



DAFITC

DAF CDAO Artificial Intelligence (AI) Roadmap to 2025

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Artificial Intelligence



"...the ability of machines to perform tasks that normally require human intelligence..."

DEPARTMENT OF DEFENSE WASHINGTON DC.

"Summary of the 2018 Department of Defense artificial intelligence strategy:
Harnessing AI to advance our security and prosperity." (2018).

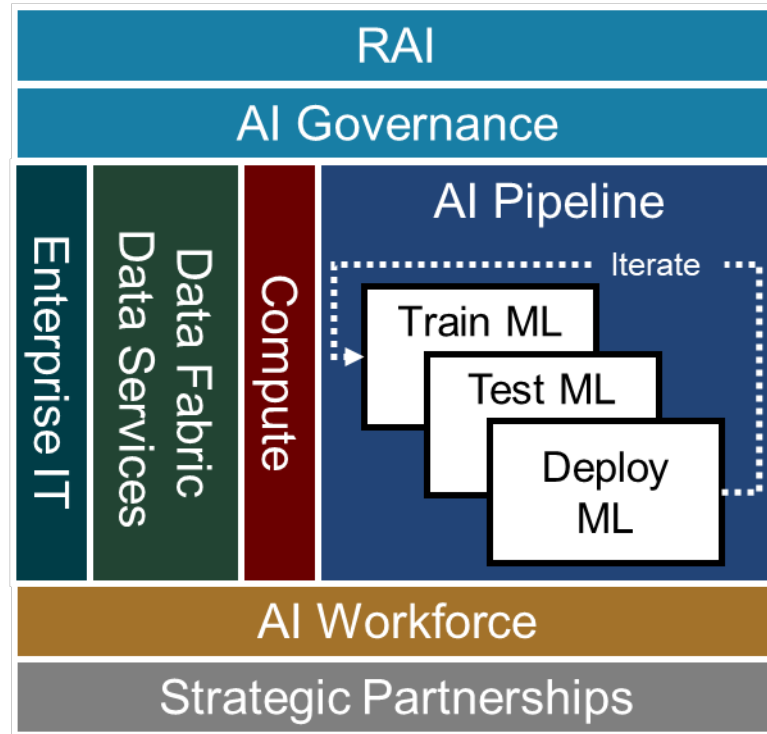
An AI-Ready DoD by 2025:

Warfighters enabled with baseline digital literacy and access to the digital infrastructure and software required for ubiquitous AI integration in training, exercises, and operations.

Schmidt, Eric, et al. "National security commission on artificial intelligence (ai).
" *National Security Commission on Artificial Intelligence, Tech. Rep* (2021).



