



# Project Linchpin

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**PRODUCT LEAD – PROJECT LINCHPIN**

**PEO**  
**IEW&S**

Program Executive Office  
Intelligence, Electronic Warfare & Sensors

# ASA(ALT) Senior Leadership Organizational Chart





### PM Aircraft Survivability Equipment (ASE)

Develop and field aircraft survivability systems to maximize survivability of Army aircraft without degrading combat mission effectiveness.



### PM Cyber & Space (C&S)

Continuously develop and deliver foundational and offensive cyber capabilities in support of Army and Joint cyber efforts. Develop, acquire, and field innovative sensor technology to the tactical space layer



### PM Defensive Cyber OPS (DCO)

Continually deliver world-class defensive cyber capability and integrated, innovative and cost-effective systems and services for the global cyber defender.



### PM Electronic Warfare & Cyber (EW&C)

Acquire integrated Intel, EW, and Cyber capabilities to provide Spectrum and Cyberspace Superiority to enable freedom of maneuver on the Battlefield.



### PM Intel Systems and Analytics (IS&A)

Support the Army's ISR mission for processing, exploitation, and dissemination (PED) of information and intelligence data across echelons.

## Sensor And Sensor Processing Systems Across the PEO Portfolio Enable ISR, Intelligence Production, Integrated Base Defense, Force Protection

### PM Position, Navigation, & Timing (PNT)

PNT leads the Army in developing and integrating PNT technology and collaborates with the other DoD Services to deliver interoperable, reliable products.



### PD Sensors Aerial Intelligence (SAI)

Develop, acquire, field, and supply life cycle support to modernized, integrated, and tactically relevant aerial ISR sensor and sensor processing payloads.



### PM Terrestrial Sensors (TS)

Provide sensors for enhanced situational awareness and decisive action and Integrated Base Defense



### PD Tactical Exploitation of National Capabilities (TENCAP)

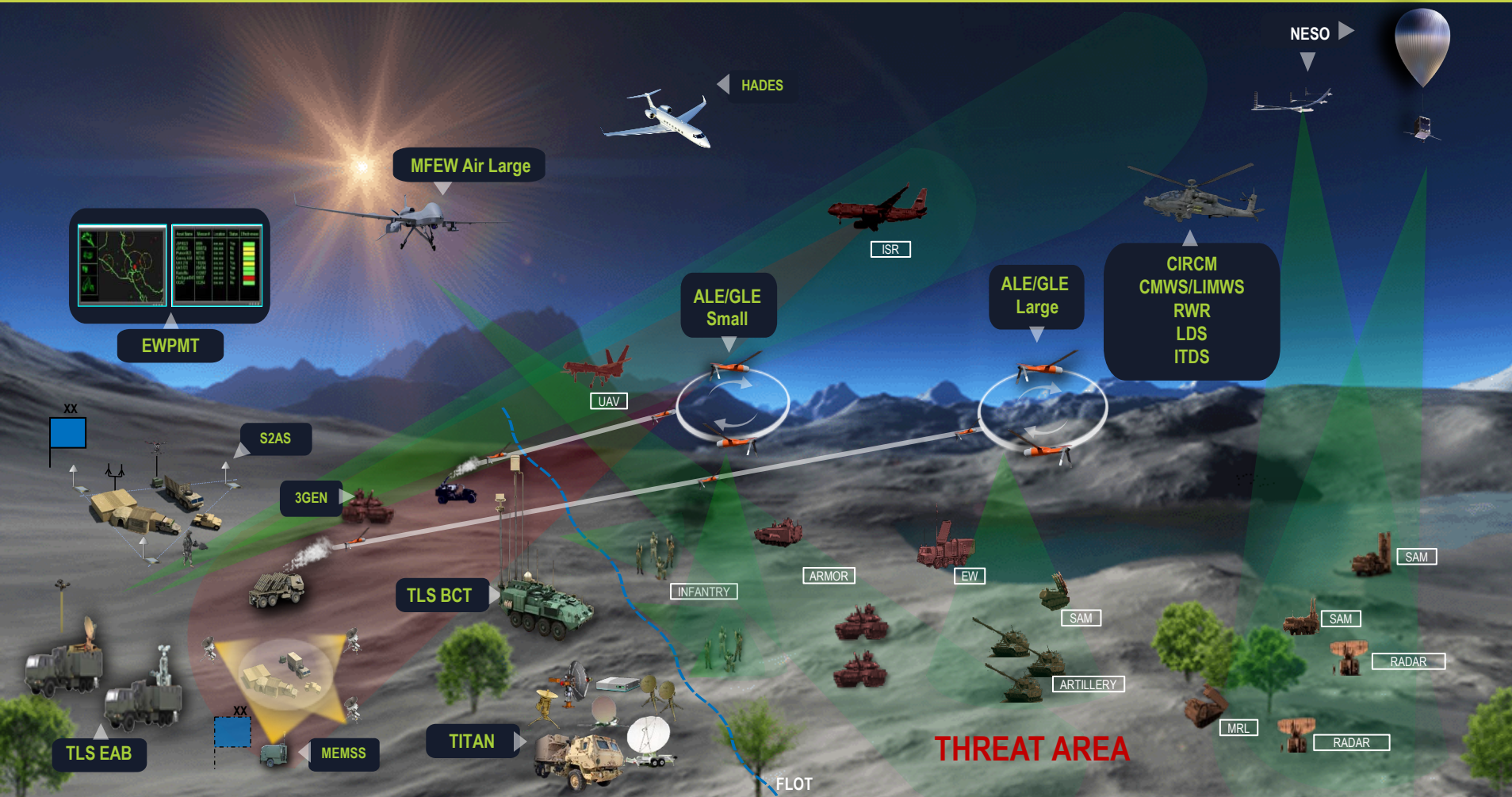
Enable the Army to rapidly exploit and influence national capabilities and architectures to conduct advanced development and rapid prototyping to enhance and inform Army capabilities and CONOPS to pace the threat



