

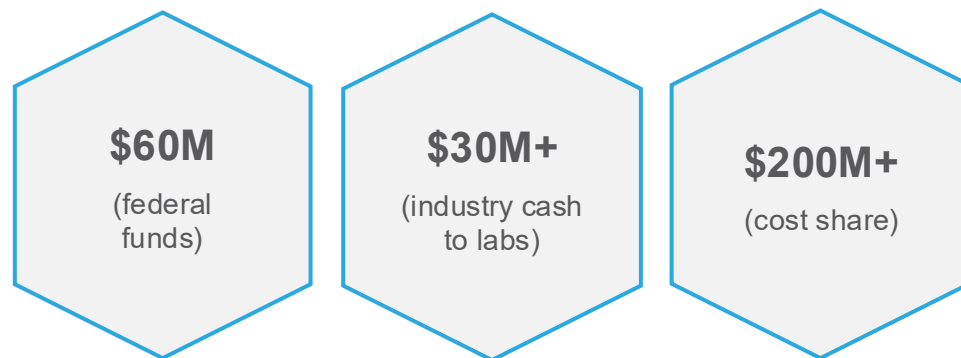
PROMETHEUS

A platform to accelerate nuclear deployment

Industry Partnership Consortium

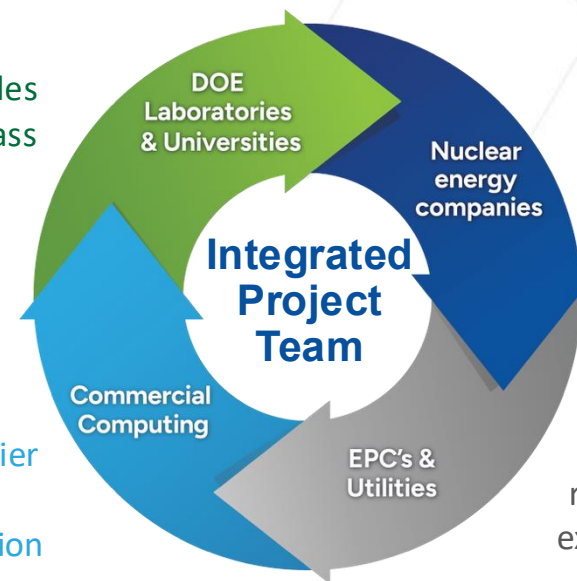
Prometheus Proposal: Largest Genesis Mission Win DOE-Wide

