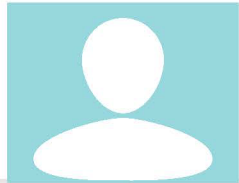


Research Update

June 3, 2022

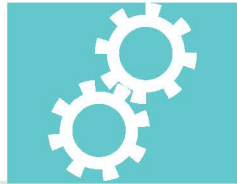


Grand Challenges: Investment Roadmap



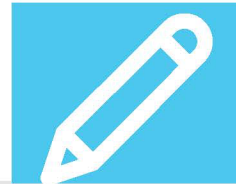
THE RIGHT PEOPLE

New & existing faculty,
emerging scholars,
talented support staff



THE RIGHT RESOURCES

Cutting-edge equipment,
seed funding, data, and
computing power



THE RIGHT RESEARCH

Projects that bring
researchers together
around a common goal



MAKE AN IMPACT

Working with internal
and external partners on
real-world applications.

The Brain & Neuroscience

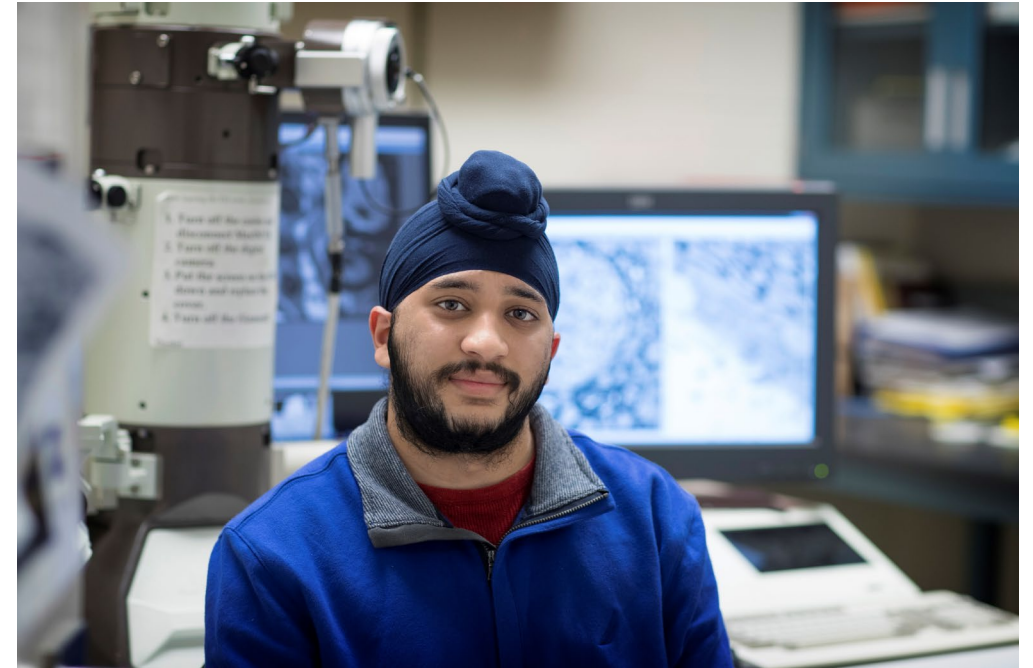
Vision: Develop a comprehensive approach to the brain, across the lifespan

Outcomes:

- Mapping the brain's development
- Advancing our understanding of autism
- New discovery in Alzheimer's causes and care
- Focused ultrasound/immunological therapies

Team:

- Faculty from across schools and disciplines (including 15-20 new hires)
- Working with the UVA Brain Institute
- 15 Next Generation Scholars



Resources for Collaboration:

- \$10M in equipment and instrumentation
- Data Analytics Center and research computing
- Clinical Trials unit and research cores



Environmental Resilience & Sustainability

Vision: Research global impacts of climate change on local communities

Outcomes:

- Test solutions to climate-related issues
- Increase local capacity for sustainable action
- Develop scalable best practices

Team:

- Faculty from across schools and disciplines (including ~10 new hires)
- Working with the UVA Environment Institute
- 15 Next Generation Scholars
- Local decision-makers in 4-6 communities
- Visiting scholars and practitioners



Resources for Collaboration:

- Seed funding
- Data Analytics Center and research computing
- Funding for community engagement



Environmental Resilience & Sustainability

Vision: Advance scalable clean energy solutions

Outcomes:

- Advance catalytic energy production processes
- Develop clean energy technology with commercial applications
- Expand entrepreneurial ecosystem

Team:

- Faculty from across schools and disciplines (including ~6 new hires)
- Next Generation Scholars

