ENISA Workshop on Protection of Electronic Communications Infrastructure and Information Sharing

Dr. Cédric Lévy-Bencheton | NIS Expert

Bucharest | 16 June 2015

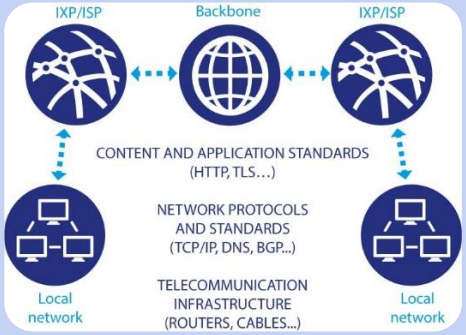
Summary

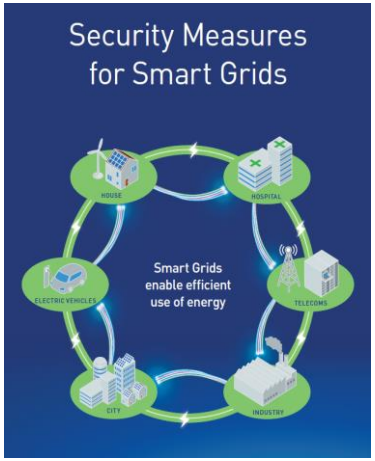
Presentation of ENISA

ENISA's activities

Critical Information Infrastructure Protection in Europe: ENISA efforts

Communication networks: Critical Information Infrastructure and Internet Infrastructure

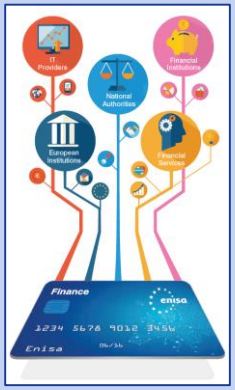




Transport

eHealth

Finance



About the workshop

Objective of the workshop

Protect Electronic Communications Infrastructure

Get more information on Incident Sharing Tools

- Use cases
- Existing solutions
- Organisation and management
- Future developments

The objective is to improve collaboration between all actors

Audience

55 participants, 20 nationalities

- Policy Makers, from ministries and national regulatory agencies across Europe
- High level executive from the telecom industry (ISP, IXPs, Infrastructure owners)
- Experts and lawyers from several sectors (telecom, mapping…)

Agenda, part 1

TIME	PRESENTATION
9:00 9:15	**Welcome coffee**
9:15 9:30	**Introduction – Dr. Cédric Lévy-Bencheton, ENISA**
9:30 10:00 10:30	**Protection of underground infrastructure** Session 1: Presentation of existing tools (30 min): *Point of view of implementations, issues, challenges, demonstration…* - Online demonstration of Ledningskollen **– Mr. Jörgen Nordman, PTS (Sweden)** Session 2: Evolution of the tools (30 min): *Presentation of new and future developments: APIs, INSPIRE Directive...* - Future developments of the tool "KLIC" **– Mrs. Caroline Groot, Kadaster.nl (Netherlands)**
10:30 10:45	**Coffee Break**

