CYBERSECURITY THE HUMAN FACTOR

ESREL 2018

Trondheim – 18th June 2018

Specialist Director Roar Thon



People and technology



People and security





Human behavior













Picture: Colourbox.com



"Society's ability to get full effect out of investments in new technology and digital services, depends on the trust of its citizens.

Our technology must be safe, secure and it should work when we need it"



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Increased security measures for election procedures

Press release | Date: 2017-09-01

- Our election administration system is well tested and secure. We wish, however, to avoid any speculation or uncertainty pertaining to the election results. Security and trust are vital for the conduct of elections. We are therefore augmenting security measures, says Minister of Local Government and Modernisation Jan Tore Sanner. The Ministry of Local Government and Modernisation now asks that all municipalities complete at least one manual count of the votes in the upcoming parliamentary elections. Security measures for computer systems and ICT services will also be enhanced.

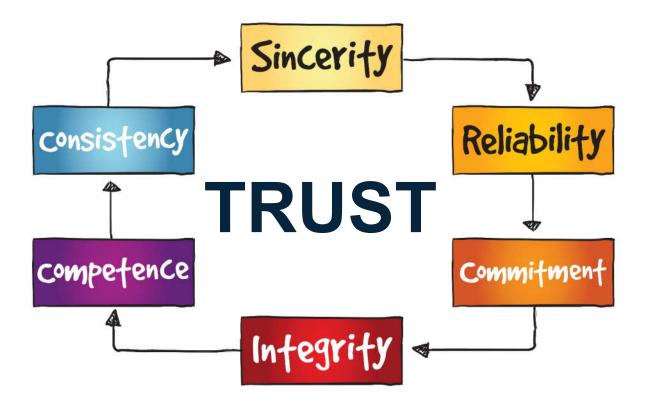


Stortinget - the Norwegian Parliament in Oslo. Photo: Thomas Nilsen

Norwegian votes to be counted manually in fear of election hacking

Norway is the second European country this year to announce trust in good old paper counting.

