

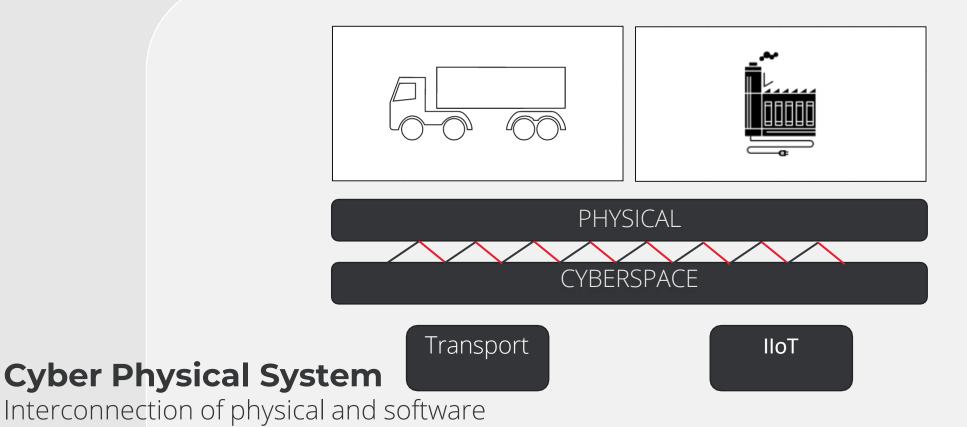
Converged Security

Converged Security Overview

Similar to embedded and IoT (think connectivity), but to a greater degree

Smart Grid, autonomous automobile, digital (autonomous) aviation

Mechanism controlled by an algorithm





Converged Security Overview

Example: Attacks from one domain to another

A gap in control anomaly detection allows a cyber attack to halt energy production, resulting in loss of power, potential physical loss of life (medical, transport), theft (security systems)

A gap in access controls allows a commercial printing services allows attackers to compromise kiosk and access to internal networks



Converged Security Overview



Security functions operating separately

Management lack visibility and oversight

Possible counterproductive decision making

Decision making alerting process potentially interrupted



Risks

Typically:

Physical world: Potentially to get caught and spotted

Digital World: Easy to blend in with noise

Biggest threat type: Insiders

Converged:

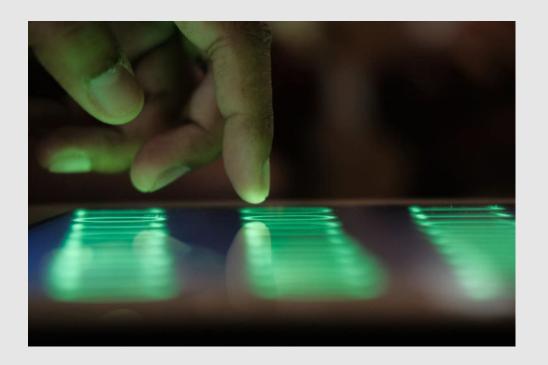
Physical + Digital: Better blend of controls

Biggest threat type: Insiders



Influences







Maturity

Domestically, maturity is low US maturity is higher, leading the trend

Requires a re-shift of attitudes and large organisational change





Case Study

Internet connected fish tank:

thermometer connected to PC used to access internal casino network



Source: https://www.hackread.com/hackers-casinos-fish-tank-smart-thermometer-hack/

