



*JRC Annual Strategic conference
A DNO's perspective on Cyber security – preparing for ED2*

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Threat to UK ICS

It is **highly unlikely** a hostile nation state actor would seek to conduct a highly destructive cyber attack

Industrial espionage, learning and development, and pre-positioning are **highly likely** the primary threats to UK ICS asset owners

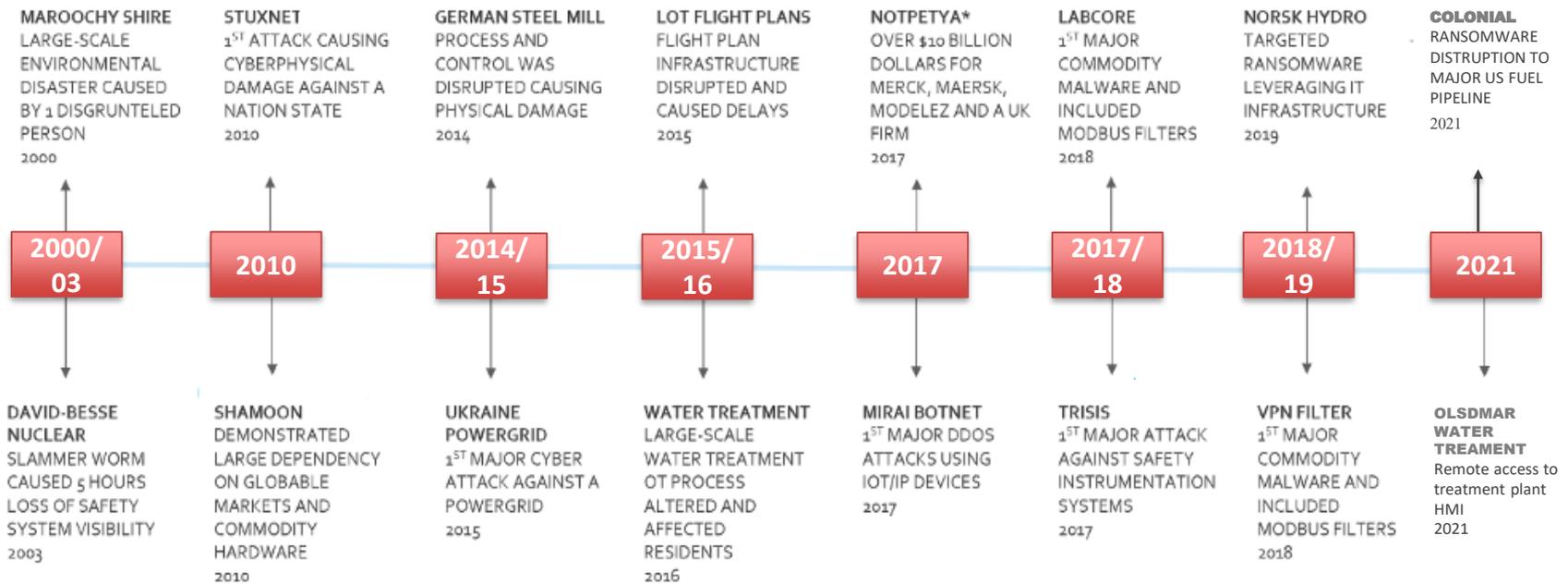
Ransomware with specific ICS functionality indicates cyber criminals have **highly likely** evolved to pose a more direct threat to ICS

Low-sophistication actors have shown a growing interest in targeting ICS. it is **likely** their interest and capability against internet-accessible ICS assets will grow

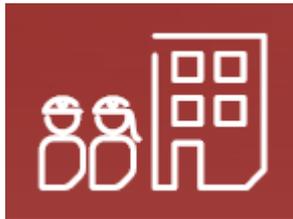
The combination of intent and capability that **almost certainly** make hostile nation state actors a persistent and potentially dangerous threat.



Attack timeline



Digitalisation and open data



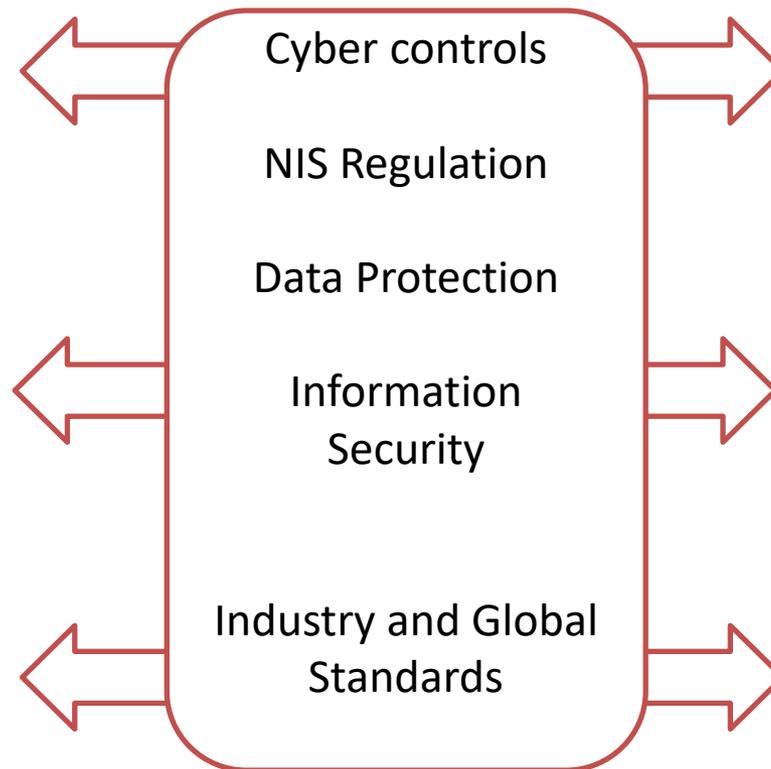
Journey to Net Zero



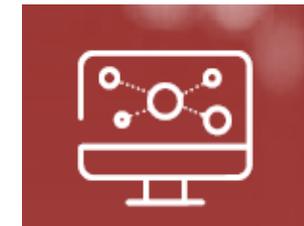
Open Data



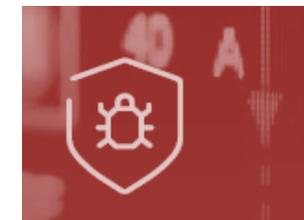
Greater visibility and control of assets



Attackers view



Intelligence



Attack surface

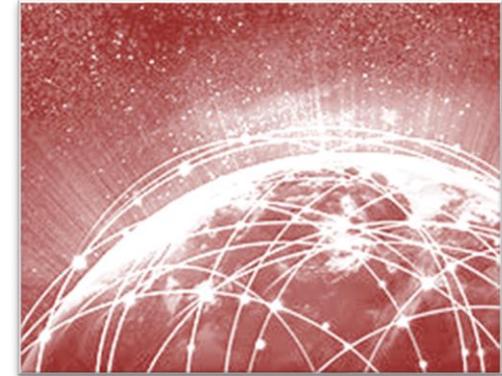


Security of data in transit

- ▶ Exposure
- ▶ Routing
- ▶ Availability



Secure communications



- **Commercial**
 - **Private Radio**
 - **Private Fibre optics**
 - **Rented Fibre optics**
- **Certainty**
 - **Spectrum**
 - **End of life**
 - **Cost**

