Hvordan skaper vi **Cyber Resiliente stasjoner** – i dag og i fremtiden?

Amalie Lønning
Cybersecurity Portfolio Manager &
Head of Cyber Technical Excellence NO
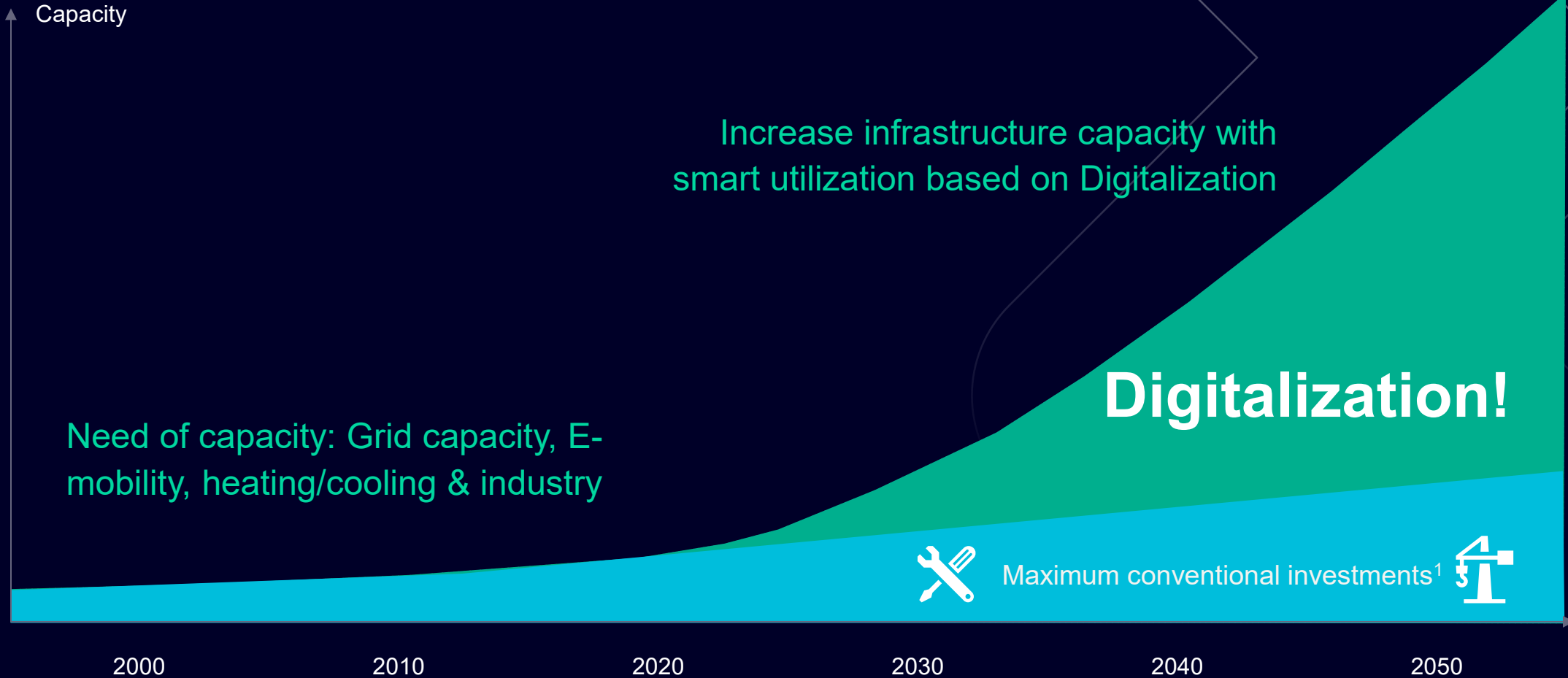
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in alonning

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The future we are up against

Exponential growth towards Net Zero

Capacity

Increase infrastructure capacity with smart utilization based on Digitalization

Digitalization!

