Agenda

11:00-11:10	**Welcome and Administrative Remarks,** Manish Parashar
11:10-12:40	**Discussion: Interim Report Draft,** Lynne Parker & Manish Parashar
12:40-1:10	**Discussion: Post-Interim Report Workplan and Public Engagement,** Lynne Parker
1:10-1:40	**Break**
1:40-3:10	**Discussion: Implementation Questions for Final Report**, Fei-Fei Li & Dan Stanzione
3:10-3:40	**Break**
3:40-4:45	**Panel: Responsible AI Review Processes for the NAIRR** Moderator**:** Oren Etzioni • Beena Ammanath, *Author, Trustworthy AI and Head of Global Deloitte AI Institute* • Michael Bernstein, *Associate Professor of Computer Science, Stanford University* • Christine Custis*, Head of Fairness, Transparency, Accountability and Safety, Partnership on AI* • Arvind Narayanan, *Associate Professor of Computer Science, Princeton University* • Beth Plale, *Michael A. and Laurie Burns McRobbie Bicentennial Professor of Computer Engineering and Executive Director, Pervasive Technology Institute, Indiana University Bloomington* • Christo Wilson, *Associate Professor of Computer Science, Northeastern University*
4:45-4:55	**Questions from Public,** Manish Parashar
4:55-5:00	**Closing Remarks,** Manish Parashar

INTERIM REPORT DISCUSSION

LYNNE PARKER, DIRECTOR, NATIONAL AI INITIATIVE OFFICE,
WHITE HOUSE OFFICE OF SCIENCE AND TECHNOLOGY POLICY

MANISH PARASHAR, OFFICE DIRECTOR, OFFICE OF ADVANCED CYBERINFRASTRUCTURE,
NATIONAL SCIENCE FOUNDATION

Proposed Discussion Topics

1) Terminology for the NAIRR
2) Characterization of the NAIRR user access portal
3) Method of evaluation of NAIRR investments
4) Others?

What makes up the NAIRR?

- **Management entity**: manages NAIRR operations, administration of access, user support, resource acquisition and partnership, user portal, cyberinfrastructure, and more. Includes leadership, operational staff, and a governance board.

- **External advisory bodies:** provide external oversight and evaluation of NAIRR operations.

- **Cyberinfrastructure:** the federation of resources along with software and expertise to make those resources accessible as a whole.

  - Resources: The set of compute, data, edge, and other capabilities that could be owned and operated by governmental, non-governmental or private sector entities or by the NAIRR management entity itself. For the purposes of this report, resources include the CI enabling access of AI testbeds, as well as the testbeds themselves.

  - Portal: Central user-facing interface with multiple pathways to the resources behind it.

  - Education/training: Technical training and support related to the use of the NAIRR, tailored to a range of experience levels.

Key Functional Roles for NAIRR Governance and Administration

External Advisory, Oversight, and Evaluation Bodies

To address a range of topics:
- Scientific merit and impact
- Diversity, equity, and inclusion
- Privacy, civil rights, and civil liberties
- Data quality, breadth, and compliance
- Security and usability
- Technological advances
- NAIRR system performance and management
- Ethics and societal implications

NAIRR Board of Governors
- NAIRR policymaking
- Internal oversight and evaluation

Day-to-day Operations

NAIRR Executive Leadership
- Operational decision-making
- Management
- Outreach and communications

Core NAIRR Operations
- NAIRR portal management
- Proposal review (scientific merit, ethics)
- Allocation management
- In-house CI resource management/operation
- User support
- Security
- Legal and regulatory compliance
- Finance, contracts, and partnerships

Partner Resource Provider Operations
- In-house CI resource management/operation
- User support
- Security
- Compliance with NAIRR policies & requirements
- Legal and regulatory compliance

User Access Portal

- As originally framed as a "single user portal," it could be perceived that the NAIRR portal would be the sole gatekeeper to all the resources it federates.
  - If we recommend building a portal that tries to do too much, it may not be feasible to deploy it in a timely manner

- More nuanced vision to include in the text:
  - The portal would be one of several ways of access NAIRR resources.
  - The portal may point to other portals, for example, customized portals for specific datasets.
  - The portal would evolve and be deployed incrementally, with a process for regularly reviewing requirements, functionality and performance.
  - The portal would support plug-and-play so resources (compute, data) provider and hook into it.
  - It would promote interoperability, and leverage existing/emerging standards and best practices.

NAIRR Evaluation

Recommendations:

- **3-15:** Metrics and indicators of success for the NAIRR should be grounded in a theory-of-change logic model.

