

TeleTrust
Pioneers in IT security.

Cloud Computing

→ European perspective

Prof. Dr. (TU NN)

Norbert Pohlmann

Institute for Internet Security - if(is)
University of Applied Sciences Gelsenkirchen
<http://www.internet-sicherheit.de>

if(is)
internet security.

Cloud computing

→ European perspective

- **Cloud Computing will be the future!**
- IT **security** and **trust** will be the enabler for:
 - how fast and
 - how deepthe uses of Cloud Computing will be, **especially in Germany.**

Public Cloud – European perspective

→ SWOT Analysis (*ENISA Report*)

SWOT ANALYSIS



ENISA Report “Security and Resilience in Governmental Clouds”

Public Cloud

→ **Strength** (*ENISA Report*)

- **Availability and reliability**
- **Tolerance and elasticity**
- **Patch management (mean time between patches)**
- **Response time**
- **Business continuity**
- **Physical security**
- ...

Public Cloud

→ Weaknesses (*ENISA Report*)

- The lack of legal and regulatory **compliance** (data retention, forensics, reporting)
- Lack of control over the supply chain
- Logging capabilities
- Difficulties in accessing forensic data to determine data link ability and accountability in cases where illegal activities are performed.
- Degraded performance
 - due to poor quality in the structuring of an application
 - **due to poor quality in the connectivity**
- **Difficulties in transferring data back to the user**
- ...

Public Cloud

→ Opportunities (*ENISA Report*)

- Risk analysis and assessment
- Security testing
- Real-time security monitoring
- Forensics
- ...