Need of capacity: Grid capacity, E-mobility, heating/cooling & industry

Maximum conventional investments[1]

2000 2010 2020 2030 2040 2050

1 Limited by resource availability, coordination effort, space, acceptance, etc.

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Europe | Stealth bombers

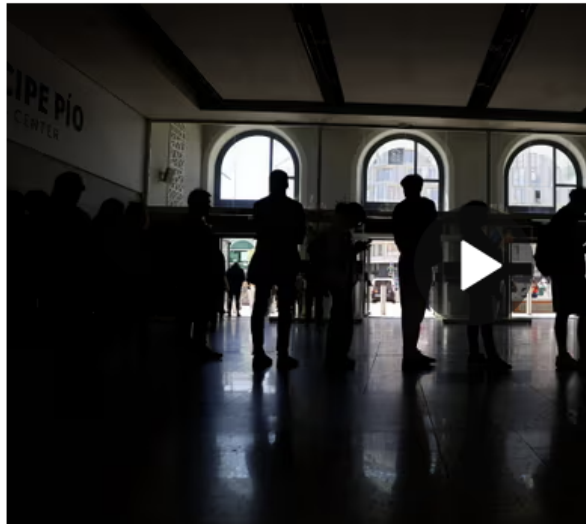# The cyberwar in Ukraine is as crucial as the battle in the tre

So far, r

Explainer

Spain and Portugal power caused it, and was there a

Several countries in Europe have been scra
electricity after a huge power cut caused bla

● **Spain and Portugal hit by massive power**

◼️ Major power outage causes chaos in Spain and Portugal – vi

Spain, Portugal and some of south-west France suffered a massive p
on Monday, with major cities including Madrid, Barcelona and Lisbc
those affected.

ILLUSTRATI

Mar 20th 2

Russian hackers seized control of Norwegian dam, spy chief says

Beate Gangås says attack in April by Norway's 'dangerous neighbour' aimed to cause fear and chaos

● Europe live ≡ 🔍

📷 'We have seen a ch
of the Norwegian Pol

attack analysis: https://cloud.google.com/blog/topics/threat-
-disrupts-power-ukraine-operational-technology/

DARKREADING

NEWSLETTER SIGN-UP

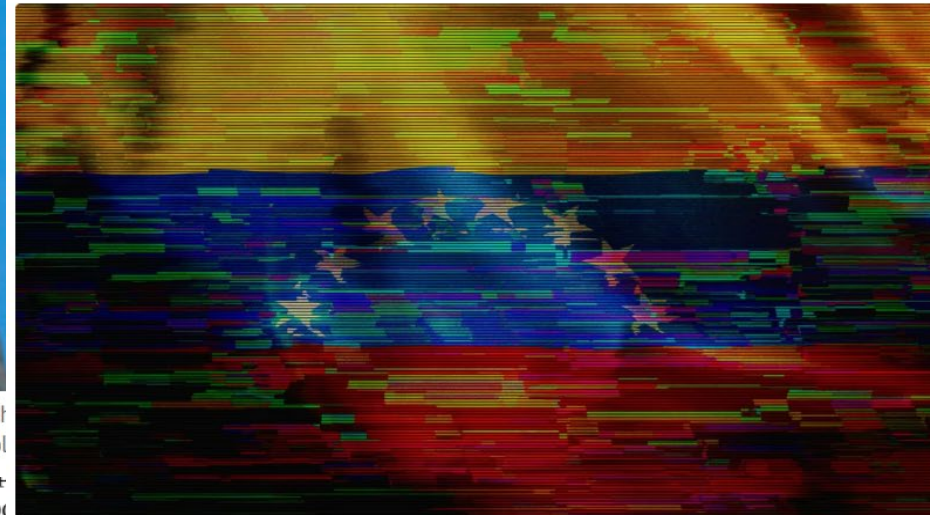Cybersecurity Topics ⌄   World ⌄   The Edge   DR Technology   Events ⌄   Resources ⌄

Cyberattacks Likely Part of Military Operation in Venezuela

Cyber's role in the US raid on Venezuela remains a question, though President Trump alluded to "certain expertise" in shutting down the power grid in Caracas.

