

Headquarters U.S. Air Force

Integrity - Service - Excellence

Department of the Air Force AI Strategy Fast Follow-Project

WarMatrix



U.S. AIR FORCE



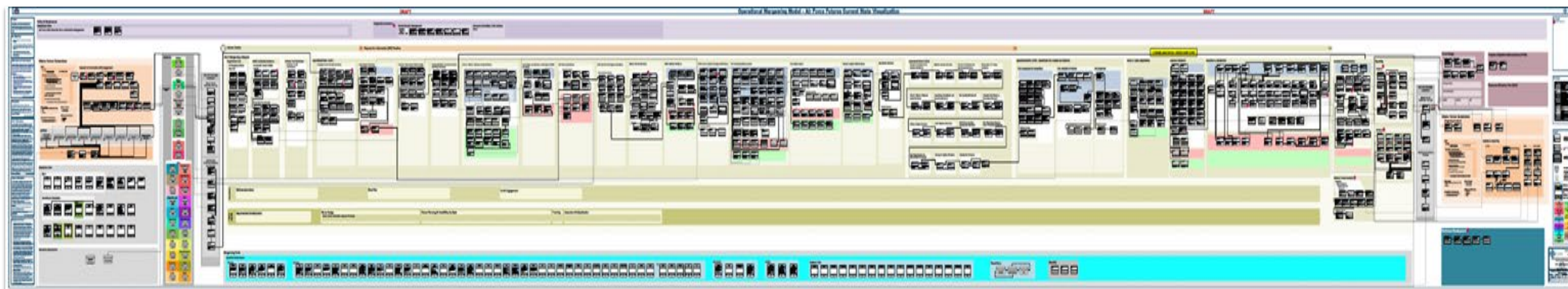


U.S. AIR FORCE

DISTRIBUTION A

Legacy Wargaming

Wargaming and Force Design Methodology



*12-18 months to execute a war game based on qualitative planning and adjudication
Disconnected from Modelling and Simulation*

DISTRIBUTION A

Integrity - Service - Excellence



U.S. AIR FORCE

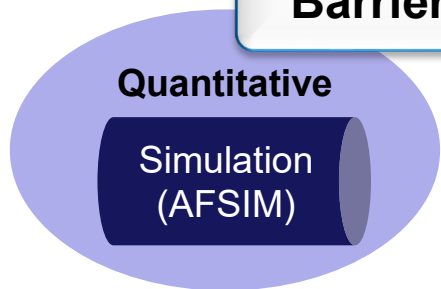
DISTRIBUTION A

Modern Wargaming

"How do we design and build a winning Joint Force?"
"How will we employ it in operations?"

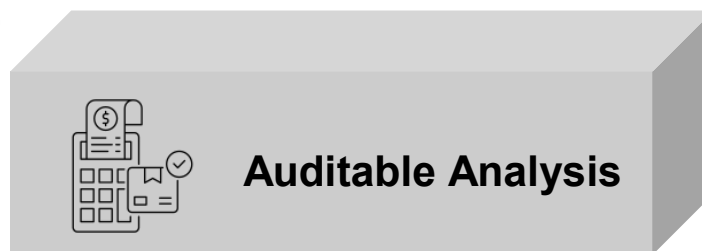
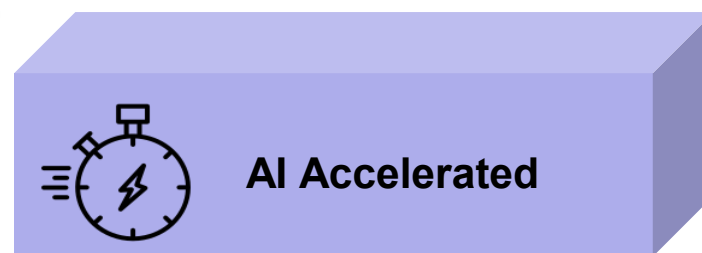
Today

