Bundesamt
für Sicherheit in der
Informationstechnik

National Cyber Security Strategy 2016

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Mission Statement of the German Federal Office for Information Security (BSI)

The BSI as the national cyber security authority shapes information security in digitisation

through

prevention, detection and reaction

for

government, business and society !

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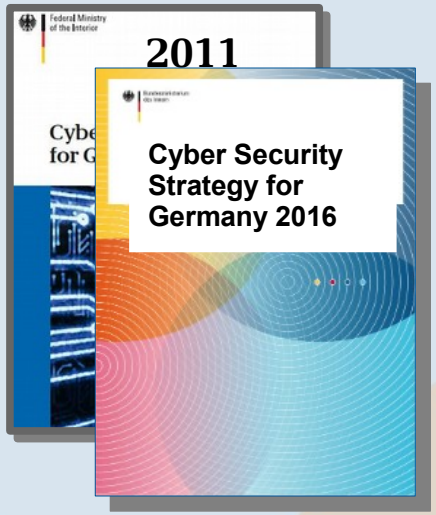
Policy Framework



Digitale Agenda 2014 – 2017

Federal Ministry for Economic Affairs & Energy

Information Security

Federal Office for Information Security
BSI

Federal Ministry of the Interior

National e-Government Strategy (2010)

Federal Ministry of Transport & Digital Infrastructure

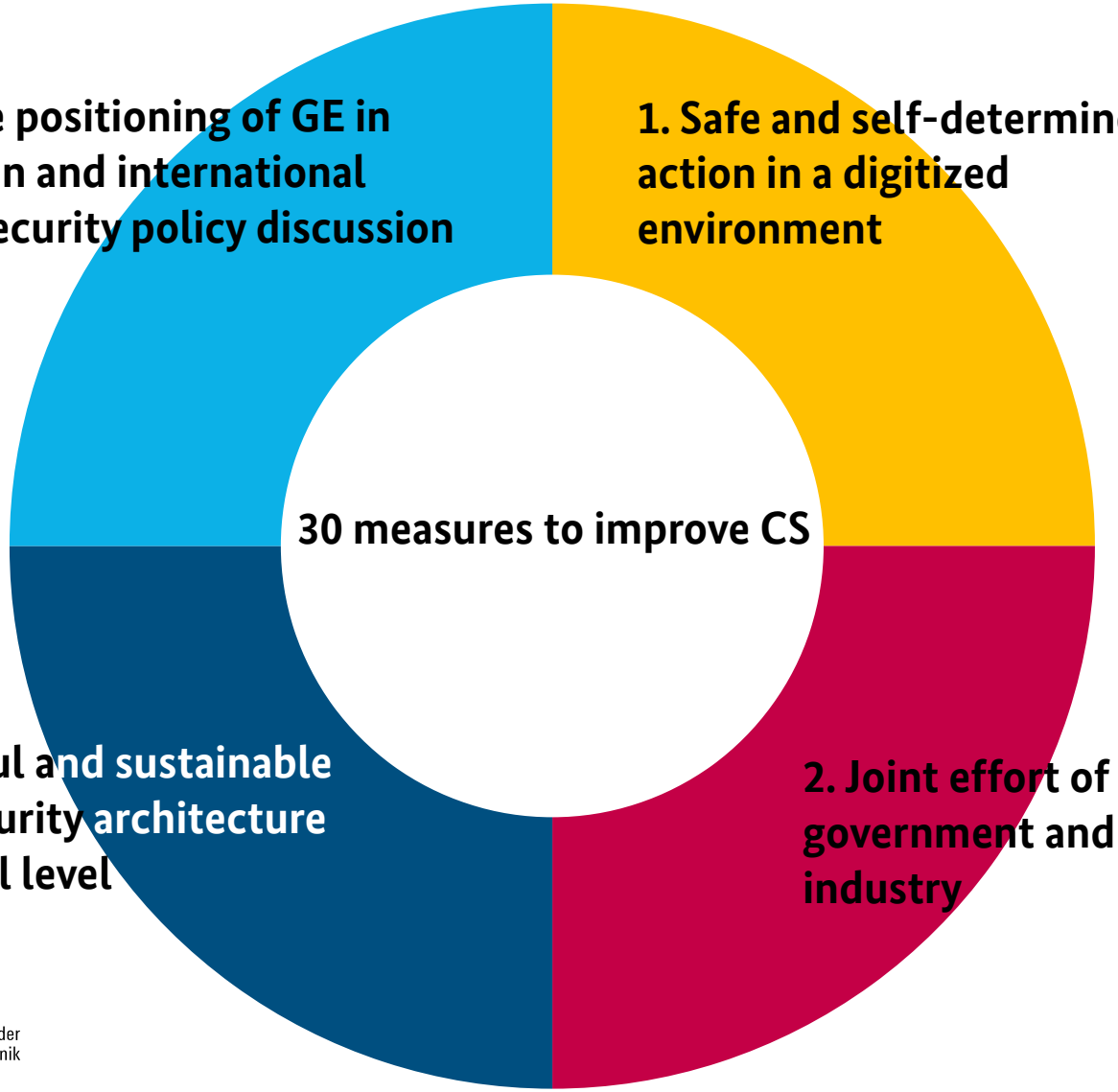
German CSS 2016 – Guiding principles (1/2)

