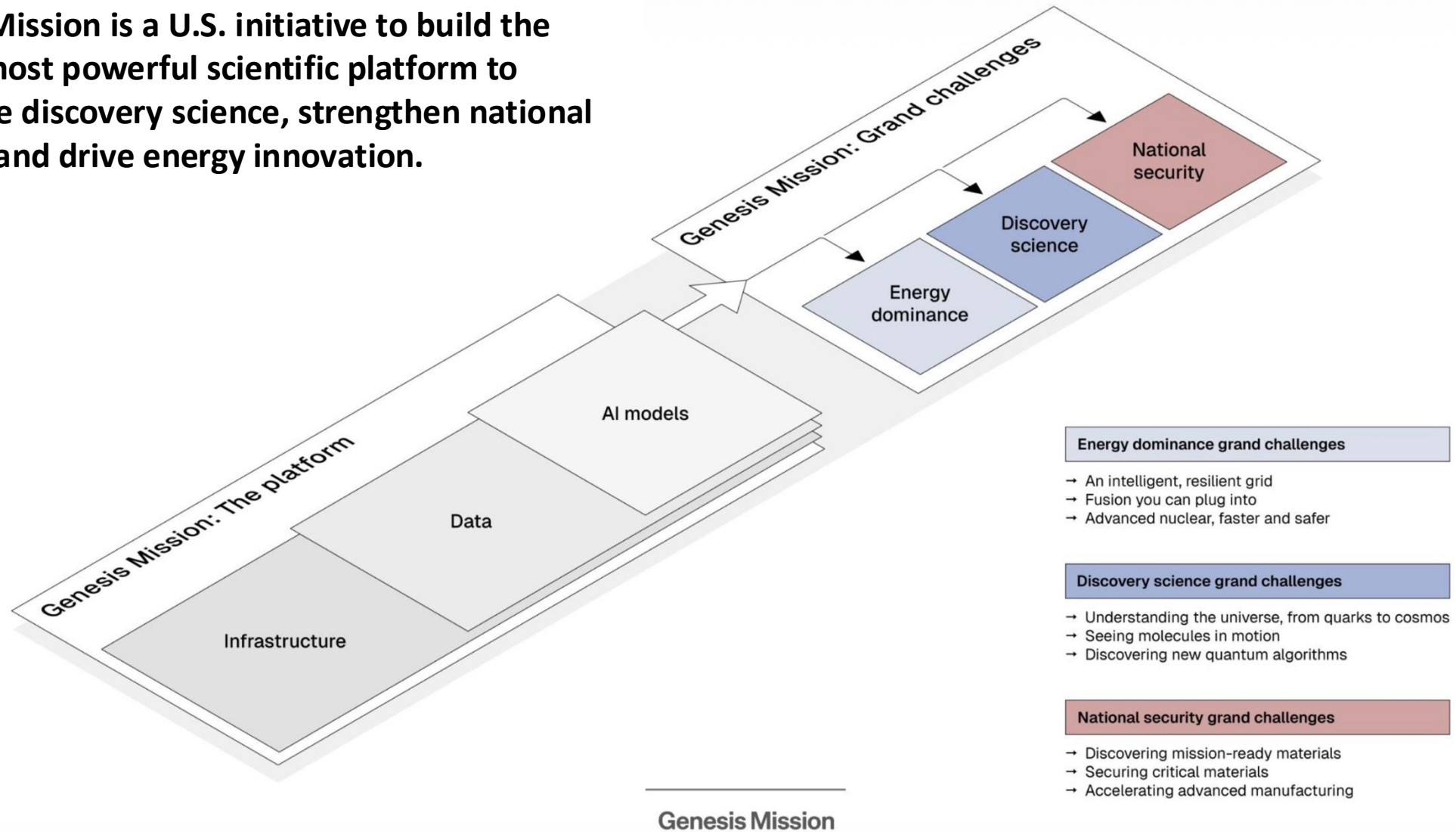


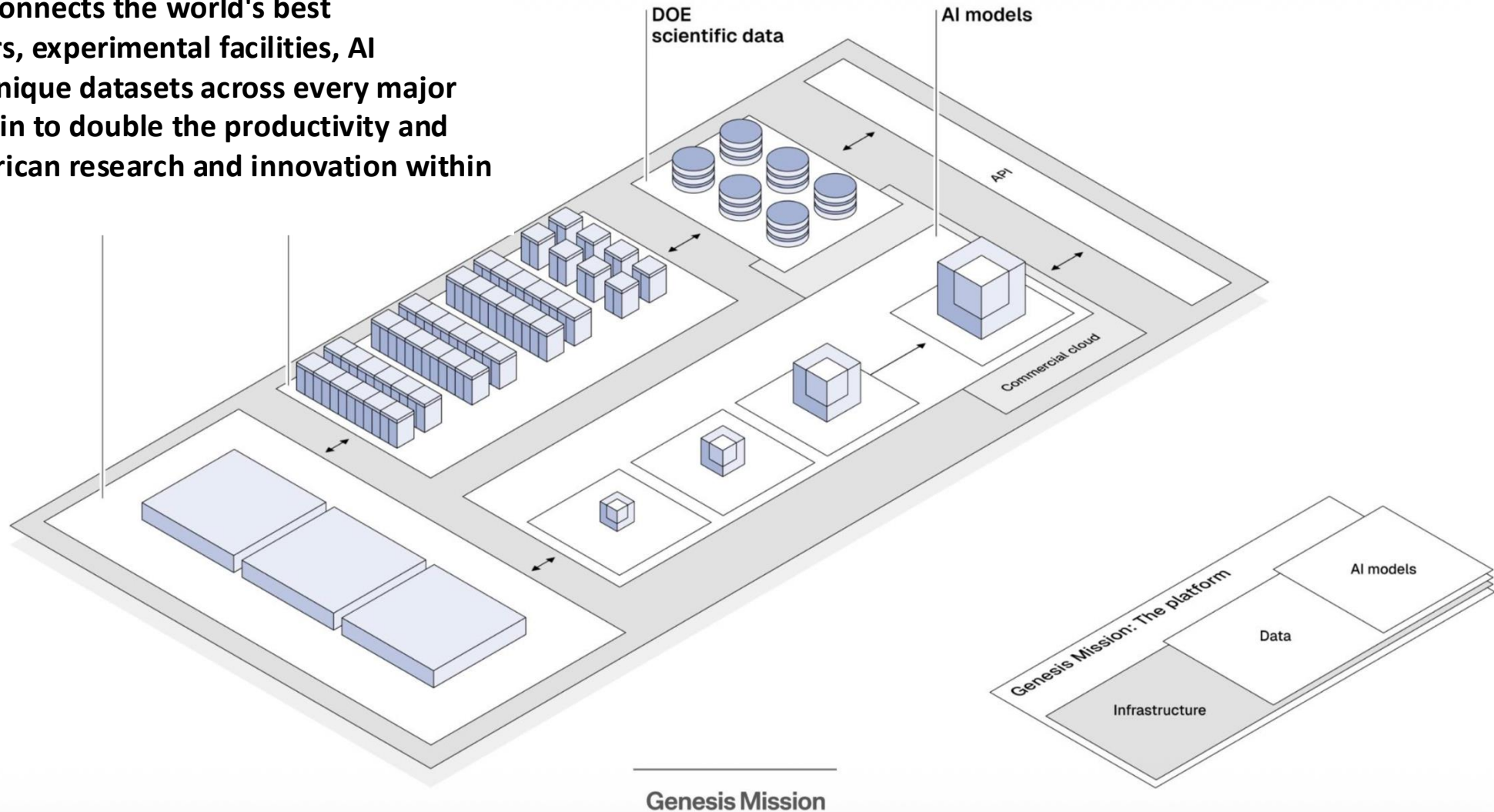
Genesis Mission Overview

Genesis Mission is a U.S. initiative to build the world's most powerful scientific platform to accelerate discovery science, strengthen national security, and drive energy innovation.



Genesis Mission Platforms

Genesis Mission will develop an integrated platform that connects the world's best supercomputers, experimental facilities, AI systems, and unique datasets across every major scientific domain to double the productivity and impact of American research and innovation within a decade.



Genesis Mission Proposal



U.S. DEPARTMENT of ENERGY

Office of Science (SC), Office of Critical Minerals and Energy Innovation (CMEI), Office of Environmental Management (EM), Office of Electricity (OE), Hydrocarbons and Geothermal Energy Office (HGEO), and Office of Nuclear Energy (NE)



Genesis Mission

The Genesis Mission: Transforming Science and Energy with AI

Notice of Request for Application (RFA) Number:
DE-FOA-0003612

RFA Type: Initial
Assistance Listings: 81.049

RFA Issue Date:	March 17, 2026
Submission Deadline for FY26 Phase I Applications:	April 28, 2026, at 11:59 PM Eastern
Submission Deadline for FY26 Phase II Letters of Intent:	April 28, 2026, at 5 PM Eastern
Submission Deadline for FY26 Phase II Applications:	May 19, 2026, at 11:59 PM Eastern
Submission Deadline for Phase II Applications resulting from FY26 Phase I Awards:	December 17, 2026, at 11:59 PM Eastern

Soliciting applications from **interdisciplinary teams** addressing the Genesis Mission Challenges to accelerate scientific discovery and R&D workflows using novel AI models and frameworks.

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Expected total available funding	DOE anticipates a total of \$293.76 million in prior and current fiscal year funds will be used to support awards under this RFA.
