# Information security
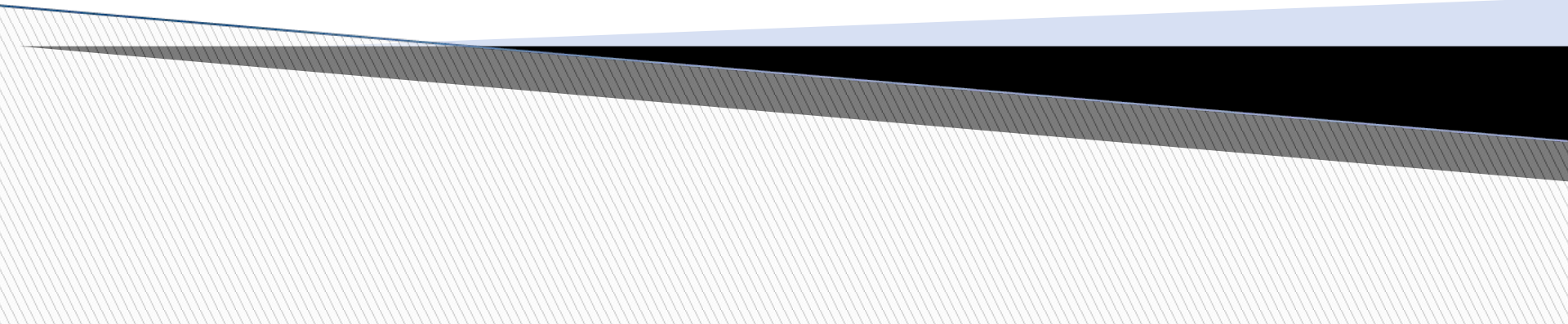
# Information

- **Information** is a sequence of symbols that can be interpreted as a message.
- **Information** is data, regardless of their form of presentation.

# What information to protect?

# What information to protect?

- **Personal data** means any data relating directly or indirectly to a living individual

- **Example:** name + address, date, telephone number, etc

# Types of threats (угроз):

- 1) b                                          y
- 2) b
- 3) b
- 4) b
- 5) b

breach of property rights

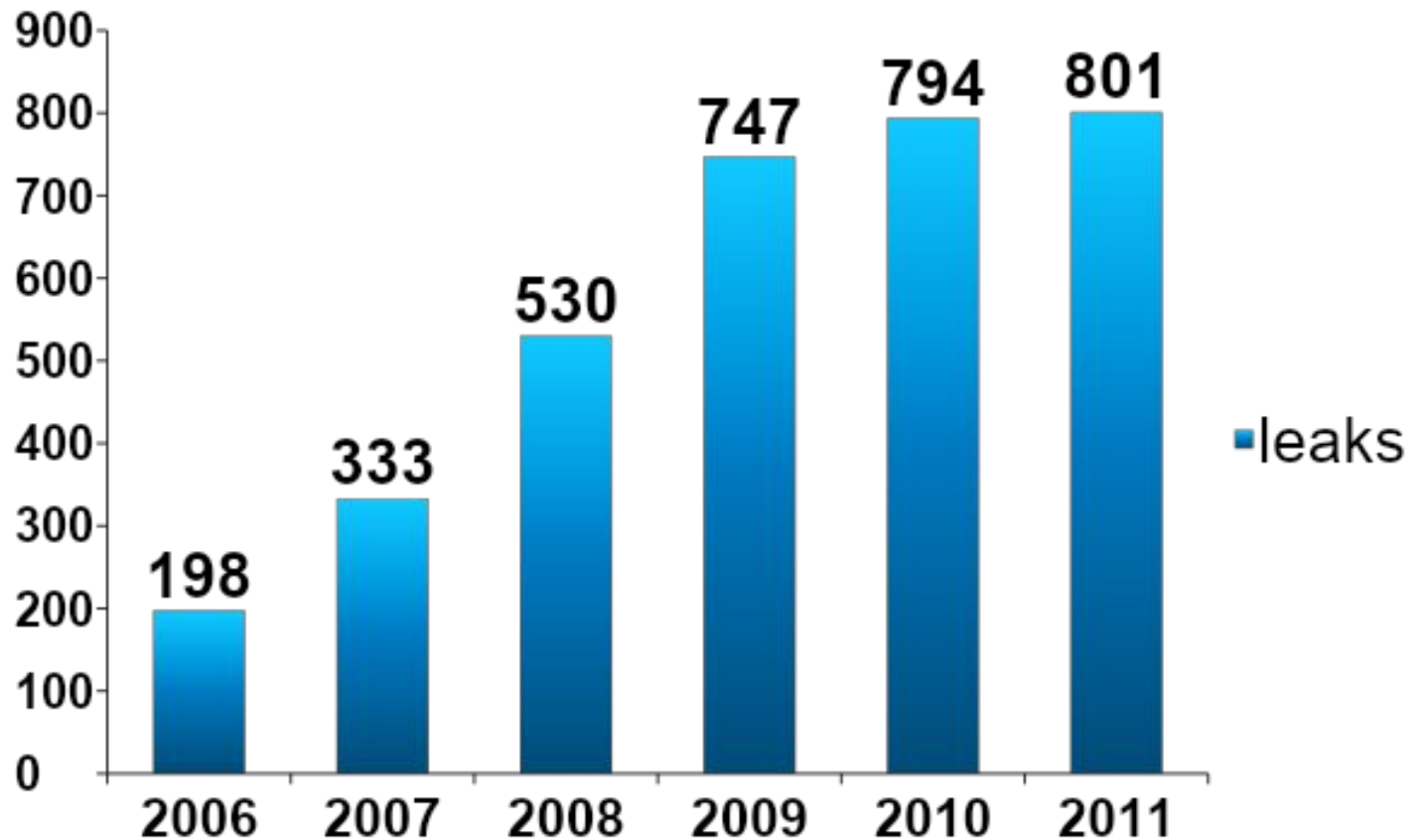# How do we handle (обрабатываем) electronic information?

