

# Economics of Cyber Security

TPM020A

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# Aims

- Provide an introduction to the economics behind cybersecurity
  - Economic concepts
  - Measurement approaches for better decisions
  - How different forces shape the security decisions of businesses, products and services
- This will broaden the view of cybersecurity and security failures
  - Failures are caused not only by bad technical design ...
  - But as often by bad business decisions and incentive systems
- Examples
  - How can commercial websites secure customer access while not driving customers to competitor sites?
  - Who should be acting to reduce malware on smart devices?

# Content

- Introduction to economics
- Measuring cybersecurity
- Security investment and management
- Market failures and policy options
- Human/behavioural economics

# Format

- Period: Q1, access via TU Delft Brightspace
- Structured lectures (video clips), background reading, group discussions, and regular non-graded quizzes
- Group report and presentation on assigned reading material (20%); the final assignment is an essay (80%)