

FUTURE DIRECTIONS FOR THE NNI

A FEW HIGHLIGHTS OF THE 2021 NNI STRATEGIC PLAN

Lisa E. Friedersdorf, PhD

Director, National Nanotechnology Coordination Office

November 2, 2021

National Nanotechnology Coordinated Infrastructure Annual Conference

Hosted by SHyNE, Northwestern University





ANNOUNCING ADMIN

Biden-Harris Administration Releases Strategic Plan To Ensure U.S. Nanotechnology Competitiveness

OCTOBER 08, 2021 - PRESS RELEASES

New plan aims to accelerate research translation, advance equity

Today, on National Nanotechnology Day, the White House Office of Science and Technology Policy (OSTP) and the National Nanotechnology Coordination Office (NNCO) unveiled the 2021 National Nanotechnology Initiative (NNI) Strategic Plan. This strategy details a new framework to ensure that the United States continues to lead the world not only in nanoscience discoveries, but in translating and manufacturing its products to benefit all of America. In addition to identifying priorities for the NNI to best support the research community in the United States, the plan prioritizes efforts to expand sustainable infrastructure and advance equity in the nanotechnology workforce.

"The role of nanotechnology in our response to the pandemic—from vaccine delivery to protective clothing to testing kits—emphasizes the potential for small science to have big impacts," said National Nanotechnology Coordination Office Director Dr. Lisa E. Friedersdorf. "This strategic plan charts an exciting path forward for the National Nanotechnology Initiative to ensure continued progress in nanotechnology research and development, and



