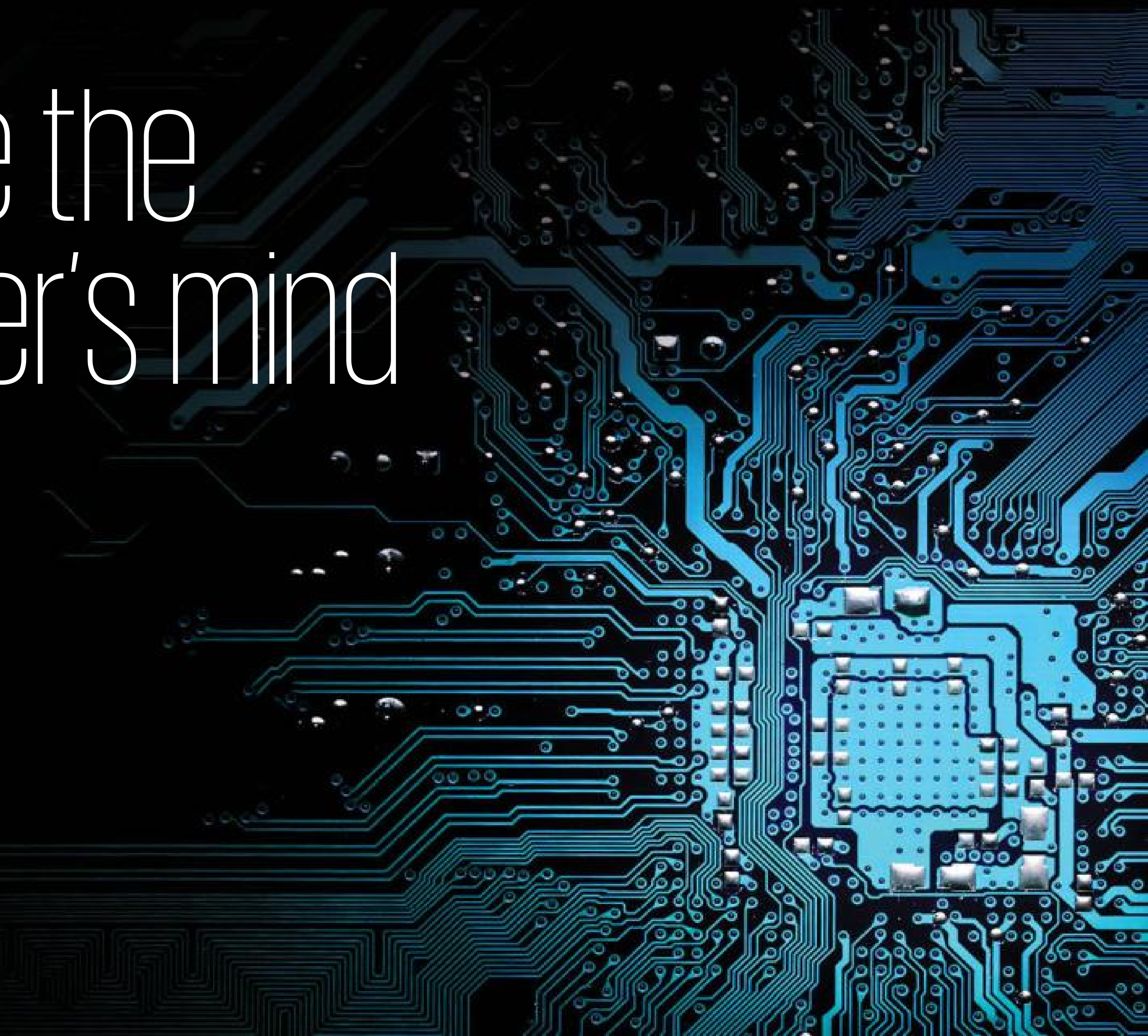
Inside the hacker’s mind

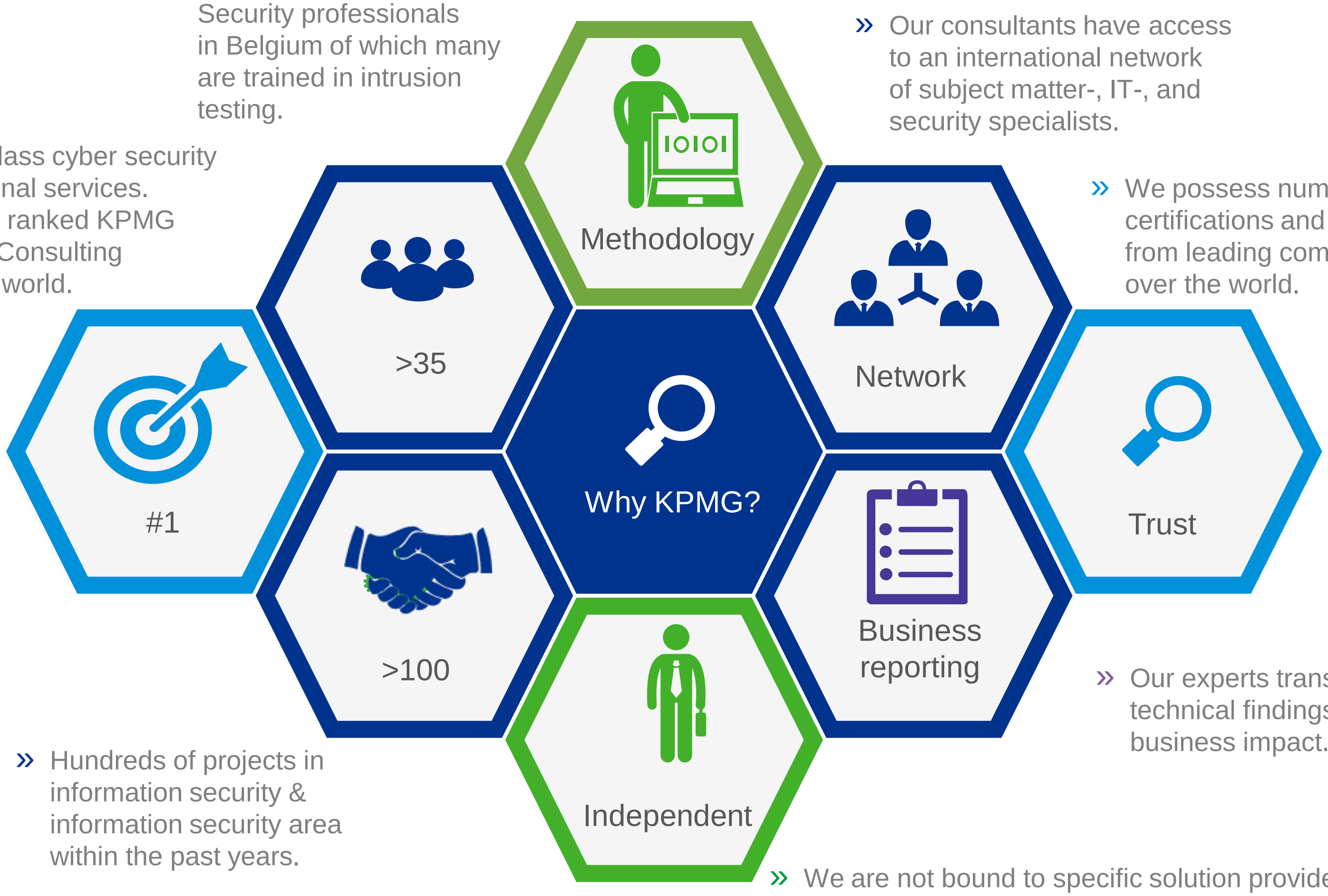


October 16th 2018

1. **Who are we?**
2. **Why should we care about this?**
3. **What do we see?**
4. **What can we do?**

Who are we?

1 Who are we?



» Best-in-class cyber security professional services. Forrester ranked KPMG Security Consulting leader in world.

» More than 35 Information Security professionals in Belgium of which many are trained in intrusion testing.

» KPMG has designed and fine-tuned a proven security testing approach.

» Our consultants have access to an international network of subject matter-, IT-, and security specialists.

» We possess numerous certifications and references from leading companies all over the world.