Artificial Intelligence

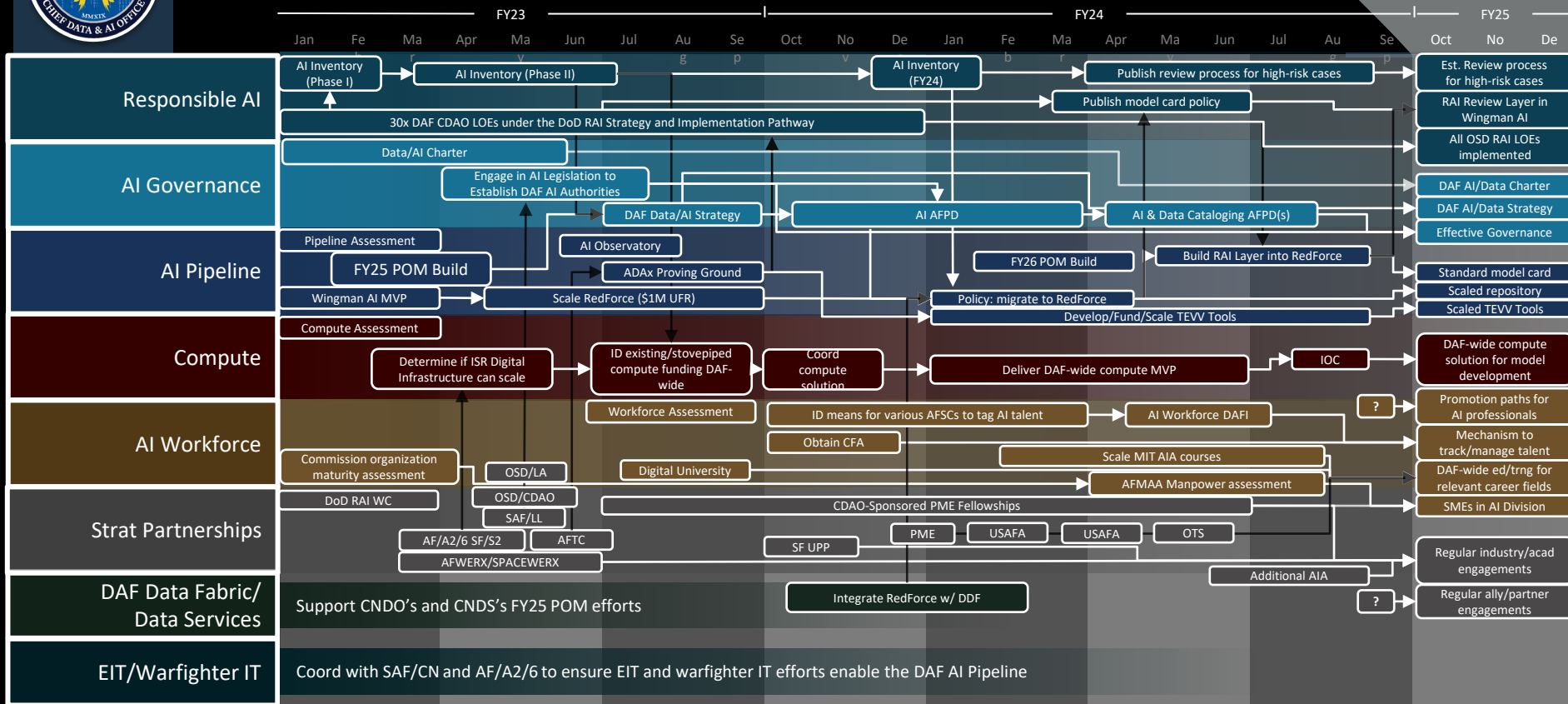


*CMU's AI Tech Stack modified for the DAF



DAF CDAO AI Roadmap to 2025

AI-Ready
by 2025



UNCLASSIFIED

Integrity | Service | Excellence



Responsible AI Roadmap to 2025



Responsible AI

AI Inventory
(Phase I)

AI Inventory (Phase II)

AI Inventory
(FY24)

Publish review process for high-risk cases

Publish model card policy

30x DAF CDAO LOEs under the DoD RAI Strategy and Implementation Pathway

Est. Review process
for high-risk cases

RAI Review Layer in
Wingman AI

All OSD RAI LOEs
implemented

AI Ready

OSD RAI LOE's Implementation

High-risk Use Case Review Process

Wingman AI RAI Review Layer

Efforts	
FY23	FY24
AI Inventory (Phase I/II)	AI Inventory
DOD Pathway/DAF CDAO LOE's	Publish Model Card Policy
	Publish High Risk Use Case Review Process



AI Governance Roadmap to 2025



AI Governance

Data/AI Charter

Engage in AI Legislation to
Establish DAF AI Authorities

DAF Data/AI Strategy

AI AFPD

AI & Data Cataloging AFPD(s)

DAF AI/Data Charter

DAF AI/Data Strategy

Effective Governance

AI Ready

DAF AI/Data Charter

DAF AI/Data Strategy

Effective Governance

Efforts	
FY23	FY24
Data/AI Charter	AI AFPD
Establish DAF AI Authorities	AI & Data Cataloging AFPD
DAF Data/AI Strategy	



AI Pipeline Roadmap to 2025



AI Pipeline

Pipeline Assessment

AI Observatory

FY26 POM Build

Build RAI Layer into RedForce

Standard model card

FY25 POM Build

ADAx Proving Ground

Scaled repository

Scaled TEVV Tools

Wingman AI MVP

Scale RedForce (\$1M UFR)

Policy: migrate to RedForce

Develop/Fund/Scale TEVV Tools

AI Ready

Standard Model Card

Scaled Repository

Scaled Test, Evaluation, Verification, & Validation Tools

Efforts	
FY23	FY24
Pipeline Assessment	RedForce Migration Policy
Wingman AI MVP	Build RAI Layer into RedForce
Scale RedForce	Develop/Fund/Scale TEVV Tools
AI Observatory	
ADAx Proving Ground	



Compute Roadmap to 2025

Compute

Compute Assessment

Determine if ISR Digital Infrastructure can scale

ID existing/stovepiped compute funding DAF-wide

Coord compute solution

Deliver DAF-wide compute MVP

IOC

DAF-wide compute solution for model development

AI Ready

DAF-wide Compute Solution for Model Development

Efforts	
FY23	FY24
Compute Assessments	Compute Solutions
ISR Digital Infrastructure Assessment	DAF-wide Compute MVPs
Compute Fundings	IOCs



AI Workforce Roadmap to 2025



AI Workforce

Commission organization maturity assessment

Workforce Assessment

ID means for various AFSCs to tag AI talent

AI Workforce DAFI

Obtain CFA

Digital University

Scale MIT AIA courses

AFMAA Manpower assessment

Promotion paths for AI professionals

Mechanism to track/manage talent

DAF-wide ed/trng for relevant career fields

SMEs in AI Division

AI Ready

AI Professionals' Promotion Path

Talent Management and Tracking Mechanism

Related Career Fields' Education and Training

AI Division SME Manning

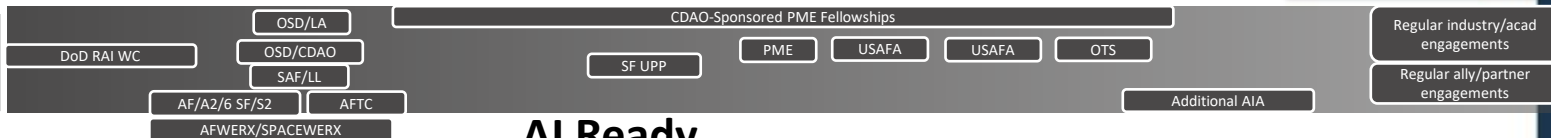
Efforts	
FY23	FY24
Workforce Assessment	AI Talent Tags
Digital University	Cross Functional Authority
	AI Workforce DAFI
	Scale MIT AIA Courses
	AFMAA Manpower Assessment



Strategic Partnerships Roadmap to 2025



Strat Partnerships



AI Ready

Systematic Industry & Academic Engagements

Systematic Ally & Partner Engagements

Efforts	
FY23	FY24
DoD RAI Working Council	CDAO-sponsored PME Fellowships
OSD LA	SF UPP
OSD CDAO	PME
SAF/LL	USAFA
AF A2/6, SF/S2	OTS
AFTC	Additional AIA
AFWERX/SPACEWERX	



Resources



- AI For Everyone Course (DeepLearning.AI), <https://www.coursera.org/learn/ai-for-everyone>
- Allen, Greg (2020) Understanding AI Technology, <https://www.ai.mil/>



QUESTIONS?