

NIAC Day Breakout Session Outcomes

Session: Cybersecurity

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Major Organizing Questions/Challenges

- State major research questions/challenges and how they could be NIAC projects

Major Question/Challenge	Who Should be Engaged?
Human-relevant network data flow analysis for situation awareness (Metrics, Risks, Visualization)	
Data: Data-provenance, generation, characterization and validation of experimental/synthetic data (CPS, Infrastructure, HPC)	
Privacy: Definition, quantification, limitations of personal data and Network Flow Data (BigData)	
Composing Trust from untrustworthy components (SMART sensors, IoT)	

High-level Project Goals

- State the aggregated high-level goals for the projects in your Group (1 slide)

Area	Goal
Exchange of students and researchers	Joint papers, proposals
Workshop on each of the grand challenges	Identify what is feasible
Creation of shared resources and capabilities	

Implementation Strategy

- Outline your implementation strategy (what is needed, from whom, and how you will get it)

What	Who	How
Inventory of Capability of People	PNNL, UW	Enable PI visits, NIAC website
Continue the discussions here	UW, PNNL	Create e-mail list; Make use of the website

Prioritization

- Given finite bandwidth, prioritize or categorize your projects (high, medium, or low)

Project	Priority
Security and Privacy of BigData	
Addressing information overload for cyber network defenders	
Proactive network defense	
Trust in IoT	