

# CYBER SECURITY OF CRITICAL INFRASTRUCTURE

NPP'S - TRANSPORT - SMART CITIES - WATER - 6G

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INTERACTIVE DISCUSSION ON TOPICS CHOSEN BY DELEGATES

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# YOUR OPINIONS- EVERYONE COMMENTS

## Known Unknowns

1. Control Systems Risks – Kinetic, Insider Attacks, Supply Chain Losses
  - **Volt Typhoon** – new demonstration of hostile AI?
  - **Kakhovka Dam** destructive consequences
2. European Nuclear Power Plant Risks - Case Study **Zaporizhzhia**
3. New drone/balloon surveillance over cyber reliant infrastructure
4. Nuclear War Risks – South China Seas and Russian War Statements
5. Satellites and Undersea Cables – Case Study Taiwan
6. 6G digital transformation - ‘The Intelligent Connection of Everything’

# **NUCLEAR TERRORISM**

## **Europe's current threat**

In Nuclear War and Cyber War infrastructure can be turned into weapons of mass destruction

Zaporizhzhia Nuclear Power Plant Case Study

<https://www.bbc.co.uk/news/world-europe-6260267>

**CHINESE SPY BALLOON DOING USA NUCLEAR MISSILE SITE SURVEILLANCE**

**What are your ideas on balloons and drones?**

# CHINA – TAIWAN LOCAL NAVIGATION HOSTILITIES ESCALATION TO SEA WARS? BLOCKADE OF TRADE?

SEA WARS and trade restrictions  
Near and Far Island Chains

- Source Pacific Forum

# ARCTIC NUCLEAR BASES

**Russia Strategic air/ land/ submarine nuclear weapons sites in the Arctic**

**Russia and China have stepped up their presence in the Arctic zone, as global warming begins to open up sea ways**

# COMMUNICATIONS RISK - SATELLITE ATTACK!

- In 2022 a satellite was sighted grabbing another long-dead satellite and days later throwing it into a "graveyard" orbit 300 km away
- Dr Brian Flewelling (USA) – January 2022

[02-09-22 https://www.dw.com/en/chinese-space-cleaner-spotted-grabbing-](https://www.dw.com/en/chinese-space-cleaner-spotted-grabbing-02-09-22)

# **INCREASED TESTING OF HYPERSONIC WEAPONS IN NORTH KOREA**

**THREATENING ASIA/PACIFIC AND USA MAINLAND**

<https://www.reuters.com/world/asia-pacific/nkorea-looks-risky-pre-fuelled-missiles-reduce-launch-time-2022-01-11/>

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Member, Technical Committee, Code of Practice-Cyber Security in the Built Environment, IET, 2022