- **3-16:** The NAIRR should be externally evaluated every five years.

  - ➤ *The external evaluator, in conjunction with the NAIRR management entity and the NAIRR board of governors, should identify an appropriate counterfactual for each set of programmatic investments once the scale of these investments is determined in order to gauge the value of the NAIRR's role in advancing the AI research ecosystem.*

- **3-17:** The NAIRR management entity should capture and record data to support evaluation of the resource.

- **3-18:** The NAIRR management entity should budget sufficient funds for robust data collection and evaluation activities, and design NAIRR processes to capture key analytics measures from the outset.

- **3-19:** The NAIRR management entity should establish a publicly-accessible platform that tracks the usage and outputs of NAIRR-supported research and the results of external evaluations.

- **3-20:** The long-term NAIRR evaluation and operational plan should provide a mechanism by which the NAIRR's goals and functions can evolve to meet changing needs.

Proposed Discussion Topics

1) Terminology for the NAIRR
2) Characterization of the NAIRR user access portal
3) Method of evaluation of NAIRR investments
4) **Others?**

Interim Report Publication: Key Dates

April 15:   Third draft of interim report distributed to TF members

April 20:   TF feedback due to co-chairs

May 6:   Feedback due from informal interagency review of interim report

May 13:   Fourth draft of interim report distributed to TF members for redline edits only

May 17:   TF feedback due to co-chairs

May 18:   Final draft interim report distributed to TF

May 20:   *Brief TF meeting* – vote on interim report

By May 27: Interim report delivered to the President and Congress

NAIRR TF WORKPLAN: FINAL REPORT DEVELOPMENT

LYNNE PARKER, DIRECTOR, NATIONAL AI INITIATIVE OFFICE, WHITE HOUSE OFFICE OF SCIENCE AND TECHNOLOGY POLICY

Timeline & Deliverables

Interim Report

Submitted to Congress and the President containing conclusions and recommendations

June 2021

May 2022

Dec. 2022

Task Force Launch

Public meetings held in July, August, October, December, and February

Final Report

Submitted to Congress and the President as an implementation roadmap
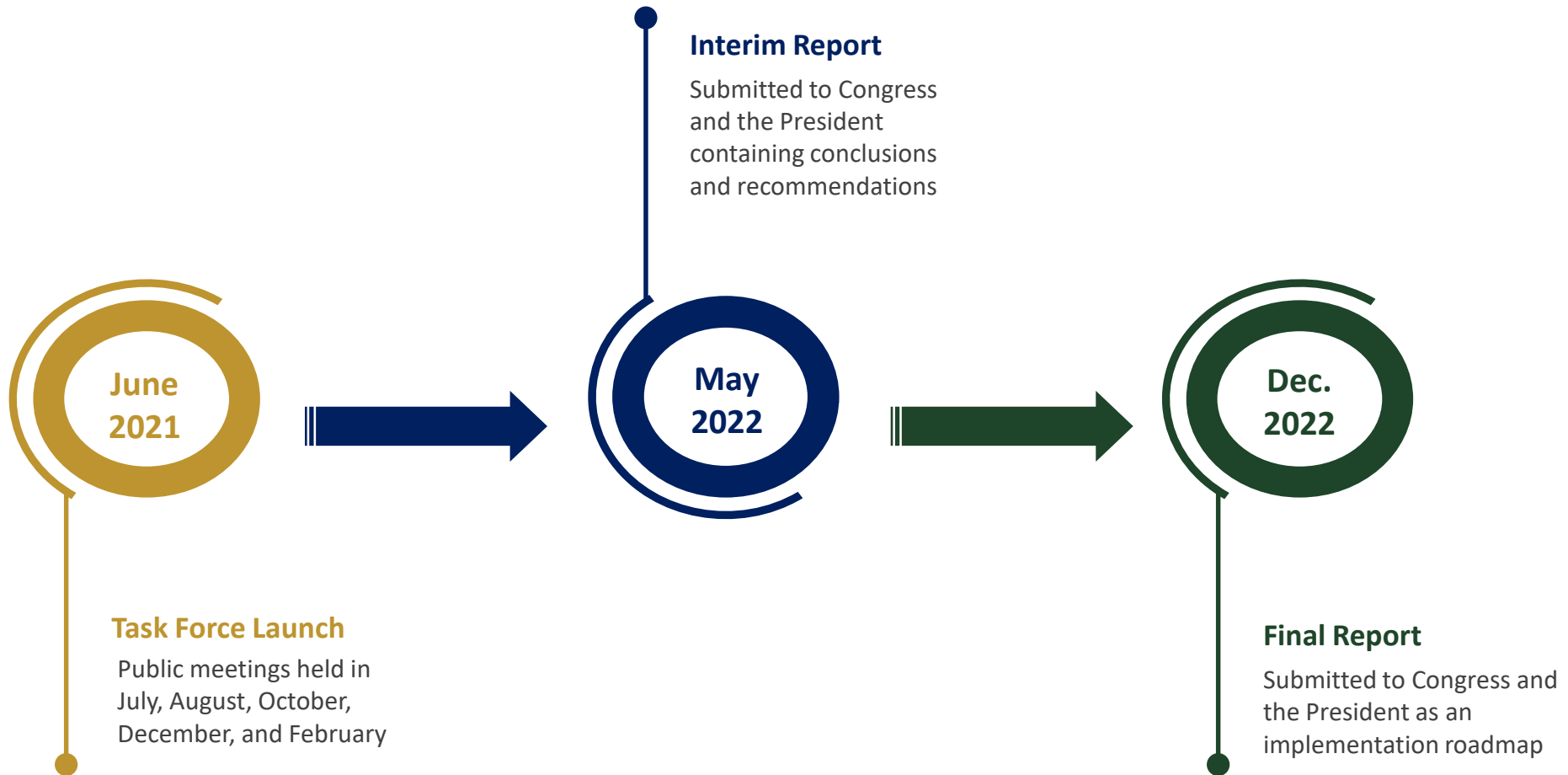
Workplan

