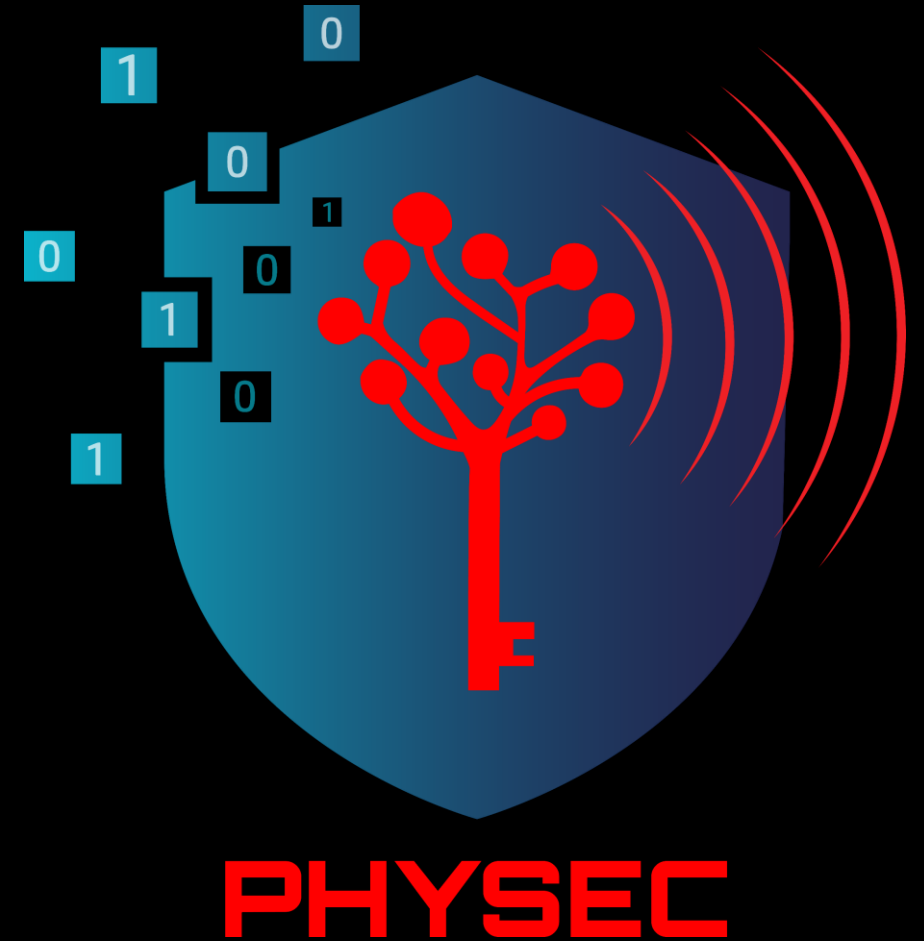


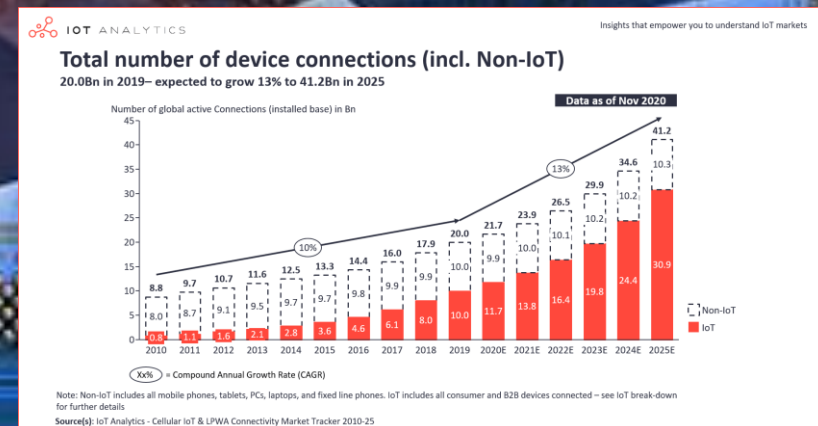
Anti Tamper Radio for the Internet of Things and other Applications

