CONVERGENCE
ARTIFICIAL INTELLIGENCE TASK FORCE
CROSS-DOMAIN
LAYERED
ARMY FUTURES COMMAND
MISSION COMMAND

"Unlike advanced munitions or next-generation platforms, artificial intelligence is in a league of its own, with the potential to transform nearly every aspect of the battlefield, from the back office to the front lines."

–Dr. Mark T. Esper, Defense Secretary

OVERVIEW

The Army Artificial Intelligence (AI) Task Force (TF) was established under the Army Futures Command (AFC) on October 2, 2018.

The AI TF is charged with:

- Identifying existing machine learning initiatives
- Developing frameworks and methods to scale projects to the enterp
- Reviewing policies that impede deployment of AI technologies to th
- Establishing an AI test bed
- Developing a talent management plan
- Providing support to JAIC National Mission Initiatives

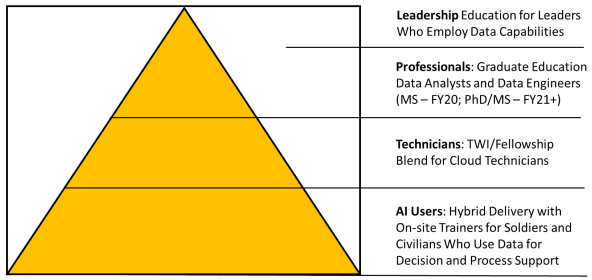
End State: An empowered team that rapidly integrates and synchronizes AI across the Army and the DoD

AI TASK FORCE FOUR LINES OF EFFORT

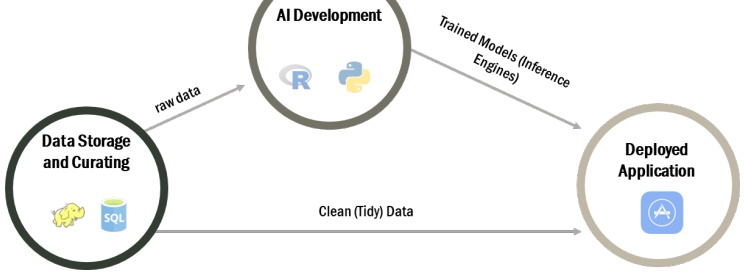
Achieve Early Wins, Develop Future Designs

- Predictive Maintenance (PMx)
- Automated Threat Recognition (Next Generation Combat Vehicle)
- Intelligence Support (Long Range Precision Fires)
- Talent Management (Human Capital)