NATIONAL NANOTECHNOLOGY INITIATIVE STRATEGIC PLAN

A Report by the
SUBCOMMITTEE ON NANOSCALE SCIENCE, ENGINEERING,
AND TECHNOLOGY
COMMITTEE ON TECHNOLOGY

of the
NATIONAL SCIENCE AND TECHNOLOGY COUNCIL

October 2021



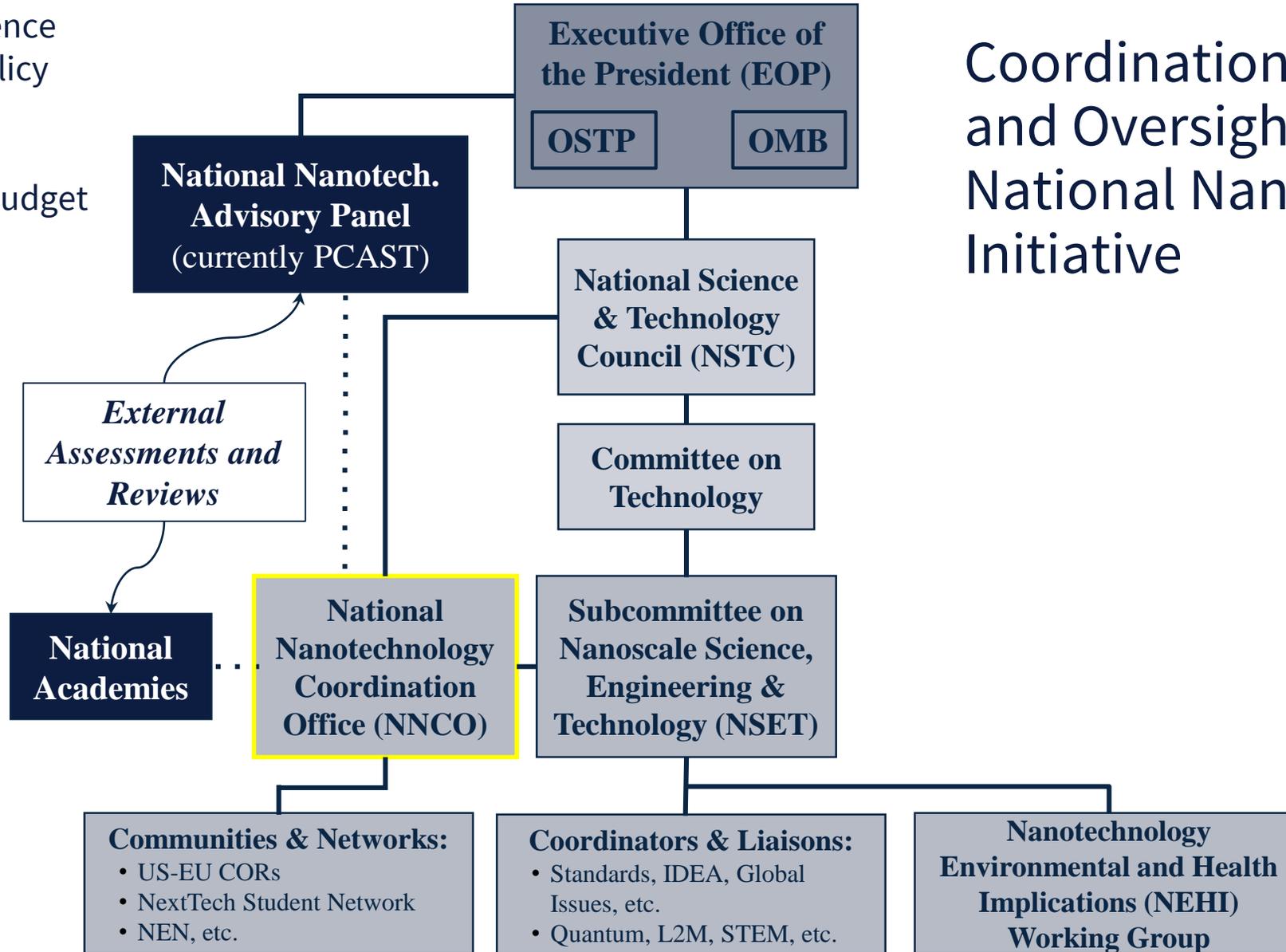


***NNI Vision:** A future in which the ability to understand and control matter at the nanoscale leads to ongoing revolutions in technology and industry that benefits society.*

OSTP: Office of Science and Technology Policy

OMB: Office of Management and Budget

Coordination, Reporting, and Oversight of the National Nanotechnology Initiative



NATIONAL NANOTECHNOLOGY COORDINATION OFFICE

Facilitate collaboration among agencies



Provide Technical & Admin Support



Promote Commercialization



Public Outreach & Engagement



Credit: NNCO (all images)

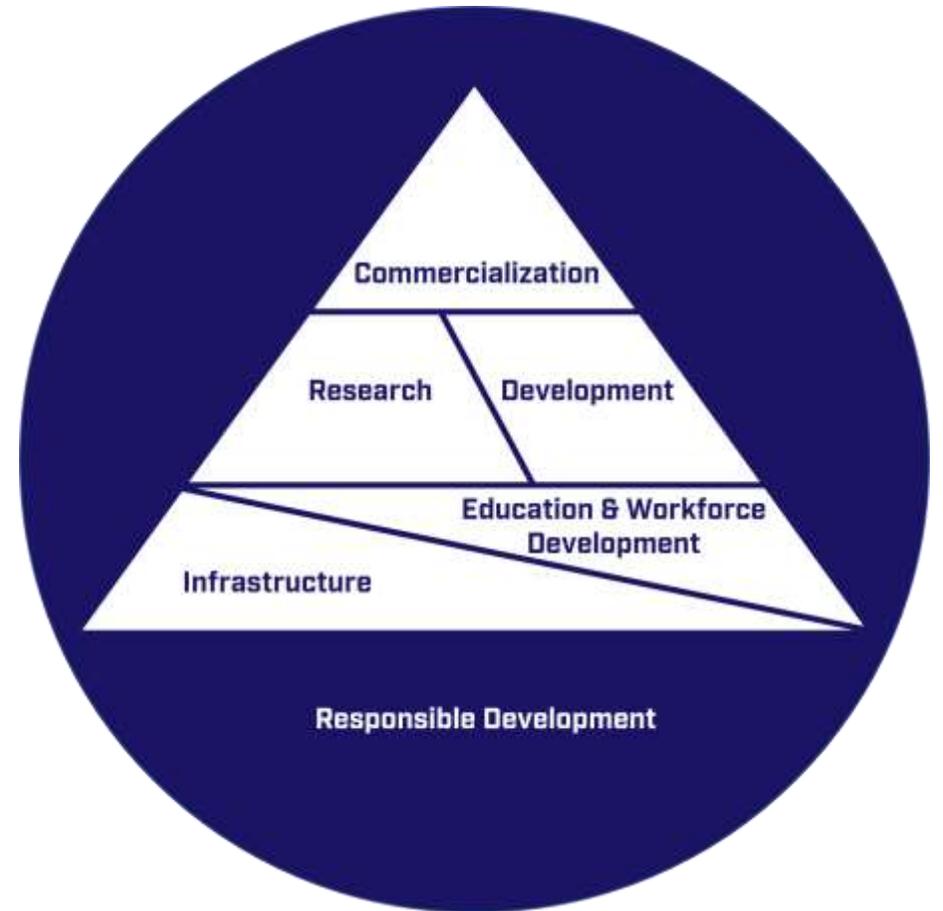
2021 NNI STRATEGIC PLAN GOALS

- Goal 1: Ensure that the United States remains a world leader in nanotechnology research and development.
- Goal 2: Promote commercialization of nanotechnology R&D.
- Goal 3: Provide the infrastructure to sustainably support nanotechnology research, development, and deployment.
- Goal 4: Engage the public and expand the nanotechnology workforce.
- Goal 5: Ensure the responsible development of nanotechnology.