Agenda, part 2

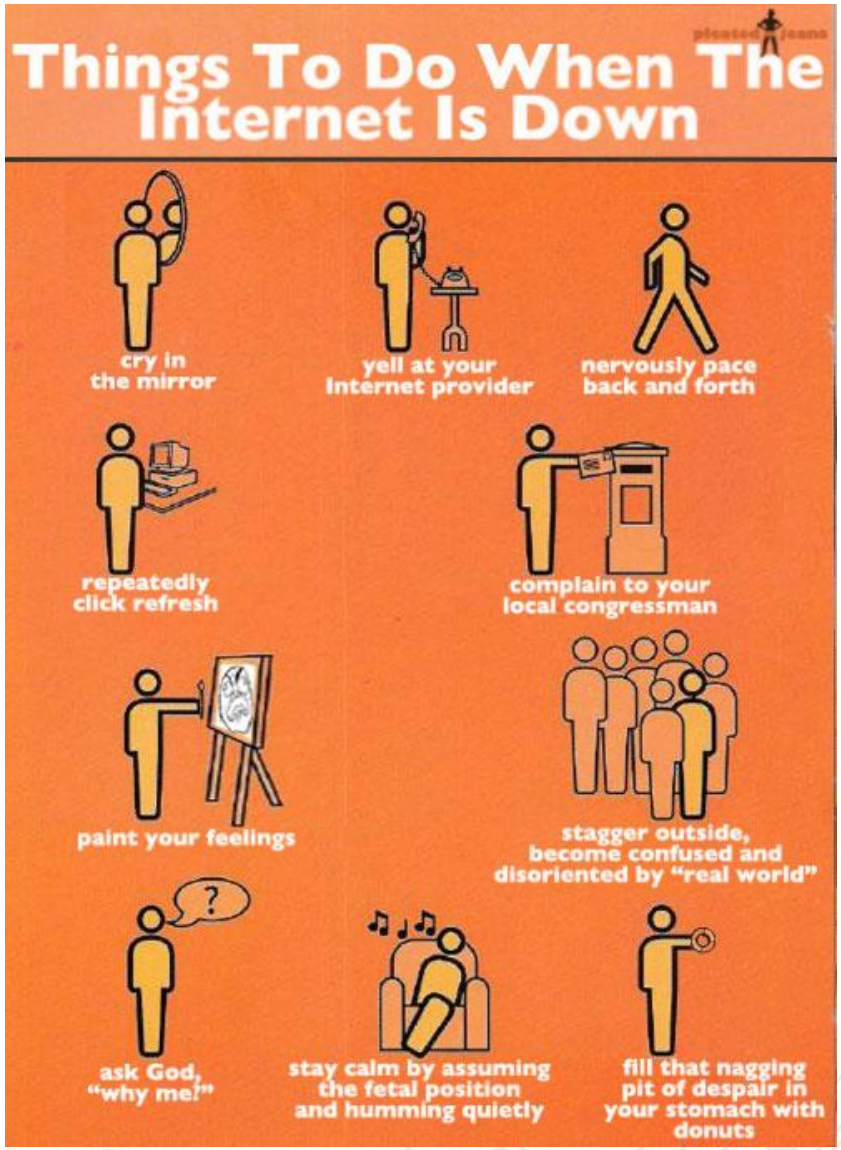
10:30 **10:45**	**Coffee Break**	
10:45 **11:45**	**Session 3: Information sharing** DIO: Online platform for information sharing between providers on unplanned and planned disruptions – **Mr. Erik Wiman, PTS and Mr. Ingemar Björk, Skanova (Sweden)**	
11:45 **13:00**	**Panels (round table / Q&A)**	
	Panel 1 – Tools for infrastructure protection *Information sharing (pros/cons), cross-border issues and collaboration, use-cases* **Mrs. Caroline Groot, Kadaster.nl (Netherlands)** **Mr. Henrik Ravn Lager, MBBL (Denmark)** **Mr. Doekele Rienks, Geodan (Netherlands)** **Mr. Ingemar Björk, Skanova (Sweden)**	Panel 2 – DIO for Information Sharing *Questions and Answers, Information Sharing as a Service, how to join DIO in your country, cloning of the tool…* **Mr. Erik Wiman, PTS (Sweden)** **Mr. Ingemar Björk, Skanova (Sweden)**
13:00 **14:00**	**Lunch offered by ENISA**	
14:00	**End of workshop**	