Assessment Phase

Interim Report Development

Final Report Development

Full Task Force meetings

August | October | December | February | April | **May** | July | September | October | **December**

Working group meetings

2021 | 2022

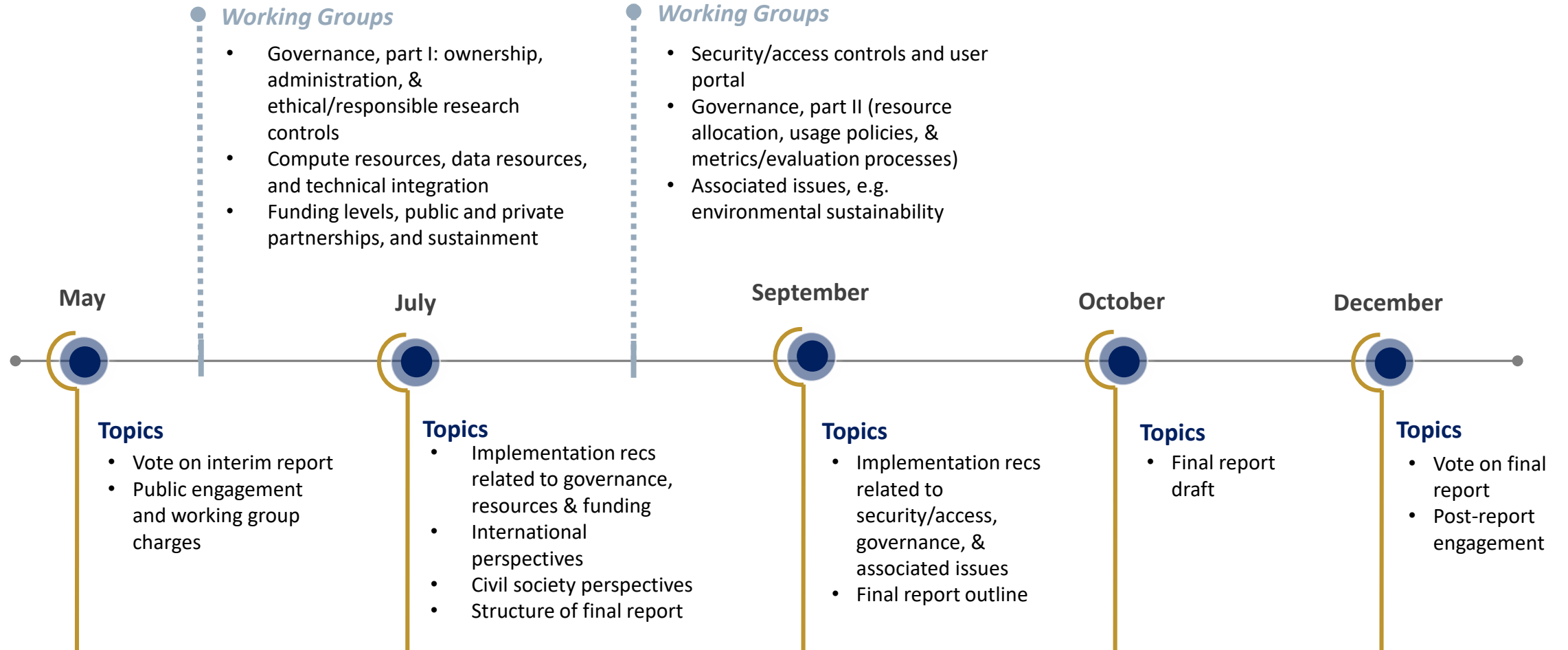Submit Interim Report

Submit Final Report
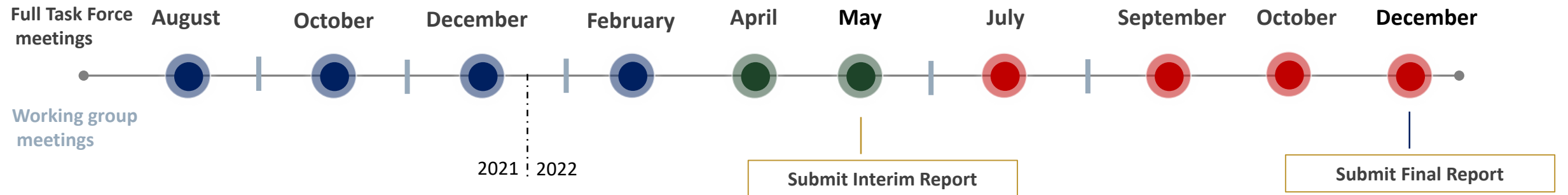
Final Report Development: Planned External Engagements

- Request for information for public feedback on interim report findings and recommendations and input on implementation of recommendations

- Public listening session

- International roundtable

- Interagency roundtable

- Expert briefers at public meetings

Final Report Development: Task Force Meetings

Working Groups

- Governance, part I: ownership, administration, & ethical/responsible research controls
- Compute resources, data resources, and technical integration
- Funding levels, public and private partnerships, and sustainment

Working Groups

- Security/access controls and user portal
- Governance, part II (resource allocation, usage policies, & metrics/evaluation processes)
- Associated issues, e.g. environmental sustainability

May

July

September

October

December

Topics
- Vote on interim report
- Public engagement and working group charges

Topics
- Implementation recs related to governance, resources & funding
- International perspectives
- Civil society perspectives
- Structure of final report

Topics
- Implementation recs related to security/access, governance, & associated issues
- Final report outline

Topics
- Final report draft

Topics
- Vote on final report
- Post-report engagement

Final Report Development: Key Dates

July 25:   *TF meeting* – deliberate on report structure

September 23: First draft sent to TF

September 30: TF feedback on first draft

October 14:   Second draft sent to TF

October 21:   *TF meeting* – deliberate on report content

October 31:   Third draft shared with OSTP/NSF leadership

November 22: Final draft sent to TF