TeleTrust Innovation Award 2022
June 2022

Dr. Christian Zenger,
CEO and Co-founder at PHYSEC

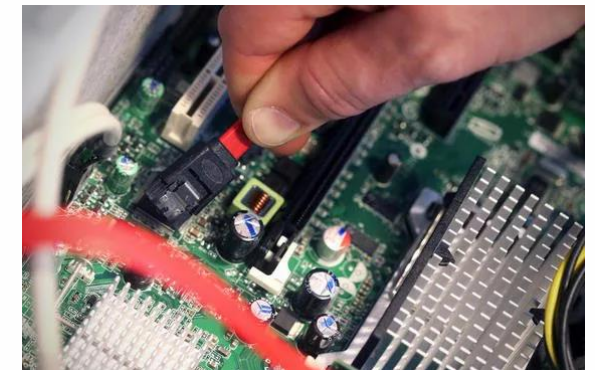
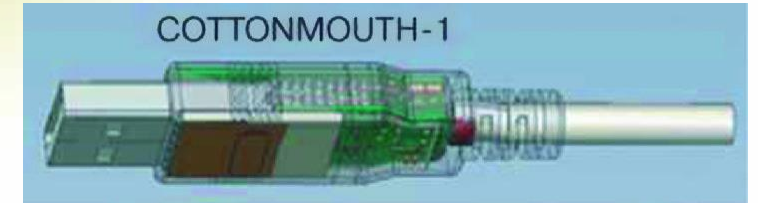
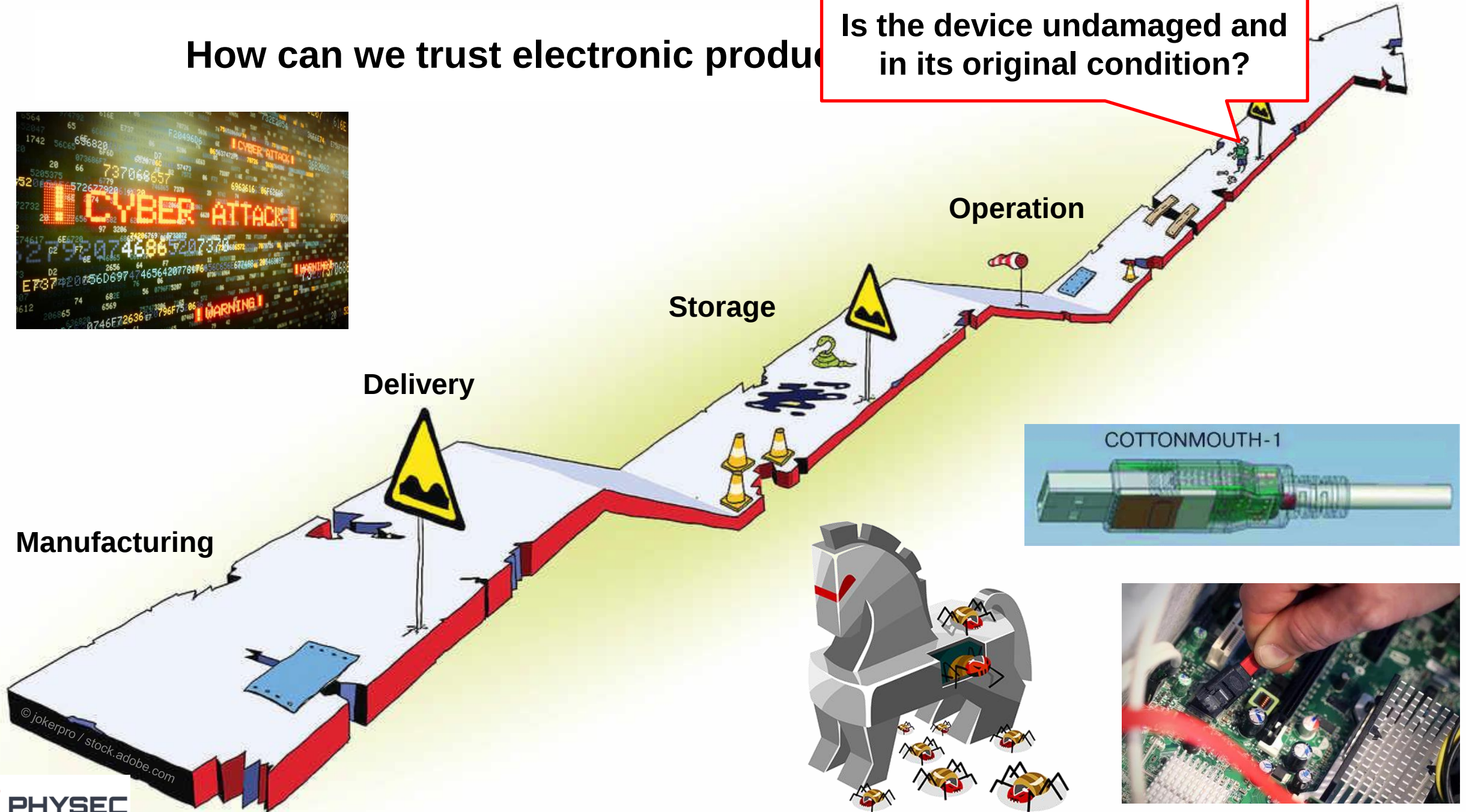


Trustworthy Electronics will Rule our Daily Lives



How can we trust electronic products

Is the device undamaged and in its original condition?