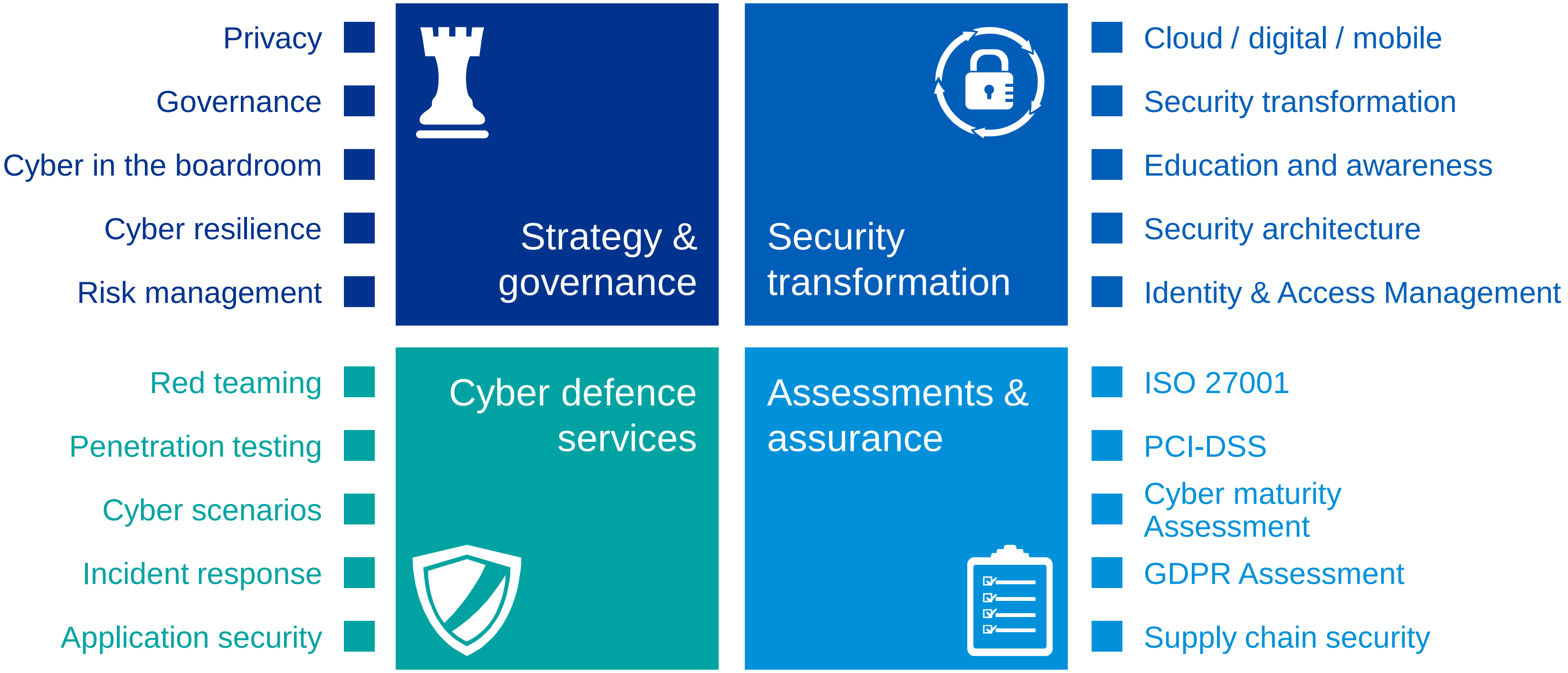
» Our experts translate technical findings into business impact.

» We are not bound to specific solution providers or Suppliers – our recommendations are based on what is best for your individual needs.

» Hundreds of projects in information security & information security area within the past years.

1

Who are we?



Strategy & governance
- Privacy
- Governance
- Cyber in the boardroom
- Cyber resilience
- Risk management

Security transformation
- Cloud / digital / mobile
- Security transformation
- Education and awareness
- Security architecture
- Identity & Access Management

Cyber defence services
- Red teaming
- Penetration testing
- Cyber scenarios
- Incident response
- Application security

Assessments & assurance
- ISO 27001
- PCI-DSS
- Cyber maturity Assessment
- GDPR Assessment
- Supply chain security

Why should we care about this?

2 Why should we care?

Hacktivism

Hacking inspired by ideology

Motivation: shifting allegiances – dynamic, unpredictable

impact to business: public distribution, reputation loss

Organised crime

Global, difficult to trace and prosecute

Motivation: financial advantage

impact to business: theft of information

The insider

Intentional or unintentional?

Motivation: grudge, financial gain

impact to business: distribution or destruction, theft of information, reputation loss

State-sponsored

Espionage and sabotage

Motivation: political advantage, economic advantage, military advantage

impact to business: disruption or destruction, theft of information, reputational loss

What do we see?

3

What do we see?

