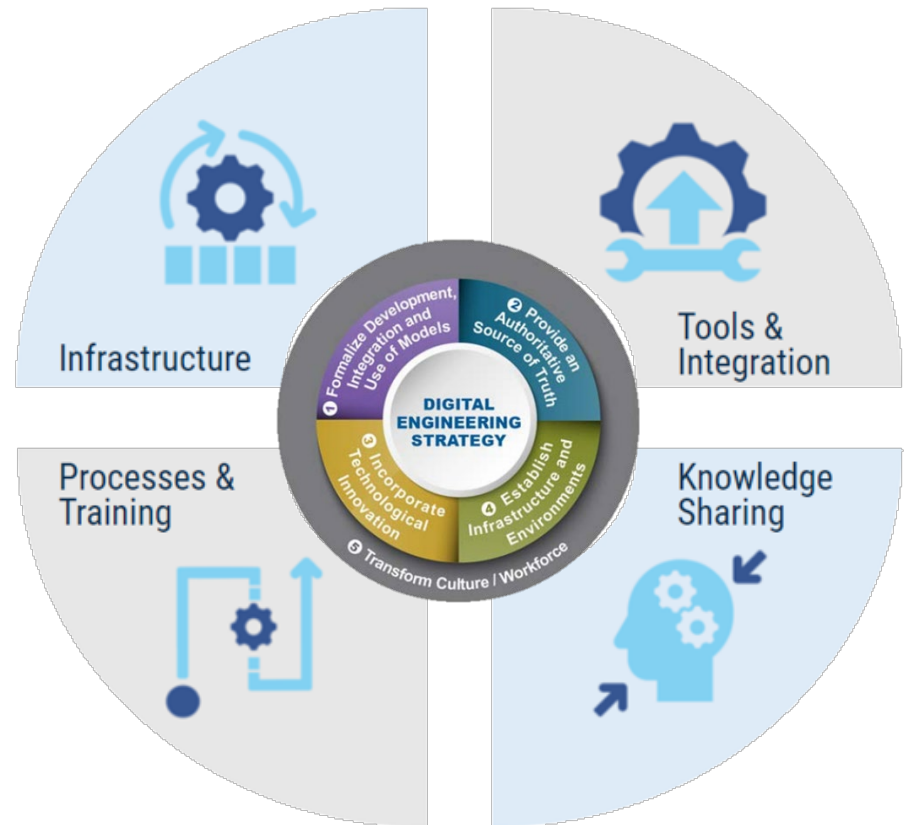
Program Executive Office Simulation, Training & Instrumentation

16 June 2022



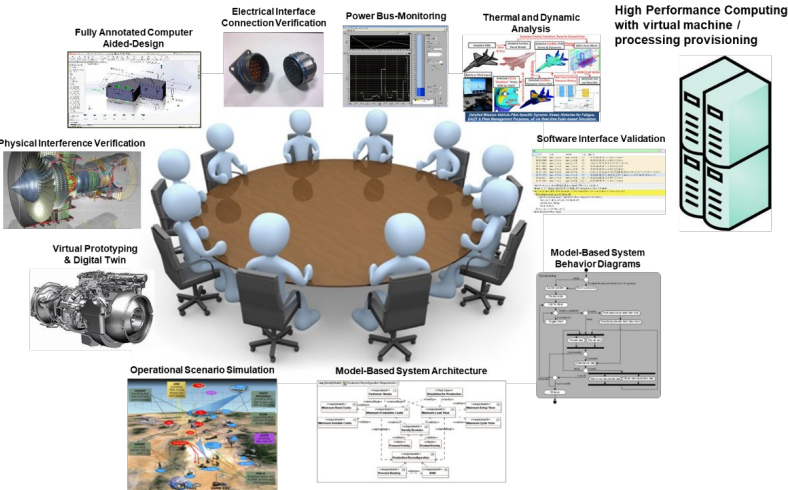
Digital Engineering Topics

- What is Digital Engineering?
- Guidance from ASA(ALT)
- PEO Responsibilities
- PEO STRI Initiatives
- Summary





What is Digital Engineering?