HARD TO GET

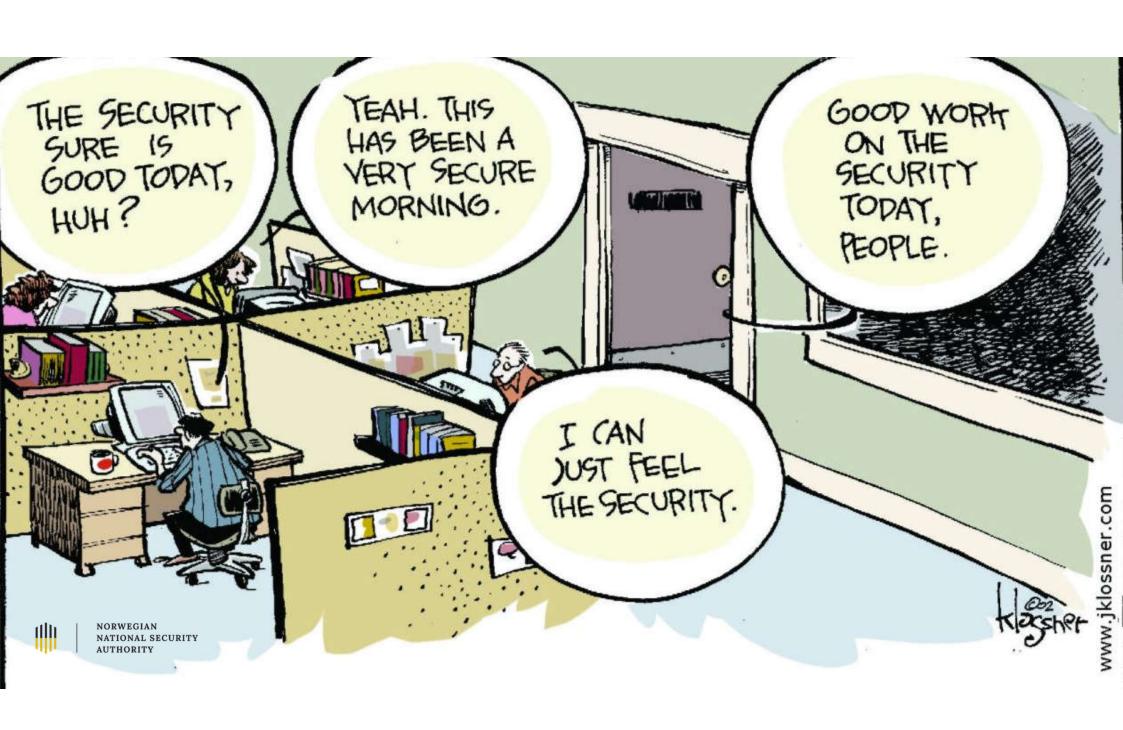


EASY TO LOOSE

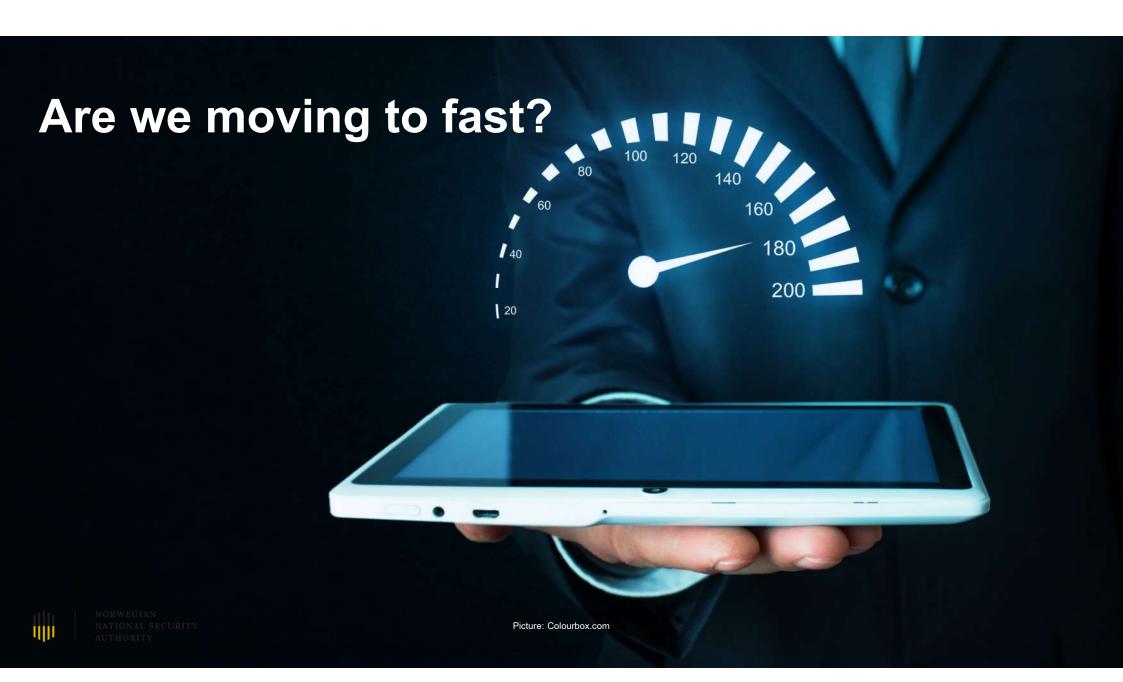


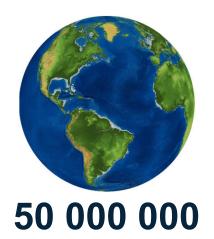
«NO BUSINESS HAS EVER BEEN STARTED WITH THE MAIN BUSINESS IDEA OF JUST BEING SECURE!»