Introduction on the Protection of underground communication infrastructure

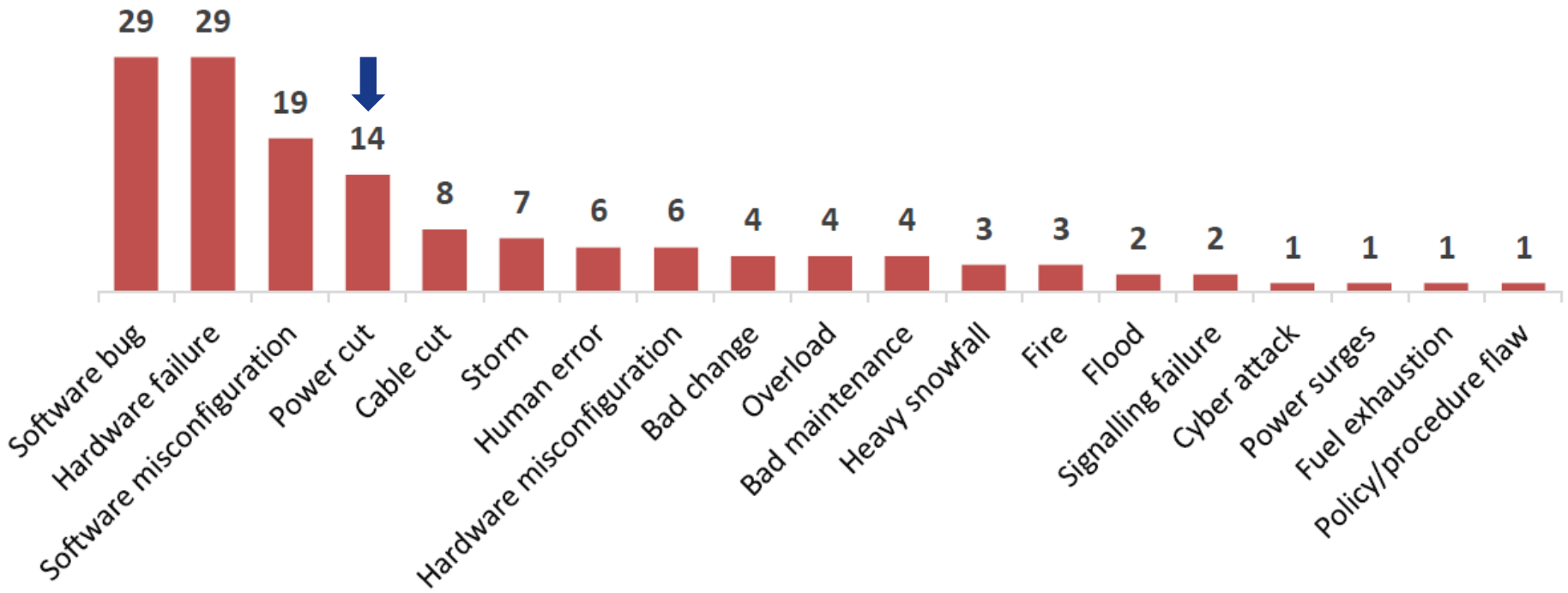
Underground fibre cables damaged by civil work