# How information leaks?

- Information leakage (утечка) happens whenever a system that is designed to be closed to an eavesdropper (перехватчик) reveals some information to unauthorized parties.
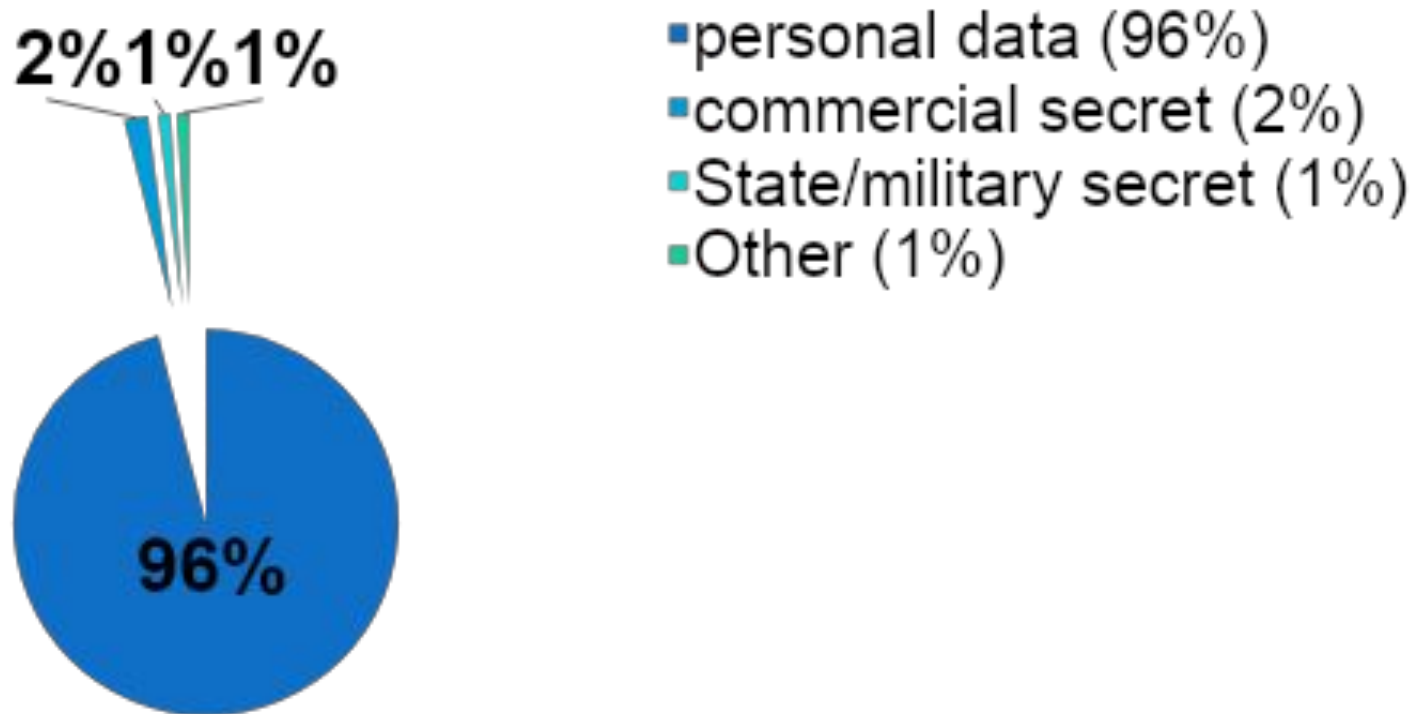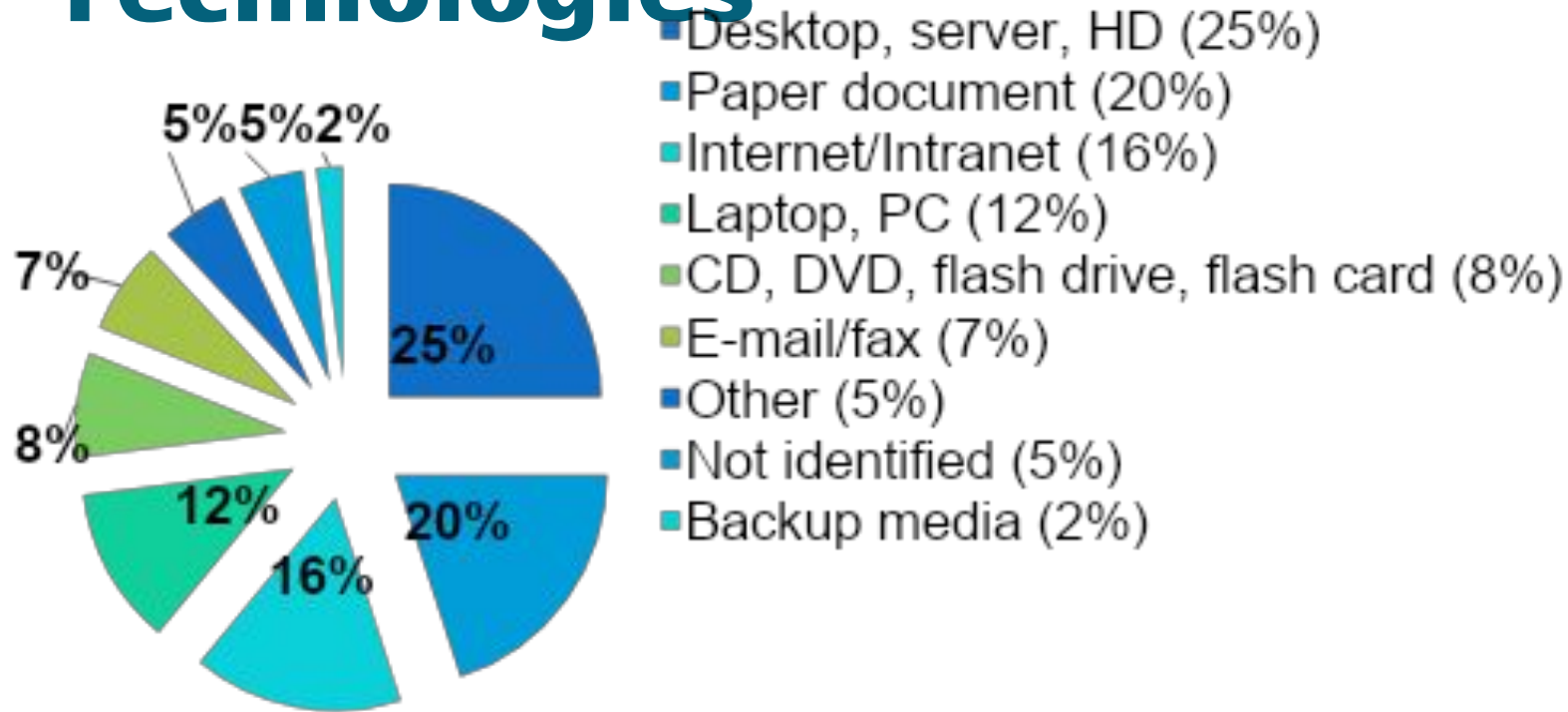
# Leakage growth dynamics



*Statistics by INFOWATCH*

# What data leaks most?

2%1%1%

96%

- personal data (96%)
- commercial secret (2%)
- State/military secret (1%)
- Other (1%)

*Statistics by INFOWATCH*

# Leak Channels and Technologies



- Desktop, server, HD (25%)
- Paper document (20%)
- Internet/Intranet (16%)
- Laptop, PC (12%)
- CD, DVD, flash drive, flash card (8%)
- E-mail/fax (7%)
- Other (5%)
- Not identified (5%)
- Backup media (2%)

*Statistics by INFOWATCH*

# Tips in preventing (предотвращение) information leakage

- **You**
  1. A
  2. S **ь)**
     a) om
     b)
     c)

Strong passwords:

xQRj2YJ7IXE(5Ws
2%4U1)gNl6x-N%D
2Fc"6&|#^,776^/

# Tips in preventing information leakage

# **Conclusions**

- Nowadays information is very important. The main aim of researches is **information security and how to prevent information leakage.**

# Thanks for watching !!!