

# **Information security awareness: transfer from workplace to a home environment**

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# Acquaintance

- M.Sc. Computer Science
- Doctoral student
- IS Security Manager
- Past
  - Operational Risk Manager
  - IS Auditor, CISA
  - Business Continuity Project Leader

# Agenda

- Information Security Awareness
- Case studies
- Responsibility for information security awareness raising
- Discussion

# Information Security Awareness

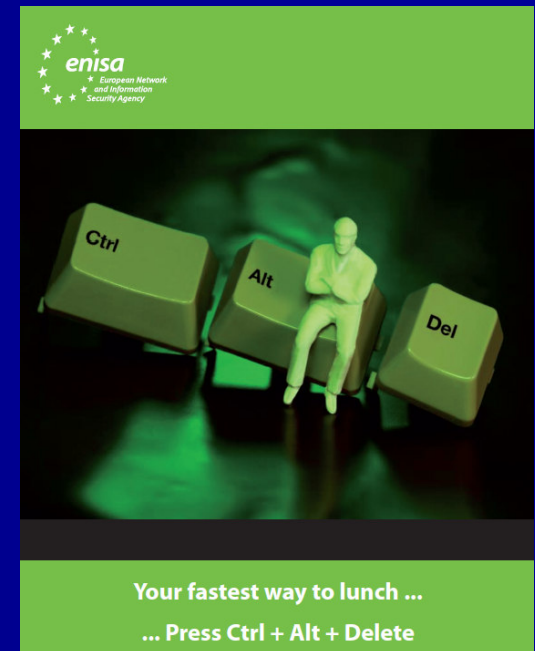
- Degree to which every person
  - understands the importance of information security
  - understands individual security responsibilities
  - acts accordingly

# Good Practice Overview I

- Management Commitment
- Posters
- Videoclips

A password is like a toothbrush:  
Choose a good one, change it regularly,  
and don't share it with friends.

**Think security:  
Amateurs hack systems,  
professionals hack people.**



# Good Practice Overview II

- Seminars
- Online tools
- Games

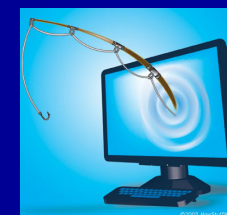
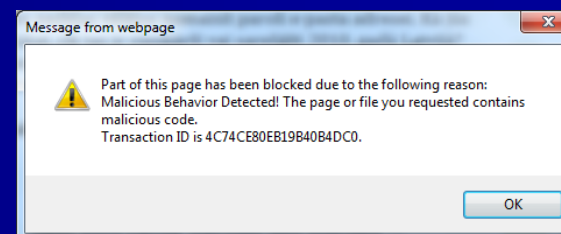
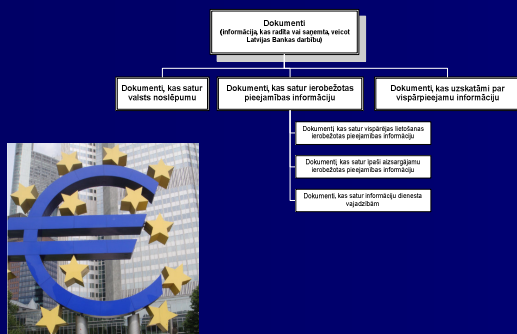


# Case Study – Central Bank

- Information systems security awareness activities since 1998
- Comprehensive seminars/discussions organised by IS Security Manager since 2001
- Every employee is responsible for all activities done with his/her username/password (smartcard)
- Head of department is responsible for security awareness culture
- Partly anonymous security practice tests

Inf@drošīb@

# Awareness Messages





# Support for Employees

- Care about home information security increases corporate security
- IT support staff helps
  - select and maintain antivirus software
  - configure WiFi routers
  - Win7 BitLocker
  - ...