Robert Lemos, Contributing Writer
January 7, 2026

🕐 4 Min Read

Editor's Choice

CYBERSECURITY OPERATIONS

DARKREADING
CONFIDENTIAL

Dark Reading Confidential: Stop Secrets Creep Across Developer Platforms

by Dark Reading Staff
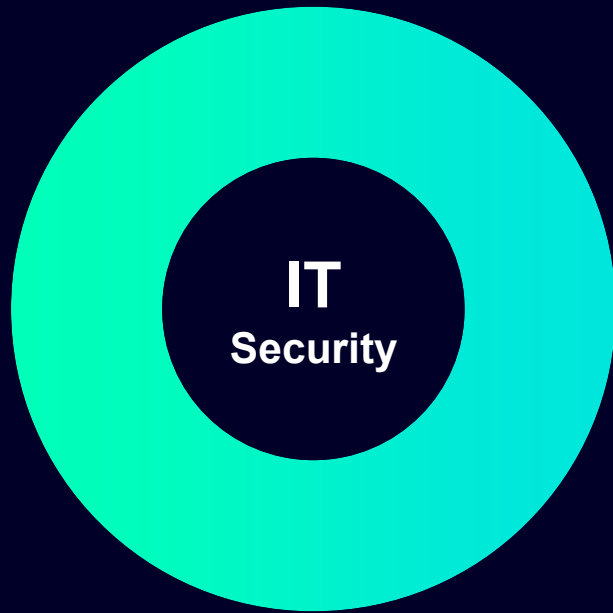
DEC 29, 2025

CYBERSECURITY CAREERS

Digital World

IT
Security

Separated

OT
Security

Real World

SIEMENS

Digital

IT
Security

OT
Security

Real world

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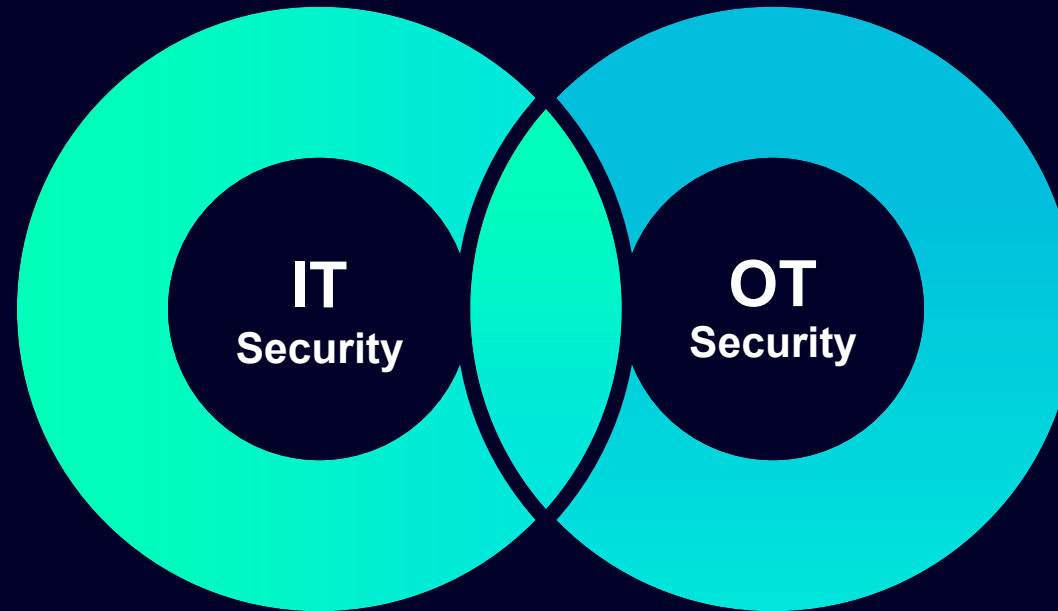
Main differences between OT and IT

Operational Technology (OT)	Conceptually the same, but differences in	Information Technology (IT)

Systems/Components

Network traffic

Vulnerability Management

Protection goals & priorities

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Cybersecurity

Expectations:

Reality:

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Debunking cybersecurity myths in OT

MYTH | 1
Our systems are not connected to the external world via the internet

MYTH | 2
Firewalls protect us that our systems are not exposed

MYTH | 3
Our OT systems are complex and not understood by hackers

MYTH | 4
Our systems are small, so our hackers don't find our facilities interesting to target

FACT | 1
Infected remote support, infectected test kits, RS232 link, external laptops could be a potential weak link

FACT | 2
One of the top Cyber Weaknesses is insufficient or wrongly configured firewalls

FACT | 3
Ukraine Attack disproves this myth as field devices were irreparably damaged

FACT | 4
"Hacking as a Service (Haas)" is available on the dark web and any weak facility could be a training ground.

