

Emerging Trends

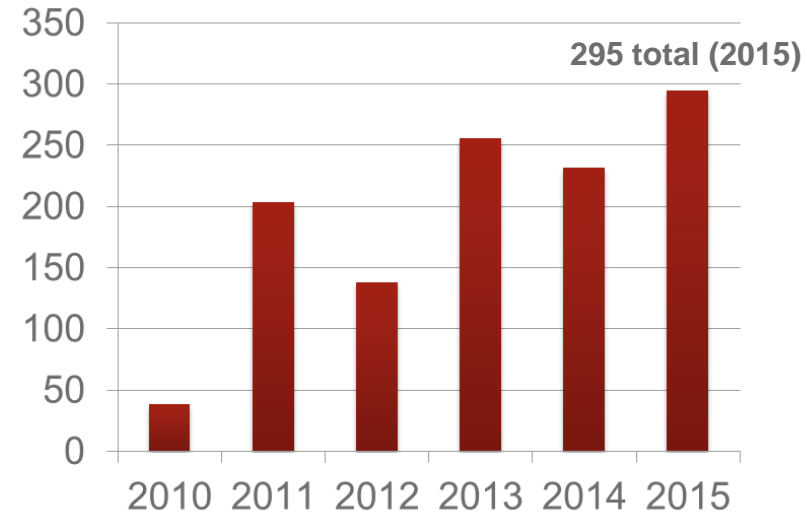
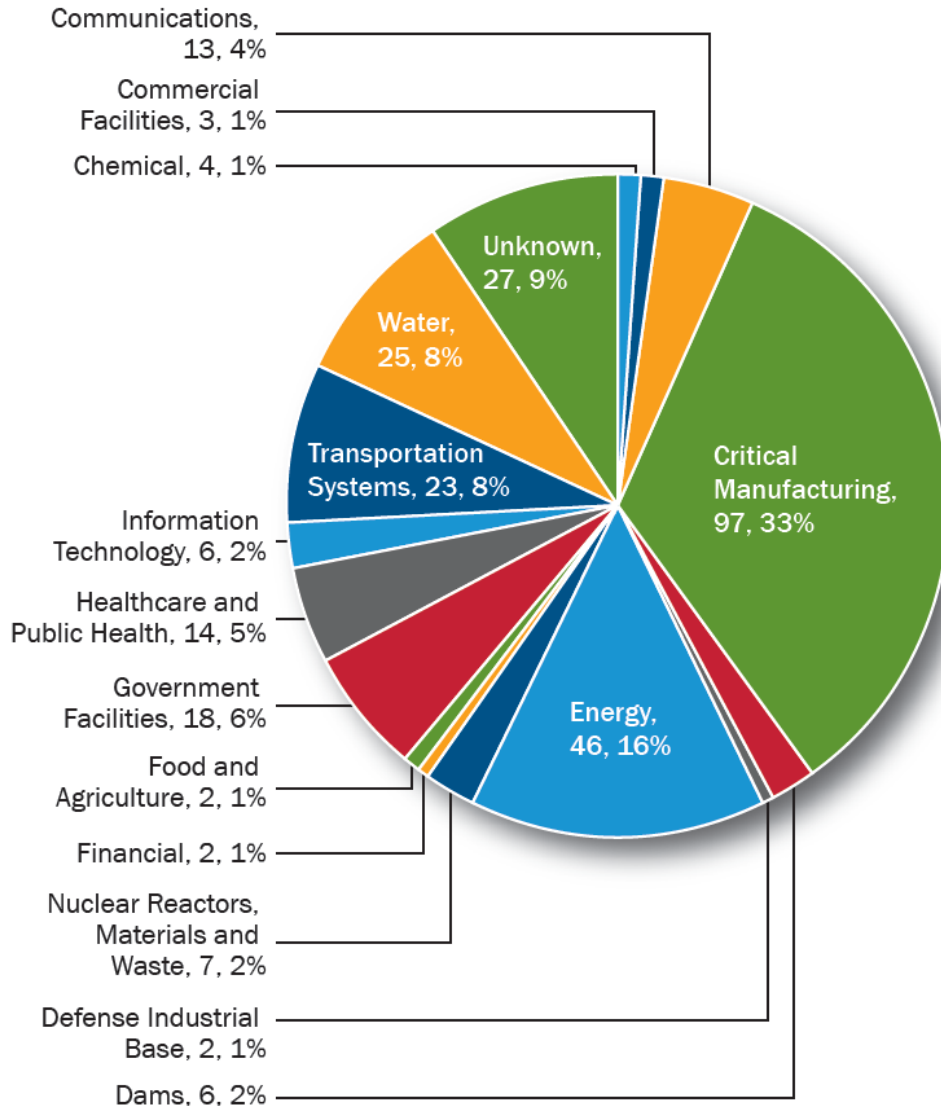
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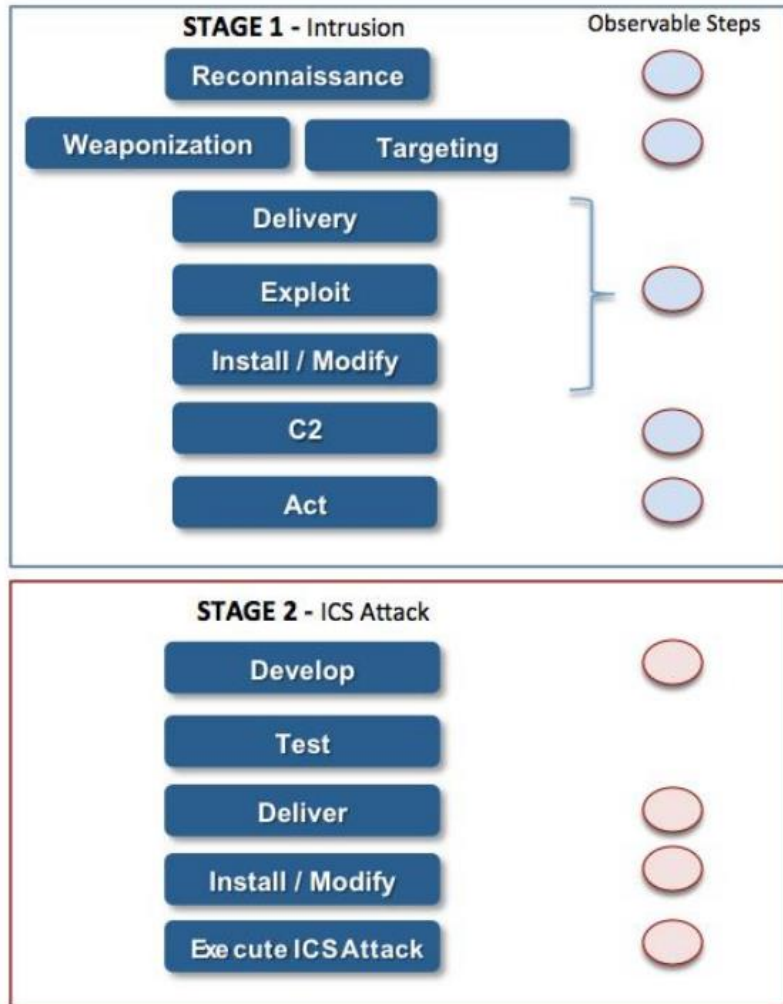
ICS-CERT 2015: Incidents by sector



Cyber Attack on the Ukrainian Power Grid



Industrial Control Systems



APT



Attack with Impact



E-mail Infected Microsoft Office Files

Phishing E-mails

BlackEnergy 3

VPN & Credential Theft

Network & Host Discovery

Malicious Firmware Development

SCADA Hijack (HMI/Client)

Breaker Open Commands

UPS Modification
Firmware Upload
KillDisk Overwrites

Power Outage(s)



A Changing Landscape

- Increasing threat of terrorism (Chancellor of the Exchequer's speech, November 2015)
- Increasing commoditisation and digitisation
- The Internet of Things and Cyber-Physical systems

