



Audit approach to Cybercrime Resilience

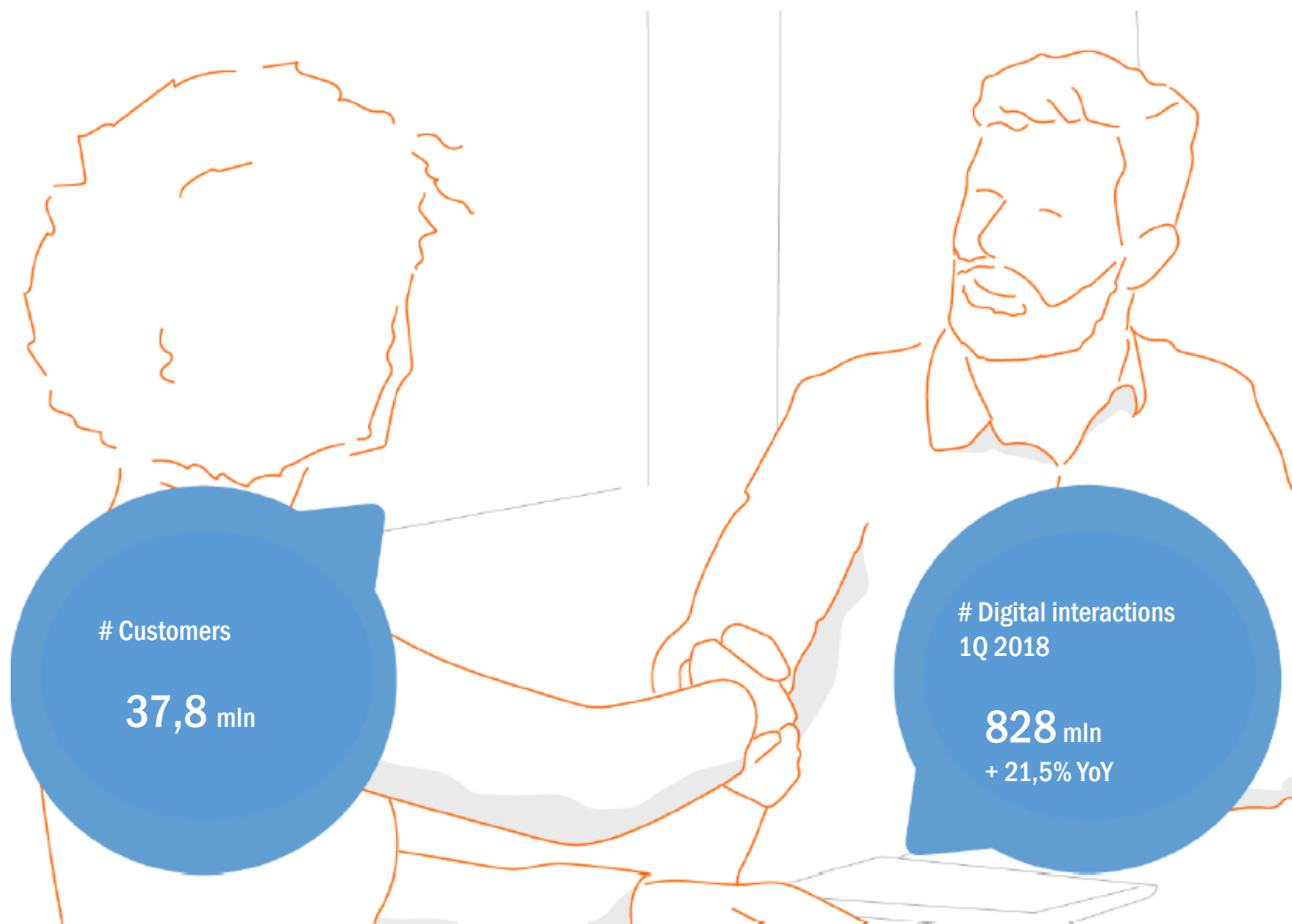
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Introduction