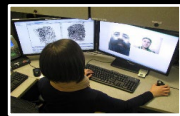
### PEO IEW&S Integration Directorate

Develop system architectures, threat and gap analyses, open standards, S&T plans, and modeling and experimentation across the portfolio in support of the CFTs, AFC, ISR TF, and IEW&S strategic growth.





- ALE – Air Launched Effects
- ABIS – Automated Biometric Identification System
- BAT-A – Biometrics Automated Toolset – Army
- BCT – Brigade Combat Team
- CIRCIM – Common Infrared Countermeasure
- CMWS – Common Missile Warning System
- EAB – Echelons Above Brigade
- EW – Electromagnetic Warfare
- EWPMT – Electronic Warfare Planning & Management Tool
- FLOT – Forward Line of Troops
- GLE – Ground Launched Effect
- HADES – High Accuracy Detection and Exploitation System
- ITDS – Improved Threat Detection System
- LDS – Laser Detection System
- LIMWS – Limited Interim Missile Warning System
- MEMSS – Modular Electromagnetic Spectrum System
- MFEW – Multi-Function Electronic Warfare
- MRL – Multiple Rocket Launcher
- NESO – NAVWAR EW Systems Overhead
- RWR – Radar Warning Receiver
- S2AS – Spectrum Situational Awareness System
- SAM – Surface to Air Missile
- TITAN – Tactical Intelligence Targeting Access Node
- TLS – Terrestrial Layer System
- UAV – Unmanned Aerial Vehicle



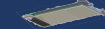
DoD ABIS



BAT-A

APNT / NAVWAR

CMOSS PNT Card



Mounted APNT



Dismounted APNT



CYBER



JCAP

COMPUTER VISION



DEEP/ REINFORCEMENT LEARNING



MULTIMODAL



AI Enablers "Tasks"

UNCLASSIFIED



NATURAL LANGUAGE PROCESSING



AUDIO



TABULAR

**Organizational Standup**

**Governance and Process**

AI Policy, Regulations, & Guidance

**Program Initiation**

**DoD / IC Partnerships**

Department of Defense / Intelligence Community

## FY24 Plan & Purpose

PROJECT LINCHPIN

ARMY'S FIRST AI FOCUSED PROGRAM OF RECORD!

**TORC**

Traceability Observability / Orchestration  
Replaceability automated Consumption

**Pilots and Prototyping**

**AI Layered Defense Framework**

**SBIRs**

Small Business Innovative Research

## Vision:

- ❑ Deliver trusted Artificial Intelligence (AI) capabilities to Army programs

## Mission:

- ❑ Establish Standards, Process, and Governance through a centrally managed program with a decentralized architecture; Maximize Department of Defense and Intelligence Community AI investments to establish a secure and trusted AI Operations Training Environments and AI Services; Create a **collaborative and competitive ecosystem of Industry Partners** for a continuous assessment and integration of best of breed Industry Products, Solutions, and Services enabled by a rapid **multi-contracting strategy**.

