

From bullet point journal to lessons learned

How to manage coordination and cooperation development in ad-hoc working environment

Agenda

- What we do @ NCSC-FI?
- How we do it?
 - » **Bullet point journal**
- How do we improve it?
 - » **Lessons learned**

Warning!



**This presentation is not technical and does not
have any technical details!**

It is about handling the flow of technical cases



What we do?

NCSC-FI as an operational team

Incidents handled yearly

Incident reports per year

Incident reports	Over 1000
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Vulnerability coordination	Over 10
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NCSC-FI monitoring systems

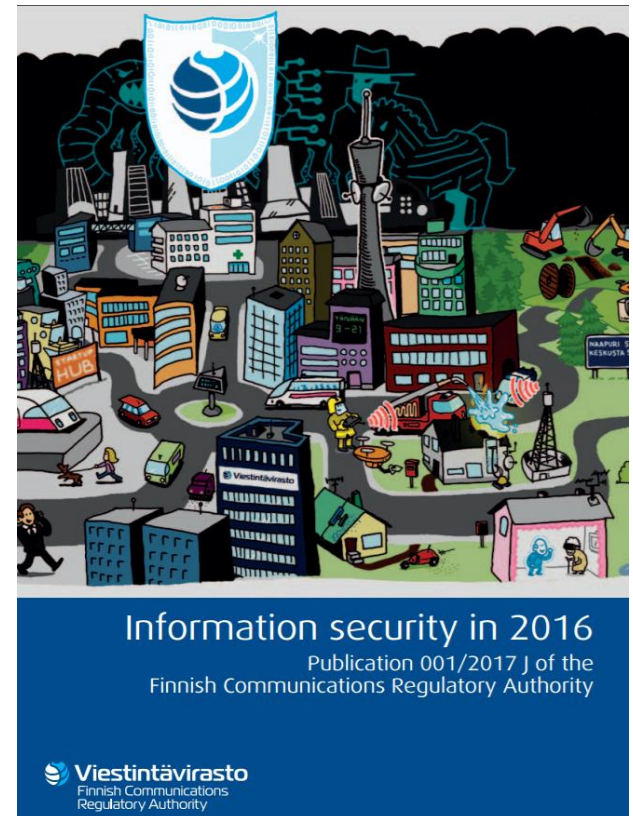
Autoreporter	50 - 410 000
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HAVARO	Over 100
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Publications yearly

Public	
Blog posts	80
Facebook & Twitter	Over 100
Distribution lists	
Week reports	52
Monthly summaries	12
Daily news letters	360
Vulnerability letters	99 (from june 2016)
CIP-messages	238



TLP: white



1 duty officer /1week

- Incident response 24/7/365
- triage
- News follow up



2 duty officer /1week

- Blog posts
- Aids 1. duty officer



3 duty officer /1week

- HAVARO monitoring



Coordinator/3weeks

- Coordinates significant incidents
- Follows and coordinates situation awareness

"CERT Public announcements" awarded as information security phonemon of the year 2016