Expected number of awards	The exact number of Phase I awards will depend on the number of meritorious applications and the availability of appropriated funds.
Expected dollar amount of individual awards	Phase I: \$500,000 to \$750,000 Phase II: Envisioned as 3 to 5 times the Phase I award.
Expected award project period	Phase I: 9 months; Phase II: 3 years.

Proposal **Priorities**

- Demonstrate Advantages of AI
- Develop Scalable Workflows
- Build Strong Multi-Institutional Teams
- Integrate with the DOE Ecosystem

Proposal priorities align strongly with ePIC.

Why Genesis Mission Matters for ePIC?

Opportunities:

- Broader engagement with and in ePIC Software & Computing,
- Expand our workforce.
- Increase visibility of AI within ePIC.

Challenges:

- Impact depends on alignment with ePIC priorities.

14a) Foundation Models of Particle Interactions and Cosmic Physics (HEP, NP)

- Foundation models for event reconstruction
- Predict event kinematics from cluster and hit data
- Next step: Inclusive, semi-inclusive, and exclusive DIS kinematics from EICrecon output.

14c) Expedited Discovery from High-Complexity and Petabyte-Scale Datasets (HEP, NP)

- Classify streaming data into physics events and background
- Model background for analysis
- Next step: Demonstrate improved precision for one example measurement

18b) Automated Scientific Problem-to-Code Generation (ASCR)

- Connects to PCS demonstration.
- Translate physics requests into executable workflows.
- Enable HPC/HTC orchestration.

Genesis Mission Discussion

- Genesis Mission is an opportunity for ePIC.
- Success depends on **alignment with our priorities.**
- We should **actively coordinate proposals now.**

Discussion on bringing groups together and aligning behind ePIC-related ideas.