## The Team

- ❑ Project Linchpin’s staff includes members from the Army Futures Command’s (AFC) - Artificial Intelligence Integration Center (AI2C), Development Command (DEVCOM) - Army Research Labs (ARL), DEVCOM Software Engineering Center (SEC), Army Geospatial Center (AGC), and Command, Control, Computers, Communications, Cyber, Intelligence, Surveillance, and Reconnaissance (C5ISR)
- ❑ Enabling Organizations: The Office of the Secretary of Defense - Chief Data and Artificial Intelligence Office (OSD-CDAO), Research & Engineering (OSD-R&E) (Trusted AI and Autonomy), National Geospatial Agency (NGA – MAVEN), National Security Agency (NSA), and growing!



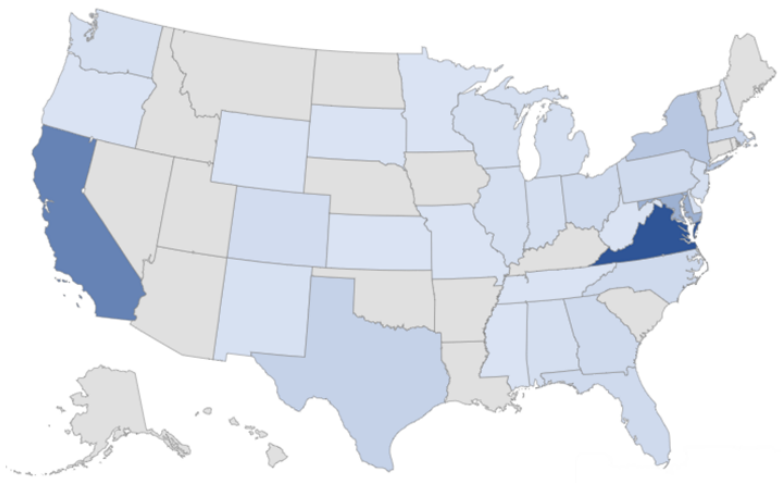
## Program Status:

- ❑ Entered the Adaptive Acquisition Framework’s Software Pathway (AAF SWP) Planning Phase on 01 November 2023
- ❑ Draft SW-ICD in progress entering CAMS for worldwide staffing NLT May2024
- ❑ Actively Piloting w/Operational Units and Programs to inform enduring AI strategies and the Program

December 2022 - Present

## Market Research Approach

- Official Requests for Information (RFIs) via SAM.gov
- “Speed Dating” with Industry: ~25-minute one-on-ones at Army events (NCFT / PEO C3T TEM 9-11, AUSA, etc.)
- “Open-door” Industry engagement policy: Last Friday of every month – 30-minute one-on-ones with potential follow-ons for demos & in-person information exchange sessions
- Social Media: LinkedIn, Facebook
- Leverage OSD-CDAO’s Tradewinds platform



## Market Research Highlights

- 4x RFIs released on SAM.gov
- 289 Total Responses
- Engaged with over 235 unique companies involved in the AI / MLOPs landscape
  - ~63% Small Businesses
  - ~67% Non-traditional Defense Contractors
- Headquartered in 32 different states / provinces
  - ~40% located in the DMV area (~10% MD based)
  - ~20% located in “Tech HUBs” (Silicon Valley, Austin, Seattle)
- Participated in over 550 individual engagements with industry

## Bottom Line:

Industry AI Ecosystem Is Growing *Everyday*  
Our Goal: Create a multi-pronged competitive but collaborative Contracting Approach

