



Schweizerische Eidgenossenschaft
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Confederazione Svizzera
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Federal IT Steering Unit FITSU
Federal Information Service FIS

Reporting and Analysis Centre for Information Assurance MELANI

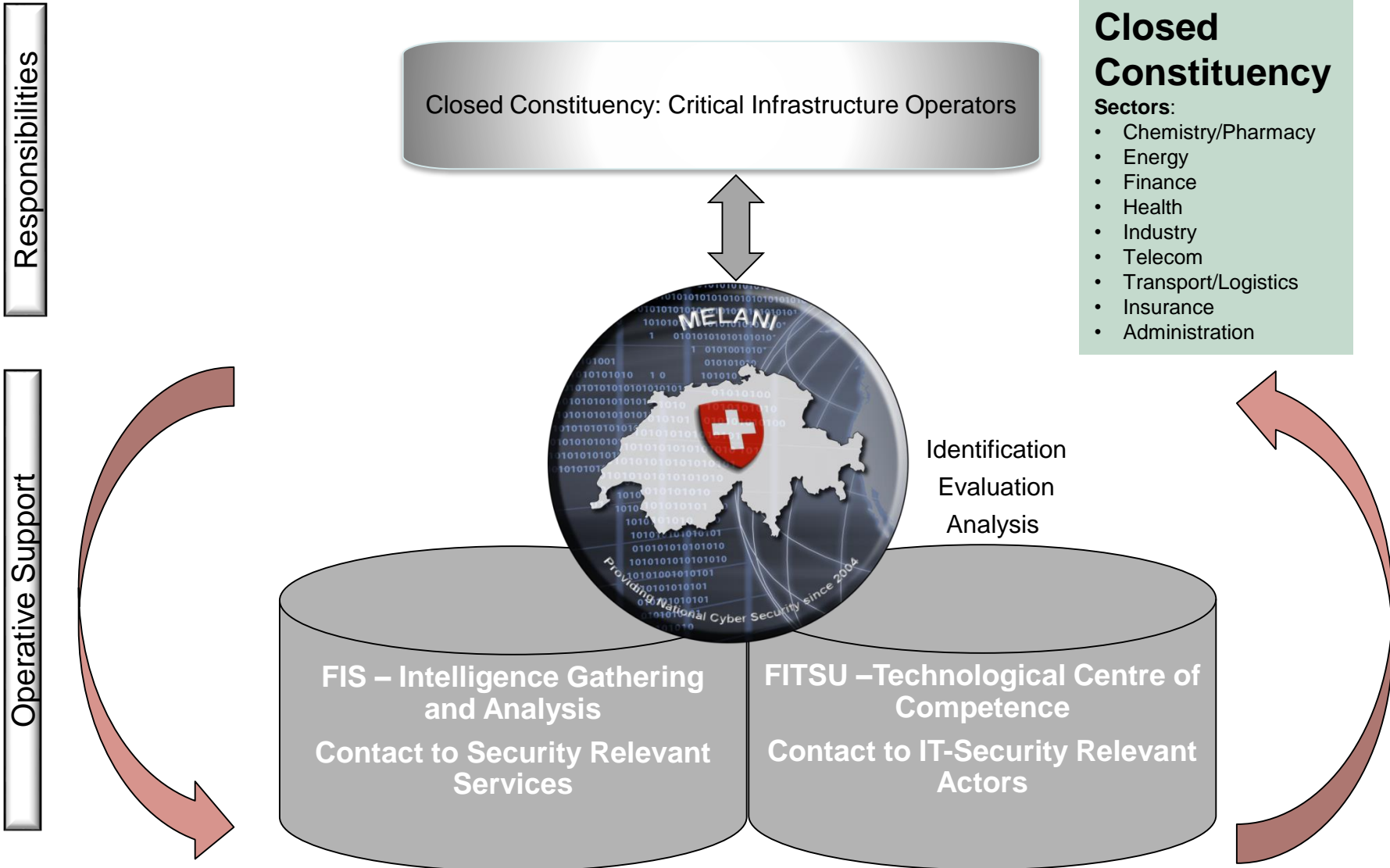
The role of the Swiss Government in dealing with Cyber Incidents