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OT Cyber Security Maturity in Power Utilities
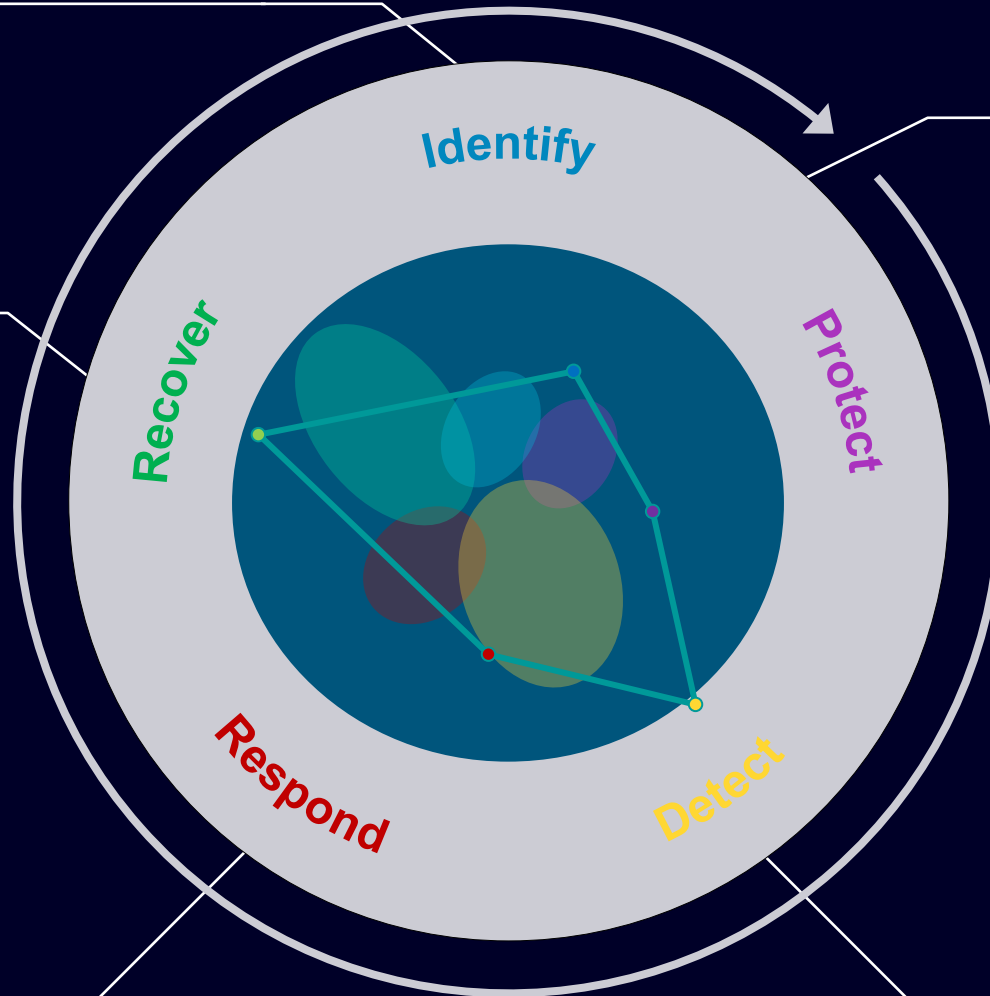## Building Cyber Resilient Station

Where do we begin…
Governance
Risk & Gap Assessments
Asset & Inventory Information

Clean-up crew
Business Continuity,
Disaster Recovery
Backup & Restore

When S*** hits the fan
Remote Access
Patch Management
Incident Response

Identify

Protect

Recover

Respond

Detect

Control of the basics
Maximizing security functionality in and versions in existing hardware and software