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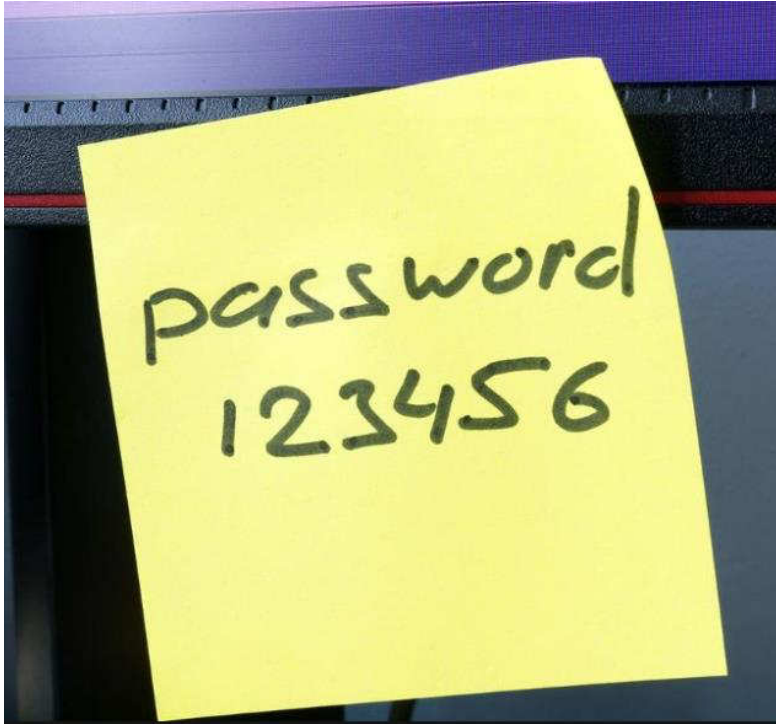
People are the biggest risks

Customers

- Share the PIN code
- Share their bank card
- Use old computers and software
- Open malicious e-mails
- Unsecure Wifi
- ...



People are the biggest risks



Employees

- Sharing of passwords
- Passwords easy to guess
- Private email address
- Opening malicious e-mails
- Share sensitive information
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What can you do ?



