

SARAH COOLEY • DIRECTOR OF CLIMATE SCIENCE APRIL 22, 2022





Ways of imagining new technology

Technoeconomic

Sociotechnical

There are more questions than answers now

- How to research inclusively? Iteratively?
- How does research differ from implementation?
- Who's involved now? Who else should be?



How might NSF engage?

WITHIN THE AGENCY

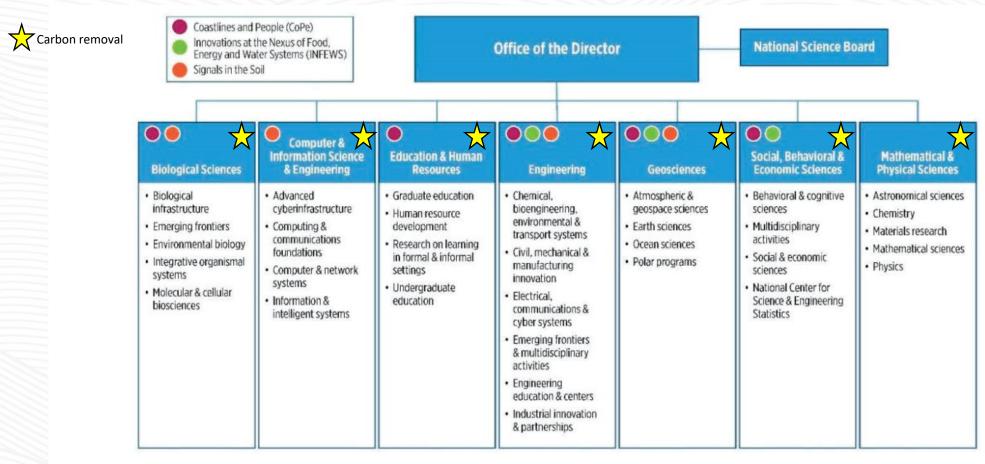


FIGURE 1.2 NSF organization chart, showing its seven directorates (names in bold) and their divisions (bullets).

How might NSF engage?

NATIONALLY

- Interagency working groups
- Ocean Science and Technology Subcommittee/ Office of Science and Technology Policy

INTERNATIONALLY

• Tight coordination with internationally acting agencies, e.g., NOAA, State Dept.

Different futures ...?

WINNING

• Inclusive, place-conscious transparent research that vets OCDR approaches for their outcomes re: the environment, the carbon cycle, society, economy, and governance

LOSING

• Rushed, opaque, highly privatized research that champions specific OCDR approaches as 'best picks' for carbon removal, justified by limited or easily gamed evidence, that feeds an unjust or meaningless credit system, and which may carry serious risks for people or the ocean