High-risk programmatic decisions
made with incomplete data



Barriers

Databases
Compute Speed
User Interface
Classification



Tomorrow

Integrated analysis for confident
investment and operational
decisions at speed



DISTRIBUTION A

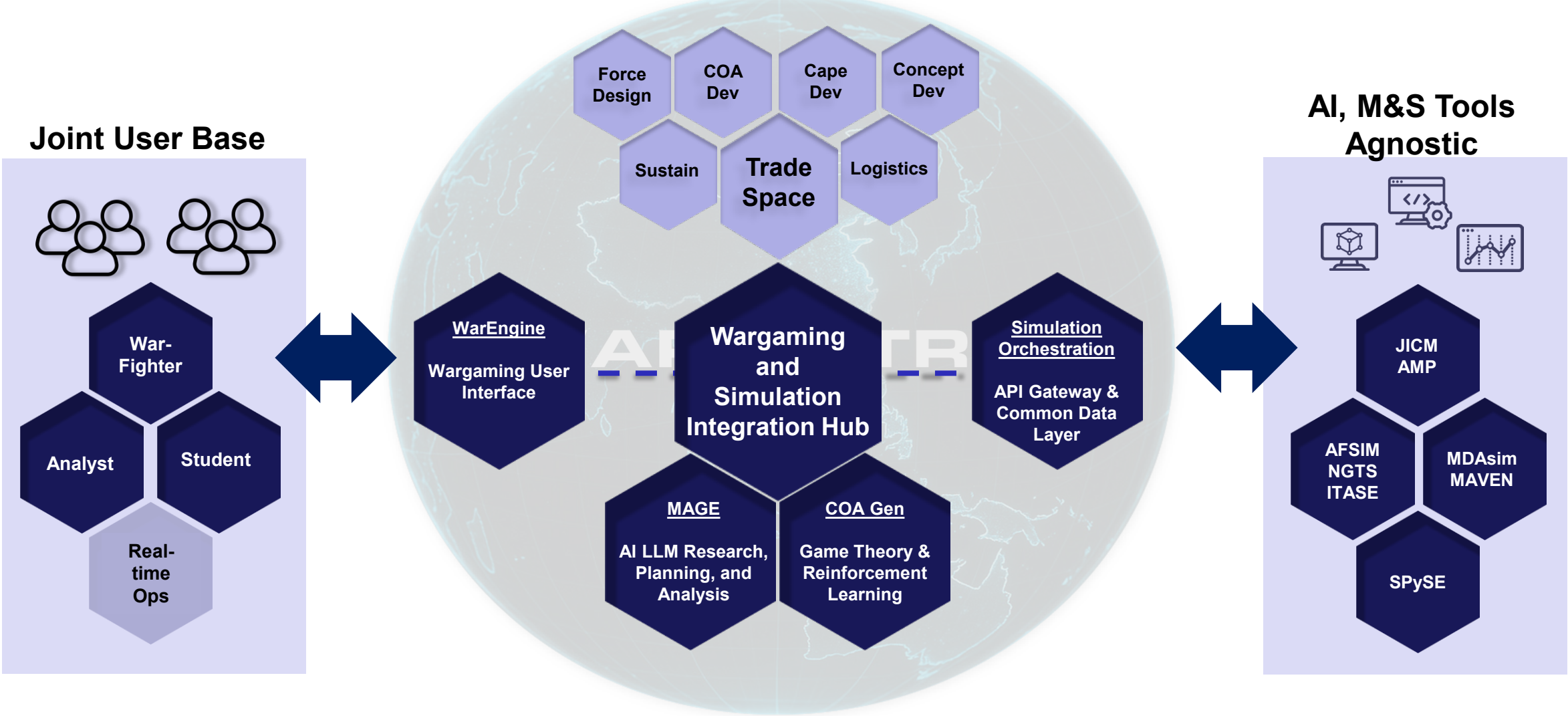
Integrity - Service - Excellence



U.S. AIR FORCE

DISTRIBUTION A

WarMatrix Overview



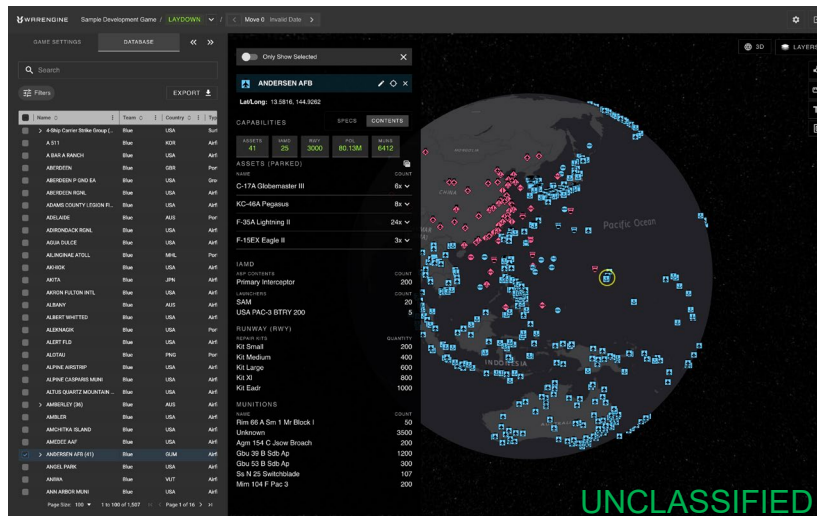