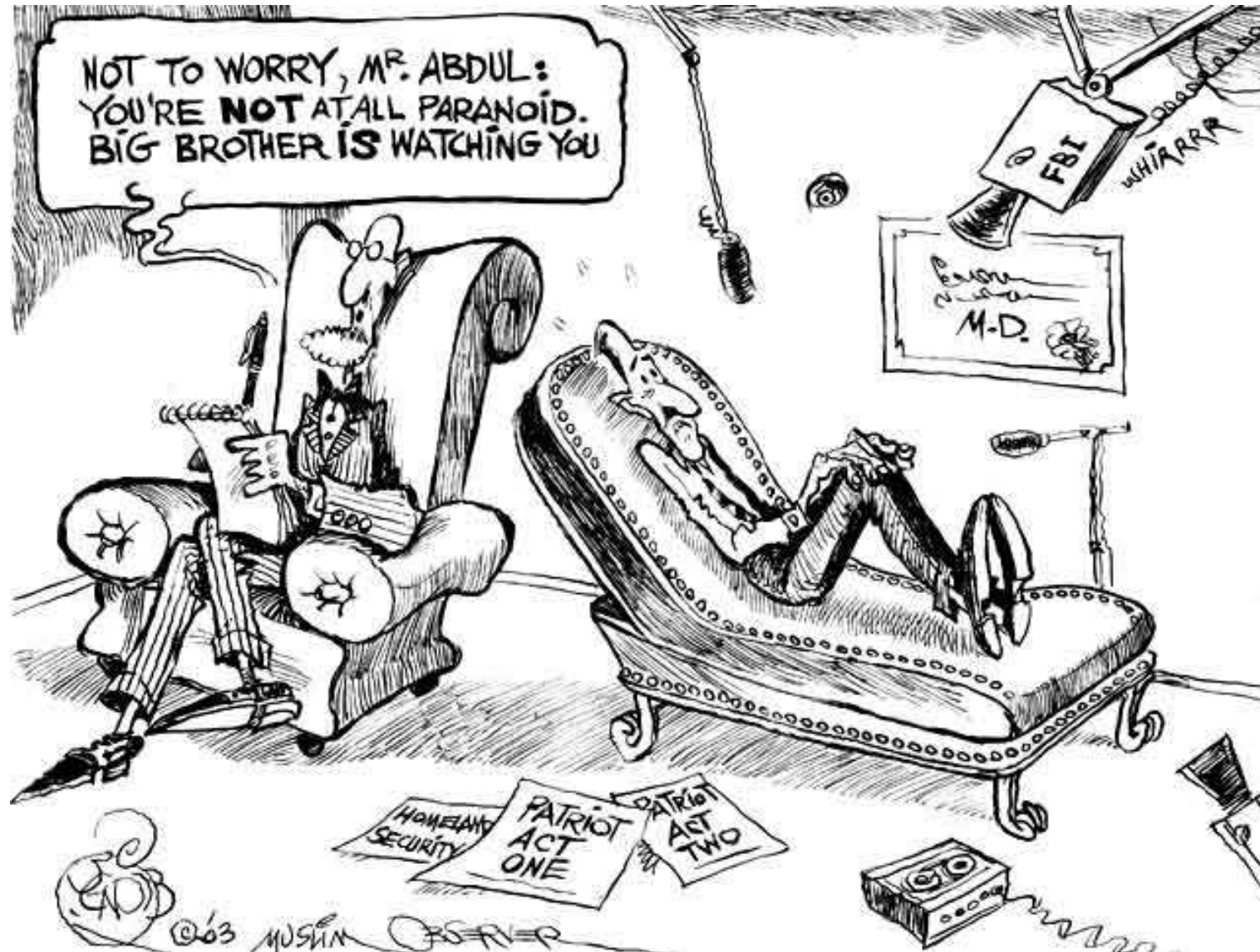
Public Cloud

→ Threats (*ENISA Report*)

- A large public cloud is **an attractive target** for threat attacks due to the large quantity of information.
- The impact of attacks **from insider threats may be rather large** due to the amount of information stored in the cloud.
- Isolation failure can open the door to **information leakage**.
- **Multiple jurisdictions** may apply when the sites of the provider are distributed across several nations.
- **Moving to another provider can be almost impossible** if there is no tool to automatically translate data into the new format
- ...

Privacy Paranoia

→ Different countries, different culture

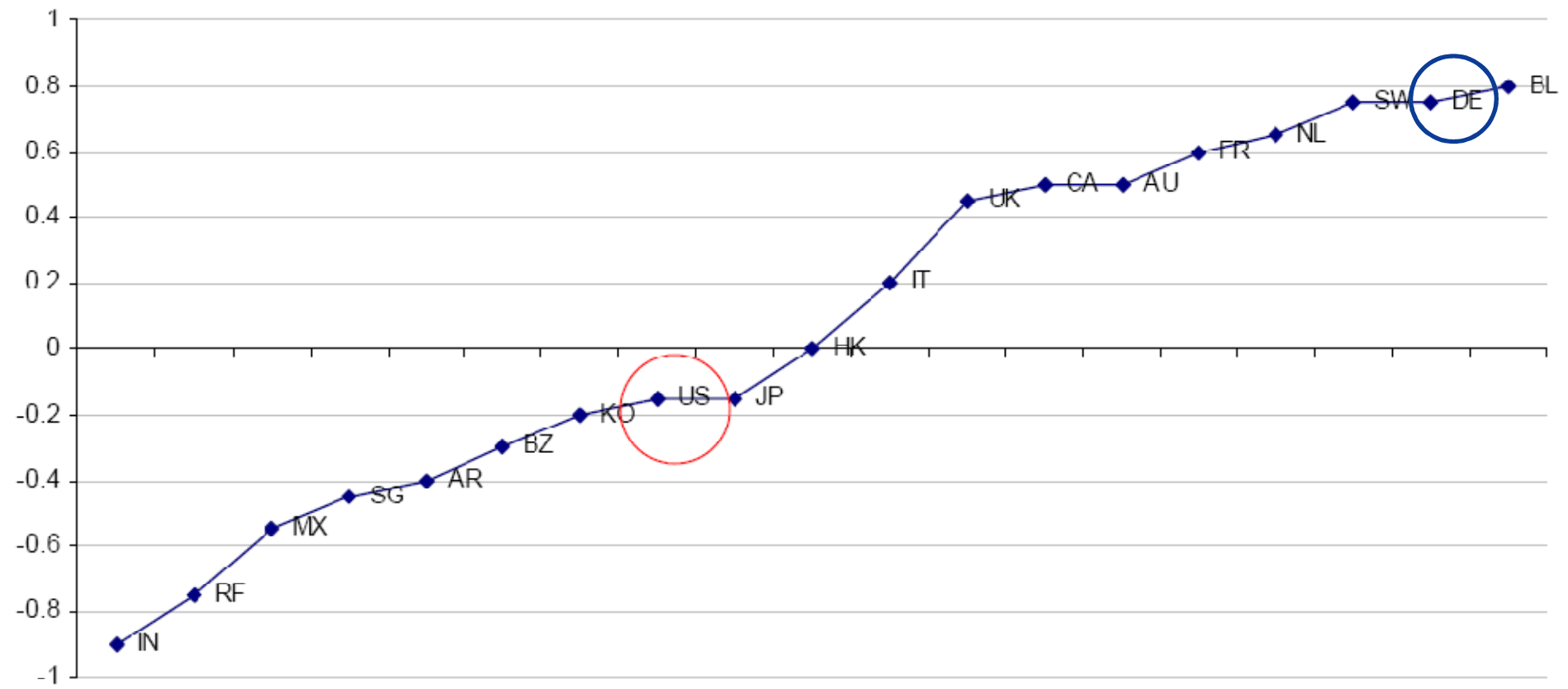


Cloud Security

→ Privacy Paranoia 1/4

Global Privacy Index

By ratio score (Max = +1, Min = -1)