75 years



38 years







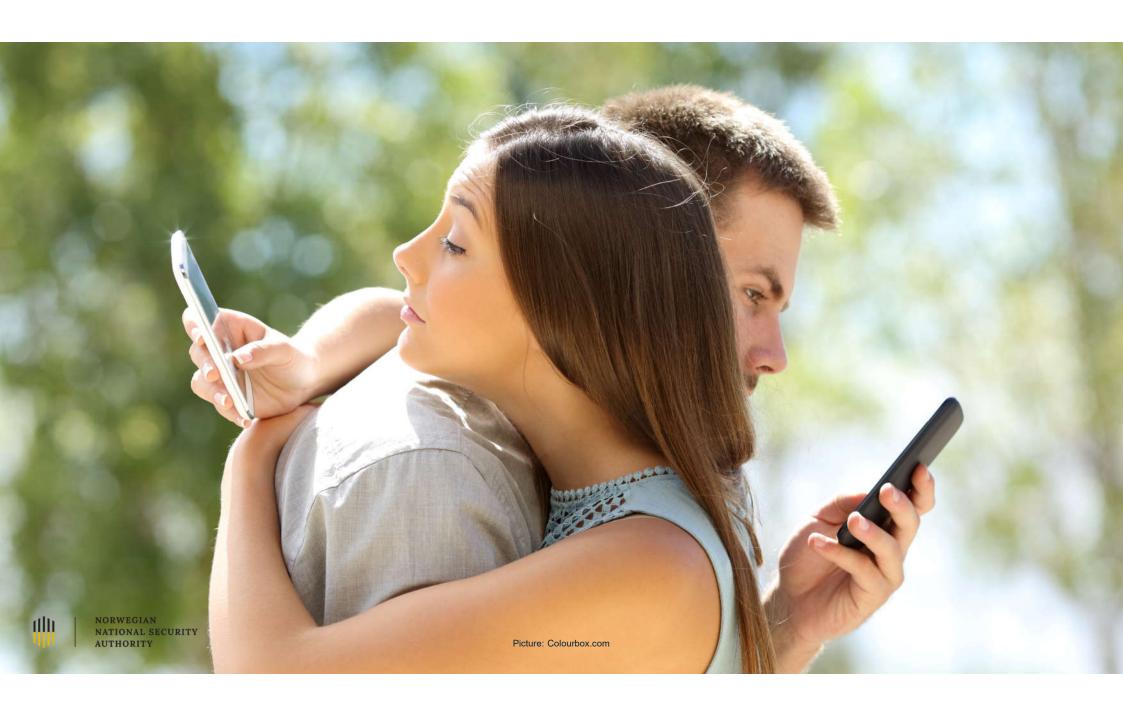
35 days



1 years













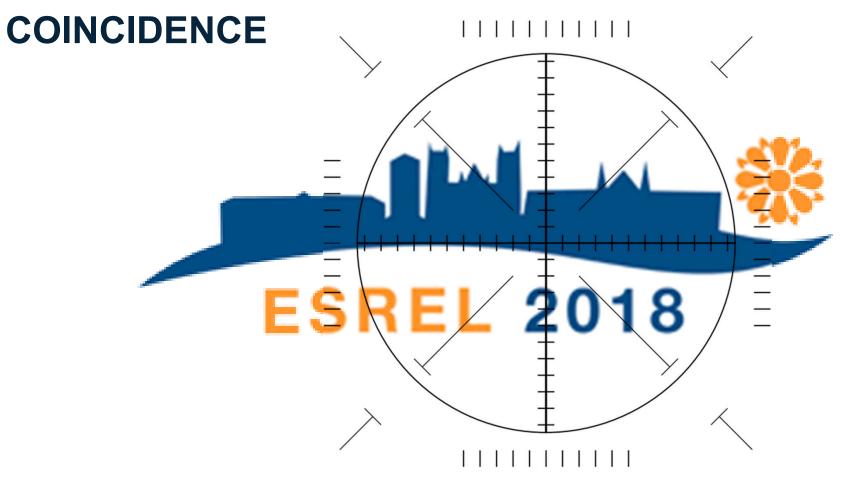
INCREASED DIGITAL THREATS





- Increased risk of being hit by a large scale cyber attack.
- Intelligence operations are still a prominent threat
- Technology creates vulnerabilities
- Humans A risk factor
- Lack of ICT competence and cybersecurity competence
- Effective risk management and incident management are inadequate