December 7:   *TF meeting* – vote on final report

Per its legislative mandate, the TF will exist for 90 days following submission of the final report. The TF will use December 2022-February 2023 to socialize the recommendations put forth in the final roadmap and implementation plan.

NAIRR Task Force Future Topics Discussion Kick Off

4/8/2022

What is undone, *and* in-scope?

- The interim report covers many areas, with many recommendations.
- We also have a roadmap in the work plan for remaining working groups.
- We have a few months left before the final report.
- What have we missed? What needs refining?
  - We should try and avoid repeating earlier discussions
    - We could talk about dataset needs forever, but it may not substantively change the recommendations in the report.
- Let's brainstorm *gaps*.

Current Plan for Working Groups
(From the Workplan Document)

- June-July:
  - Governance, part I (ownership, administration, and ethical/responsible research controls)
  - Compute resources, data resources, and technical integration
  - Funding levels, public and private partnerships, and sustainment

- August:
  - Security/access controls and user portal
  - Governance, part II (resource allocation, including initial access for those without prior federal funding, usage policies, and metrics/evaluation processes)
  - Associated issues – environmental sustainability; others?

Potential Topics – other suggestions welcome.

- Other Working Groups needed?
- Additions to the charge of proposed working groups?
- Do we need a more detailed roadmap for a NAIRR rollout? (Pilots, straight to implementation, etc.).
- Are there particular regulatory authorities needed/in the way that Congress should consider in creating the NAIRR?
- Do we need more depth on the "how" behind any of the existing recommendations?
- Should we address connections to international efforts or other efforts in AI infrastructure?
- Do we wish to comment more on resourcing/capacity?
- Should we comment on environmental or financial sustainability?