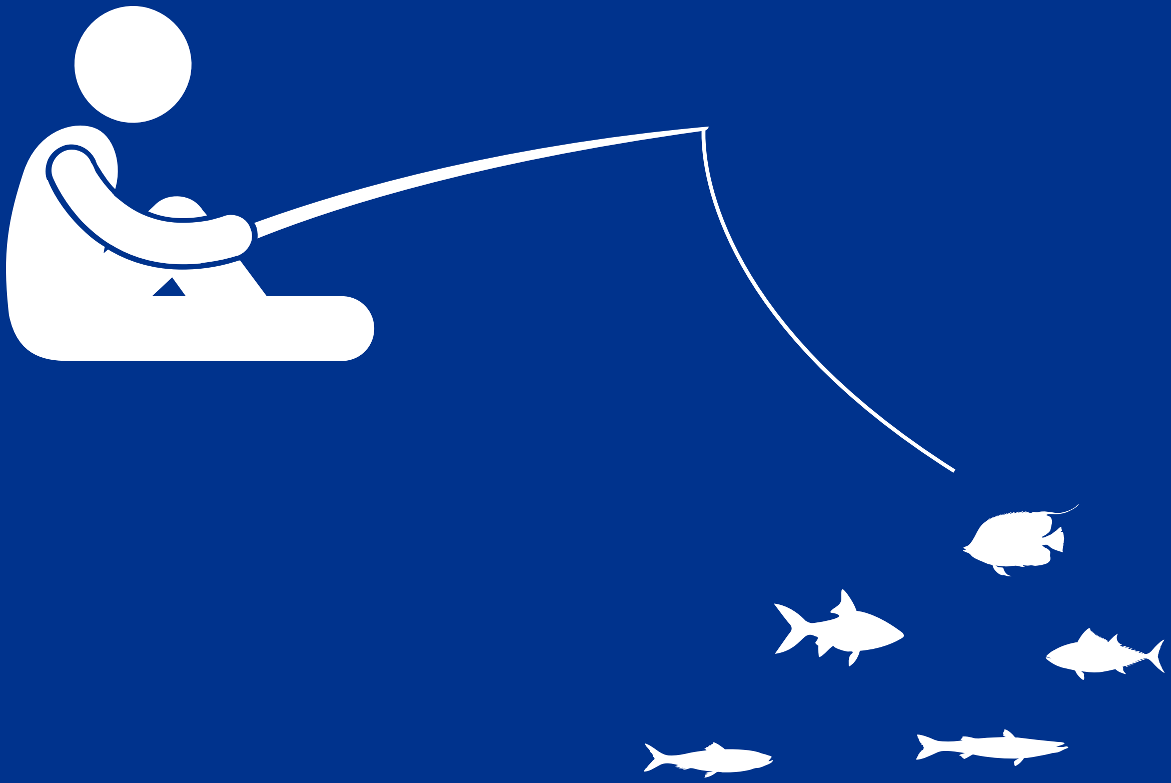
[Picture was removed because of confidentiality reasons]

Key takeaways:

- Industrial environments are highly complex with lots of components and interconnections
- Industrial environments are often very vulnerable (because maintenance is difficult: it’s hard to bring down production systems)

War Story #1

War Story #2



KPMG

War Story #3

Who needs nerds anyway?

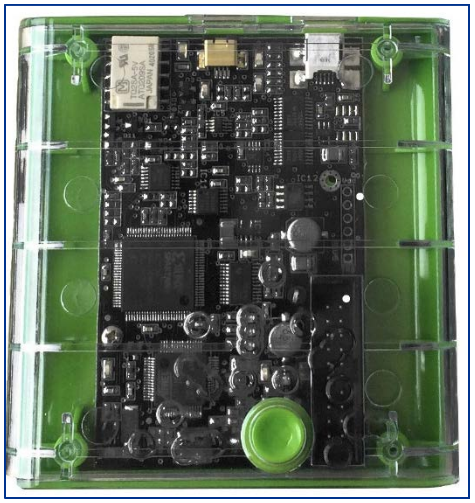
3

What do we see?

[Some pictures were removed because of confidentiality reasons]

Key takeaways:

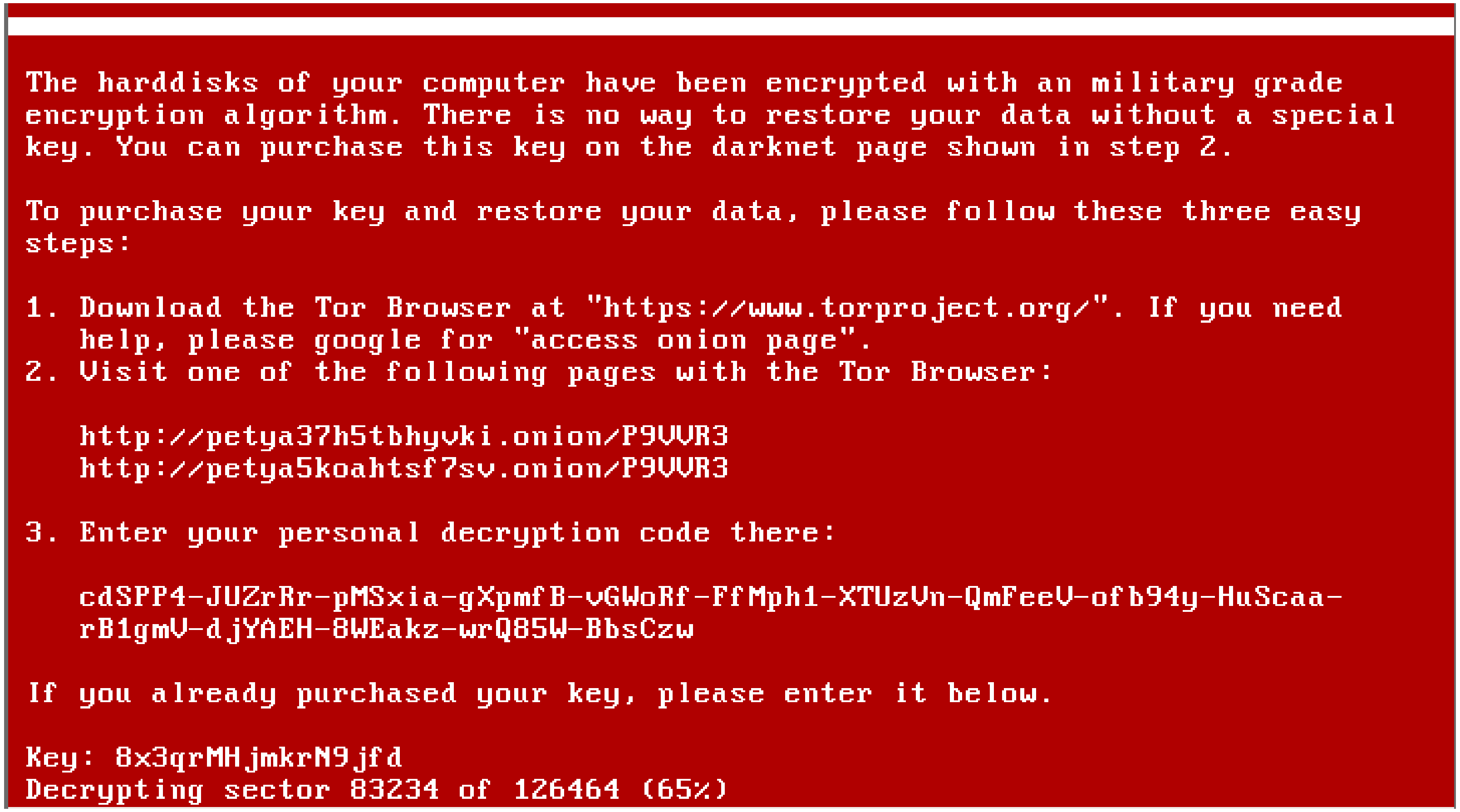
- Technological access is not always required
- Gaining physical access is (super) easy and can have a huge impact as well



War Story #4

3

What do we see?



```
The harddisks of your computer have been encrypted with an military grade
encryption algorithm. There is no way to restore your data without a special
key. You can purchase this key on the darknet page shown in step 2.

To purchase your key and restore your data, please follow these three easy
steps:

1. Download the Tor Browser at "https://www.torproject.org/". If you need
   help, please google for "access onion page".
2. Visit one of the following pages with the Tor Browser:

   http://petya37h5tbhyvki.onion/P9VVR3
   http://petya5koahtsf7sv.onion/P9VVR3

3. Enter your personal decryption code there:

   cdSPP4-JUZrRr-pMSxia-gXpmfB-vGWoRf-FfMph1-XTUzVn-QmFeeV-ofb94y-HuScaa-
   rB1gmV-djYAEH-8WEakz-wrQ85W-BbsCzw

If you already purchased your key, please enter it below.

Key: 8x3qrMHjmkrN9jfd
Decrypting sector 83234 of 126464 (65%)
```

What can we do?

4

What can we do?

Risk-based approach, in the form of the following services …

OT Security Reviews/Assessments

- People
- Process
- Technology

In-Depth IT/OT Technical Security Testing

- Configuration checks
- Network traffic analysis
- Ethical hacking

Advisory for OT Security Monitoring Capabilities

Training and Cyber Security Education

- OT Cyber Security Incident Response

Thank you!

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