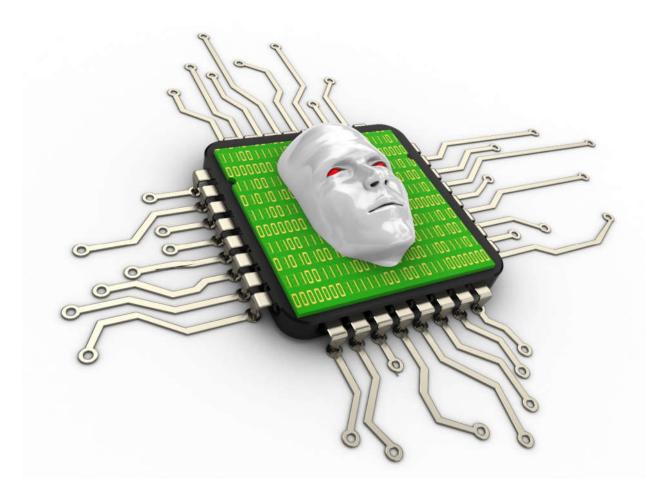




PLANNED or TARGETED

BECAUSE IT'S POSSIBLE





EVIL COMPUTERS

OR

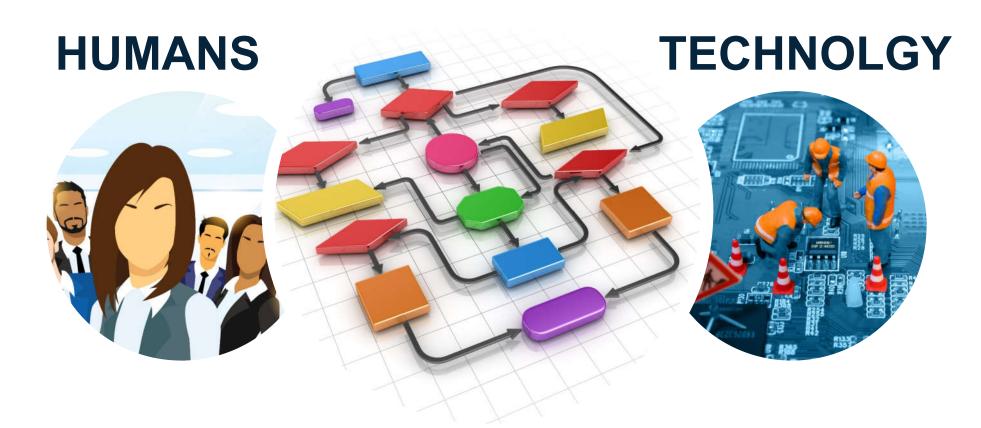
PEOPLE
ATTACKING
OTHER PEOPLE
WITH
TECHNOLOGY



Picture: Colourbox.com

CYBERSECURITY? SHOULD WE JUST BUY MORE TECHNOLOGY?





PROCESS











cb-11e7-b9c5-8a81ce29395c/Lonnstrinn-Des17.hta

Ber som vanlig om at denne oversikten ikke spres videre.

Nestleder FFO





9 of 10 Opened the link



5 of 10 Activated the malware



3 of 10 Gave up the username and password



84% of CTOs finds the human factor to be the largest cybersecurity risk to their company.

2018 - Solvero/Citrix Sweden





Picture: Colourbox.com

«Employees must be given knowledge, motivation and understanding of the situation to help enhance security at the workplace and at home»









We cannot touch it We cannot smell it We cannot taste it

We do not experience fear, threat and risk in the same way we do in "real life"

Congratulation! You have won a iPhone! Just click here!



Picture: Colourbox.com





Gissur Simonarson @GissiSim - 19 t
Norwegians waiting for a bus. Great at keeping equal distance from 1 another. You could measure distances in "Norwegians waiting for a bus"









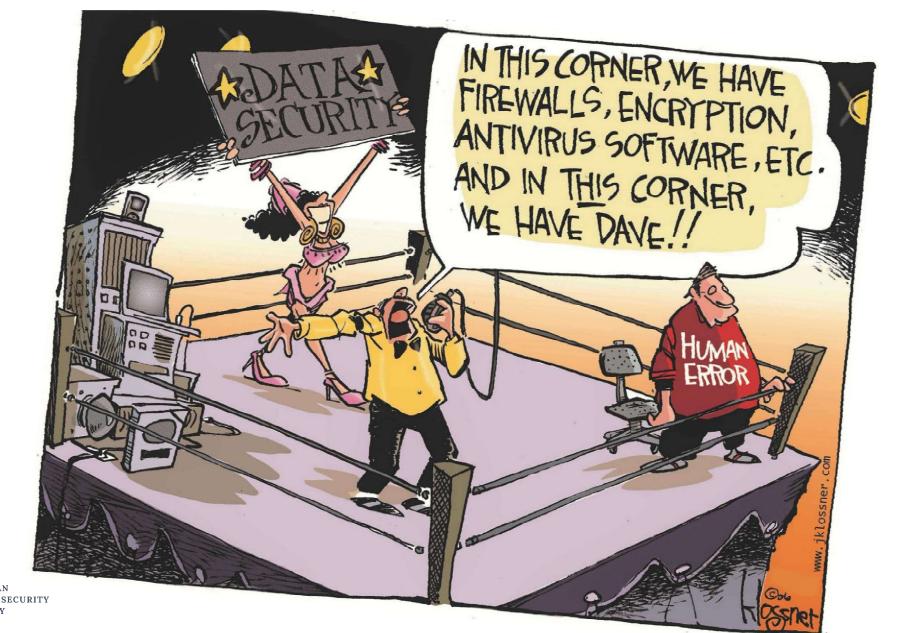
«Security that nobody is able to implement and follow, only results in lousy security»

