

# National AI Research Resource Task Force Final Report

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# NAIRR Task Force Objectives

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- Investigate the feasibility and advisability of establishing and sustaining a NAIRR
- Propose a roadmap and implementation plan detailing how the resource should be established and sustained

# NAIRR Roadmap Elements

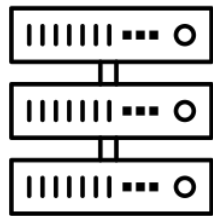
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- i. Goals for the NAIRR
- ii. Ownership and administration plan, including responsible agency or organization
- iii. Governance and oversight model
- iv. Capabilities required
- v. Assessment of and solutions to barriers to use of high-quality government data sets
- vi. Security requirements and access control framework
- vii. Privacy and civil rights and civil liberties requirements
- viii. Sustainment plan, including Federal funding and partnerships
- ix. Agency roles and responsibilities, implementation milestones, and other key parameters

# Vision for the NAIRR

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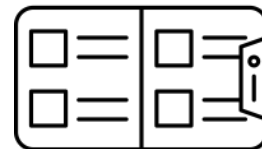
**A widely-accessible, national cyberinfrastructure** that will advance the U.S. AI R&D environment, discovery, and innovation by empowering a diverse set of users through access to:



Secure, high-performance, privacy-preserving **computing**



High-quality **datasets**



Catalogs of **testbeds** and **educational materials**



**Training** tools and **user support** mechanisms

# NAIRR Objective and Goals

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**Objective:** To strengthen and democratize the U.S. AI Innovation ecosystem in a way that protects privacy, civil rights, and civil liberties

**Goals:**



Spur  
**innovation**



Increase the **diversity**  
of talent in AI



Improve U.S.  
**capacity** for AI R&D



Advance  
**trustworthy AI**

# NAIRR Users

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**Researchers, educators, and students** at U.S.-based:

- Academic institutions
- Non-profit organizations
- Federal agencies or federally-funded research and development centers (FFRDCs)
- State, local, or tribal agencies
- Startups or small businesses with SBIR, STTR, or similar Federal grants

# Federal Administration of NAIRR

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## **Administrative home agency:**

- Mission-aligned with NAIRR
- Existing relationship with AI R&D community
- Experience supporting AI R&D
- Focused on equity and diversity
- Capable of support democratized access
- Funds Operating Entity

## **Other agencies:**

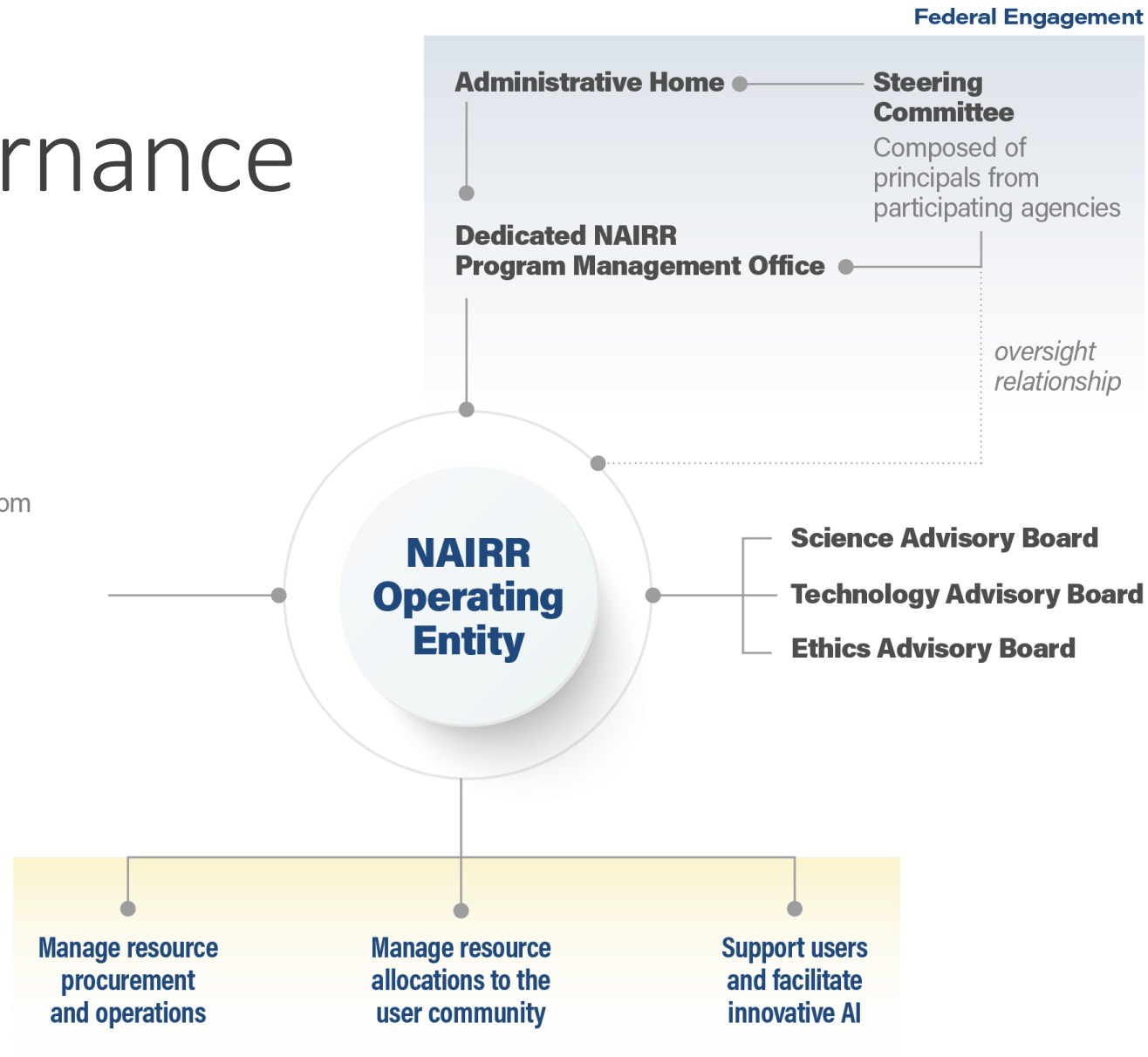
- Serve on Steering Committee
- Fund NAIRR resource providers
- Help staff Program Management Office

