



CASA-Bio

Catalyzing Across Sectors to
Advance the Bioeconomy

Background and Action Plan



CASA-Bio

Catalyzing Across Sectors to Advance the Bioeconomy

- Inspired by the [Executive Order \(EO\)](#) on Advancing Biotechnology and Biomanufacturing Innovation for a Sustainable, Safe, and Secure American Bioeconomy
- EO laid out a grand vision to advance US biotechnology and biomanufacturing through foundational and use-inspired R&D in five areas ([themes](#))



Climate Change
Solutions



Food and Agriculture
Innovation



Supply Chain
Resilience



Human Health



Cross-Cutting
Advances

CASA-Bio: What is it?



- **A collaborative, facilitated activity** with these stakeholders:
 - Government agencies
 - Non-profits
 - Industries
 - Public-sector research community
- **Overall goal:** Give life to the vision of the Bioeconomy EO
- **Challenges:**
 - The vision is HUGE!
 - Agencies, industries, non-profits, and academic researchers have their own goals
- **Solution:** Seek synergy through collaboration in areas of mutual interest

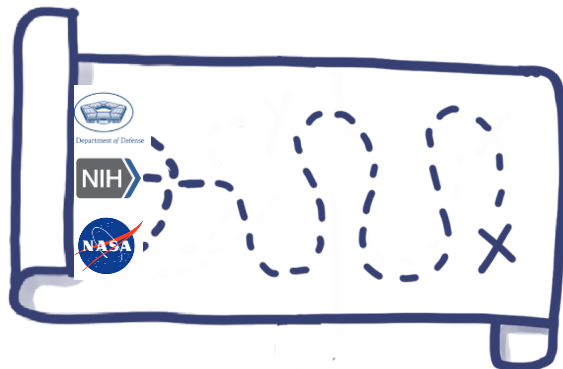
CASA-Bio: Action Plan



STARTING POINT:

Multiple organizations with independent goals

- 1 Alignment** Identify R&D Areas (Subtheme Challenges) of shared interest and potential for synergy among agencies, industry and non-profits; use to frame a Call to Action
- 2 Engagement** Ask the **research community** to respond to the Call to Action by identifying exciting and tractable Cutting-Edge Research Ideas addressing the Subthemes
- 3 Synthesis** Use the community's feedback to identify and select Priority Research Ideas with highest potential for cross-organizational collaboration
- 4 Advancement** Host community workshops to catalyze creation of roadmaps for research relevant to the Priority Research Ideas



ENDPOINT:
***Multiple roadmaps for
priority research to
advance the bioeconomy***



CASA-Bio Action Plan: Schematic

Alignment

Orientation Meeting

Virtual
Dec 1

Who:
Funding Agencies
NGOs
Industry

Goal: Explore broad areas with shared interest and opportunities for possible collaboration

Output: R&D areas with potential for synergy

Call to Action Meeting

In-person
Dec 4-5

Who:
Funding Agencies
NGOs
Industry

Goal: Flesh out R&D areas of shared interest as Bioeconomy relevant Subtheme challenges for Call to Action

Output: Call to Action for Town Halls Based on Bioeconomy Subthemes

Town Hall Meetings x 4

Virtual
February

Who:
Broad R&D
Communities

Goal: Present Subtheme challenges and ask community to identify Cutting-Edge Research ideas

Output: Community-sourced research ideas relevant to the Bioeconomy Subthemes

Synthesis

Synthesis Meetings x 4

Virtual
March

Who:
Funding Agencies
NGOs
Industry

Goal: Evaluate Cutting-Edge Research ideas and prioritize based on high potential for cross-agency synergy

Output: Priority Research Ideas ready for Roadmapping

Community Engagement

CASA-Bio Action Plan: Schematic

Advancement

Advancement Workshops x 5-10

*In-person and virtual,
Spring 2024 – Summer 2024*

Who:

R&D Communities

Goal: Engage research communities in producing roadmaps describing Priority Research opportunities for the bioeconomy

Output: Engaged, focused research communities; roadmaps for Priority Research to advance the US Bioeconomy