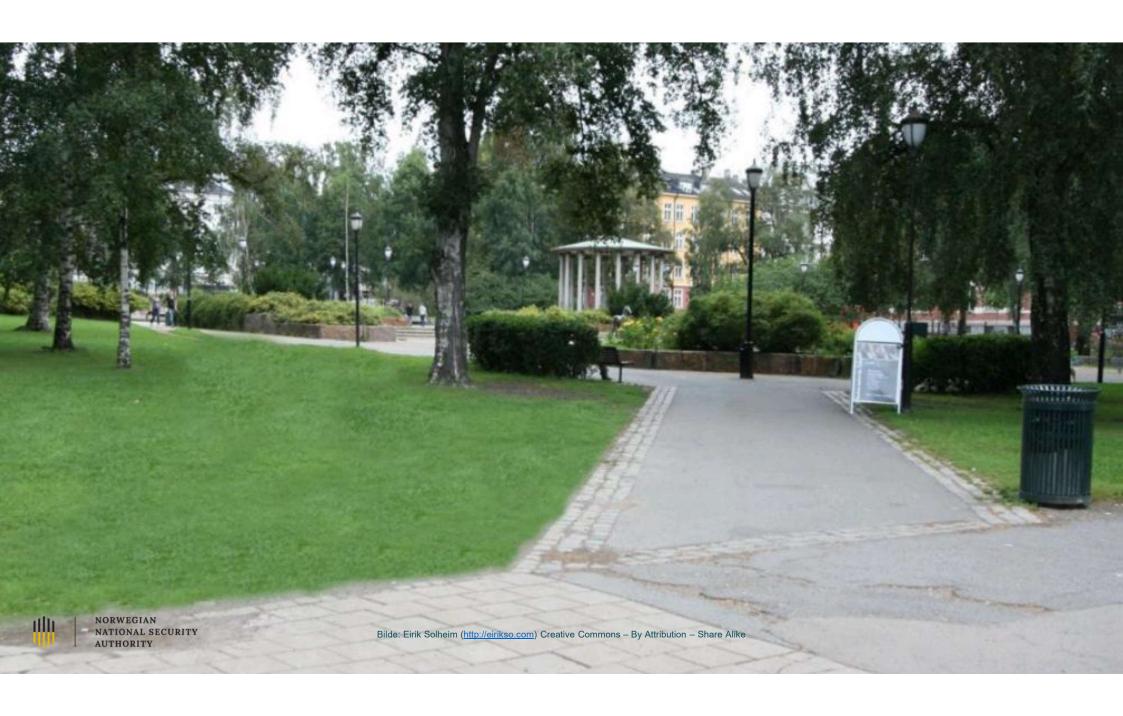


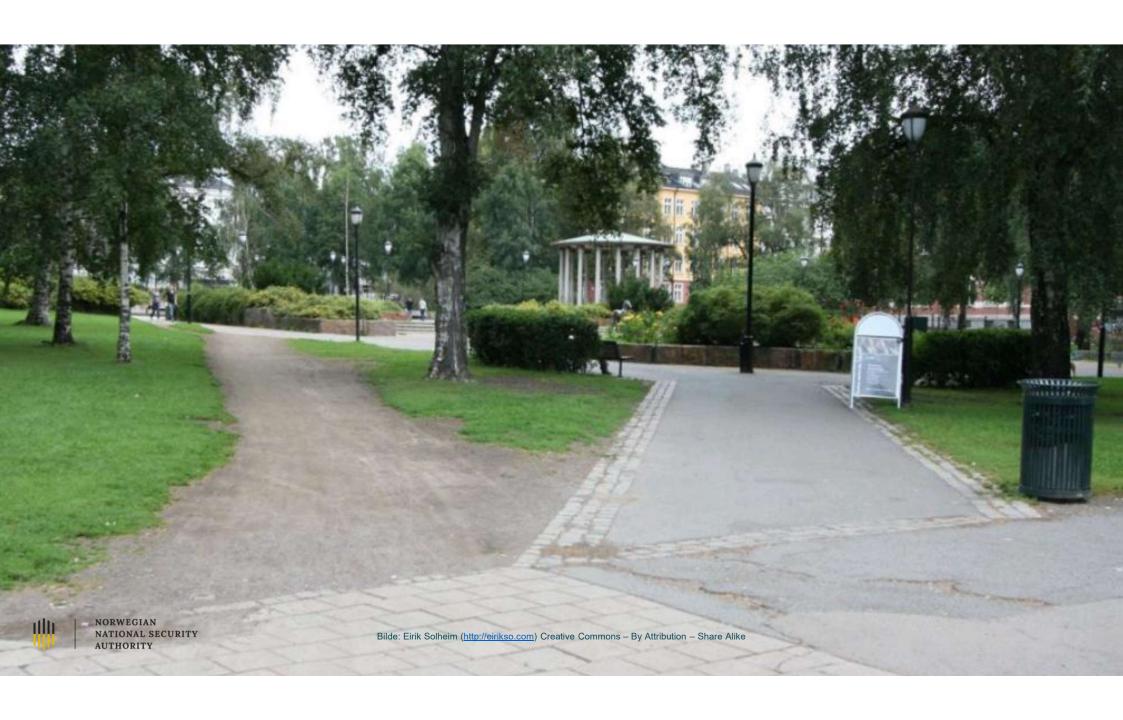


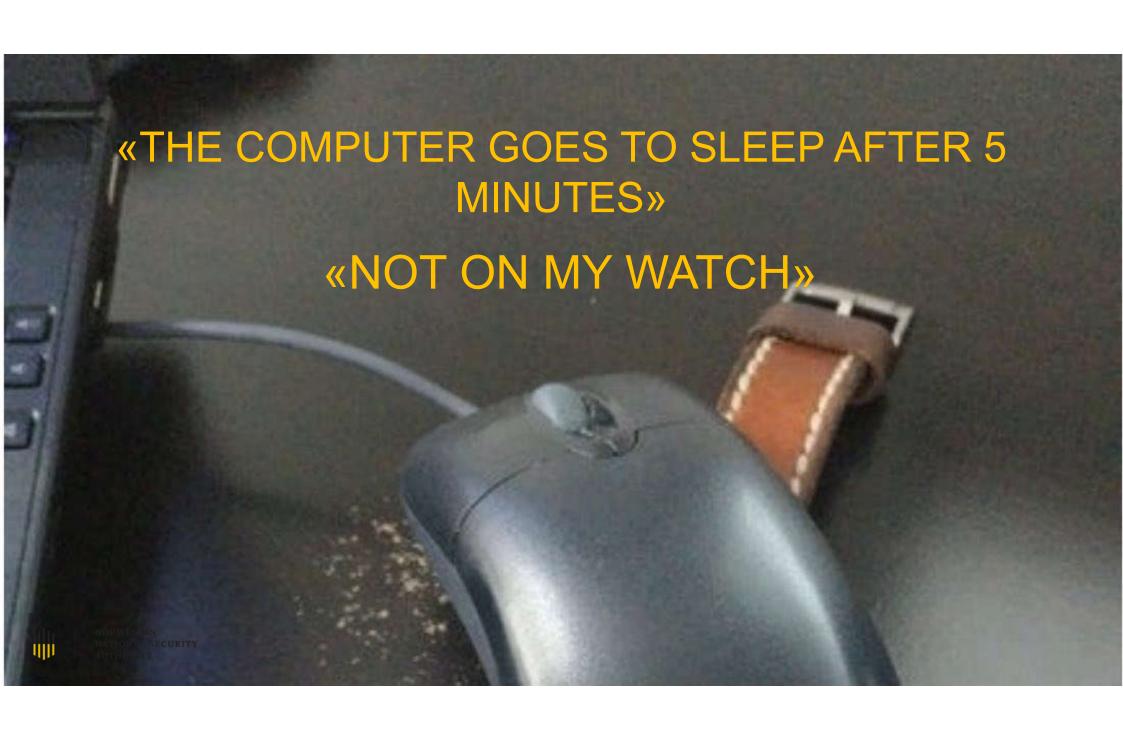
Unique Long C¤mpl3x Change Remember













«We have reorganized ourselves a number of times, but fortunately, we have not changed»





