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MAIN SESSION
Security, Privacy and Openness

Panel Opening Points

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Background

• I work with Incident Management, Incident Handling and Incident Response at CERT.br for 10 years

• Work daily with organizations and individuals affected by Internet Security Incidents and Cyber Crime

• Have several projects to use honeypot sensors to understand threats and develop more effective countermeasures
Origin of Threats

• The threats are coming from cyber crime

• They will continue to come from cyber crime

• As more information goes online, the criminals' incentives to perpetrate crimes will increase
Criminals are exploiting

- Software vulnerabilities
- A huge base of unpatched and vulnerable software, specially in developing countries
- People's trust and lack of knowledge
  - people don't understand the technology itself – the technology is too complex for general users
  - then, in turn, it is hard to understand how to reduce the risk online
Countermeasures

• Most countermeasures are being taken without considering privacy concerns
  – some of them not even work
• As a result, valid countermeasures are being questioned and not implemented in name of privacy
• complyance does not equal security
• it is not always necessary to compromise privacy to have security
We are not addressing the root problem

- Software developers are coming unprepared to the market
- Security need to be a key concept in all disciplines
  - need to be integrated in all phases of the software development life cycle
- The same apply to groups that define standards
  - security needs to be addressed from the start
  - but we can't forget that if the implementation is poorly done, it will be vulnerable
Where to Apply Resources

• Education is key, but not only to end users
• If we don't change the way
  – universities teach
  – and software companies develop software
I don't think we will be any better in 20 years

The improvement will not come from the adoption of security tools