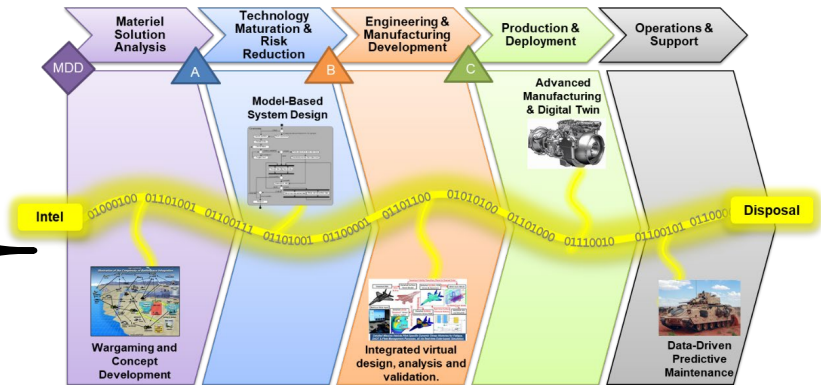


Integration of Technical Disciplines

- System Engineering
- Mechanical Engineering
- Electrical Engineering
- Software Engineering
- Complex Electronics
- Modeling and Simulation
- Cybersecurity

A Continuum Throughout System Lifecycle

- Mission Engineering
- Concept Development
- System Acquisition
- System Fielding
- System Sustainment

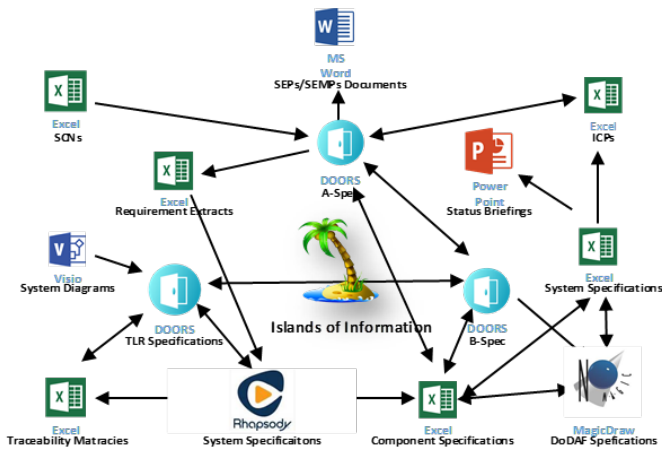


Digital Engineering - an integrated digital approach that uses authoritative sources of systems' data and models as a continuum across disciplines to support lifecycle activities from concept through disposal.

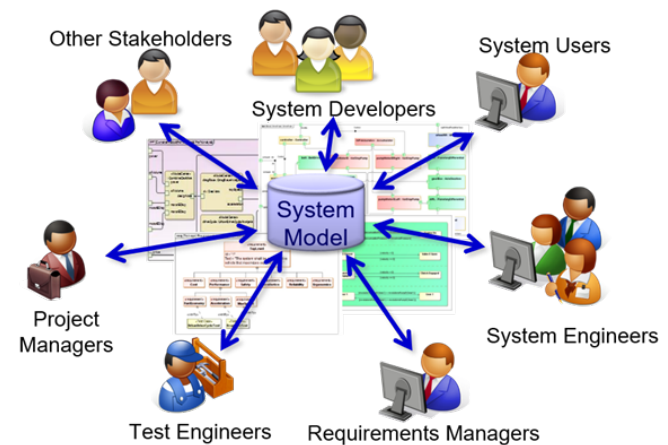


Guidance from ASA(ALT)

- ASA(ALT) organizations are encouraged and expected to invest in the infrastructure, tools, and training.
- PEOs have primary responsibility to establish DEEs including identification of common tools and institutionalizing DE practices
- DEEs must adhere to Army data policies requiring data to be Visible, Accessible, Understandable, Linked, Trustworthy, Interoperable and Secure (VAULTIS).
- Army modernization priority programs will use DE practices to the greatest degree possible
- DEEs and digital system models should be made accessible to, and useable by, all individuals and organizations who have valid needs and authorized access
- Work collaboratively to develop an Army-wide DE Implementation Guide



Islands of Information
(As Is)