2021 NNI STRATEGIC PLAN

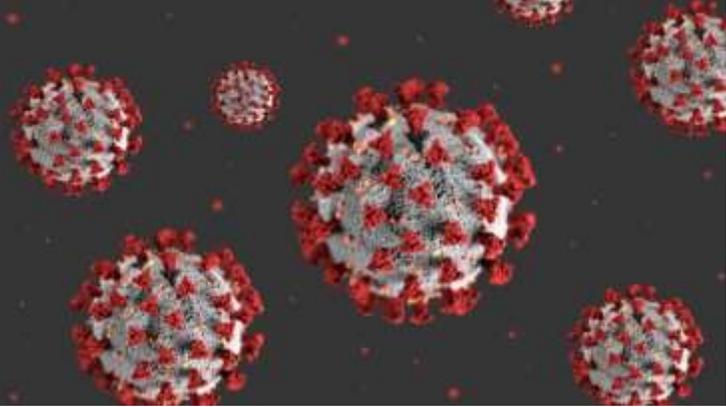
- Support & connect the entire nanotechnology innovation ecosystem
- Develop & disseminate resources
- Seamlessly connect across the technology development pathway
- Launch of new mechanisms-
National Nanotechnology Challenges



NANOTECHNOLOGY AND PANDEMIC RESPONSE



Credit: Northwell Health



Credit: CDC

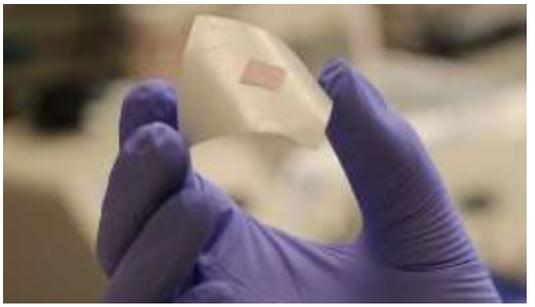
~20% of COVID tests are nanotechnology enabled



Credit: DOE/ORNL



Credit: UCF



Credit: University of Connecticut



Credit: Ellume



US — EU

Nanotechnology Communities of Research (CORs)





NEXTTECH STUDENT NETWORK



New! Network-wide Webinar Series

Annual Event: Student Leaders Conference

Transitioning from Academic to Research-Based STEM: Lessons and Opportunities for Young Scientists

With Brandon Rodriguez
NASA Jet Propulsion Lab



nanoNU   NextTech Student Network



JOIN THE CONVERSATION!

How to engage?

- Webinars
- Workshops
- Respond to Requests For Information
- Share news and highlights
- Participate in Communities of Research & Networks
- Contact the NNCO info@nnco.nano.gov

Follow NNI on Social Media!



Twitter: @NNInanonews



LinkedIn: National Nanotechnology Initiative

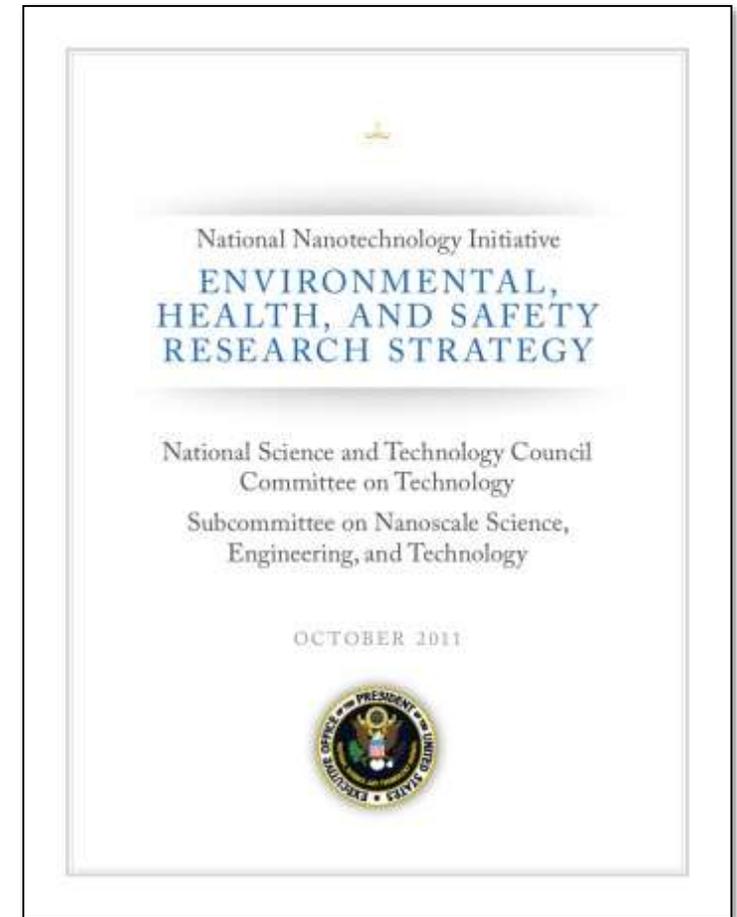


NNI 2021 PUBLIC NANOEHS WEBINAR SERIES

What We Know about NanoEHS

Risk Assessment and Risk Management

November 16, 2021, 12:00 – 1:15 pm EST



Register at Nano.gov!



THANK YOU.

Lisa E. Friedersdorf, PhD
Director, National Nanotechnology Coordination Office

<http://www.nano.gov/>
lfriedersdorf@nnco.nano.gov

