What is RUSI?

Independent Defence and Security Think Tank
  • Founded in 1831

Research
  • Evidence-based
  • Policy relevant

Convening/communicating
  • Network spans government, academia, private sector
  • Range of events
  • Publications
Research Themes

• Military Sciences
• Defence, Industries and Society
• International Security Studies
• National Security and Resilience
• Proliferation and Nuclear Policy
• Centre for Financial Crime and Security Studies
Space and Cyber

How worried do we need to be?
Types of Cyber Attack in Space

Jamming
Spoofing
Hacking

Attacks on ground infrastructure
Potential Actors

States
Organised Criminal Groups
Terrorists
Individuals
Vulnerabilities

Rise in actors – state and commercial
More satellites/mega-constellations
Increased connectivity/Internet of Things
International supply chain
Changes in speed and costs of procurement and launch
Implications
National and International Security

Adversarial actions leading to potential conflict
ISR denial
Cyber attack as non-kinetic space ‘weapon’
Loss of essential data and information
Risks to Critical National Infrastructure
‘A day without space’
Space Situational Awareness

Loss of satellite control

Impact on ability to track satellites - unpredictability

Intentional or unintentional collisions → increase in debris
So what’s the solution?
Solutions

Understanding of space as Critical International Infrastructure and global common good

Risk analysis/risk tolerance

Multilateral discussions regarding best practices

Flexible and adaptive regulation that does not fall too far behind technological developments

Getting rid of silos

Education