24: Terror, Justice and Freedom
Ross Anderson’s book
“Security Engineering”
Marwan Bushara
“Modern terrorism works largely by provoking overreaction”

Osama bin Laden
Today’s Lecture

TERRORISM
SURVEILLANCE
CENSORSHIP
FORENSICS
DATA PROTECTION
Terrorism
Issues we Face Fighting Terrorism

- The west is vulnerable
- Economic questions (TSA)
- Technical security arguments
- Public policy
History of Modern Terrorism

- Guy Fawkes (1605)
- Irish Republican Army (IRA) and Margaret Thatcher (1984)
- Cold War:
  - Russia supported: IRA, Baader Meinhof Gang
  - The West supported: French Partisans, Jihadists fighting Soviets in Afghanistan
Causes of Political Violence

- Study by Paul Collier and Anke Hoeffler for the World Bank
  - Grievances play little role
  - Most conflicts are economical
- Examples: IRA, Sierra Leone, Al-Qaida
The Psychology of Political Violence

- People rely on emotions
  - Calculations of probability tend to be disregarded
- Psychology of Terror study by Tom Pyszczynski, Sheldon Solomon and Jeff Greengberg
- Religion and national pride
- Bipartisan approach
  - Example: George Bush

Terrorism
Surveillance
Censorship
Forensics
Data Protection
Likud’s Campaigns

2015 elections

2019 April elections

2019 September elections
The Democratic Response

- Terror has less effect over time
- Example: Suicide bombers (London-2005), IRA, ISIS.

‘Bad luck if you were there, but life goes on’
Surveillance

Side effects of 9/11, increase in technical surveillance and data mining by government agencies
History of Government Wiretapping

- Telegraph services
- Invention of phones
- Olmstead vs. United States (1928)
- CAELA (1994): Communications Assistance for Law Enforcement Act
- Even before 9/11:
  - Phone company collusion
  - Intelligence collusion
  - Subpoena
- Patriot Act
- Democracies vs. Non-democracies
Traffic Analysis

- Toll records
- Postage stamps
- Telegraph
- Subpoena vs. warrants
Unlawful Surveillance

- 2006: NSA, AT&T and Verizon
- NSA’s goal

“To create a database of every call ever made within the nation’s borders”
Data Mining

- ‘data matching’
  - Example: Baader Meinhof terrorist group (1970s)
- Terrorist are rare
- Read E-mails
Communications Intelligence on Foreign Targets

- Mostly used for foreign targets
- NSA: National Security Agency
- GCHQ: Britain’s Government Communications Headquarters
- Perry Fellwock

‘Information gathering by NSA is complete’

‘It covers what foreign governments are doing, planning to do, have done in the past’
Export Control

- EU’s ‘dual-use goods’
  - In practice in 1990s
- Advantage to non-U.S. companies
- 1997: Al Gore and Tony Blair
  - Positions reversed
Censorship
Censorship

- China
  - Websites, E-mails...
- France, Germany and Israel
  - Nazi memorabilia
- Child pornography
Censorship (Cont.)

Internet made censorship:
- Easy: monitoring, order changes..
- Hard: everyone can be a publisher
Forensics

Scientific techniques used to detect crimes
Forensics

- Police raids; Terabytes of data
- Using raided data:
  - Lawfully collected
  - Chain of custody
- Turning PCs off
  - Rockphish Gang
  - Windows Vista and UK’s response
- Time
Data Protection
European Data Protection

- Businesses (1950s) and Banks (1960s)
  - Privacy threat
- Becoming a human rights issue
  - German state of Hesse (1969)
- 1981: Council of Europe convention
  - Different laws became ‘barriers to trade’ by 1990s
  - Businesses moved to USA
- 1995: Data Protection Directive
  - 2016: GDPR: General Data Protection Regulation
USA vs. Europe

- ‘self regulation’ and application specific
- Americans felt they ‘lost control” over privacy
- Passed laws
- Fundamental human rights
  - Germany’s constitution
Chaos in Europe

- European countries are drifting in two ways
  - UK and new European countries drifted towards USA
  - Western countries became more protective
- Germany: privacy is more important than ‘war on terror’
  - Example (2001)
Summary

- Is terrorism a good excuse for not having privacy?
- Will we ever have privacy again?
- Can we stop terrorism?
- What about Freedom of Information?
Questions