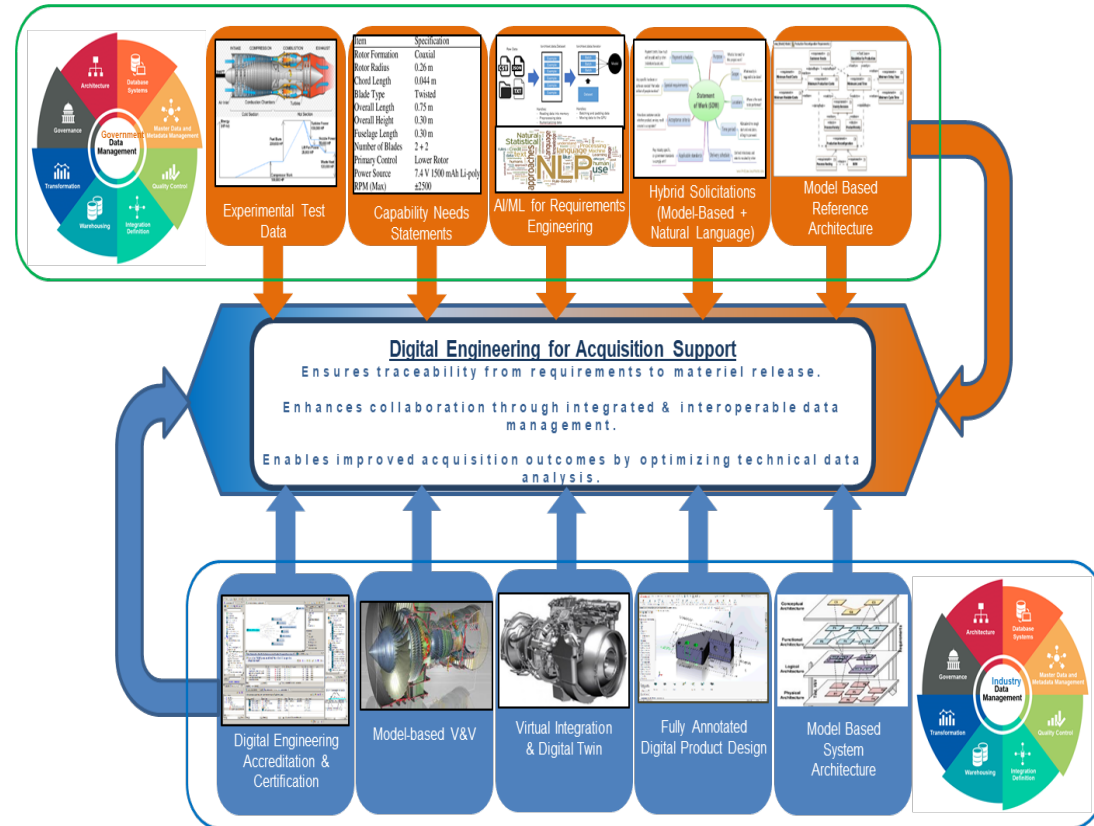


Integrated Model
Environment (To Be)



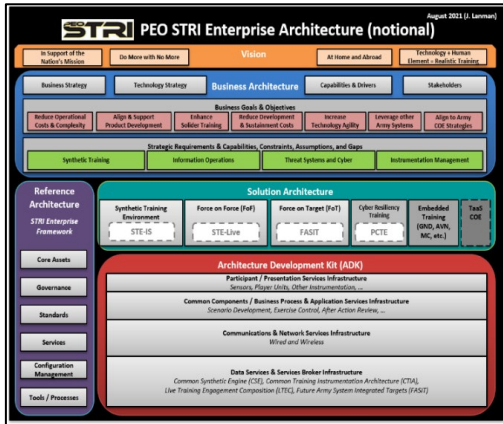
PEO Responsibilities

- PEOs are responsible for the execution and evaluation of DE Practices throughout their portfolio of programs
- Establish DEEs using common tools and DE practices
- Ensure applicable acquisition programs incorporate DE into all relevant planning documents.
- Encourage programs to procure and use models and data rich artifacts
- Manage the oversight of digital system models and technical data of the systems within their portfolio.
- Participate in DE governance bodies.
- Develop, implement, maintain, and enforce cybersecurity measures