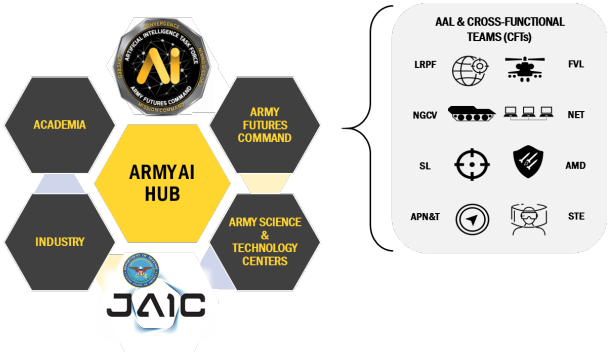
Establish Army-Wide AI Culture



Evolve the AI Infrastructure



Set the Conditions for AI Adoption & Integration



LOE 1: ACHIEVE EARLY WINS

AI Task Force Four Thrusts

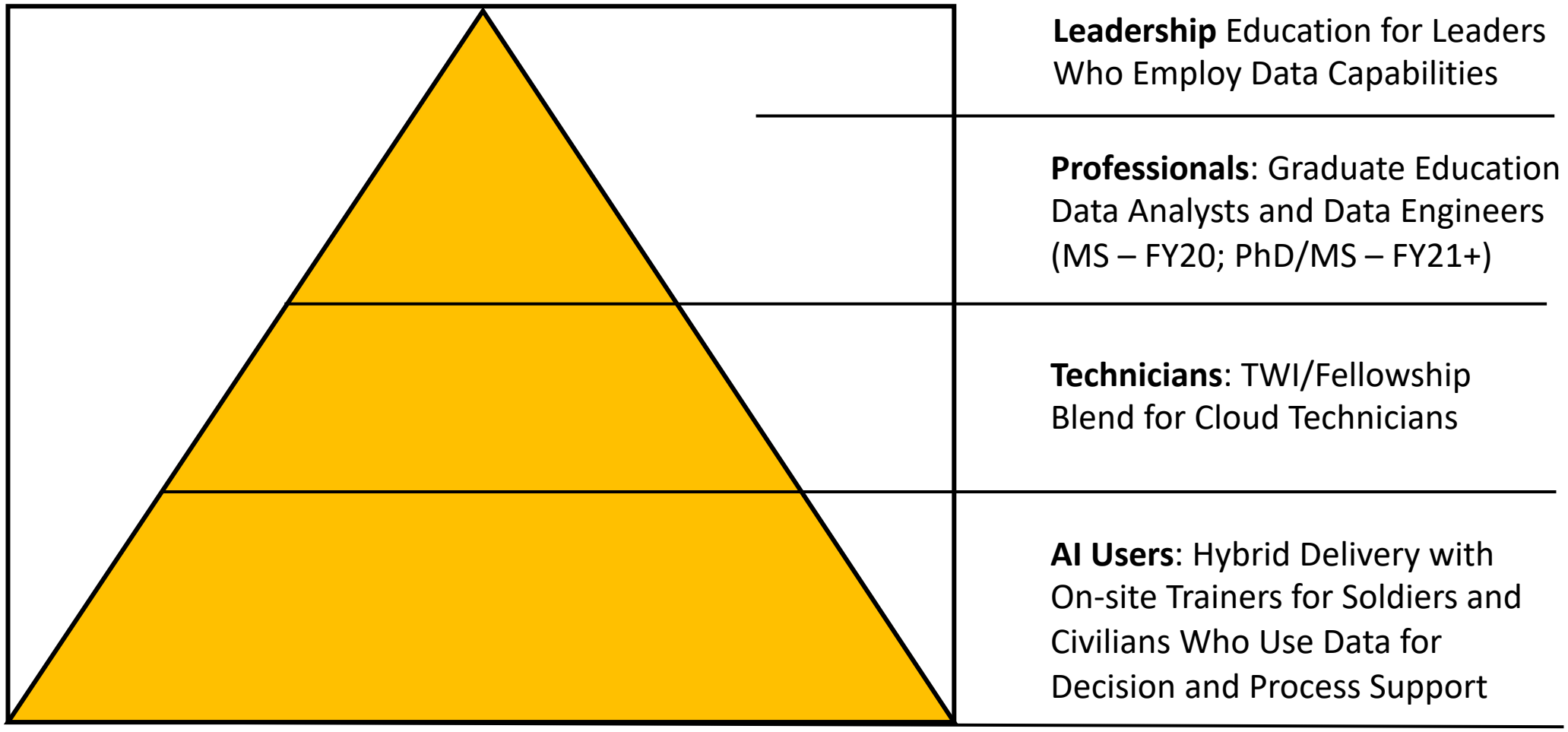
Talent Management (Human Capital)	Optimize efficiency of Army personnel management and identify core competencies
Predictive Maintenance (PMx)	Prevent breakdowns before failure, reduce downtime and save money
Intelligence Support (Long Range Precision Fires)	Identify, assess and prioritize threats, provide updates and relevant information to units
Automated Threat Recognition (Next Generation Combat Vehicle)	Add threat detection to autonomous driving and reduce cognitive load for Soldiers
Next Steps	Develop AI ICD, CFT Requirements, Future Projects: MDO, CFT Derived, Cyber & RPA