WORLD

The Global Risks Report 2018 13th Edition



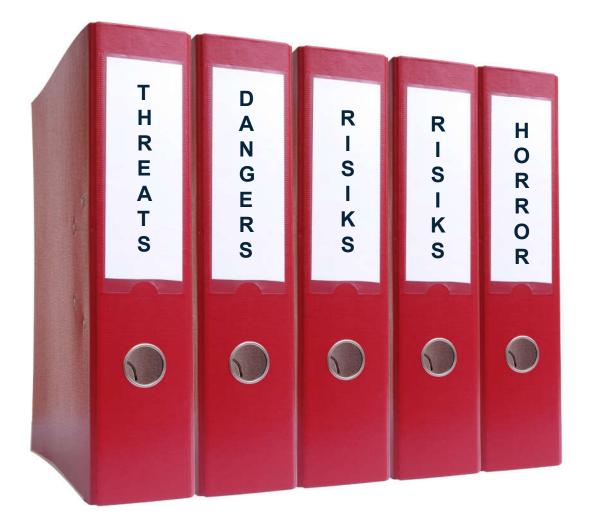
- ENVIROMENT
- ECONOMY
- CYBERSECURITY

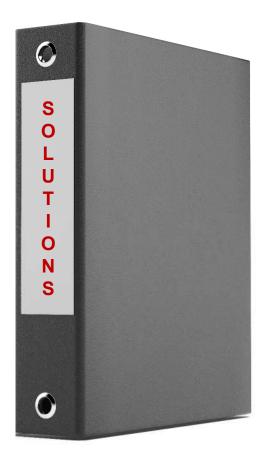






Picture: Colourbox.com





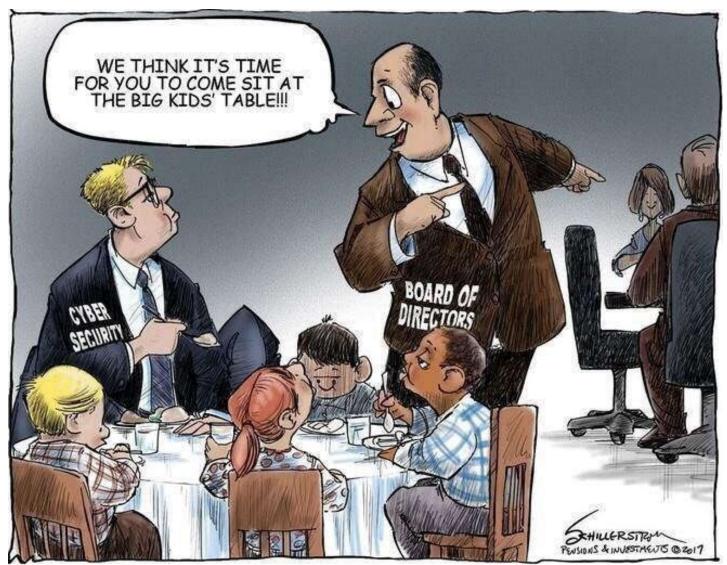
Plcture: Colourbox



CYBERSECURITY HALL OF FAME - ROLE MODELS







"Security is an interdisciplinary, continuous process owned by the organization's top executive"















Pictures: Colourbox.com







Den britiske statsministeren, Theresa May, sier angrepet er verdensomspennende og ikke spesielt rettet mot Storbritannia. <u>Hun</u> beroliger britene med at sålangt regjeringen kjenner til, har ikke sensitive pasientdata lekket ut.



"Hackers"
have read my
information

"Hackers"
have
changed my
information

"Hackers"
have
overtaken
control



NORWEGIAN
NATIONAL SECURITY
AUTHORITY





"We have to find the balance between security and privacy and still be able to use the fantastic opportunities that technology gives us"



«We should understand processes as well as we understand technology, but most of all should we understand people»



THANK YOU FOR YOUR ATTENTION





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