TLP: white



ALERTS

13.05.2017 time 13:09
Alert 02/2017
Updated 15.05.2017 time 15:50

Active ransomware campaign - install Windows updates immediately >

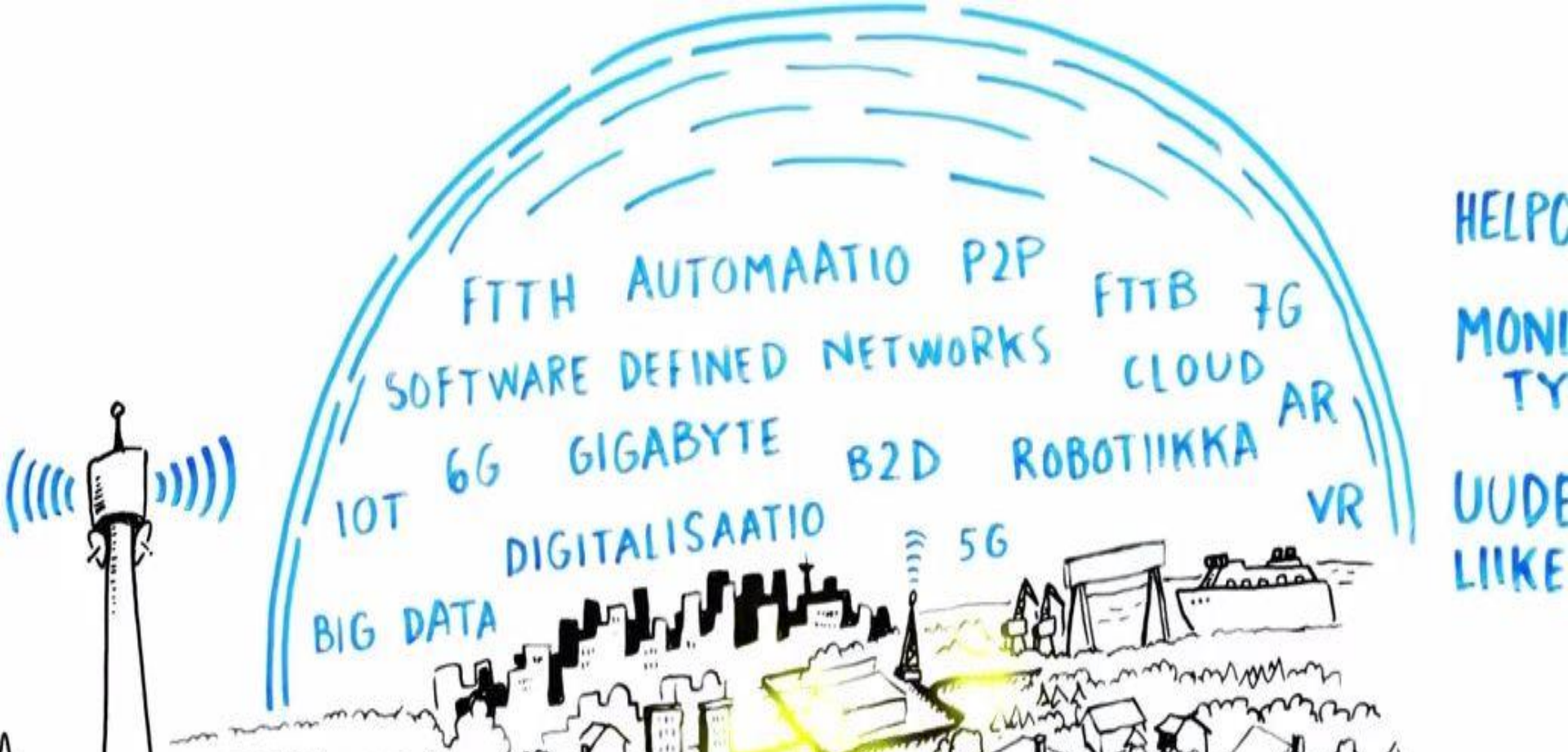
Cases of the WannaCryptor ransomware have also been detected in Finland. The ransomware spreads very aggressively in the internal network of an organisation if the security patches for the vulnerabilities exploited by the ransomware have not been installed. To protect against this

[Teema] Kiire ja yllättävä rahantarve paljastaa verkkohuijarin

23.03.2017 klo 14:29

Nyt esittelyssä ovat yleisimmät sekä tuoreimmat huijaustyyppit, jotka saapuvat sähköpostitse, tekstiviestitse, puhelimitse tai seuranhakupalvelun kautta. Usein verkkohuijarilla on kiire. Uhrin on toimitettava rahat pian, muuten ainutkertainen tilaisuus on ohi. Kaukorakkauskin voi katketa, jos varat eivät äkkiä kilahda armaan tilille. Pikavoittoja jaetaan kuitenkin vain harvoille, siksi niiden tarjoajiin ei pidä luottaa.





Bullet point journal in coordination

How it is done?

Problems and questions

1. Mostly ad-hoc cases
2. Obtained from variety of sources
3. All having different kind of problems
4. Several people handling them
5. With many cooperation parties

- 1. What is important and to whom?**
- 2. What to follow for longer?**
- 3. What is the overall situation?**
- 4. Where is it going?**
- 5. Did we do it correctly?**

What is a bullet point journal?

The System

The Bullet Journal is a customizable and forgiving organization system. It can be your to-do list, sketchbook, notebook, and diary, but most likely, it will be all of the above. It will teach you to do more with less.

