

Consumer IoT Security

Examples from abroad collected during IGF 2018

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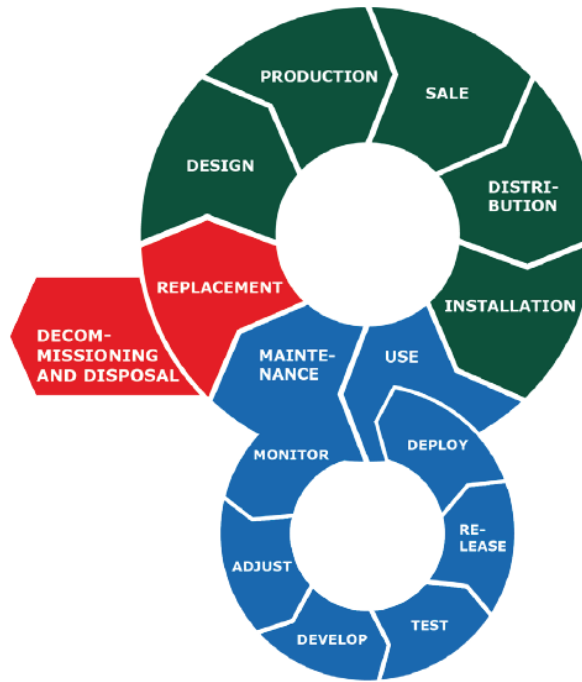
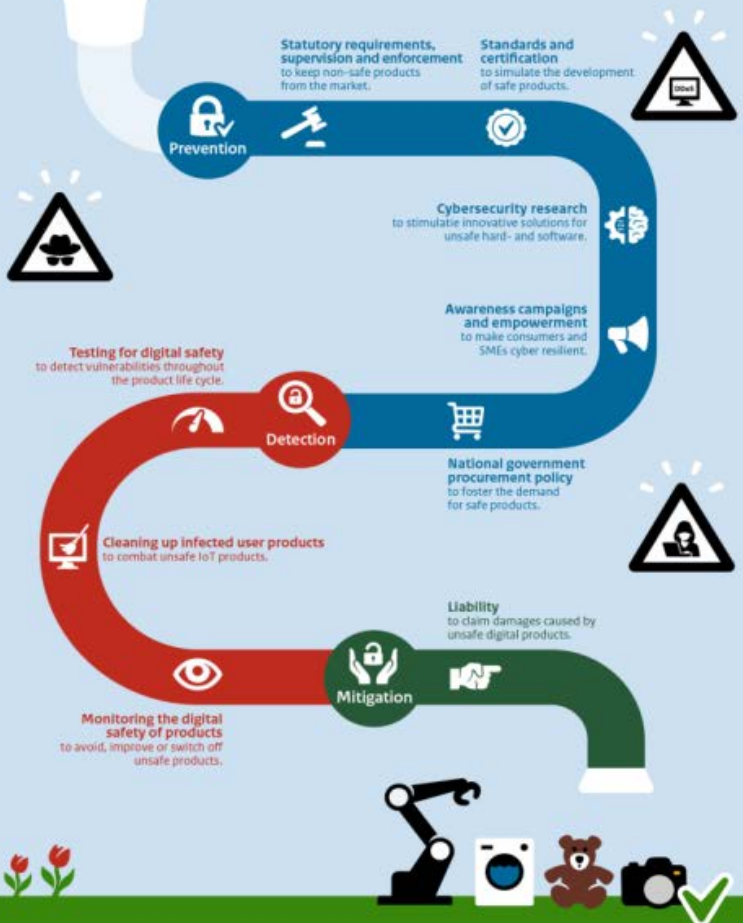
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Roadmap Digital Hard- and Software Security

1. Product life-cycle approach
2. Joint responsibility
3. Balancing public values
4. Portfolio approach
5. Options for a complementary / differentiated approach

Ever more devices are digitally connected to each other and with the Internet. This so-called "Internet of Things" (IoT) makes our lives easier and more fun. But it also leads to new forms of insecurity, precisely because the digital and the 'real' world become intertwined. Vulnerabilities can have major consequences for you and for society as a whole. The measures of this Roadmap provide citizens, businesses and government with a good point of departure to work towards digitally safe products.