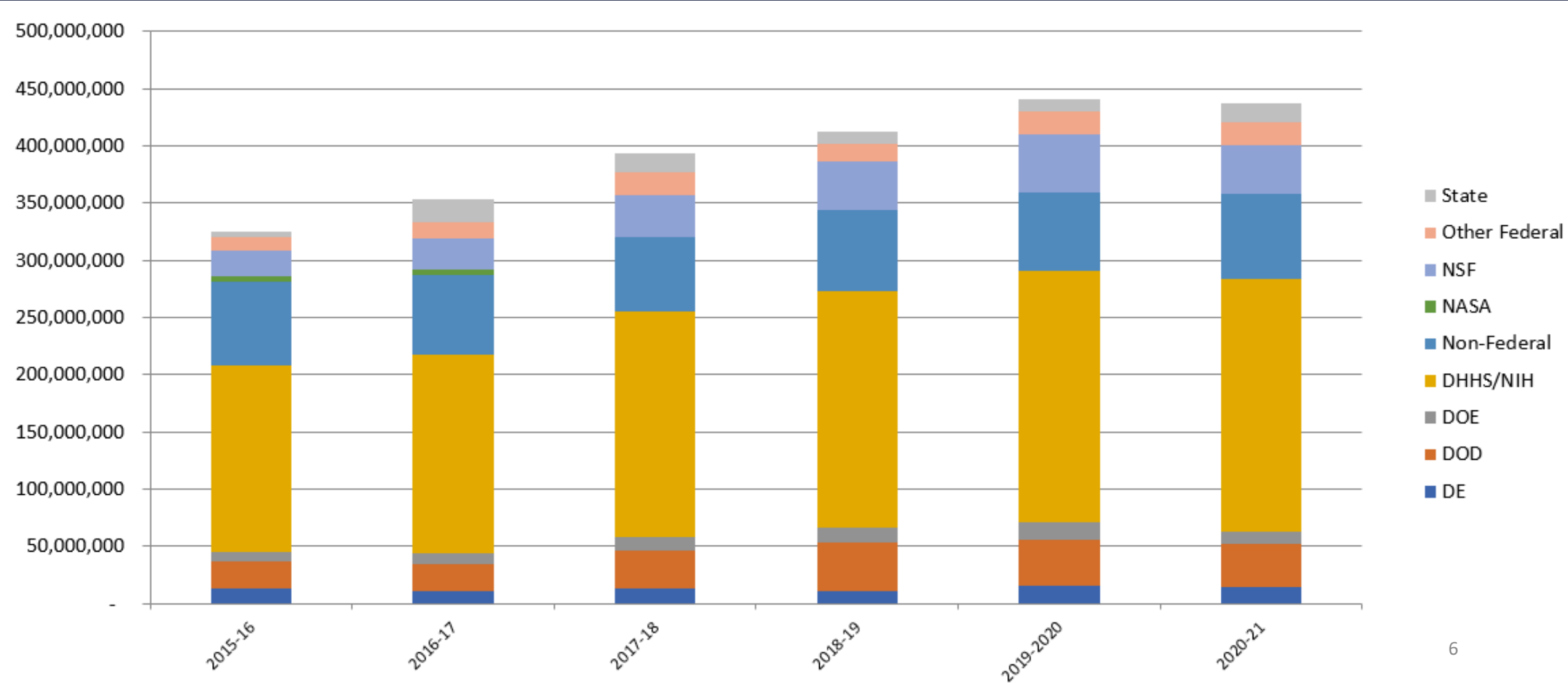


Resources for Collaboration:

- Equipment and cores
- Clean Energy seed fund
- Environmental Entrepreneurship Initiative



Extramural Funding Growth



Research Infrastructure: Charting a Path Forward

INVESTMENTS FOR...

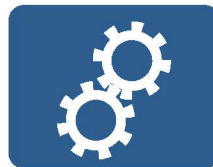
EXTERNAL FUNDING

Investing to attract
funding from
external entities



DISCOVERY

Investing in people,
facilities,
equipment,
computing and
library support



TRANSLATION

Investing in translating
ideas into practical
solutions: treatments,
technologies, policies
and practice