**By majority opinion, the Task Force recommends that the National Science Foundation serve as the NAIRR's administrative home**

# NAIRR Governance

## User Committee

- Researcher representatives
- Community representatives
- Representatives from other large-scale infrastructures
- Private sector representatives





# NAIRR Composition

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- Federation of new and existing resources
- Primarily owned by third-party providers
- Integrated user support and trainings
- Catalogs of data sets, testbeds, and educational resources
- Transparent specifications, policies, and practices
- Secure, robust, accessible, and sustainable
- Integrated access portal

# Resource Allocation

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NAIRR resources allocated to users via three tracks:

- 1. Agency-driven** – *each agency awards a share of credits*
- 2. Peer review** – *Operating Entity-managed merit review*
  - Project startup (OE staff)
  - Larger-scale (OE-coordinated panel)
- 3. Operating Entity discretionary** – *executive leadership share of credits*

# Security and Access Controls

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## System Design

- Five-safes framework
- Authentication required for all but nominal resources
- Tiered model
  - **NAIRR-Open**: Open science zone
  - **NAIRR-Secure**: Secure enclave(s)
  - Other tiers as necessary

## Management

- Expert technical security staff
- Routine monitoring and updates

## Governance

- Advisory boards
- User agreements
- Required security and ethics trainings

# Privacy, Civil Rights, and Civil Liberties

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NAIRR should be an exemplar for transparent, ethical, and responsible AI R&D

- Transparency and oversight across all aspects
- Guidance from Ethics Advisory Board and User Committee
- Diversity and expertise among decision-makers and staff

# Privacy, Civil Rights, and Civil Liberties

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## The NAIRR Operating Entity should:

- Develop and Publish:
  - Resource acceptance criteria and controls
  - Ethics review criteria and mechanisms
- Draw from:
  - *Blueprint for an AI Bill of Rights*
  - *AI Risk Management Framework*
- Provide data to facilitate R&D on implications of bias
- Ensure annual user and staff training on practices and responsibilities

# Phased NAIRR Buildout

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## Phase 1

- Appropriations
- Establish Program Management Office
- Select Operating Entity

## Phase 2

- Fund Operating Entity
- Develop resource provider solicitations
- Establish boards and committees

## Phase 3

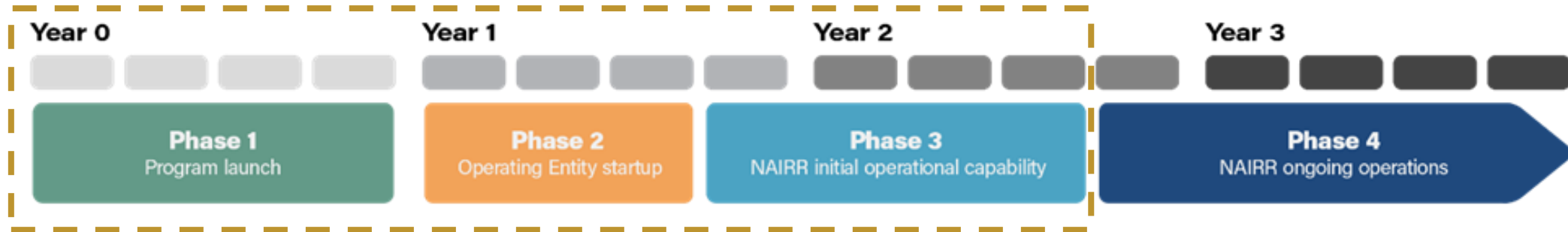
- Allocate resources
- Provide user support
- Collect metrics for evaluation

