

# LET'S CONNECT

■■■ PRINECT ■■  
USER DAYS



**Security in the Print Shop:  
Successfully fending off  
Cyber Threats**

# Disclaimer

## Legal notice

The contents of this workshop have been prepared with the greatest care. The workshop and the information provided therein are in no way a substitute for experts, individual advice from knowledgeable third parties. Heidelberg accepts no responsibility for correctness, completeness, and accuracy of the information provided.



# Threat Scenarios

# The Biggest Attack Trends

## AI-based attack methods

- Deepfakes
- Voice Cloning

## Phishing and social engineering

- Spying on sensitive data of victims

## Ransomware

- Blackmail after data encryption

## Data theft

- Ransom or publication of your data

## Cyber crime as a service

- The criminal as a customer of the hack industry
- Standardized, purchasable business models on the dark web

## Supply chain attacks

- Infiltration of malware
- Are your partners well positioned in terms of information security?

## Direct hack attacks

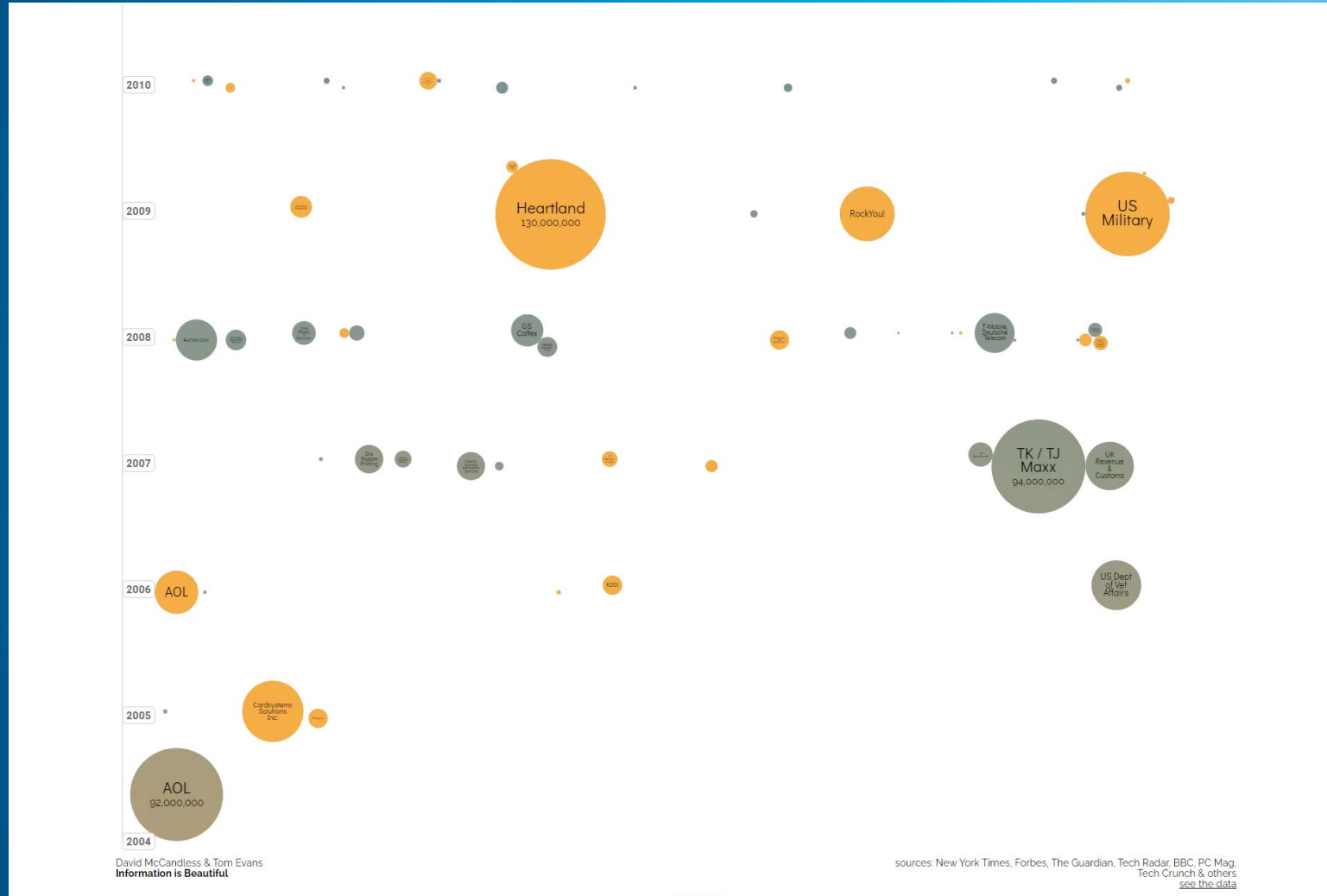
- The individual hacker attack

## DDoS attacks

- System overload and paralysis
- Your business is blocked

# World's Biggest Data Breaches & Hacks

Source: [informationisbeautiful.net/visualizations/worlds-biggest-data-breaches-hacks/](http://informationisbeautiful.net/visualizations/worlds-biggest-data-breaches-hacks/)



## Conclusion:

"It's not a question of if you will be hacked,  
but when and how you respond."

*Mark Minasi*

# How do you achieve a good security level?

1. Attitude thing



View security as a competitive advantage rather than an unnecessary cost

2. Adversary



Technical complexity and the human factor

3. Become active



Involve experts, implement and live best practices

## Issues:

- What is necessary for a good level of security?
- How can I effectively protect my print shop against attacks?
- How secure are HEIDELBERG products and services?



**A Good Own**

**Protection Level**

# What is necessary for a good level of security?

Information Security Protection Goal:  
Ensure  
**confidentiality, integrity and availability**  
of information

Identification of the most important assets and information and their protection needs

+

Analysis and evaluation of vulnerabilities and white spots on the security map

⇒ **Risk assessment**

# How do you achieve a good level of security on your own?

## Appointment of a security officer [*Chief (Information) Security Officer (CSO/CISO)*]

- is the driving force behind security in the print shop
- involved in decision-making processes