Infrastructure for External Funding

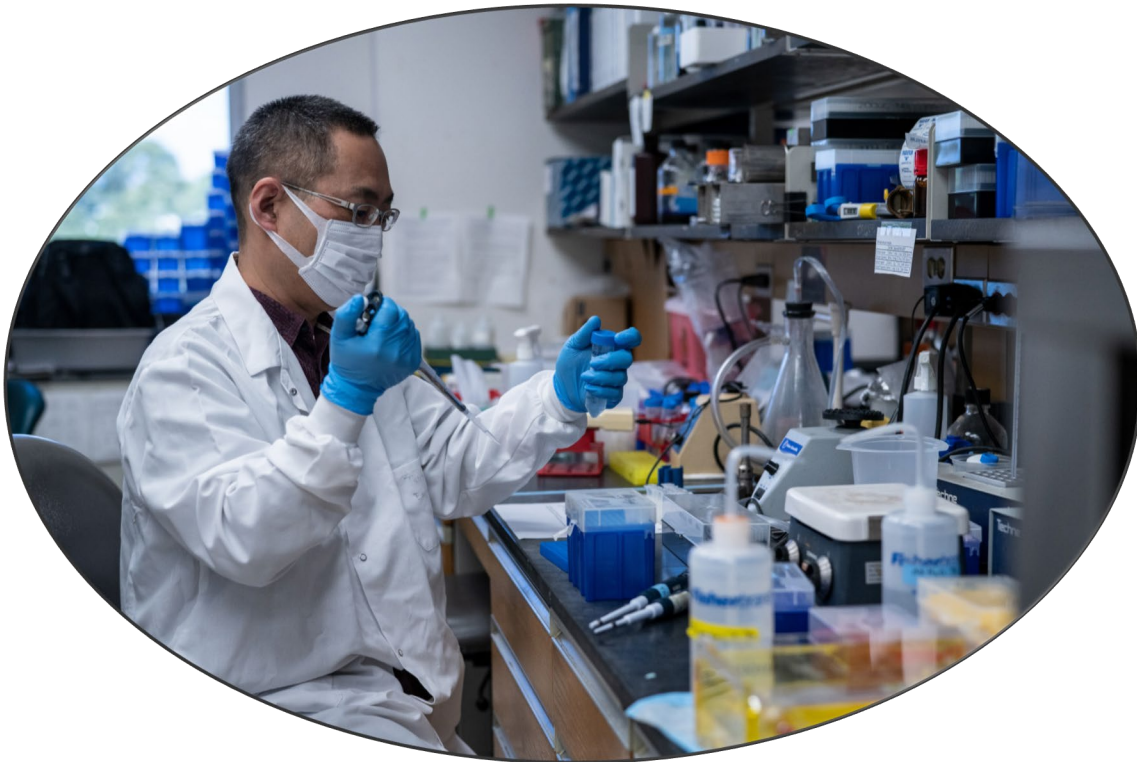


Leveraging Opportunities for Funding Streams

- **Research Development (Grants)**
- **Foundation & Corporate Sponsors**
- **Advancement/Philanthropy**



Infrastructure for Discovery



Building a Foundation for Research Success

- **Faculty Hires**
- **Graduate Students/Post-Docs**
- **Equipment & Cores**
- **Advanced Research Computing & Analytics**
- **Space/Facilities**



Infrastructure for Impact

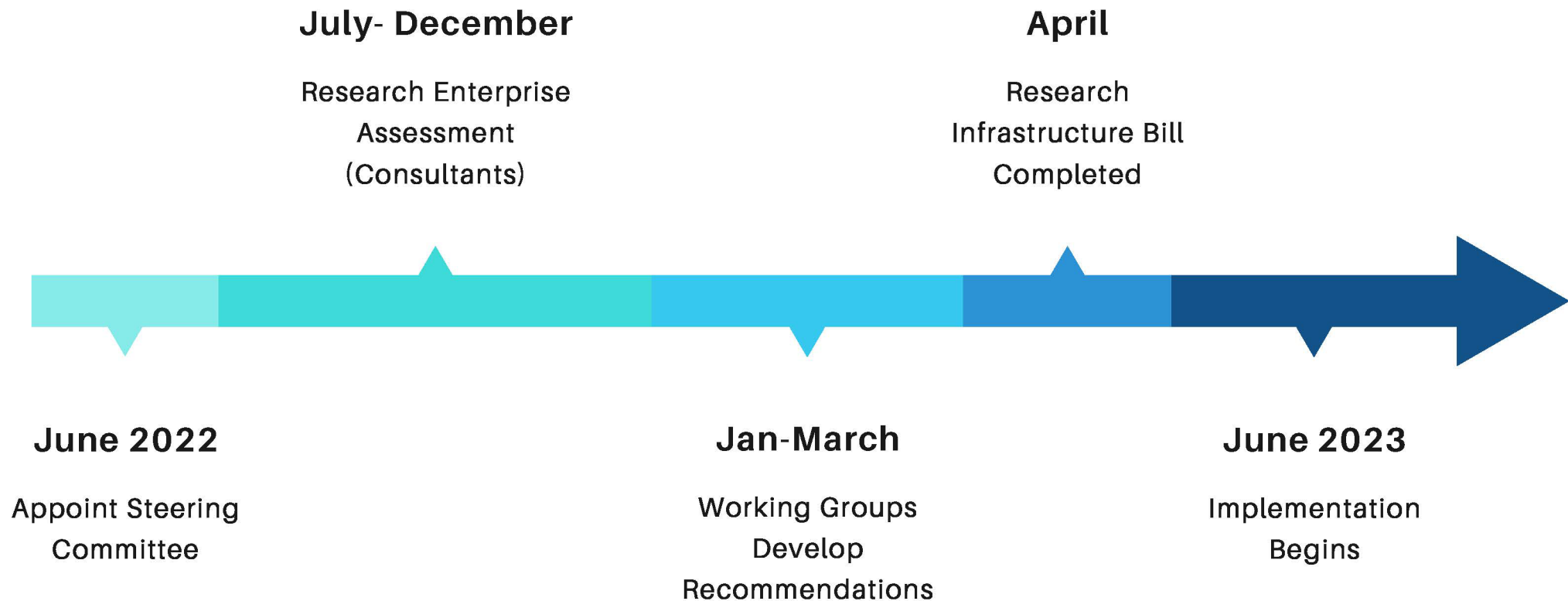


Translating Ideas Into Action

- **Clinical Trials**
- **Entrepreneurship and Licensing**
- **Partnering with lawmakers, NGOs, and communities on solutions**
- **Communicating our discoveries**



Research Infrastructure Initiative: Timeline



Questions