LOE 2: ESTABLISH ARMY-WIDE AI CULTURE

Data Workforce and Education

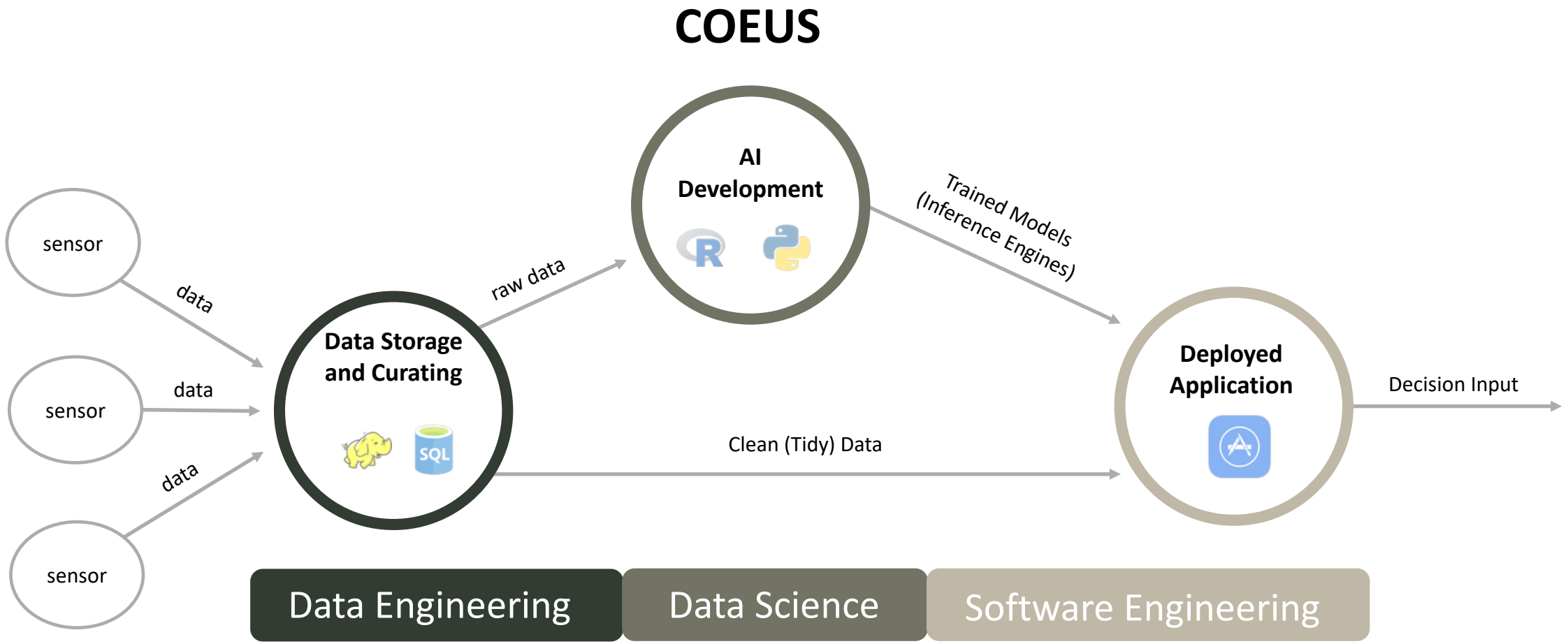
- Recruit, train, and mentor AI work roles
- Educate the enterprise on AI
- Enable AI experimentation
- Embed ethics for AI in land warfare

LOE 2: ESTABLISH ARMY-WIDE AI CULTURE



Each category of people within the workforce require access to data, training, and the appropriate tools.

