



# Center for Global Security

## Aligning Technology Solutions to Address Over-the-Horizon Threats

As the world's geopolitical landscape shifts, so do threats to the nation. To confront these challenges, we must lay the groundwork for sustainable solutions.

Pacific Northwest National Laboratory's Center for Global Security (CGS) brings together a multi-disciplinary set of stakeholders to:

- » **ENGAGE** global security, policy, science, and technology experts to identify emerging threats
- » **EXAMINE** emerging national security issues through in-depth analysis of the economic, legal, regulatory, and policy factors that can influence the transition from science to solutions
- » **DELIVER** insights and recommendations for future research agendas based on strong foundations in science, technology, and policy.

### WHAT WE DO

We explore questions that lead to comprehensive, forward-looking solutions:

- » What current threats—chemical, biological, radiological, nuclear, explosive, cyber—pose continuing or new challenges to national and global security?
- » What emerging threats will pose new challenges, and how can we best understand the multifaceted nature of these threats?
- » How can the science, technology, and policy communities make focused investments and deploy robust solutions to best prepare the nation against future harm?

### CASE STUDY: SYNTHETIC BIOLOGY

CGS engaged a broad community of experts to help identify emerging threats.

CGS examined the threat and promise of one of the issues identified: Synthetic biology is the design and construction of new biological parts, devices, and systems, as well as the re-design of existing, natural biological systems for useful purposes.

CGS delivered a technical roadmap containing recommendations to help decision makers, analysts, and researchers to:

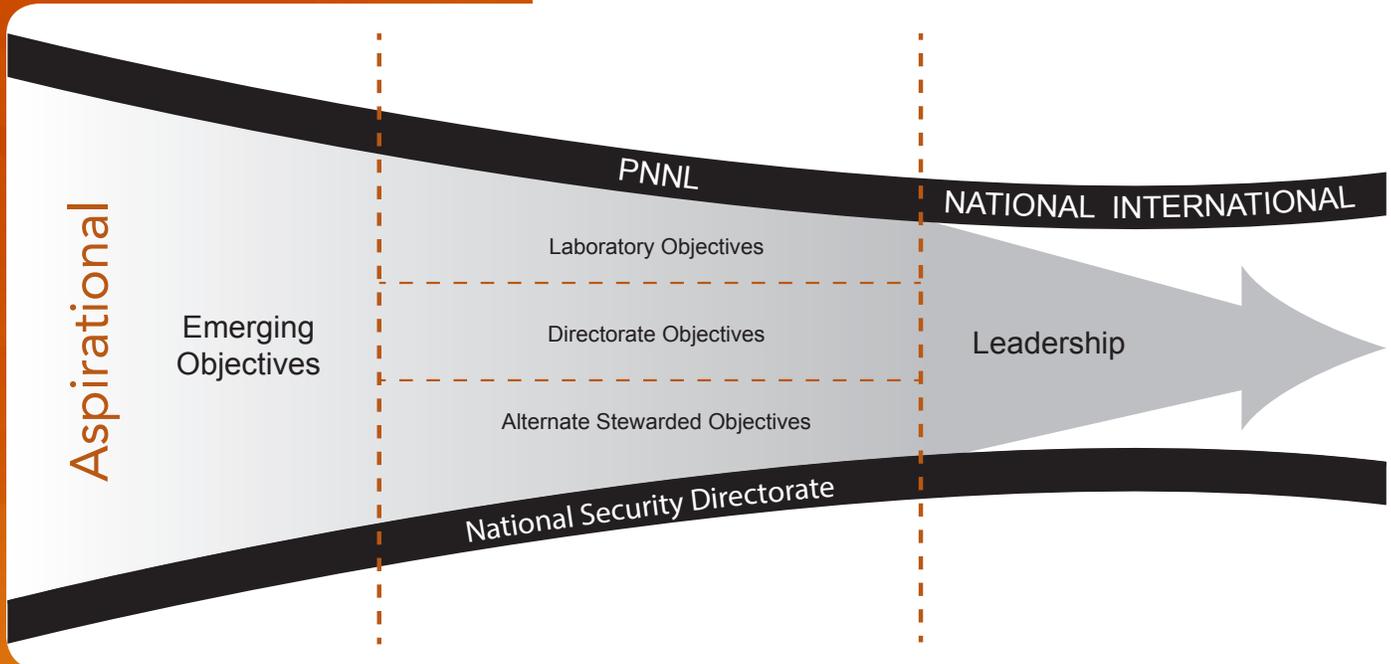
- » Deter illicit research
- » Detect and differentiate research of concern
- » Develop tools to strengthen the U.S. technical base
- » Defend against natural and engineered releases.

### WHAT WE OFFER

- » Low-risk approach to explore innovative ideas
- » Forum for broad staff engagement in PNNL's strategic thinking
- » Checks and balances on current strategic assumptions
- » Integrated solutions based on sound science, technology, and policy research.



## OUR FRAMEWORK



CGS identifies emerging issues that will influence our security environment and recommends a path forward for shaping those issues through comprehensive research agendas.

## WHO WE ARE

- » A component of the National Security Directorate of the Pacific Northwest National Laboratory, a U.S. Department of Energy national laboratory with more than 2,000 staff who are addressing national security problems
- » Trusted, objective source of national security expertise at senior levels of government and policy bodies
- » Leader of multi-stakeholder regional, national, and international security initiatives

For more information, please contact

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