Source: flickr.com/photos/62771743@N04/sets/72157626580811239/

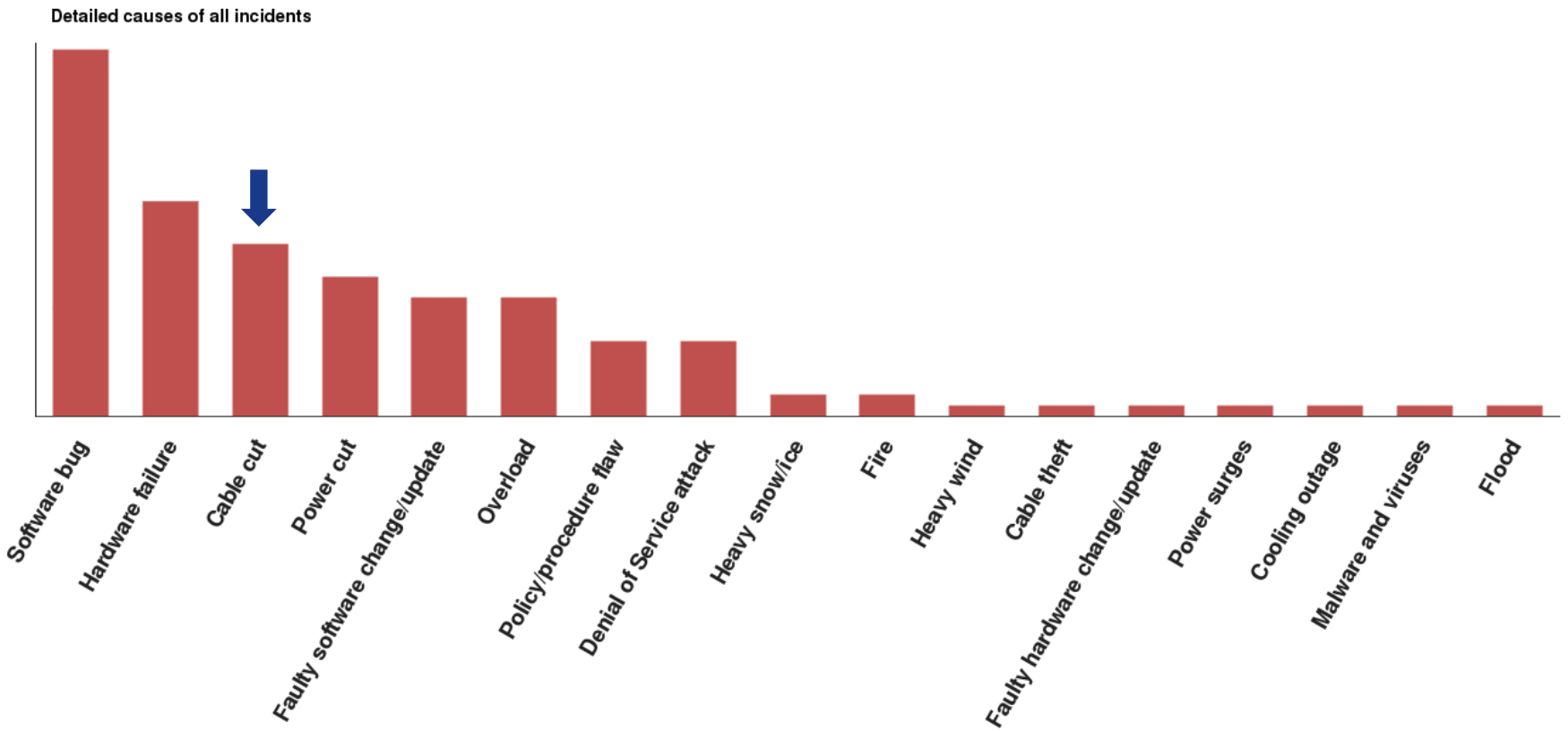
Consequences for the European citizen



Incident Reports in 2013



Incident Reports in 2014 (first draft)



ENISA Work in 2015

Study on protection of underground electronic communications infrastructure

Protection of Underground Electronic Communications Infrastructure

The use of automated information system for damage prevention against civil work

December 2014

European Union Agency for Network and Information Security www.enisa.europa.eu

Objectives

- Understand existing solutions
- Present their characteristics
- Provide recommendations to Member States, infrastructure owners and civil workers