PHYSEC SEAL: Tamper Detection



Anti Tamper Radio

Cyber Security

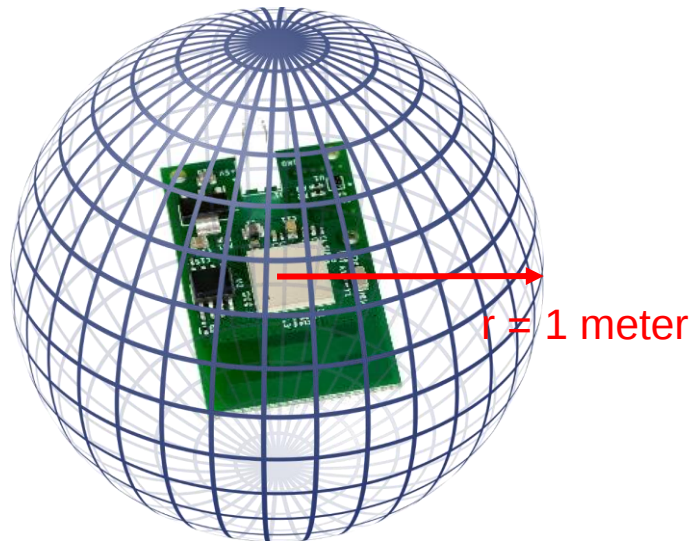
Physical Security



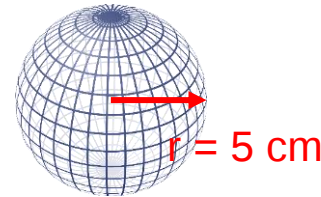
SEAL Service Platform



Tamper Detection: 2 Security Levels



Perimeter equivalent security
 $\Delta c = 1\text{mm}$ Changes



High security
(FIP140 Level 4)
 $\Delta c = 60\mu\text{m}$ Changes



SEAL Service Platform



Tamper Detection: Areas of Application



E-Mobility



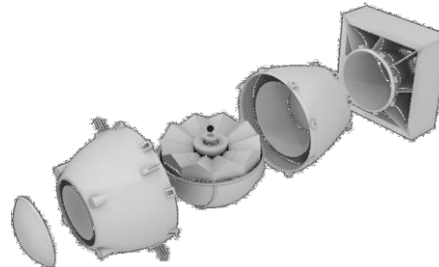
Smart Grid



Smart Meter



Smart Healthcare



High Security



5G RAN



Tamper Detection: Areas of Application



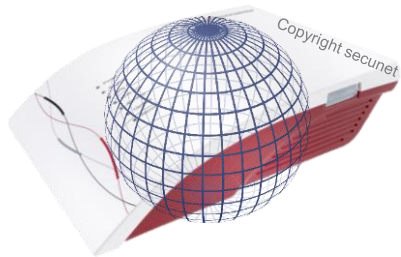
E-Mobility



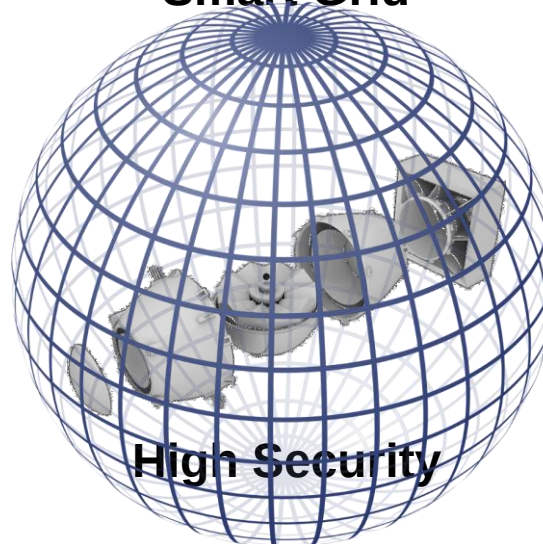
Smart Grid



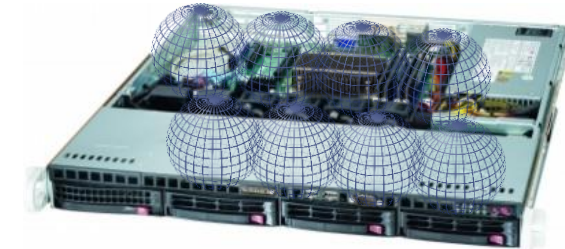
Smart Meter



Smart Healthcare



High Security



5G RAN

PHYSEC | Spin-off des Europaweit führenden Cyber-Security Instituts



The Horst Görtz Institute for IT Security –
interdisciplinary, innovative & international

39

Professor*innen

160

Wissenschaftler*innen

1000

Studierende der IT-
Sicherheit an der RUB

1

Exzellenzcluster



<https://hgi.rub.de/en>

The Horst Görtz Institute is part of the Ruhr University Bochum.

Pioniere in IoT | Ein Starkes Team mit starkem Background



Management

Dr.-Ing. Christian Zenger (CEO)

- Expert in communications engineering and cryptography
- Board member of HGI, KDW and cube5
- MIT Innovator under 35
- Work experience at NATO and John Deere

Dr. Heiko Koepke (CFO)

- Expert in business development and finance
- Board member of eurobits
- Professional experience at KPMG and E.ON

**5 Dissertations and
10+ Masters in IoT-Security**

10+ Awards and Innovation Prizes

- e.g., 1. place at EU Cyber Security Award 2021

2016 Founded as HGI Spin-Off

50+ Employees

Top-class Advisory Board:

- Prof. Dr. Christof Paar

(Director MPI for Cyber-Security)

- Willi Mannheims

(Partner eCapital)

Thank You!



Dr. Christian Zenger,
CEO and Co-founder at PHYSEC

