

Genesis Mission and American Science Cloud

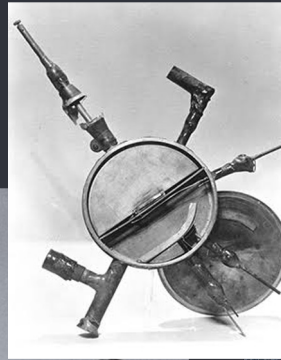
Inder Monga

Director, Esnet

Deputy Project Director, American Science Cloud



Cyclotron, Berkeley 1946



Advanced Light Source, Berkeley, 2011

From click to science: 60 seconds
from Cerro Pachón, Chile, to Menlo Park, CA

Every 20 s
image capture

Every 7 s
image delivery

20 terabytes
of data per night

~10 million
alerts per night



▮ PRESIDENTIAL ACTIONS

LAUNCHING THE GENESIS MISSION

Executive Orders

November 24, 2025

 Genesis Mission

A National Mission to Accelerate Science Through Artificial Intelligence



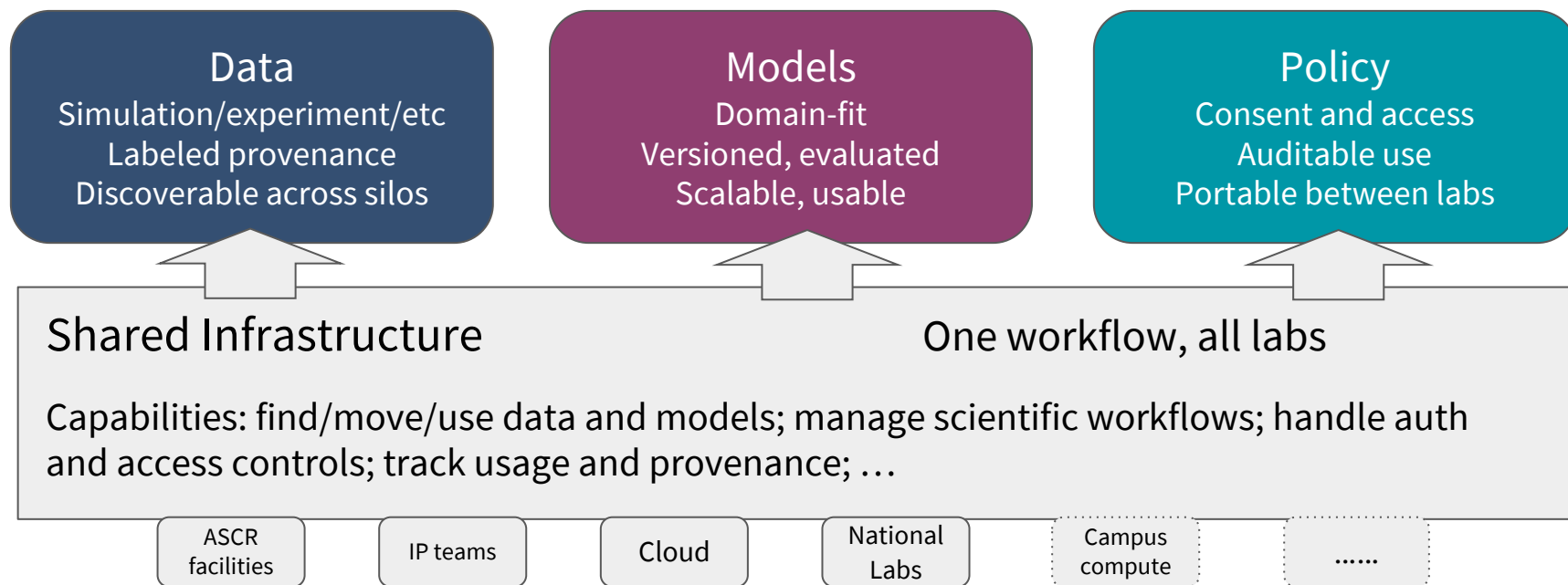
The Genesis Mission unites DOE National Labs, industry, academia, and more to harness AI for breakthroughs in energy dominance, discovery science, and national security.

The Genesis Mission is turning vision into action.