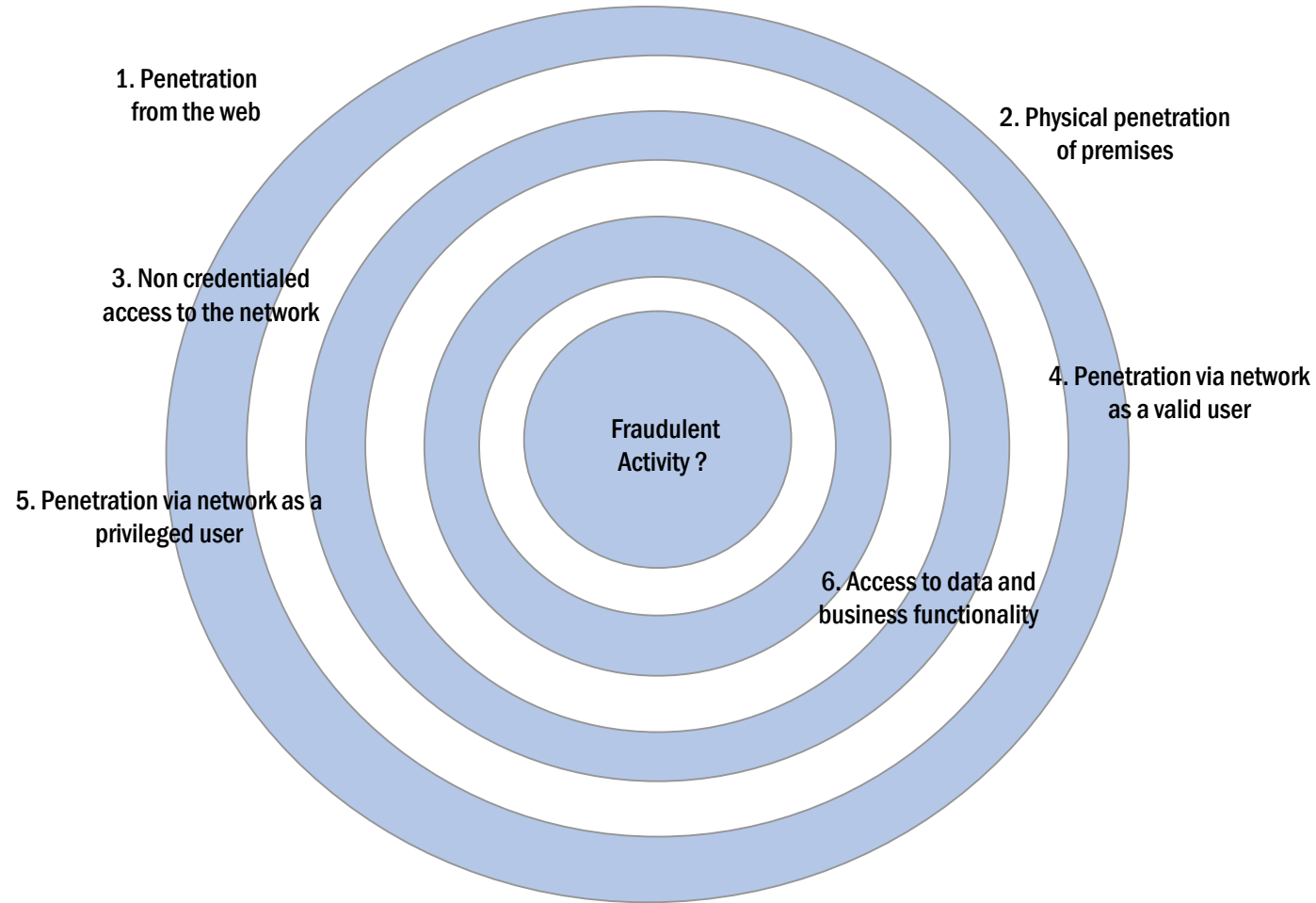
	Preventive		Detective		Response	
People	Pre-employment screening	Awareness training	Capability to detect incidents		Crisis Management organisation	Response procedures
Processes	Policy & Standards	Vendor Management	Client behavior monitoring	Penetration testing	Partnership with law enforcement	Disaster Recovery
Technology	Multi-factor authentication	Patch Management	Security Event Monitoring	Intrusion Detection	IT Forensics	



Examples of Cyber Security controls

Roles & Responsibilities	Digital Banking Fraud	Denial of Service (DOS)	Advanced Persistent Treat	Data Leakage Prevention
<ol style="list-style-type: none"> 1. Mandate and responsibility 2. Staff awareness and training 3. Critical business processes and IT infrastructure 4. Scenario analysis including red / blue team exercises 5. Intelligence gathering, analysis and communication 6. Forensic and prosecution processes 	<ol style="list-style-type: none"> 1. Customer awareness 2. Contracts & general conditions 3. Cybercrime Customer response procedure 	<ol style="list-style-type: none"> 1. Responsibilities DOS attacks 2. Ransom ware 3. DOS emergency response procedure 	<ol style="list-style-type: none"> 1. APT Risk Assessment 2. Domain segmentation & Network monitoring 3. Harding IT assets 4. Management of credentials 5. Credential stores 6. Certificate management 7. APT emergency response procedure 	<ol style="list-style-type: none"> 1. Responsibilities related to DLP attacks 2. Workstation Security 3. Webmail 4. Public Cloud Storage 5. Mobile Devices 6. DLP emergency response procedure

IT Vulnerability Audit Approach



IT Audit Approach in 3 pillars

Core IT Audits

- IT Governance
- IT Outsourcing
- Applications
- IT Management & Development
- Information Risk Management