GET STARTED

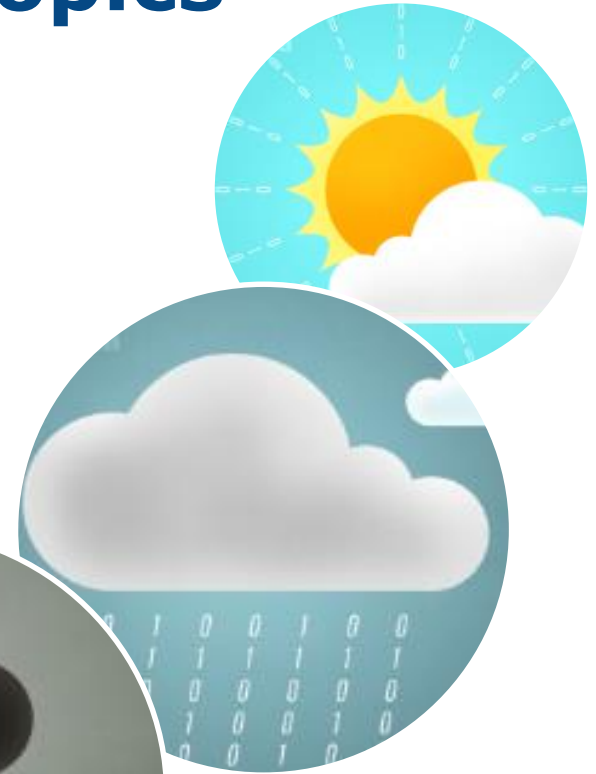


Source: www.bulletjournal.com

- ❑ From "Big Picture" to "small details"
- ❑ Aid with topics and symbols

Cyberweather follows 6 topics

- Espionage
- DDoS
- Malware and Vulnerabilities
- Fraud & Phishing
- Network Functionality
- IoT



Daily (morning brief)

- New cases*
- Topic news*
- Vulnerabilities*
- IOC's data*
- Monitoring systems*
- Customer contacts & networks*

Weekly (report)

- Espionage*
- DDoS*
- Malware and vulnerabilities*
- Fraud & Phishing*
- Network functionality*
- IoT*

Monthly (trends)

- Cyberweather collage*
- Update of statistics and trends*

Yearly (year book)

- Summary & Forecast*
- Analyze: TOP5 threats and solutions*

Bullet point journal @ NCSC-FI?

#cyberweather in May2017

Worldwide problems from aggressive WannaCry –ransomware

Espionage

- Affecting elections worries all over Europe
- ICT-service providers as a spread vector to organizations

Malware and vulnerabilities

- WannaCry ransomware spread all over world
- Finland suffered few hits

Denial of service

- Gigabit DDoSes everyday in Finland
- Several notifications of threatening with DDoSes

Functionality of communication services

- No significant disturbances lately
- Significantly less disturbances than year ago

Fraud & Phishing

- Continues bank and Apple ID phishing has become new normal
- Subscription traps common