Product life cycle approach



Joint responsibility



Balancing public interest



Portfolio approach

Dutch Roadmap Digital Hardware and Software Security:

a complementary approach



Standards and certification



Monitoring digital security



Cleaning up infected products



Testing digital security



Cybersecurity research



Liability



Statutory requirements, supervision and enforcement



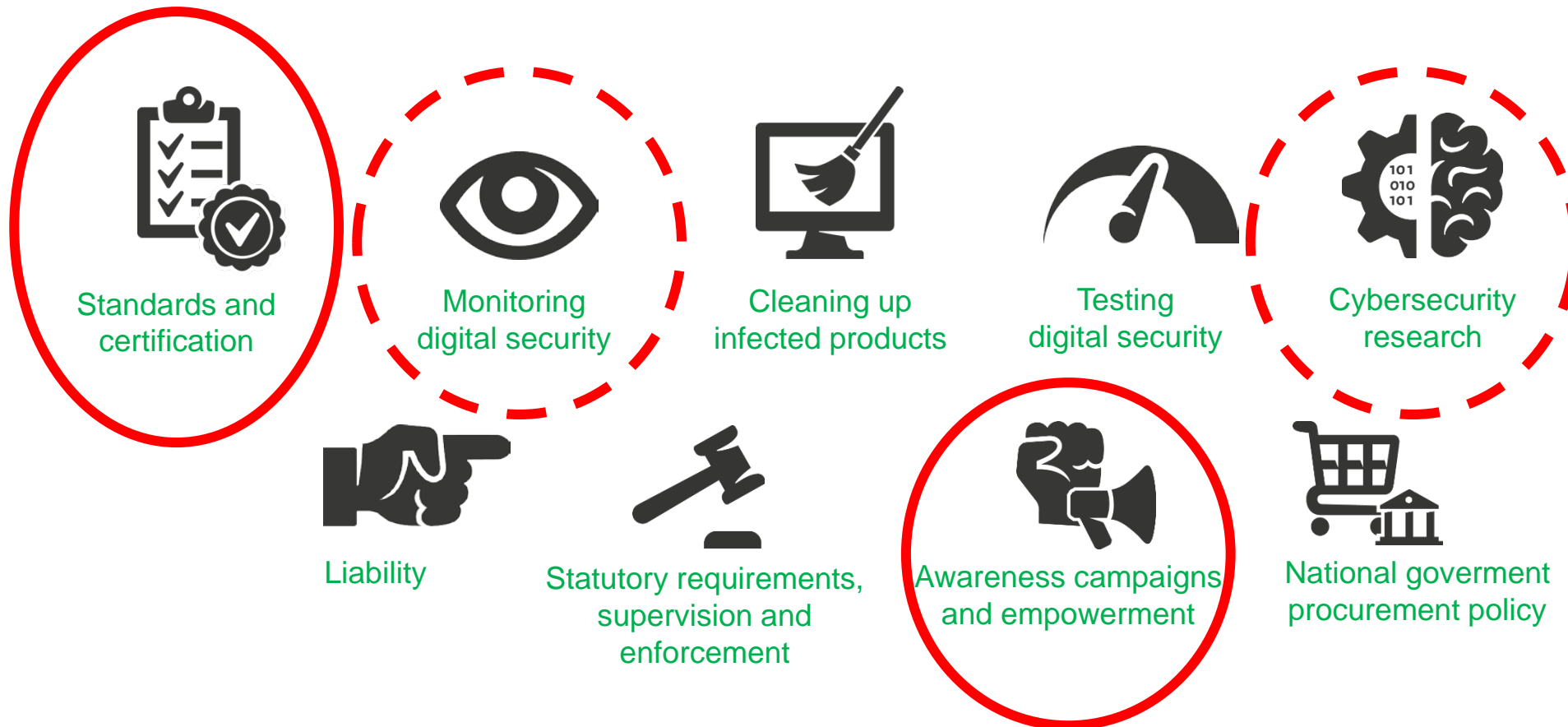
Awareness campaigns and empowerment



National government procurement policy

Dutch Roadmap Digital Hardware and Software Security:

a complementary approach



* in red circles: covered by the Canadian project

UK Government approach

2017 -2018: Cooperation with industry, academia, consumer associations and international partners