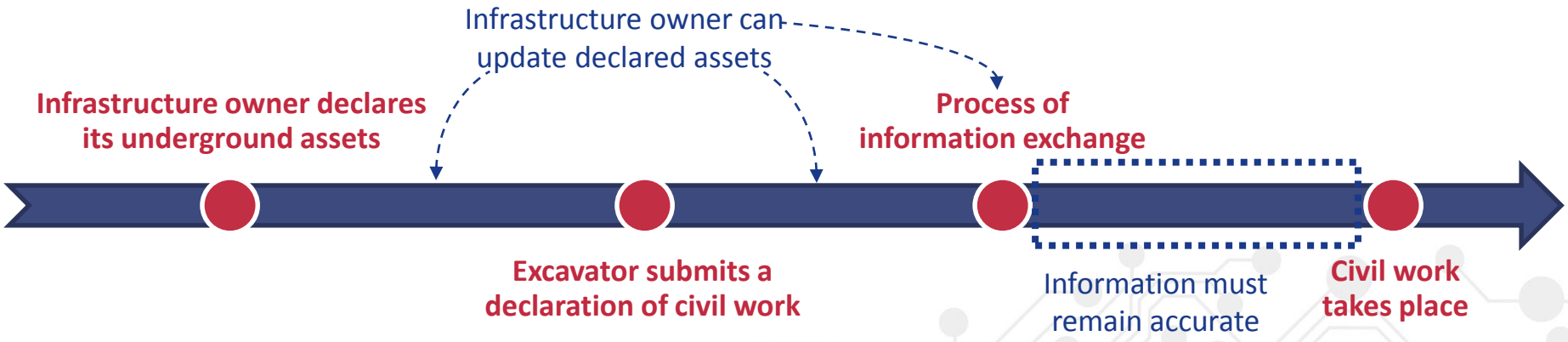
Automated information systems

Objective: protect underground assets of eCom providers

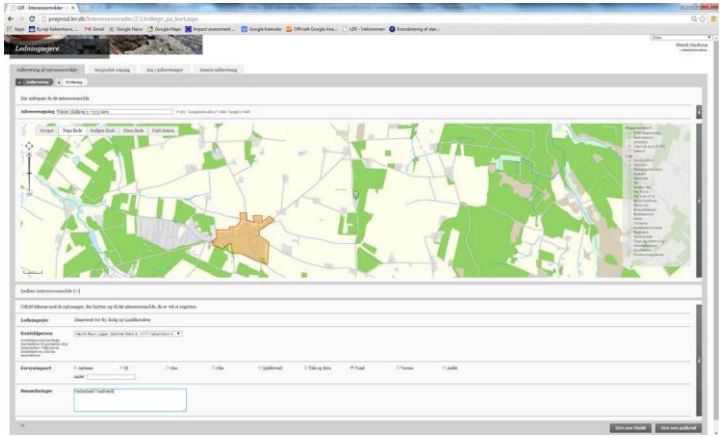
- A “One-stop shop” to facilitate coordination
- Web-interface, digital maps and database

Used by all stakeholders

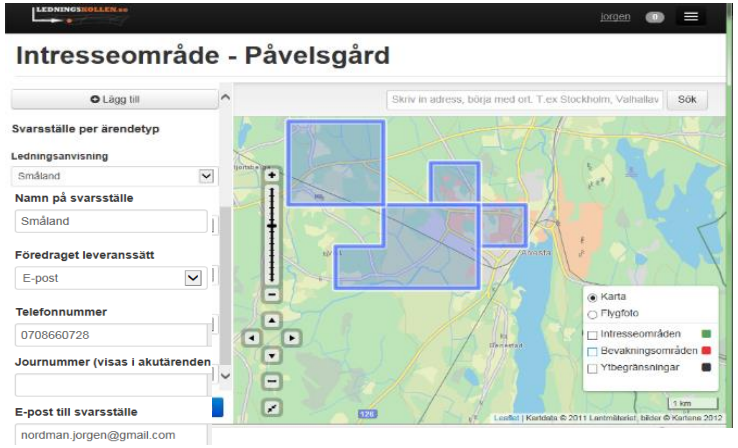
- Excavators and civil workers
- Infrastructure owners (not only eCom)



1) Declaration of assets for infrastructure owners



LER (DK)



Ledningskollen (SE)

Infrastructure owners declare

- Areas with underground assets
- A point of contact for this area

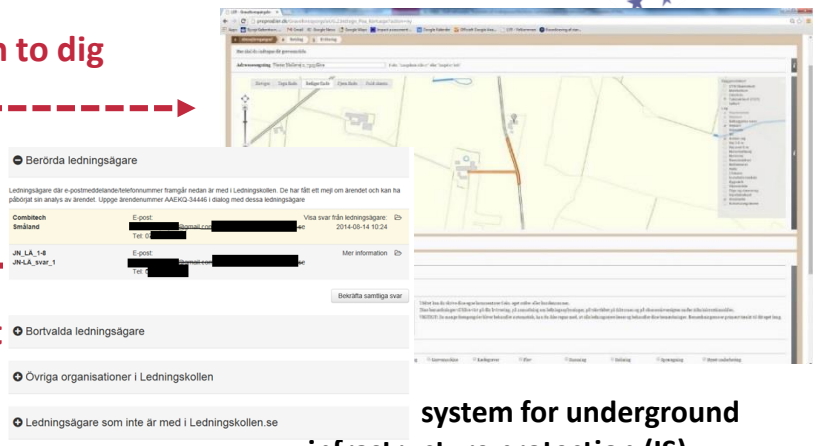
Confidentiality is critical

- Maps remain private
- Real coordinates are unknown

2) Request of information by civil worker

Civil worker

1. Declaration of intention to dig



2a. List of asset owners in t

system for underground infrastructure protection (IS)

2b. Individual requests

Maps → Infrastructure owner A

Maps → Infrastructure owner B

Maps → Infrastructure owner C

3. Response to the excavator

Conclusion

Conclusion

Incidents can impact

- Physical infrastructure
- Organisation and processes
- European citizens

Protect economy and vital sectors

- Rely on incident sharing
- Collaborate to achieve EU-wide harmonization

Collaboration through incident sharing improves cyber security

Thank you

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