DISTRIBUTION A

Integrity - Service - Excellence

WarMatrix

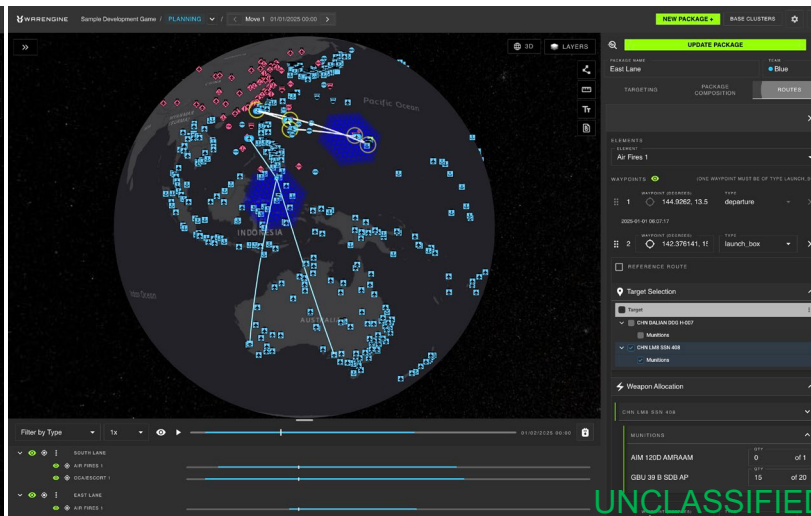
Min Viable Product

Laydown



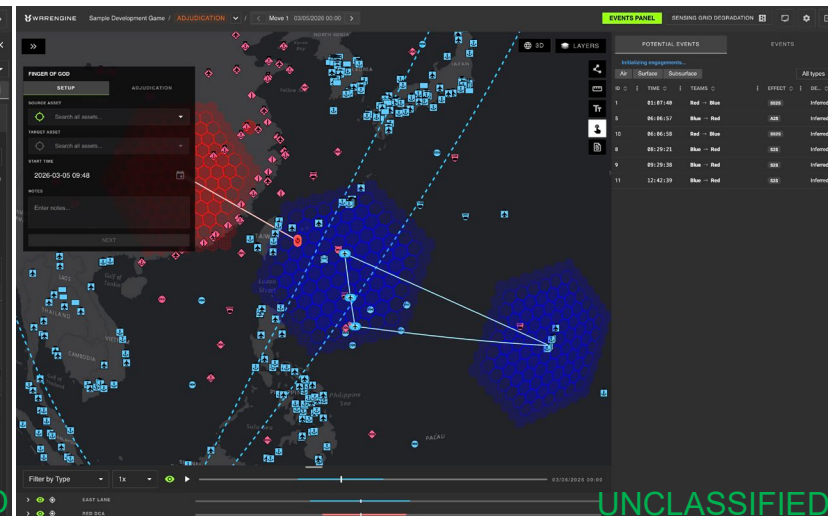
- Order of Battle
- Scenario Management
- Search and Filter
- 22k platforms/1.2 million data points

Planning



- Real-time Operational Insights
- Physics (M&S) Based Feasibility Checks
- Natural Language Command Intent