## Phase 4

- Solicit new resource providers
- Support emerging areas of interest
- Participate in evaluation

# Optional Pilot

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- The Program Management Office could expand access to existing cyberinfrastructure for AI researchers
- This would require:
  - Supplemental funds to existing resource providers beginning in Year 0
  - Interim management and governance mechanisms
- Pilot would operate until the NAIRR is fully operational in Year 2

# Preliminary NAIRR Budget

Year	Resource Providers	Operating Entity	Evaluation	Total
1	\$375M	\$70M	\$5M	\$450M
2	\$375M	\$60M	\$5M	\$440M
3	\$375M	\$60M	\$5M	\$440M
4	\$375M	\$60M	\$5M	\$440M
5	\$375M	\$60M	\$5M	\$440M
6	\$375M	\$60M	\$5M	\$440M
6-year total	\$2.25B	\$370M	\$30M	~ \$2.6B

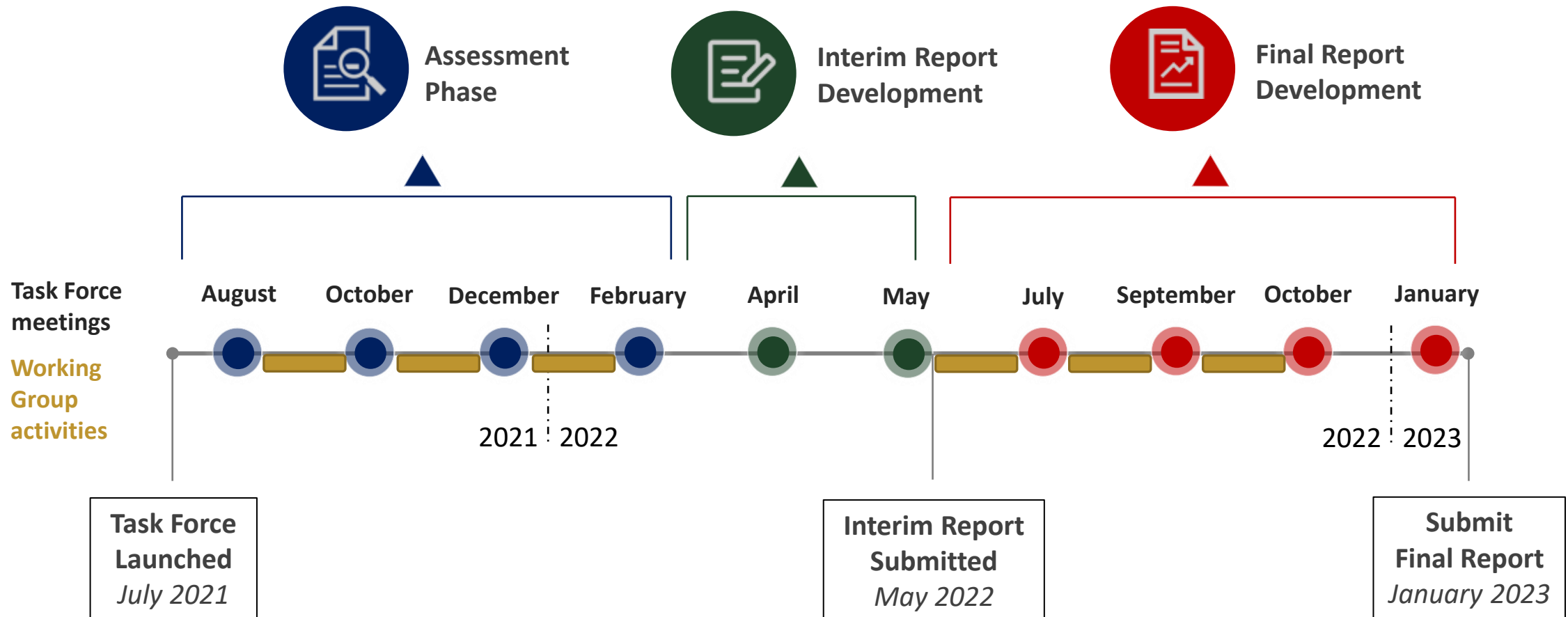


# Final Report Roll Out Plans

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CYBERINFRASTRUCTURE, NATIONAL SCIENCE FOUNDATION

# Task Force Timeline and Work Plan





# Final Report Release

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**1.**

Report  
Posted to  
Al.gov

**2.**

Blog Post

**3.**

Public Event

## Socialization of Findings & Recommendations

- Briefings to Congress
- Engagement with stakeholders
- Media call
- Social media
- Task Force member networks
- Interagency briefings