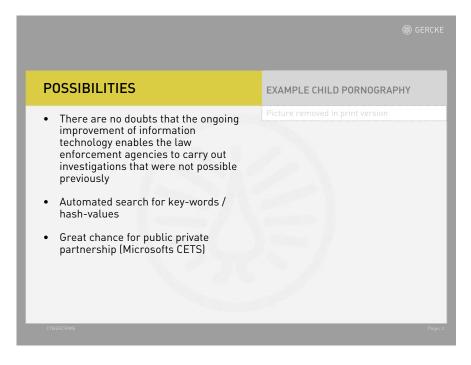
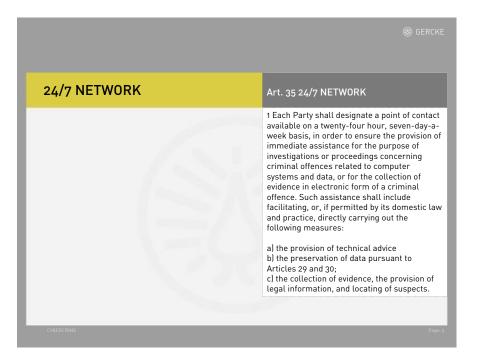


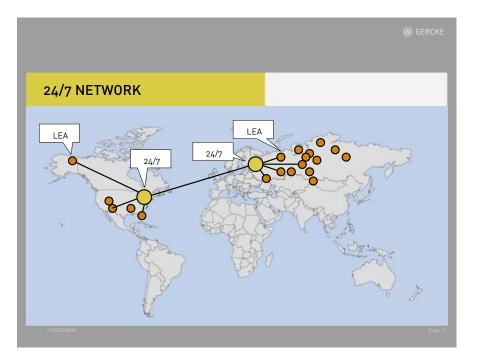
P

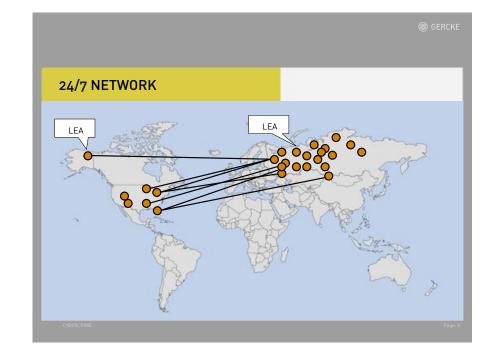
<section-header><section-header><section-header><section-header><section-header><section-header><text><text><text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header>		
Apart from new instruments the ongoing technical development is going along with a number of challenges for law enforcement agencies. Investigations can be more difficult or even impossible if the offender is just using some basic technical means Challenges of fighting Cybercrime go way beyond that		Sercke
Apart from new instruments the ongoing technical development is going along with a number of challenges for law enforcement agencies. Investigations can be more difficult or even impossible if the offender is just using some basic technical means Challenges of fighting Cybercrime go way beyond that	OSSIBILITIES	EXAMPLE CHILD PORNOGRAPHY
	ongoing technical development is going along with a number of challenges for law enforcement agencies. Investigations can be more difficult or even impossible if the offender is just using some basic technical means Challenges of fighting Cybercrime go	Picture removed in print version
	IBERCRIME	Page: 3



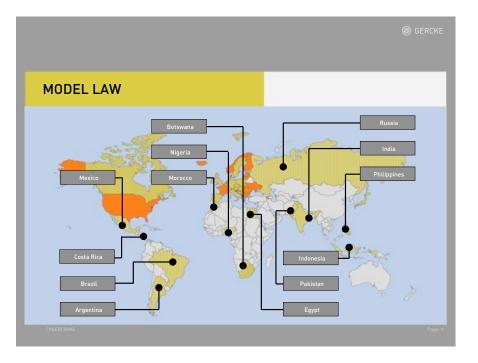
	🛞 GERCKE
INTERNATIONAL DIMENSION	TRACING ROUTE
<ul> <li>Network Protocol contains an automatic search procedure for the fastest connection</li> <li>This leads in an nearly uncontrollable way to international dimensions within data exchange processes</li> </ul>	Picture removed in print version TCP-IP contains of two elements: TCP (Transfer Control Protocol) and IP (Internet Protocol) Real Routes of data exchanges can be traced back using tracing software such as "TraceRoute"



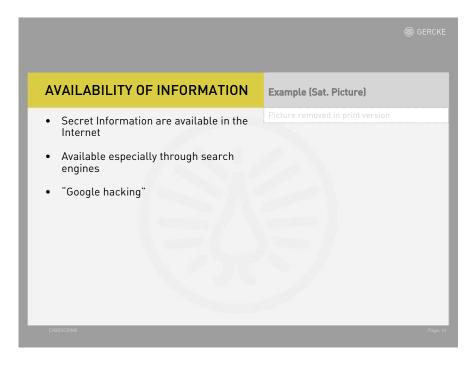




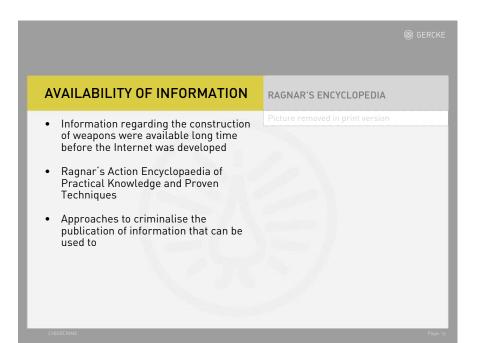




	Bercke
AVAILABILITY OF INFORMATION	Telegraph.co.uk (13.01.2007)
<ul> <li>Services like Google Earth were reported to be used in several attacks:</li> <li>In attacks against British troops in Afghanistan</li> <li>In the planning of attacks against an</li> </ul>	Terrorists attacking British bases in Basra are using aerial footage displayed by the Google Earth internet tool to pinpoint their attacks, say Army intelligence sources.Documents seized during raids on the homes of insurgents last week uncovered print-outs from photographs taken from Google.
<ul> <li>airport in the US</li> <li>In attacks against British troops in Iraq</li> </ul>	Guardian (25.10.2007)
• In attacks against Israel	Palestinian militants are using Google Earth to help plan their attacks on the Israeli military and other targets, the Guardian has learned. Members of the al-Aqsa Martyrs Brigade, a group aligned with the Fatah political party, say they use the popular internet mapping tool to help determine their targets for rocket strikes.