IoT

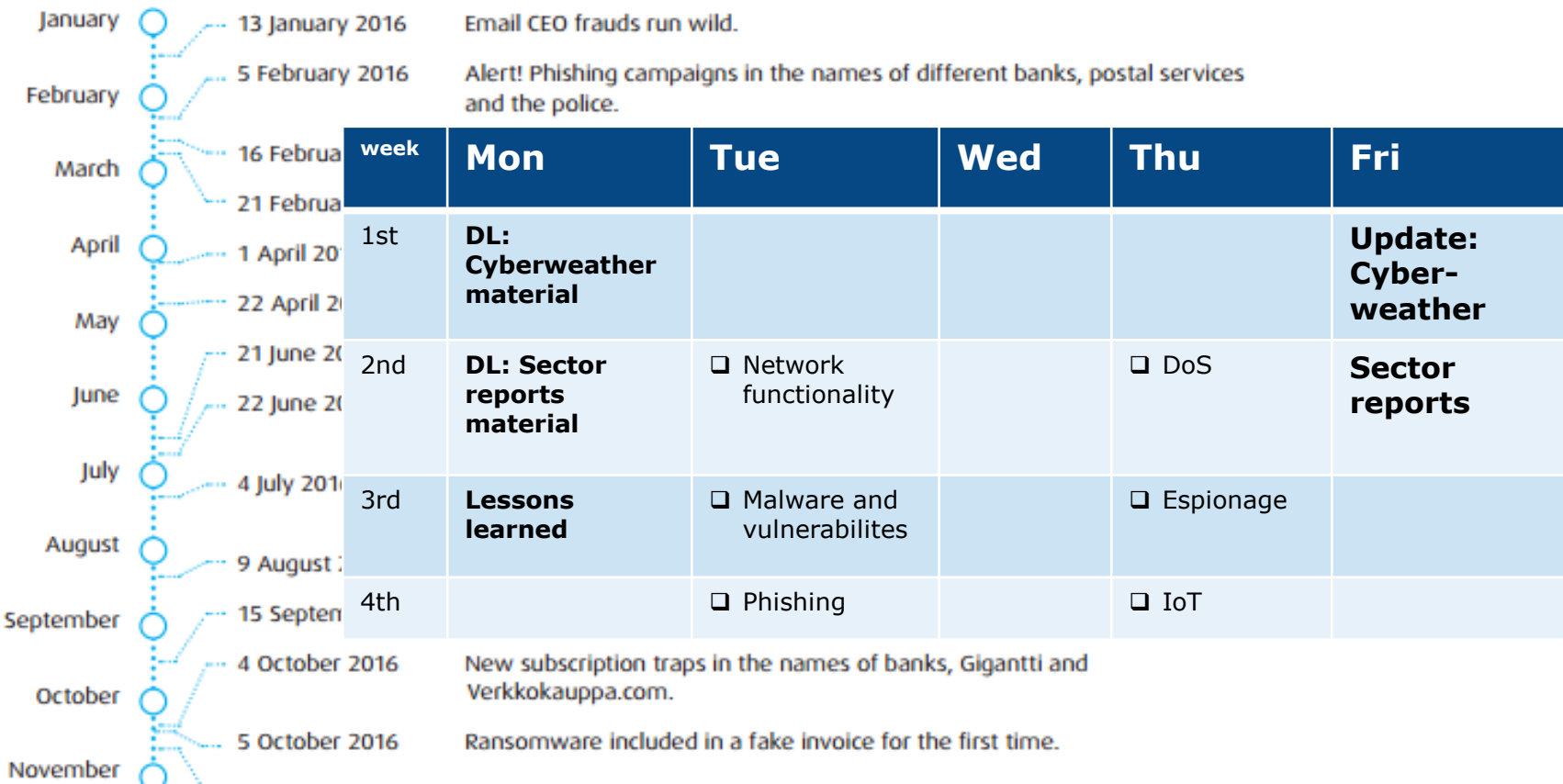
- Minimum requirements discussed in EU level
- Scanning industrial control systems 2017 revealed unprotected critical devices in network

NCSC-FI daily week timetable

	Mon	Tue	Wed	Thu	Fri
<i>Daily</i>	Morning brief (coordinator)	Morning brief (coordinator)	Morning brief (coordinator)	Morning brief (coordinator)	Shift of duty (1. duty officer)
<i>Report</i>				Weekly report - AMBER	Weekly report - GREEN
<i>Work</i>	Group meetings				NCSC-FI meeting

NCSC-FI weekly month timetable

Timeline of internet fraud and phishing



All gathers to a Year Book

https://www.viestintavirasto.fi/attachments/tietoturva/Information_Security-2016_ViVi-27-03.pdf



Information security in 2016
 Publication 001/2017 J of the
 Finnish Communications Regulatory Authority

Threat assessment: DoS attacks

	Citizens	Companies	State
Attention/ Interference	DoS attacks make the lives of users more difficult by reducing the availability of services.	To be taken into account in risk assessments	To be taken into account in preparations
Money	DoS attacks may have a temporary impact on the availability of funds through online services, but they do not threaten actual funds.	There are black attempts, but t to any attacks i of online servic DoS attacks ma impact on com	
Information			
Resource for further attacks	Unprotected IoT devices of users form large volumes.	Unprotected IoT	

■ No threat ■ Slight threat
 The colour in the right bottom corner indicates the T

Timeline of internet fraud and phishing



TOP 5 THREATS: Organisations

Neglected updates
 Change management is difficult for various reasons. Devices that are not properly updated are hijacked to become resources for malicious use.

Ransomware
 Workstations and network servers are locked for

TOP 5 SOLUTIONS: Organisations

Routine system updates
 Add updates as a fixed part of data management processes in order to stay up to date when it comes to your systems.

Trained personnel
 Employees trained to be vigilant offer the best



Lessons learned

Improving the way of work

What is lessons learned?



