



2024 Public-Private Analytic Exchange Program Topics

5G Impacts on Smart Cars and Highway Infrastructure Modernization: This topic can explore the evolving impact of 5G technologies on the safety and security of smart cars. Smart cars are provided by multiple manufactures, in various countries, with a plethora of capabilities, each with unique performance and connectivity requirements provided by emerging and evolving 5G technologies. This team will research and assess the technical and service landscape; the security risks introduced by 5G technology on smart cars; and report on evolving assumptions, needs, and use-cases of smart-cars in a 5G world. Additionally, this topic can explore potential vulnerabilities to the National Highway System associated with the incorporation of electric vehicle charging stations, automated drawbridges, automated vehicles, and other automated integrations (gates, express routes, tolling, etc.).

Assessing Risk in Multinational Investment Strategies: This topic can explore how large multinational investor address geopolitical and national security concerns in their due diligence processes, separate from know-your-customer compliance. As part of this effort, a key focal point will be evaluating how large multinational investors are educated on evolving geopolitical and national security considerations. The findings will provide an opportunity to inform relevant audiences about the most effective engagement or authority for these companies to inform their geopolitical and national security related decision-making processes.

Impact of Artificial Intelligence (AI) on Criminal and Illicit Activities: This topic can explore how AI applications are being exploited for illicit and other criminal activities, such as generating false testimony, synthetic content, photo manipulation, documentary evidence, voice scams, and financial fraud. As part of this effort, a key focus will be on identifying what mitigations are available to the private sector and how can US government-private sector collaboration address this technical and legal challenge.

Impact of AI on 'Traditional' Human Analysis: This topic can explore how access to vast, quickly retrieved information enhances the efficiency and knowledge base of analysts and what efficiencies can be achieved which still allow for proper validation and confidence in reliability of the intelligence/information. Also, this topic can allow for public and private sector analysts to outline what cases and activities within the intelligence cycle will benefit most from generative AI.

Preventing Violent Extremism Tool Kit: This topic can explore various preventive violent extremism programs at the community level and provide the local community leaders with a practical and simple tool kit they can use to manage their preventive violent extremism programs and assess strengths and shortfalls, including any gaps that may need to be filled.

Threat of Limited US Access to Critical Raw Materials: This topic can explore what are the implications for US industry's inability to obtain critical raw materials for green energy, electric vehicles, semiconductors and what is the current gap in our technologies to get us to a better situational awareness of the US current access to minerals. Additionally, this topic could explore industry and government's combined efforts to ensure the most appropriate technologies are built and safeguards are in place for a sustainable future for access and consumption critical resources.

US-China Competition: Tools of Power and Impacts: This topic can explore the domains in which the US and China are currently competing (i.e. Diplomatic, Military, Economic, etc.), the tools which both countries use to exert their will (i.e. military action, tariffs, etc.), and how these activities are expected to impacts US public and private sector entities going forward.