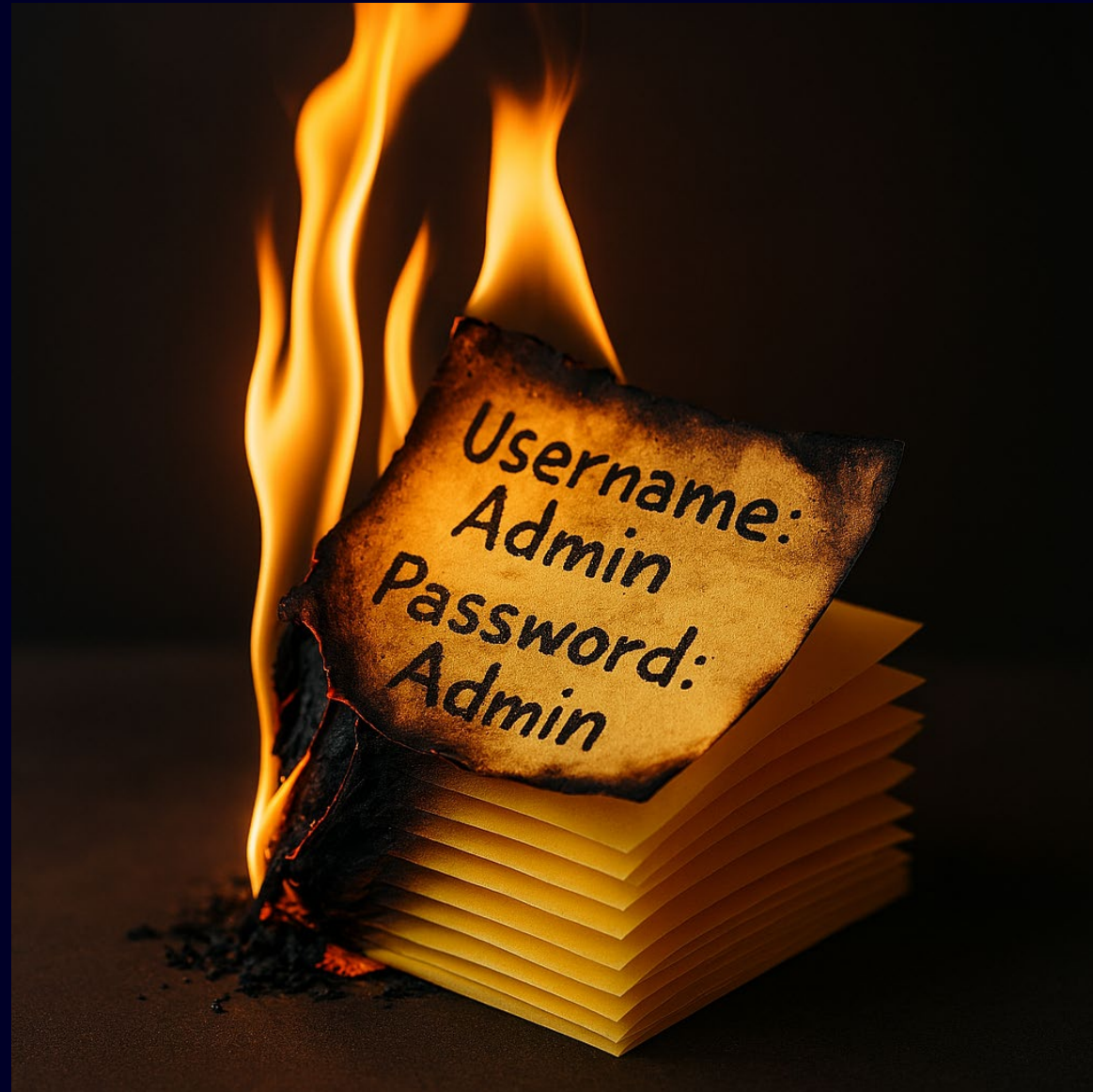Device Hardening & Testing
Firewalls
Basic monitoring and vulnerability handling

On the offensive
Network segmentation
Zone Firewalls
Whitelisting
Encryption
Log Gathering
Role Based Access Control
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Hvis det var litt mye å ta inn over seg
Lov meg en ting...

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Q&A?

– Amalie Lønning, Cybersecurity Portfolio Manager
& Head of Cyber TE Norway

This presentation was made by a human

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