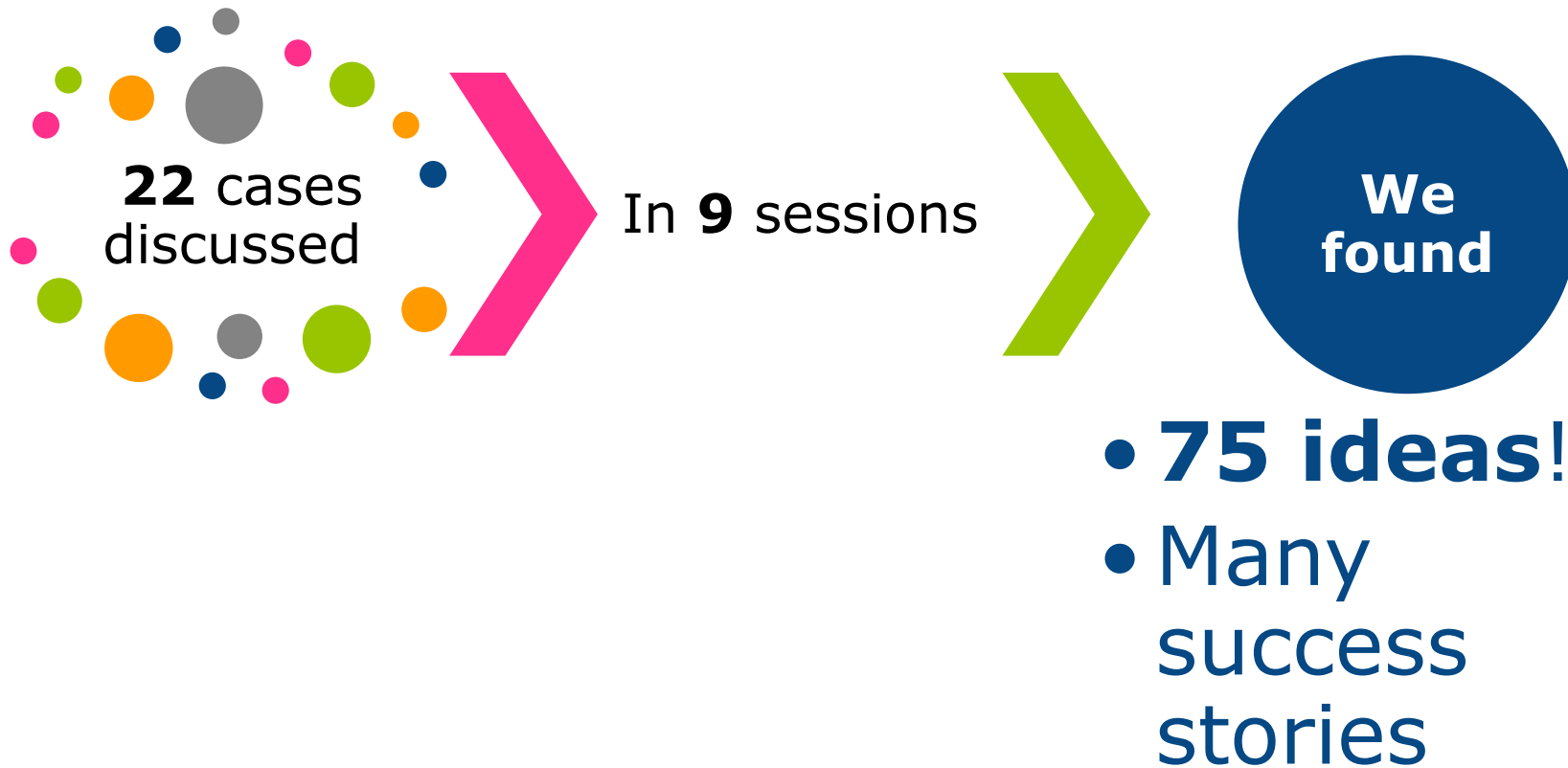
<http://www.projectmanagers.net/i/top-mistakes-in-project-management/you-will-make-mistakes/>

Lessons learned in action

Improvement ideas and feed back brought up by the employees

- Once a month held discussion session
- 2-4 cases picked up brought up by the employees
- What did we do right/wrong?
 - » Improvement ideas listed
 - » Taken to management
 - » Management decides what ideas are taken into actions to improve future way of work

Results of lessons learned 2016



Conclusions

- **Simplify** - with simple topics
- **Check points** - for freedom of doing in ad-hoc
- **Learn** - from the mistakes and successes!



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