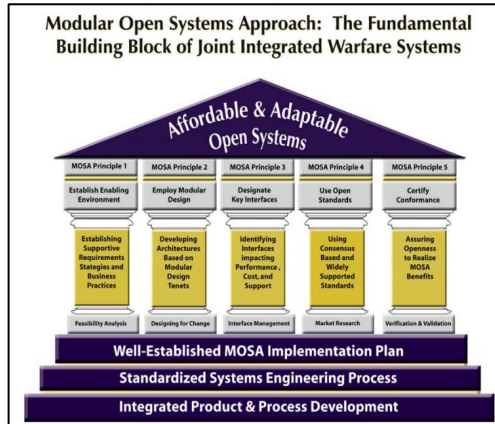


Increase Technology Agility & Speed of Delivery



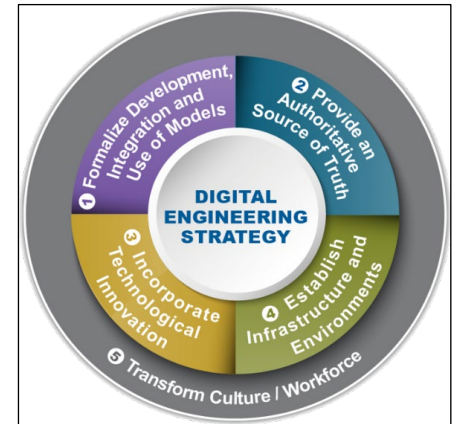
Enterprise Architecture (EA)

Build a robust capability to effectively **organize**, **communicate** and **influence** the various “architectures” across enterprise product lines.



Modular Open Systems Approach (MOSA)

MOSA, enacted by the NDAA, is an integral acquisition strategy to achieve affordable Joint combat simulation training capability.



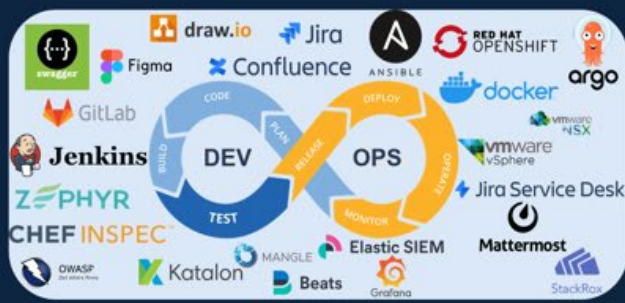
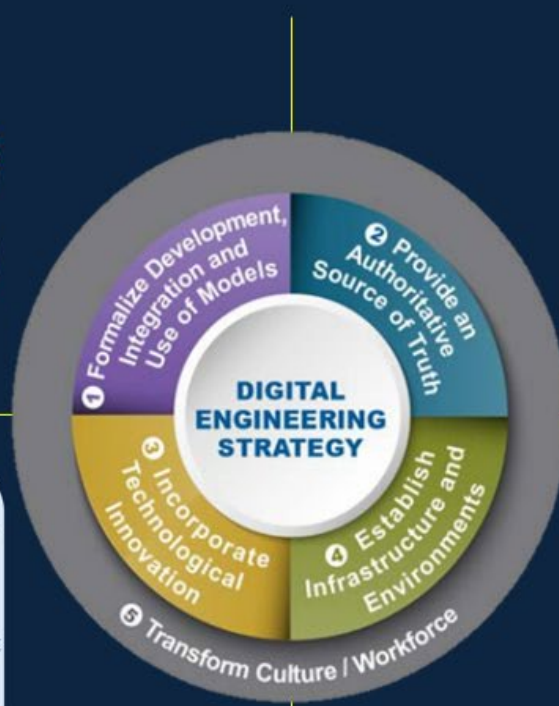
Digital Engineering Ecosystem (DEE)

An integrated digital approach that uses authoritative sources of system data and models as a continuum across disciplines to support lifecycle activities from concept through disposal.

Increase the Agility and Speed of Acquisition, Integration, and Delivery of Simulation, Testing, Training and Information Operations Solutions to the Warfighter.



Summary – Future of PEO STRI DE is Now



PEO STRI Datacenter / Management Infrastructure

| SEPTEMBER | OCTOBER | DECEMBER | JANUARY | FEBRUARY | APRIL | MAY | JUNE |
|-----------------------------|--------------------|----------|--------------|------------------------|---------------------|---------------------------|--------------------|
| Requirements Best Practices | Agile Requirements | MOSA | Architecture | SW Acquisition Pathway | Digital Engineering | Human Systems Integration | Cloud Technologies |