- responsible for Incident Response Team (IRT)

## Information security is an ongoing process!

- requires continuous improvement
- perform security checks on a regular basis
- keep an eye on current threats and security trends
- maintain and continuously improve the level of protection

# **Effective Protection Against Attacks**



# How can I effectively protect my print shop against attacks?

## Preventive Controls

### Training and awareness:

- Train employees to deal with security risks and raise awareness of the threats caused by cyber attacks
  - Understanding information security
  - Ensuring data security as well as data protection
  - Ensuring physical security
  - "Best Practices" for secure computing, including remote and mobile working
  - What to do if there is a threat or violation?
- Detect phishing attacks, social engineering tactics, malware, data protection incidents
- Secure handling of (print) job data from customers/third parties

### Access control:

- Limit access to sensitive data and systems to authorized users only
- Strong passwords, multi factor authentication (MFA), domain directory service

### Software update and patch management:

- Keep all systems and software up to date
- Regularly install security updates and patches to address known vulnerabilities

# How can I effectively protect my print shop against attacks?

## Preventive Controls

### Network security:

- Protect network from unauthorized access
- Implement security policies to monitor and filter traffic
- Secure web server (WAF, DMZ, reverse proxy, etc.)

### Physical security:

- Protect physical access to critical resources such as presses, server room and sensitive documents

### Firewalls and antivirus software:

- Deploy firewalls and antivirus software
- Monitor network traffic
- Detect harmful activities

### (Print) data receipt/exchange:

- Check PDFs for malicious code (e.g. Adobe “protected mode”, opening customer data in “sandbox” environment, etc.)
- insecure FTP, SMB etc.: eliminate file sharing solutions

# How can I effectively protect my print shop against attacks?

## Detective Controls

### Security Monitoring:

- Implement monitoring and analysis of network traffic to detect suspicious activity
- Intrusion Detection Systems (IDS): detection of unauthorized access
- Security policies and procedures: Establish policies and procedures to detect and respond security incidents

## Corrective Controls

### Incident Response Plan:

- Develop Plan to respond to security incidents
- Including detection, response and recovery from a cyber attack

