



European Commission



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Scientific Opinion on

# Cybersecurity

## Issue

The internet and world wide web have revolutionised our social and economic lives

**But online transactions, and out trust in them, are threatened by cybercrime**



88% of daily users were **worried about being a victim of cyber-attack**

according to Eurobarometer 2018

Cybersecurity describes the actions and safeguards that protect us, our information and infrastructure from these threats.

## Main challenge

We need to **enhance cybersecurity** so people and business can benefit from the online market

## Recommendations



Make systems more secure, using the latest cryptographic standards and avoiding backdoors



Establish “duty of care” to anticipate and prevent risks for users



Empower users to have control over their personal data shared on the internet



Strengthen the European cybersecurity industry



Improve coordination and sharing across Europe of cyber-incidents

## Impact

These recommendations were used in:

- the review of the EU cybersecurity strategy,
- the Regulation on the European Union Agency for cybersecurity,
- the EU cybersecurity certification framework,
- proposal for the establishment of the European Cybersecurity Competence Center.

This is a summary of a scientific opinion by **Group of Chief Scientific Advisors**

Independent expert group providing high-quality and timely scientific advice to the European Commission, to inform European Union policies and legislation, and informed by [SAPEA evidence review reports](#).

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