Cloud Security

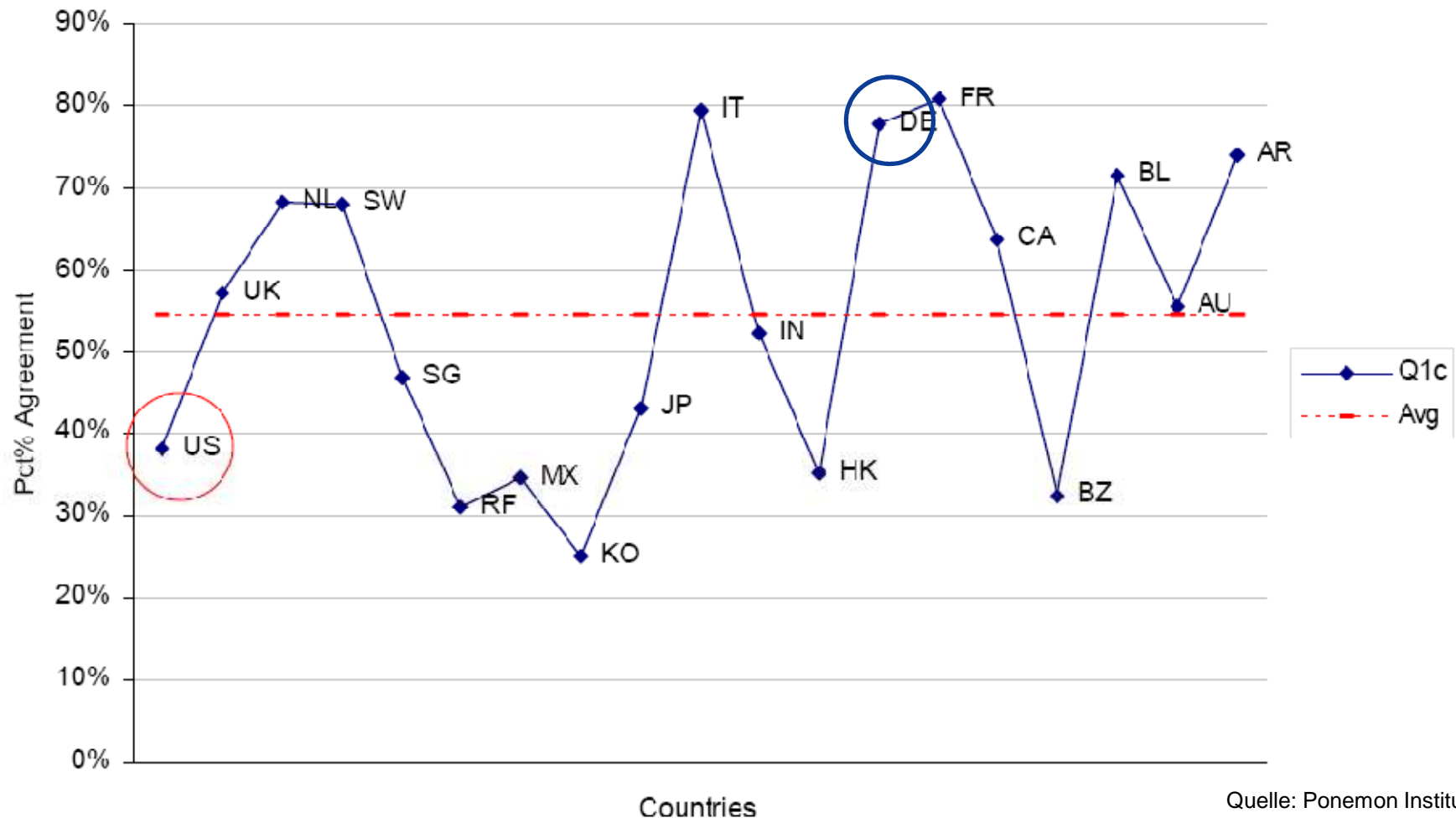
→ Privacy Paranoia 2/4

Country orientations	Lower privacy orientation	Higher privacy orientation
Higher data security orientation	<p>SG, KO, JP, HK</p> <p>US AU</p> <p>UK</p> <p>DE, SW</p> <p>BL, NL CA</p>	
Lower data security orientation	<p>IN</p> <p>RF</p> <p>BZ, AR MX</p>	<p>FR</p> <p>IT</p>