## Restorative Controls

### Data backup and recovery:

- Create regular backups of data and systems that require protection
- Keep backups in a safe place
- Practice recovery (disaster recovery) regularly

# How can I effectively protect my print shop against attacks?

## Deterrent Controls

### Network security:

- Network segmentation (office network, pressroom network...) to limit risks due to network isolation

## Organizational Controls

### Compliance and data protection:

- Ensure compliance with all relevant legal requirements and data protection regulations, especially if this concerns sensitive customer information
- Compliance with standards (such as payment standards)

### Security policies and procedures:

- Develop and implement internal policies and procedures to ensure information security





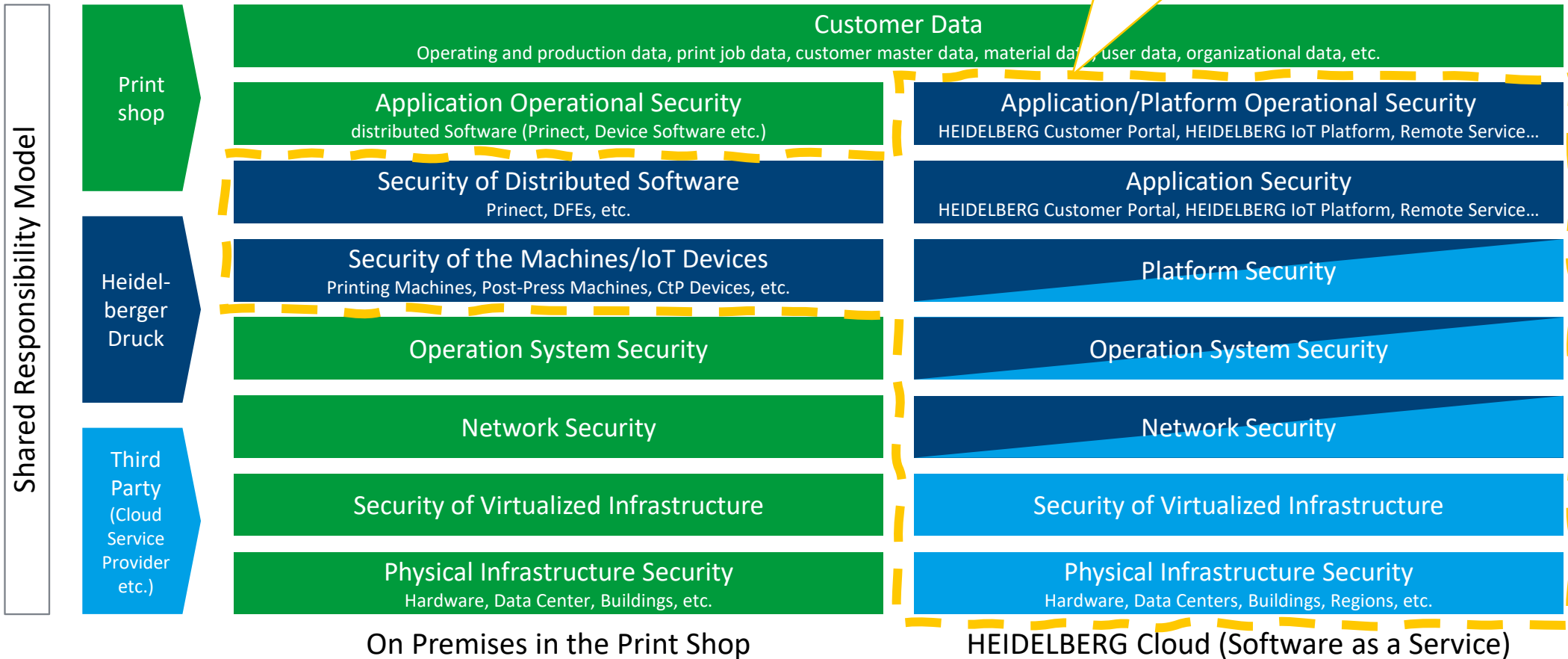
**Security of HEIDELBERG  
Products and Services**