Adjudication

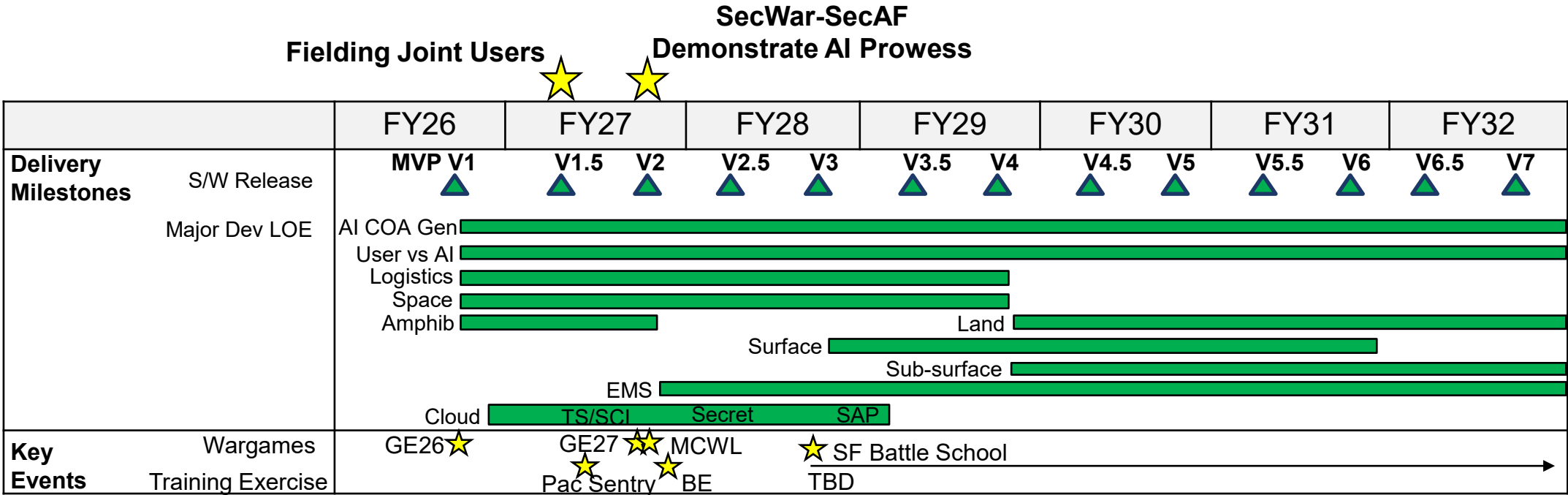


- 100% Engagement Adjudication
- AFSIM generated outcomes
- Immediate insight generation
- Event Logging and Traceability

150+ Joint & Coalition users demonstrated a 70%-80% decrease in wargame/OPLAN development timelines with physics backed adjudication of campaign events!



WarMatrix: Roadmap





U.S. AIR FORCE

DISTRIBUTION A

Community of Interest

- INDOPACOM
- CENTCOM
- USARPAC Dir Future Plans & Concepts
- OSW/CAPE
- OSW/SOLIC
- OSW/SCO
- OSW/A&S
- PACAF/CC
- SAF/CDAO
- SAF/SA
- HAF/A2
- SF/S2
- HAF/A5/7
- USMC MCWL
- 479 OG
- AETC
- USAFA
- Air University
- USSF Delta 10
- MDA
- Army Future & Concepts Command
- RAAF AUS
- AF Weapons School
- Army Contracting Command
- USSF Battle School
- Code Metal
- ESRI
- OpenAI
- NVIDIA

DISTRIBUTION A

Integrity - Service - Excellence



U.S. AIR FORCE

DISTRIBUTION A

Get off the stage...

- WarMatrix: Teams humans with machines to arrive at a better answers faster
- Designed and developed with wargaming and operational SMEs across the Air Force, Navy, Marines, and Army.
- Government Purpose Rights – USG, industry, academia, Coalition
- 1st software release winter 2026, 2nd spring 2027
- IL5-6-7 deployments via Gemstone in CY27-CY28
- OSW/CAPE: Next-Gen Wargame decision TBD

DISTRIBUTION A

I n t e g r i t y - S e r v i c e - E x c e l l e n c e



U.S. AIR FORCE

Questions