- **The ability to act and sovereignty of Germany needs to be maintained in the age of digitisation.**
- **Future-oriented cyber security policy enables**
  - **to use the potentials and chances of digitisation being in the public interest,**
  - **to control the interrelated risks.**

German CSS 2016 – Guiding principles (2/2)

- **Strategic framework for all activities of the Federal Government w.r.t. cyber secruity**
- **Collaboration between state, economy, science and society**
- **Collaboration between Bund-Länder**
- **Close European and international coordination of policies/measures due to cross-border effects and interdependencies**

German CSS 2016 - Fields of Actions



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Action field 1: Safe and self-determined action in a digitized environment

a) Promoting digital literacy among all users, awareness raising

b) Creating conditions for secure electronic communication and web services

c) Secure e-Idendities

d) Strengthening certification and approval – introduction of an IT security „quality label“

e) Make the digitization process secure

f) Promoting IT security research

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Action field 2: Joint effort of government and economy

a) Securing Critical Infrastructures (IT security law, est. 2015)

b) Protecting businesses in Germany

c) Strengthening the domestic IT security industry

d) Cooperating with providers

e) Involving IT security service providers

f) Creating a platform for trustful information exchange

Action field 3: Powerful and sustainable CS architecture at national level

a) Further development of the National Cyber Response Centre

b) Strengthening of on-site analysis and response capacities

c) Increasing law enforcement in cyber space

d) Effectively fighting cyber espionage and cyber sabotage

e) Early warning system against cyber attacks from abroad

f) Foundation of the central office for IT (ZITiS)

g) Strengthening the defence dimension of cyber security

h) Strengthening the CERT structures in Germany

i) Protecting the Federal Administration

j) Close cooperation between federal and state level (Bund-Länder)

k) Making use of resources, HR: recruitment & development

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In progress (1/2): Foundation of a central office for IT (ZITiS)

- **Encryption is a central issue of our time („The Crypto Debate“) → relevant in terrorist cases, criminal offences and prosecution**
- **New government organisation**
- **During 2017 it will be est. around Munich → up to 400 staff**
- **Central service provider to security agencies, without operational mandate**
- **Tasks**
  - **Digital forensics**
  - **Telecommunication surveillance**
  - **Crypto analysis**
  - **Big data analysis and fight against crimes, counter espionage**
  - **R&D of methods, products, tools and strategies for security agencies**

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In progress (2/2): Creation of MIRTs at BSI

- **Inspired by hack on the German Bundestag → to create capacities to quickly respond to ongoing threats with clear provisions/responsibilities → on demand/mandatory**
- **MIRT – Mobile incident response teams**
- **Capacities for reaction and analysis on request (federal institutions but also critical infrastructures, if pub. interest)**
- **Up to 67 staff**
- **Coordinated by National Cyber Response Center**
- **„Cyber-Feuerwehr“ → involve industry actors as pendants**
- **QRF + MCT at Federal Criminal Police and domestic intelligence service**

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Action field 4: Active positioning of Germany in European and international CS policy discussion

a) Actively shaping an effective European CS policy

b) Enhancing the NATO Cyber Defence Policy

c) Playing an active part in shaping CS internationally

d) Bilateral and regional support & cooperation for cyber capacity building

e) Strenghtening international law enforcement

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Highlights & impacts on BSI

- **National Cyber Response Center will be further developed to play a role in cyber crises situations**
- **More active role for the national Cyber Security Council**
- **Implementation of MIRTs – Mobile Incident Response Teams (MIRTs)**
  - **To be more supportive to government, but also operators of essential services**
  - **More „powers“ and competences to BSI**
- **Creation of an IT Security Label – make IT security more transparent to the user**
- **Use of cryptotechniques should be supported**
- **Detection: sensor systems for detecting anomalies in provider networks**
- **Defense: Cooperation platform for state and economy**

Thank you !
Questions ?

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