March 2018: Policy report

October 2018: Code of Practice for Consumer IoT Security

Mapping of the Code to existing recommendations

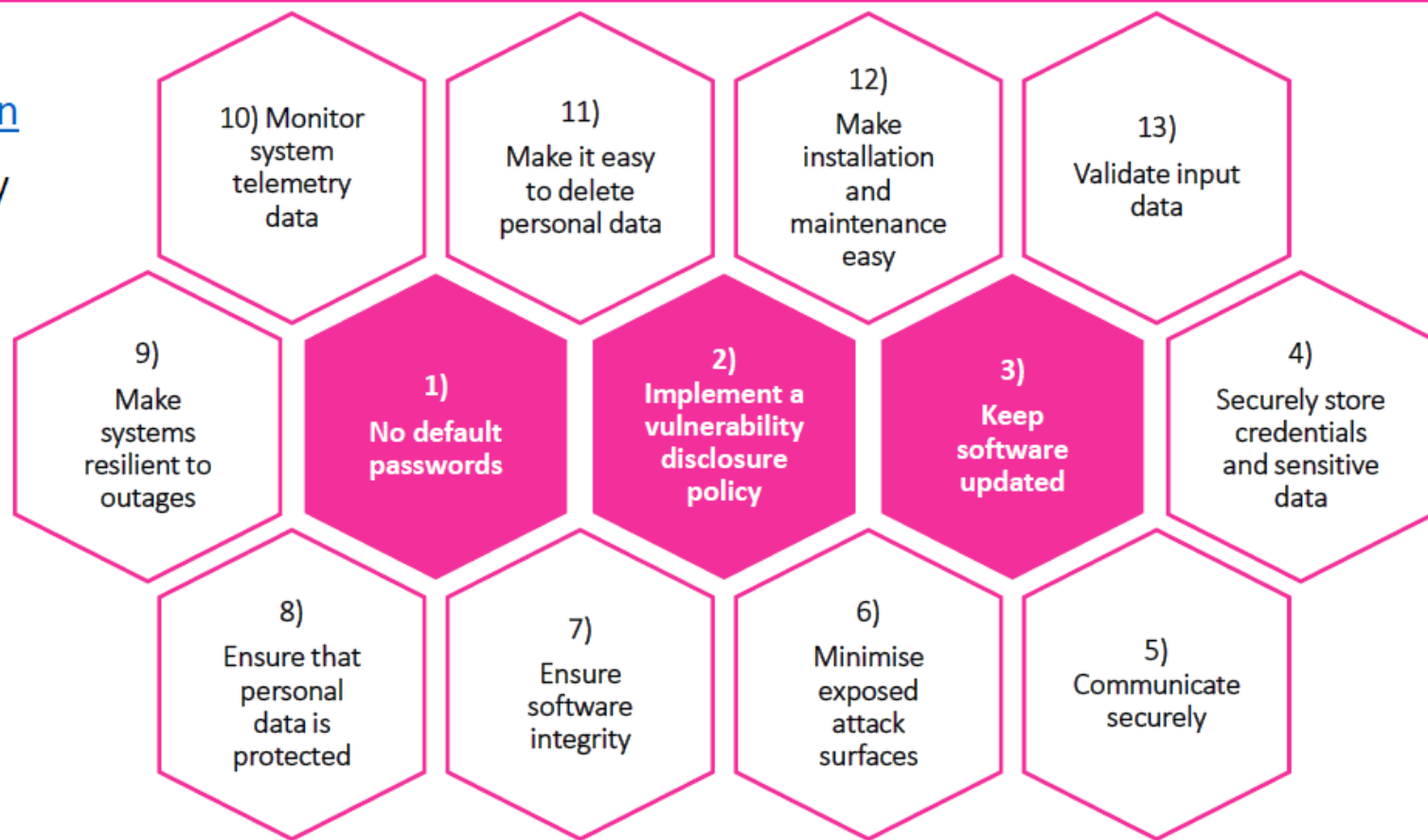
<https://iotsecuritymapping.uk>

Consumer guidance

<https://www.gov.uk/government/publications/secure-by-design>

Code of Practice for Consumer IoT Security

- Published in October 2018 in 8 languages:
[gov.uk/government/publications/secure-by-design](https://www.gov.uk/government/publications/secure-by-design)
- To help manufacturers protect consumers' privacy and online security.
- Brings together what is widely considered good practice in 13 high-level guidelines.
- Focuses on what matters most.
- Mapped against existing standards and recommendations from 50+ organisations:
[iotsecuritymapping.uk](https://www.iotsecuritymapping.uk).



Considerations

- What can we learn from the Dutch approach?
 - Adding some of the Dutch complementary measures to the Canadian mix?
 - Liability (stick behind the door);
 - Government procurement (backing up development of standards);
 - Reviewing legislation (statutory requirements supervision and enforcement);
 - Cleaning up infected products (joint LEA – industry action?);
- What can we learn from the British approach?
 - Working towards a Code of Practice for industry?
 - Adopting the British one – or at least use it for discussion with industry on the value for Canada