# Responsibilities

- ISF Standard of Good Practice for Information Security
  - Top management's direction on information security should be established, and commitment demonstrated to ensure an appropriate set of security controls is implemented
- ISO 27002:2005
  - Management should require employees to apply security in accordance with established policies and procedures of the organization. Management responsibilities should include ensuring that employees, contractors and third party users achieve a level of awareness on security relevant to their roles and responsibilities within the organization

# Activities

- ISF Standard of Good Practice for Information Security
  - Specific activities should be undertaken, such as a security awareness programme, to promote security awareness to all individuals who have access to the information and systems of the organisation. Individuals should be made aware of the key elements of information security and why it is needed, and understand their personal information security responsibilities
- ISO 27002:2005
  - All employees of the organization should receive appropriate awareness training and regular updates in organizational policies and procedures, as relevant for their job function

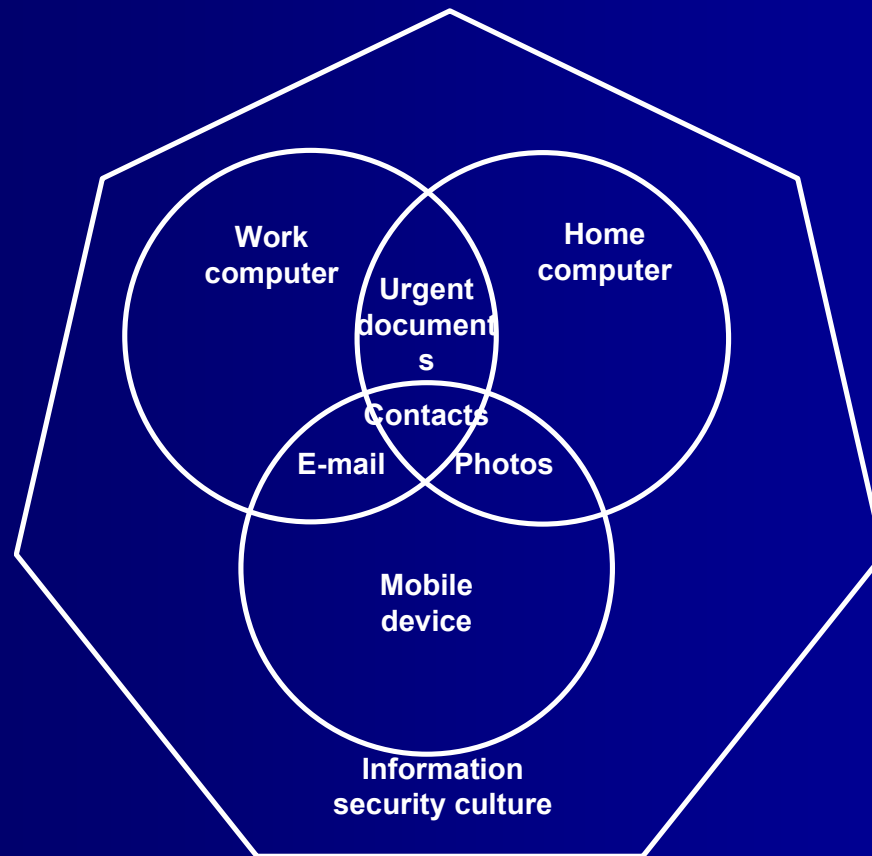
# Conversation

- Does your organization organize information security awareness raising activities?
  - Yes/No
  - How often?
    - Occasionally
    - Every year
- Does your organization evaluate security awareness level?
  - Yes/No
  - How?
    - "exam"
    - overall level evaluation
    - analysis of incidents

# Hypothesis

- Knowledgeable employee ->  
knowledgeable everyone ->  
knowledgeable society

# Electronic environment



# Creating a Culture of Security

- A culture of security is a pattern of
  - behaviors,
  - beliefs,
  - assumptions,
  - attitudes and
  - ways of doing things that promotes security.
- by Steven J. Ross, ISACA

# Thank you!

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