Awarded
July 22nd



Contribute decades of data, world-class codes, and DOE-scale compute

Compute, frontier AI models, and commercialization channels



Real reactor data, and direct pathway to AI-accelerated workflows

Buildable, operable reality, construction execution of running actual plants

DOE Laboratories



Universities



Commercial Computing Companies



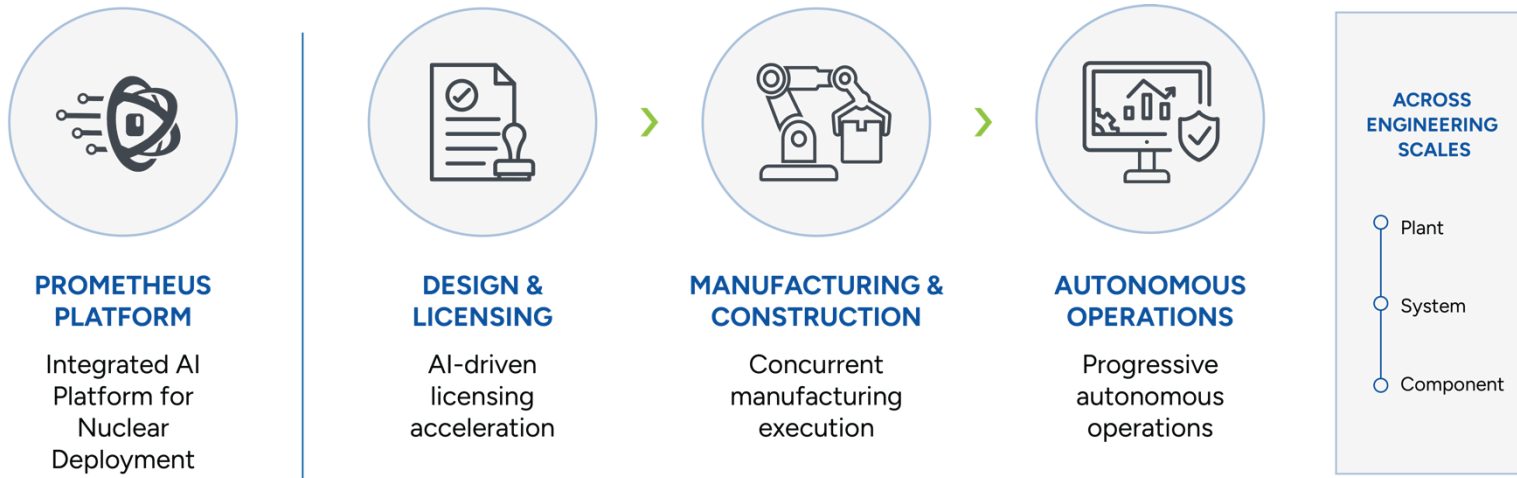
Nuclear Energy Companies



Prometheus Mission Statement



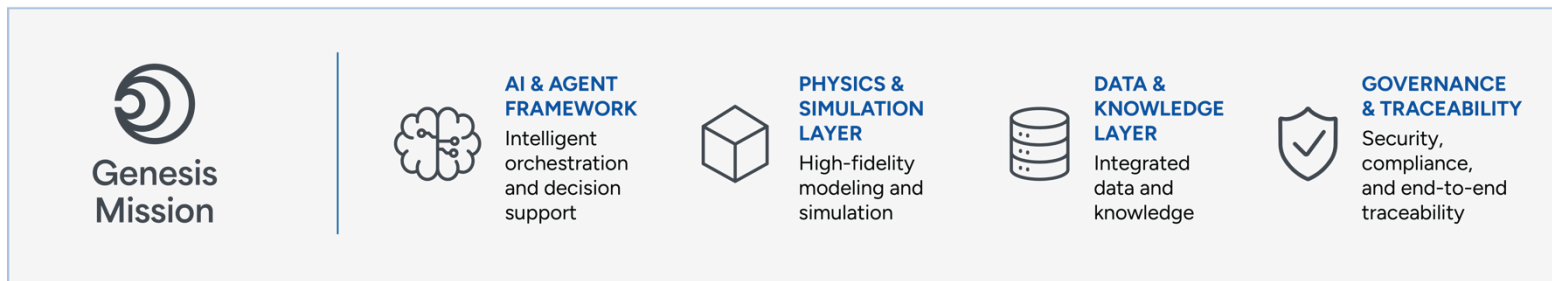
Three Focus Areas, Bridging Scales of the Nuclear Energy Domain



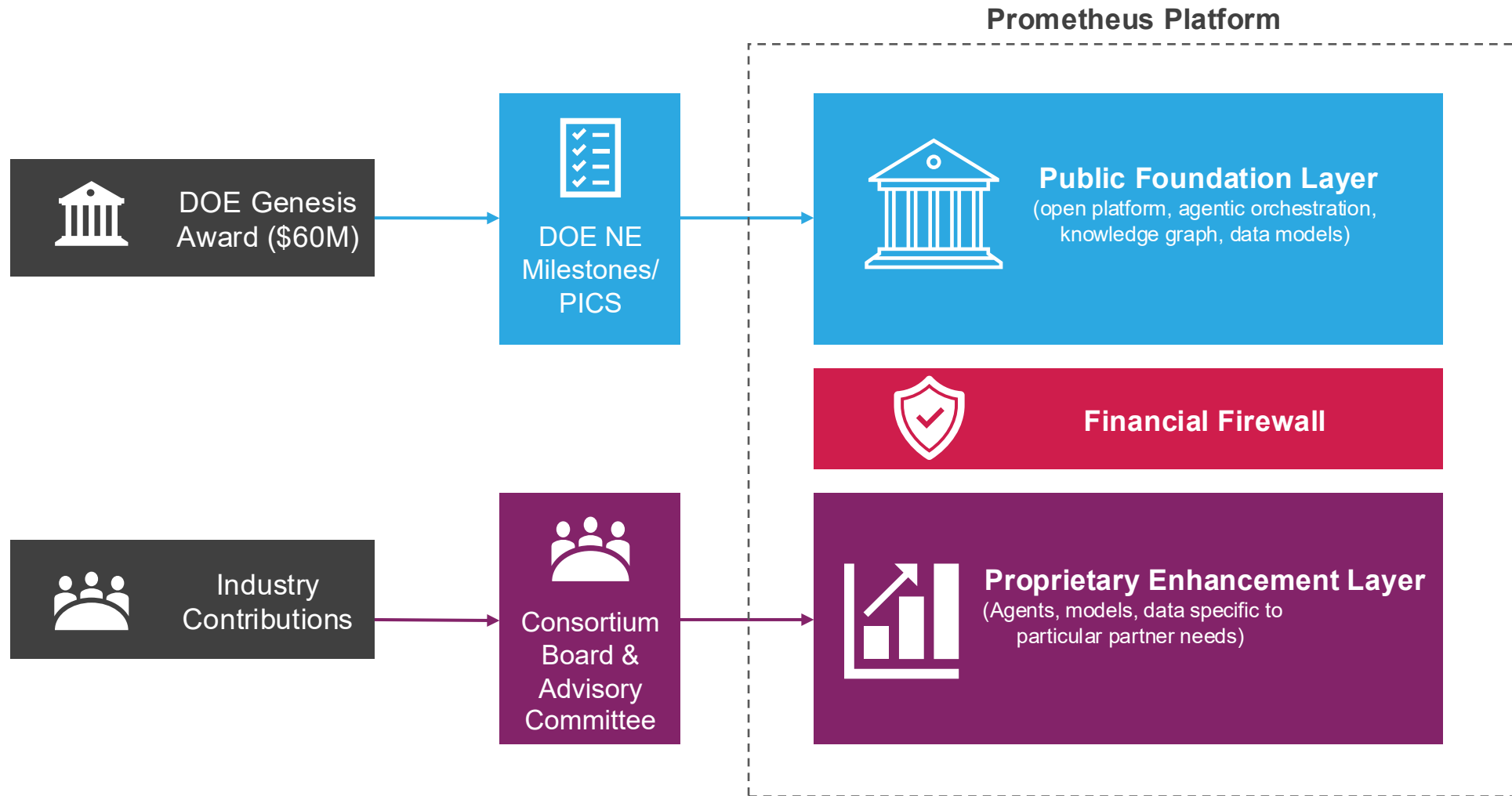
Prometheus: A first-of-its-kind initiative to accelerate new nuclear energy deployment by using AI to design, license, and manufacture reactors with human-in-the-loop workflows, while reducing power plant operating costs through autonomous operations