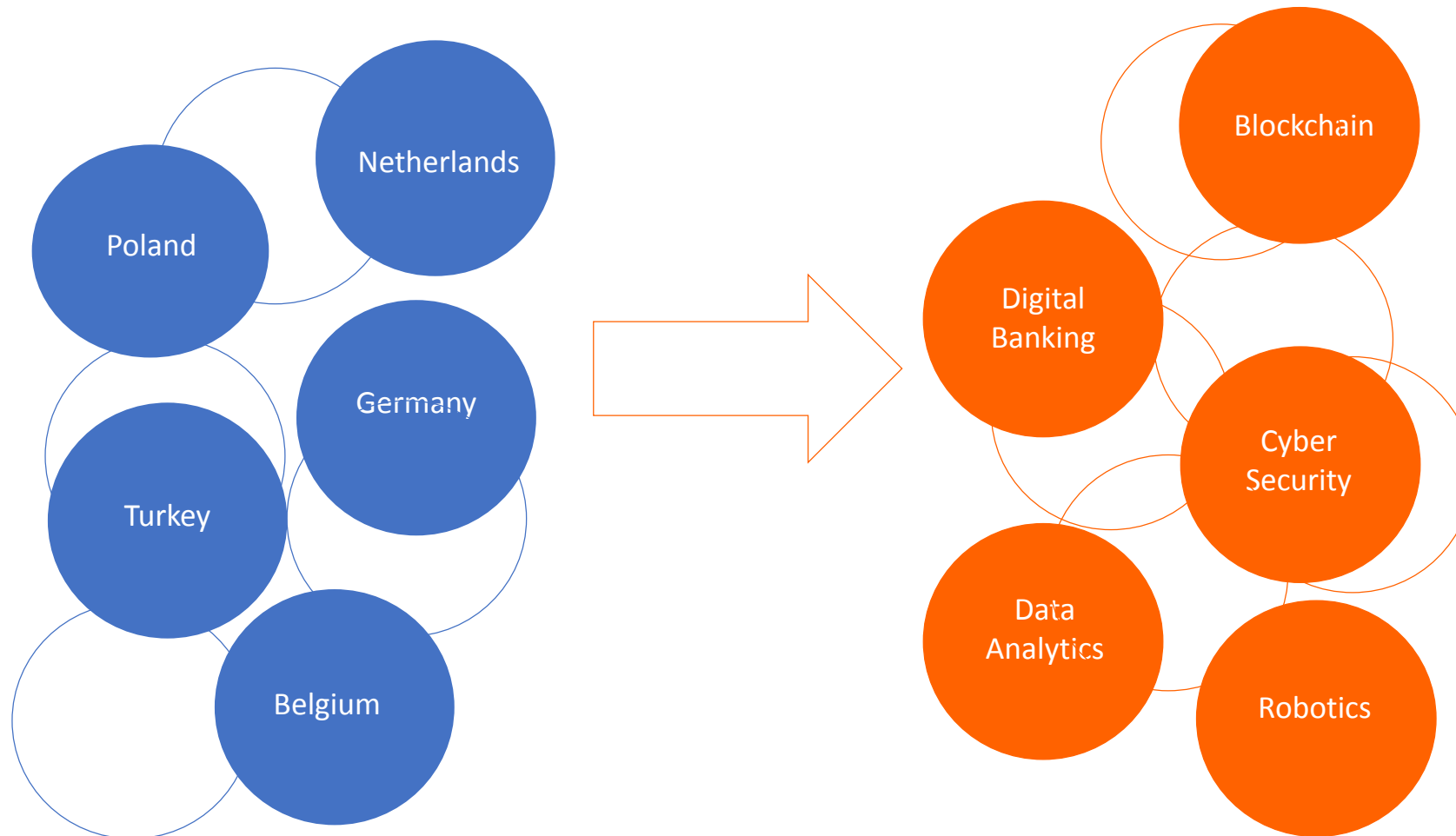
Technical IT Audits

- IT Network
- IT Infrastructure
- Cloud Computing
- Data Centre

Emerging IT Audits

- Internet & Mobile Banking
- Cyber Security
- Block Chain
- Robotics
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From a country approach to a specialist approach



Questions?