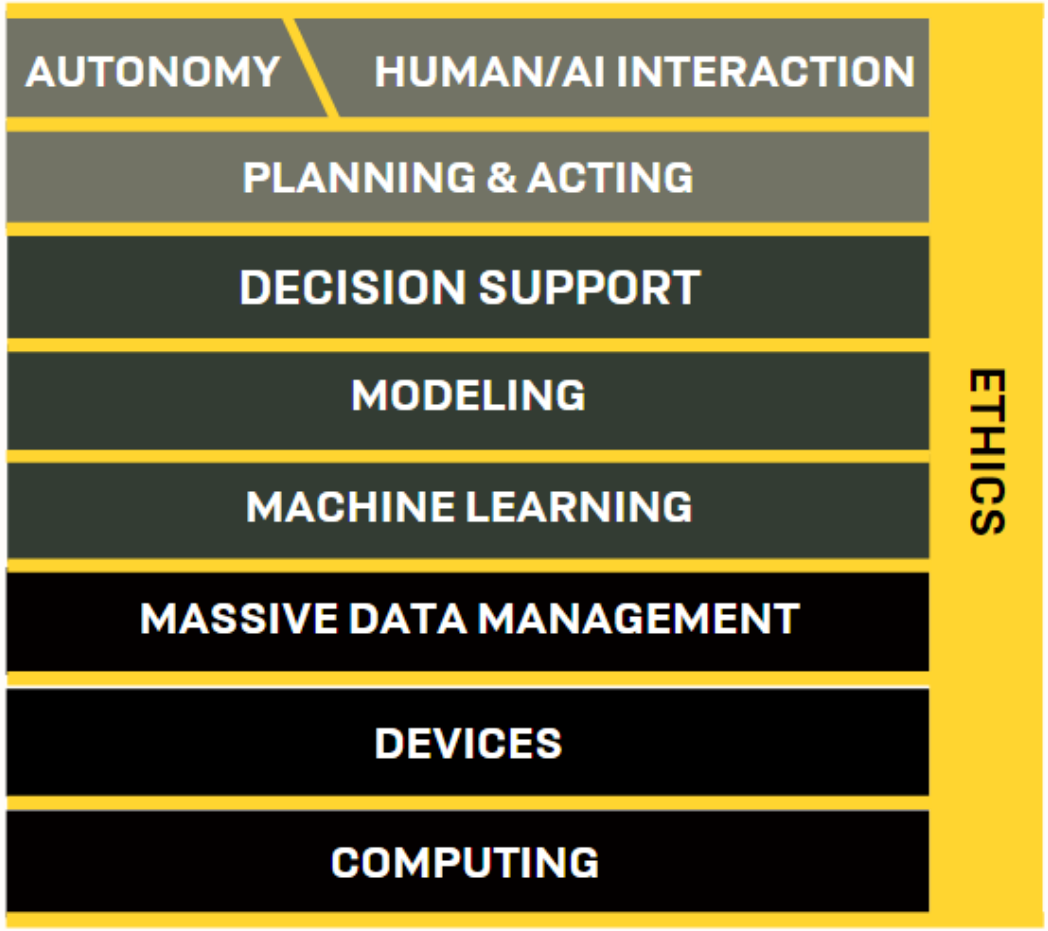
LOE 3: EVOLVE AI INFRASTRUCTURE



BLUF: COEUS is designed to be scalable, modular, portable and open. It is suitable for a broad range of AI projects required by the Army.

common tools • consistent data collection • enable AI experimentation • repeatable processes

LOE 3: EVOLVE AI INFRASTRUCTURE – THE AI STACK



Using this framework as a basis ensures that Artificial intelligence (AI) capabilities provide a holistic approach analogous to DOTML-PFP. Systems dynamics espouses that complex systems have the potential for emergent behavior. The level of complexity induced with intelligent systems enhances the opportunities and risks.

LOE 4: SET THE CONDITIONS FOR AI INTEGRATION

Strategic Partnerships: Leverage the Army AI Hub to better connect with the broader AI community

AAL & CROSS-FUNCTIONAL TEAMS (CFTs)

LRPF		FVL
NGCV		NET
SL		AMD
APN&T		STE

- AI Strategy
- AI Resource Execution
- Advise ASL on AI Prioritization
- Test and Evaluation
- Support AI Integration in PORs

Backup Slides