Strategic Impact: Supports U.S. goal to reach 400 GW nuclear capacity by 2050 in addition to meeting existing demand from data centers

Public-Private Partnership: Uniting national labs, AI developers, and industry for shared innovation and leadership



Parallel Efforts, One Platform



Consortium Tiers & Governance

Tier	Contribution	Board of Directors	Advisory Committee
Tier 1	\$10,000,000 investment	1 voting seat	1 seat with full participation rights
Tier 2	\$6,000,000 (\$2,000,000/year × 3 years)	1 observing seat	1 seat with full participation rights
Tier 3	≤ \$5,000,000 in-kind contributions in specified technical areas	None	1 non-voting participant

Platform & Data Access

Tier	Proprietary Platform Access	Data Access
Tier 1	- Royalty-free license to surrogate models, agentic workflows, and proprietary tools 6-month early access to Proprietary Enhancement Layer, including source code	- Full access to project pool data¹ - Full access to project data catalog² - Federated learning participation³
Tier 2	- Royalty-free license to surrogate models, agentic workflows, and proprietary tools 3-month early access to Proprietary Enhancement Layer, no source code	- Specific access to project pool data¹ - Full access to project data catalog² - Federated learning participation³
Tier 3	- Royalty-free license to agentic workflows and proprietary tools - Standard access to Proprietary Enhancement Layer - no early access, no source code	- Full access to project data catalog² - Federated learning participation³

1. All data collected from the Prometheus Platform

2. All associated metadata and information from the Prometheus Platform

3. Optimized model parameters will be shared, while all underlying data will remain within each individual company's system.

Prometheus Project Roadmap

	FY-27: BUILD AND TEST	FY-28: SCALE	FY-29: TRANSITION
PLATFORM & INFRASTRUCTURE	Prometheus platform live and integrated with GM Platform	Full workflow library	Packaged for industry transfer
DESIGN & LICENSING	End-to-end prototypes	15+ project workflows	Project workflows benchmarked, qualified, and in use in partner systems
MANUFACTURING & CONSTRUCTION	Siting and WAAM demonstrated	Large-scale component built	10+ workflows at scale
AUTONOMOUS OPERATIONS	Platform and first demo at non-nuclear facility	Platform deployed at nuclear facility	Long-duration autonomous operations
DATA FOUNDATION	100,000+ DOE and NRC documents ingested		Sensitivity screening in production

10× Design/Licensing Workflow Acceleration

3× Manufacturing Cycle Time

50% Operational Staffing Required



Idaho National Laboratory

Battelle Energy Alliance manages INL for the U.S. Department of Energy's Office of Nuclear Energy. INL is the nation's center for nuclear energy research and development, and also performs research in each of DOE's strategic goal areas: energy, national security, science and the environment.

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