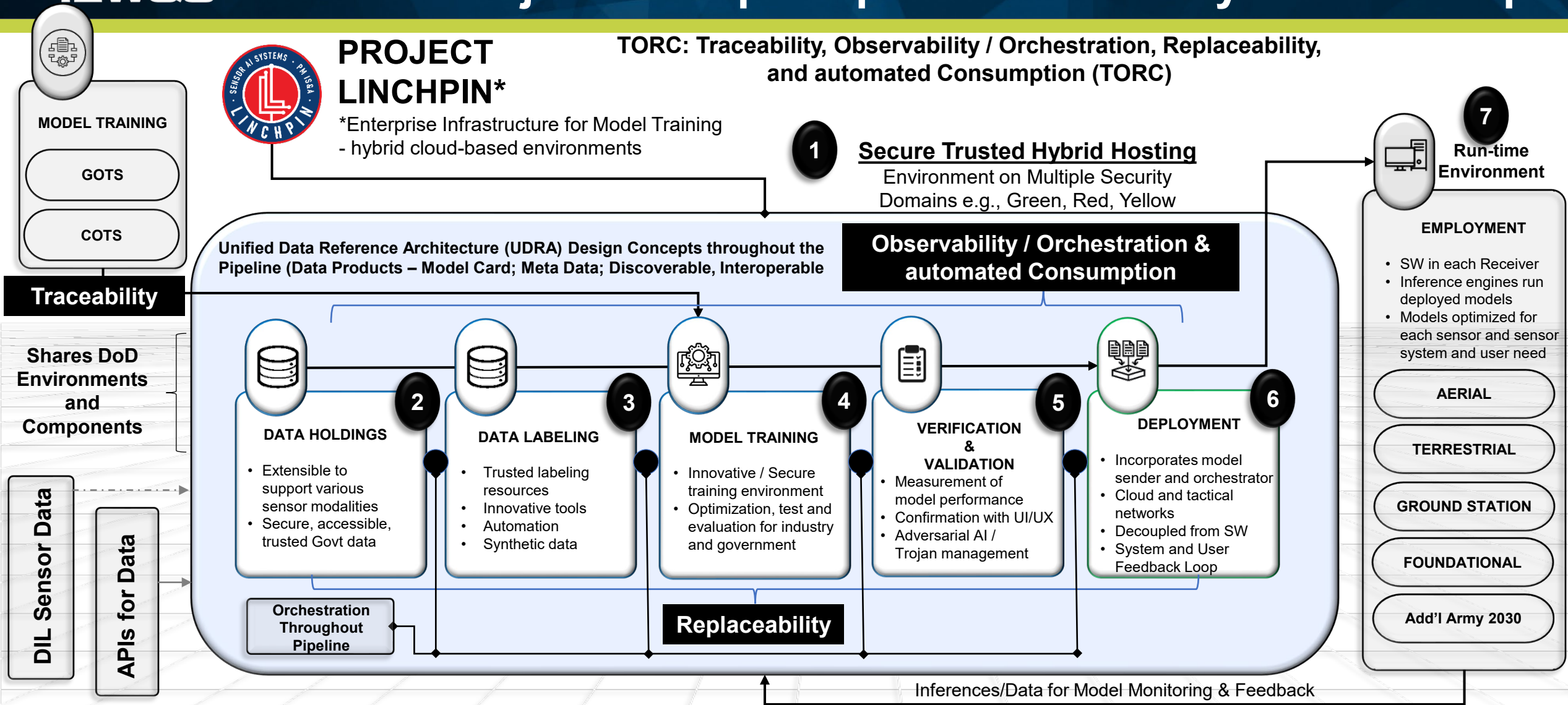
# Project Linchpin Operational and System Concepts



## PROJECT LINCHPIN\*

\*Enterprise Infrastructure for Model Training  
- hybrid cloud-based environments

TORC: Traceability, Observability / Orchestration, Replaceability, and automated Consumption (TORC)



*Artificial Intelligence Operations and Services (AIOps+) includes the industry recognized practices of AI/Machine Learning Operations (AI/MLOPs) and PL AI ecosystem, PL standardized approaches (e.g. AI Risk Framework), PL design principles, and the secure trusted environments and services which enable the delivery of AI solutions to AI-enabled programs. AIOps+ adopts the tenets of AI/MLOPs, a disciplined approach which includes people, tools/technologies, process, and governance to manage the entire lifecycle of an AI/ML model. A lifecycle which spans from initial data collection/holdings, through data labeling, model training, test & evaluation, validation & verification, deployment, and subsequent post-deployment model monitoring and feedback of operational data to improve the next generation of models.*



- ✓ Labeling – Active; *Over 1M+ Labels*
- ✓ Consulting Services – In Progress
- ✓ T&E (JATIC) – In Progress
- ✓ Data Management Platforms – In Progress
- ❑ Cloud Storage – Highly Desired!
- ❑ Compute – Highly Desired!
- ❑ Labeled Data Mesh - Planning
- ❑ Containerization - Planning
- ❑ Acquisition Vehicles - Assessing
- ❑ Policy and Standards - Planning
- ❑ Model Building Tech Stacks - TBD





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