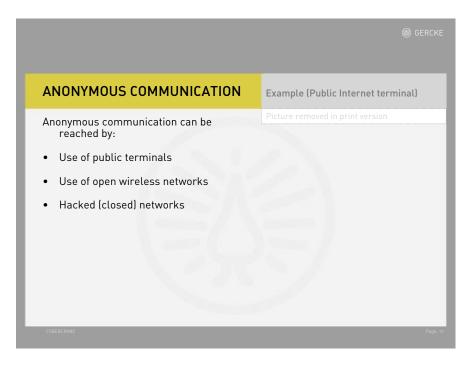
AVAILABILITY OF INFORMATION	TERRORIST HANDBOOK
Robots used by Search-engines can lead the disclose of secret information	Picture removed in print version
• Handbooks on how to build explosives and construct chemical and even nuclear devices are available	
<ul> <li>Internet sources have been used by the offenders in a number of recent attacks</li> </ul>	
	MUJAHIDIN MAGAZINE
	Picture removed in print version



	GERCKE
SOLUTION	
30201101	EU FRAMEWORK. TERRORISM
<ul> <li>EU approach to criminalise the publication of certain information</li> </ul>	Picture removed in print version
Regional approach	
• Difficult with regard to the international dimension of the network	
<ul> <li>Regional approach would require filtering</li> </ul>	
<ul> <li>Potential conflict with "Freedom of Speech" principle</li> </ul>	
Cybercrime Committee would be the right venue to discuss this issue	
CYBERCRIME	Page: 15

		GERCKE
AVAILABILITY OF INFORMATION	Example (http:wslabi.com)	_
<ul> <li>Information about system vulnerabilities are published on websites</li> </ul>		
<ul> <li>In addition these information are offered for sale by some businesses</li> </ul>		
<ul> <li>Information can be used to increase security as well as to commit computer- related offences</li> </ul>		
CYBERCRIME		Page: 14

	GERCKE
ANONYMOUS COMMUNICATION	Anonymizer (www.anonymizer.com)
"Felt Anonymity"	
<ul> <li>Key motivation especially with regard to crimes connected pornography</li> </ul>	
<ul> <li>Technology available that can hinder law enforcement to trace back the route of an offender (eg. www.anon.de)</li> </ul>	
<ul> <li>Benefit of Anonymous Communication vs. Effective Law Enforcement</li> </ul>	Similar problem with regard to the use of encryption software. Benefits for the Society vs. Effective Law Enforcement
<ul> <li>Possibility to pretend to be some else (Remote Software)</li> </ul>	
CYBERCRIME	Page

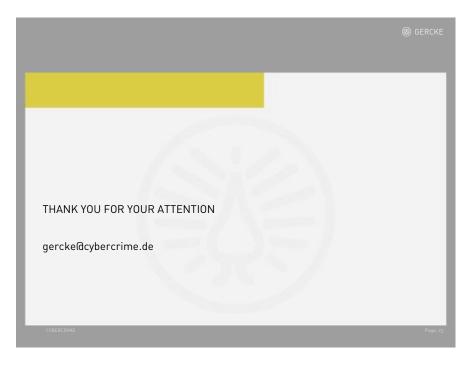


BREAKING A KEY	How long it takes to break a key
<ul> <li>Brute Force Attack: Method of defeating a cryptographic scheme by trying a large number of possibilities; for example, exhaustively working through all possible keys n order to decrypt a message</li> </ul>	Picture removed in print version
Gaps in the encryption software	
Dictionary-based attack	
Social Engineering	
Classic search for hints	
Need for legislative approaches?	

ENCRYPTION	PGP
<ul> <li>Encryption is the process of obscuring information to make it unreadable without special knowledge</li> </ul>	Picture removed in print version
Encryption can be used to ensure secrecy	
• Encryption can be used to hide the fact that encrypted messages are exchanged	
• Encryption used by criminals can lead to difficulties collecting the necessary evidence	

		GERCKE
GLOBAL PHENOMENON	MICROSOFT BITLOCKER	
<ul> <li>Availability of encryption technology is a global challenge</li> </ul>	Picture removed in print version	
<ul> <li>Powerful software tool that enable are available on a large scale in the Internet</li> </ul>		
<ul> <li>Some of the latest versions of operating systems contain encryption technology</li> </ul>		
CYBERCRIME		Page: 20

## SOLUTION MAGIC LANTERN Picture removed in print version Magic Lantern (US) Remote Forensic Software (Germany) Legal solution Various restrictions on import/export and use of encryption technology UK: Obligation to disclose password (Sec. 49 of the UK Investigatory Powers Act 2000)



		GERCKE
STEGANOGRAPHY	Steganography	
<ul> <li>Steganography is a technique used to hide information in some other information</li> </ul>		
<ul> <li>Example: Hiding a message in picture</li> </ul>		
<ul> <li>Technique can be used to keep the fact that the exchange of encrypted messages is taking place secret</li> </ul>		
CYBERCRIME		Page: 22