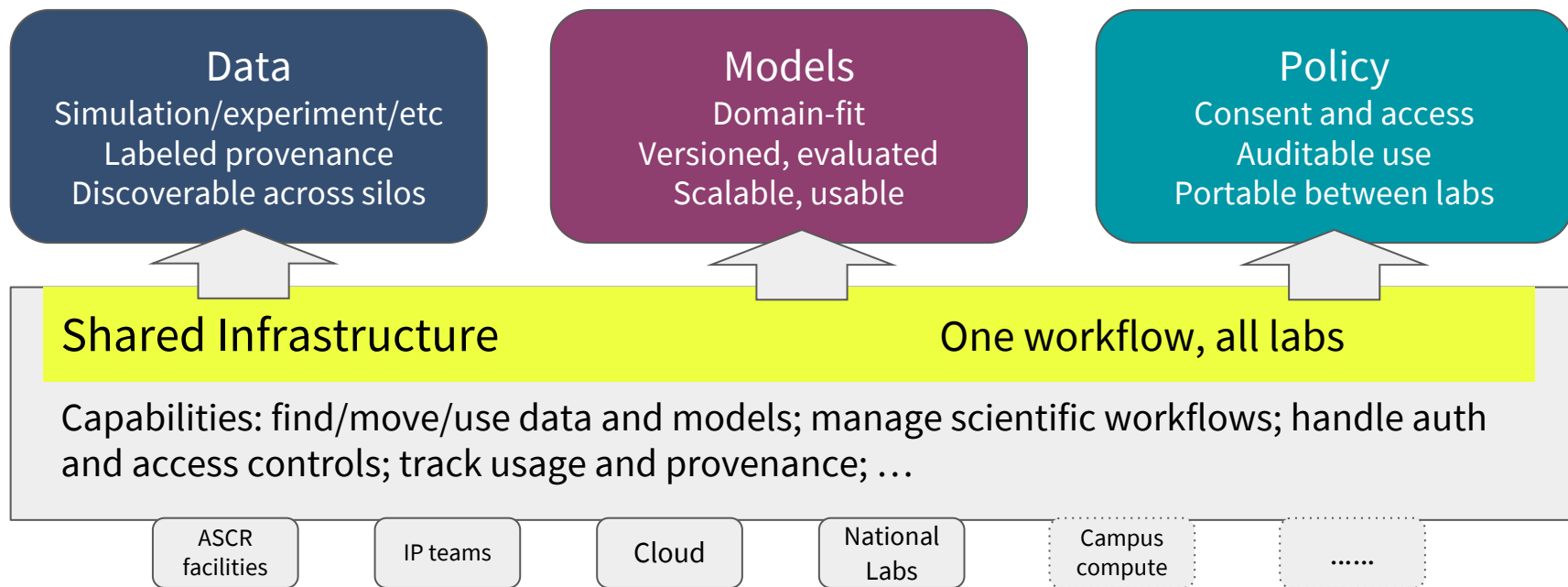
Building a national AI-for-science ecosystem. Advancing new partnerships. Developing cutting-edge capabilities.

All to accelerate scientific discovery.

What do scientists need to accelerate discovery using AI?

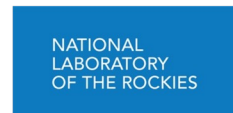


What do scientists need to accelerate discovery using AI?



AmSC is a First-of-a-Kind Integrated Platform for Transformative Science

- Deliver a common fabric for scientists to build on
- Provide modular services and abstractions used to accelerate discovery cycles
- Leverage science and industry innovations rapidly as they are integrated into the platform
- Build a science-focused platform through co-design

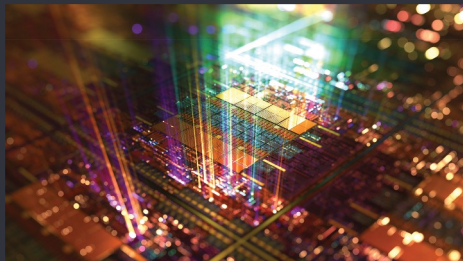


Reduce “time to insight” from months to days through composable AI-driven workflows

Genesis Mission Websites



American Science Cloud
amsc.energy.gov



ModCon: Transformational AI and Data, <https://tinyurl.com/yjjxh9vs>



GEAR: <https://gear.doe.gov/>

Genesis Open Models

<https://genesisopenmodels.anl.gov/>



Genesis Consortium:
<https://www.genesismissionconsortium.org/>

www.es.net · quantnet.lbl.gov · amsc.energy.gov · imonga@es.net