# Shared Responsibility Model

ISMS certified according to ISO/IEC 27001



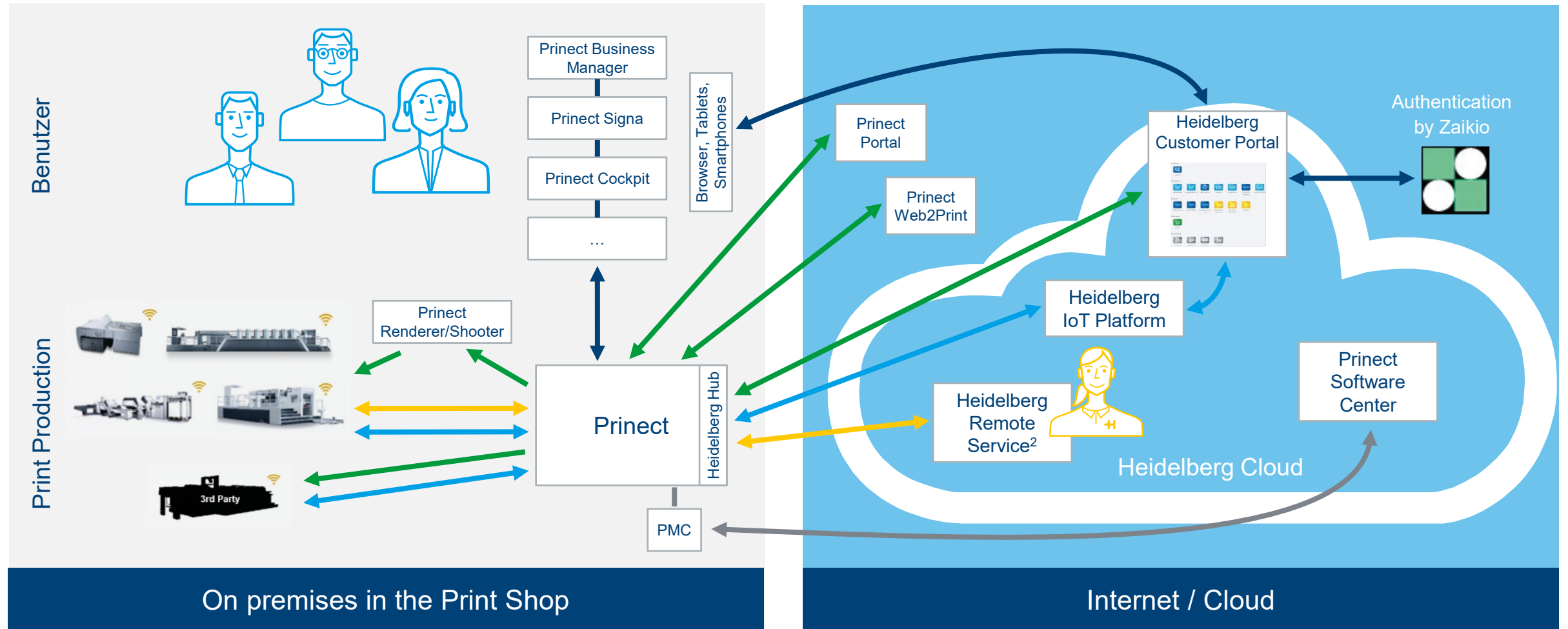
HEIDELBERG



# HEIDELBERG IT Security Architecture

## Print Shops with Prinect Workflow<sup>1</sup>

- ➔ Operating data
- ➔ Print job data
- ➔ Remote service connections
- ➔ Software updates, licenses, other data
- ➔ User interactions



On premises in the Print Shop

Internet / Cloud

<sup>1</sup> Prinect Production Manager, Prinect Production System, Pressroom Manager, Prepress Manager, Integration Manager; all at least from software version 21.10

<sup>2</sup> if maintenance contract exists



# There is no such thing as 100% security

"The only truly secure system is one  
that is powered off,  
cast in a block of concrete and  
sealed in a lead-lined room with armed guards  
– and even then I have my doubts."

*Gene Spafford*

**Thank you very much for your attention!**