Cloud Security

→ Privacy Paranoia 3/4

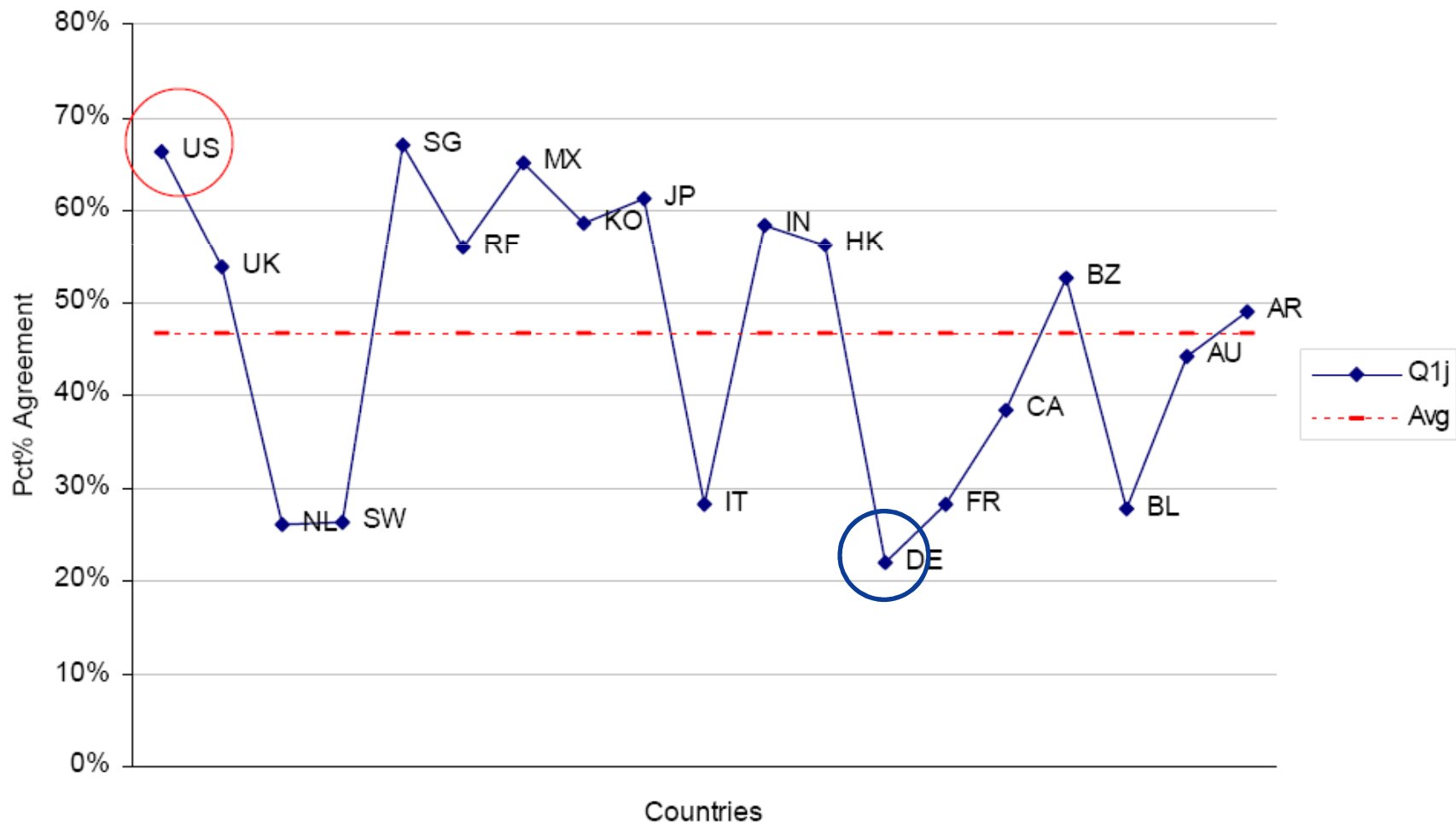
Q1c. Consumers have a right to access and review their personal information collected and used by organizations.



Cloud Security

→ Privacy Paranoia 4/4

Q1j. The information consumers willingly share with business organizations is no longer owned by them.



Cloud Computing

→ European perspective





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Thank you for your attention!
Questions?

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