Swiss Cyber Storm, Lucerne, 22 October 2014

Dr. Stefanie Frey, Coordinator Swiss National Cyber Strategy



MELANI: Information Exchange Hub

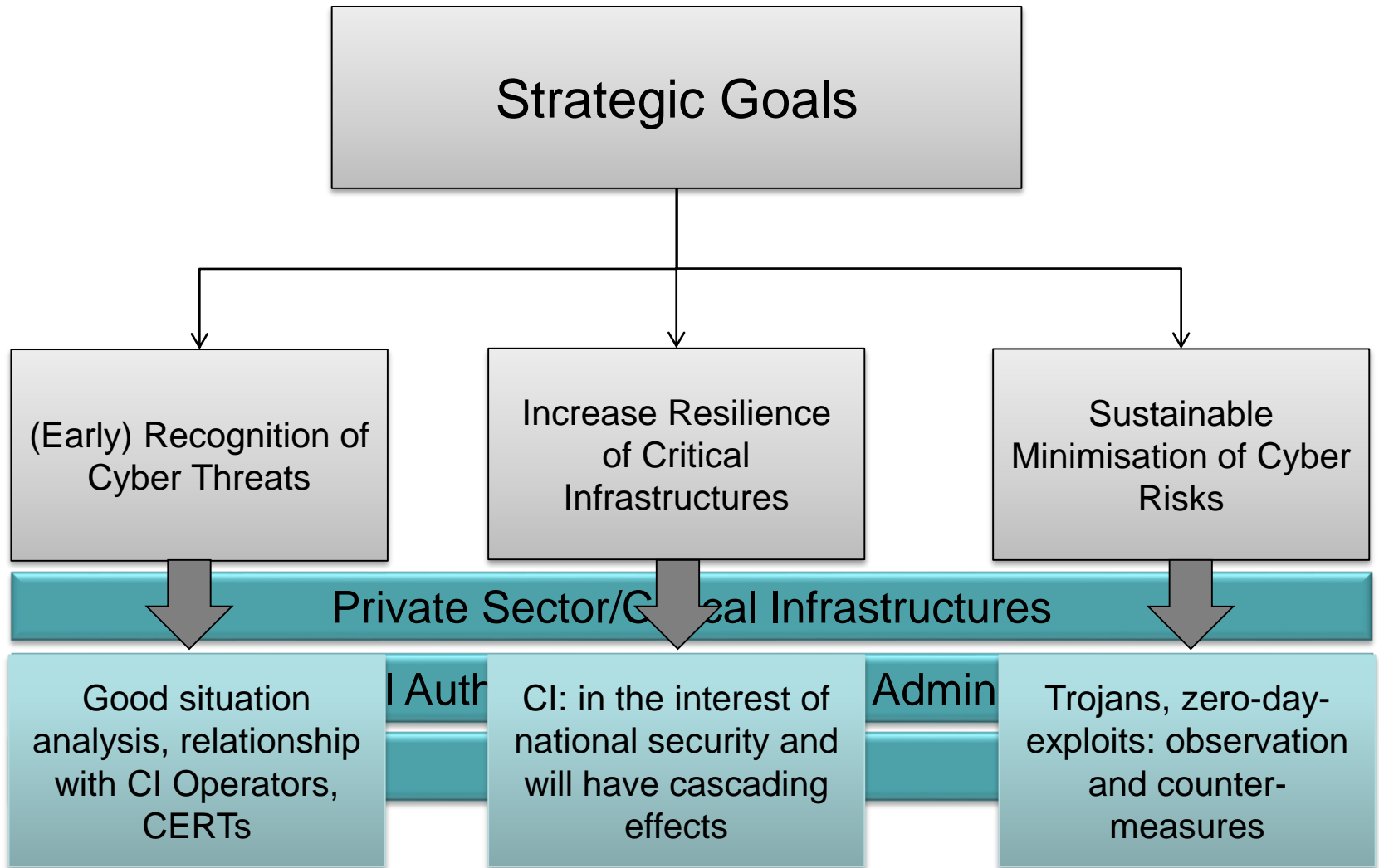


FITSU / FIS

Reporting and Analysis Centre for IA MELANI

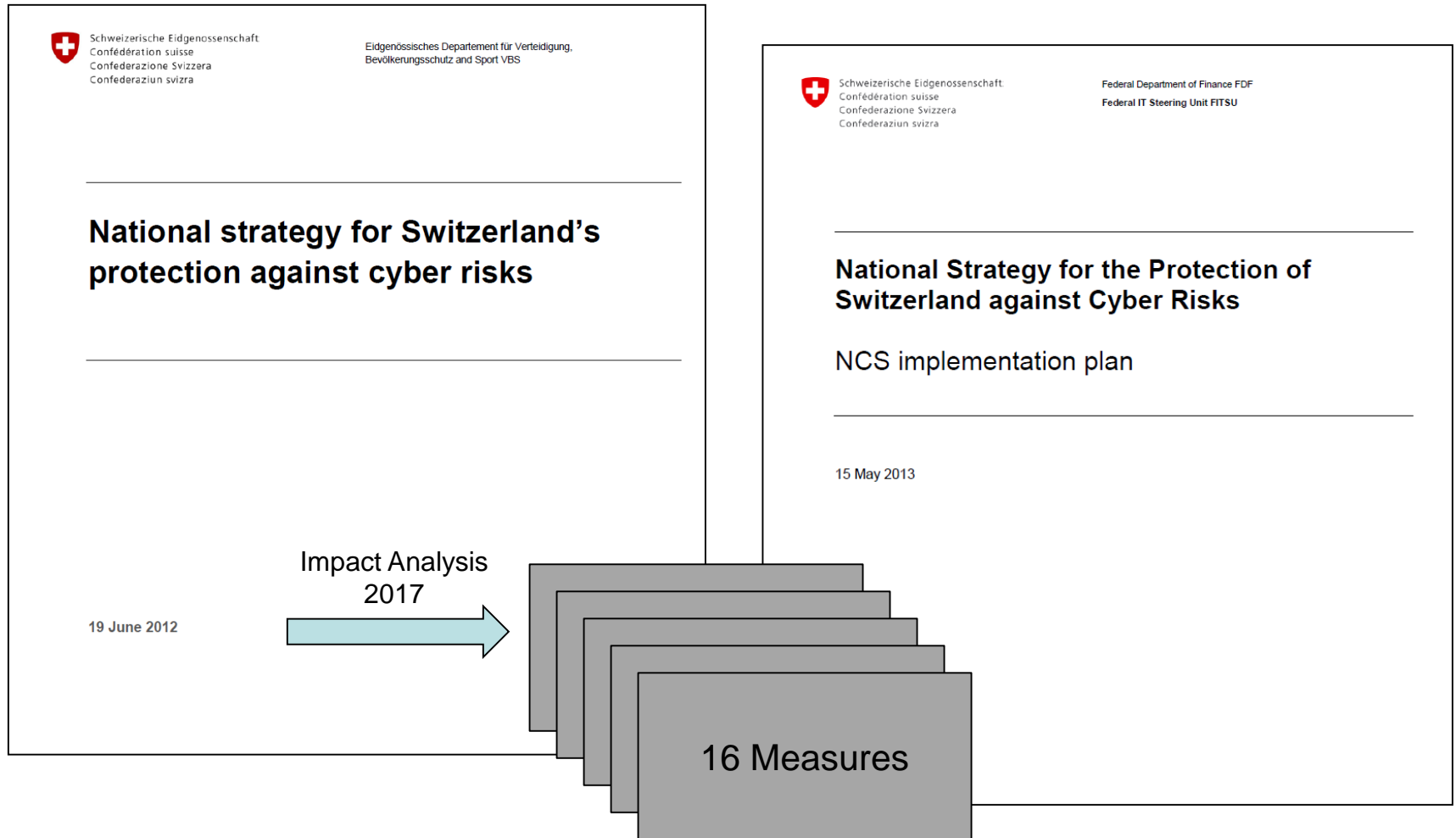


Strategic Goals



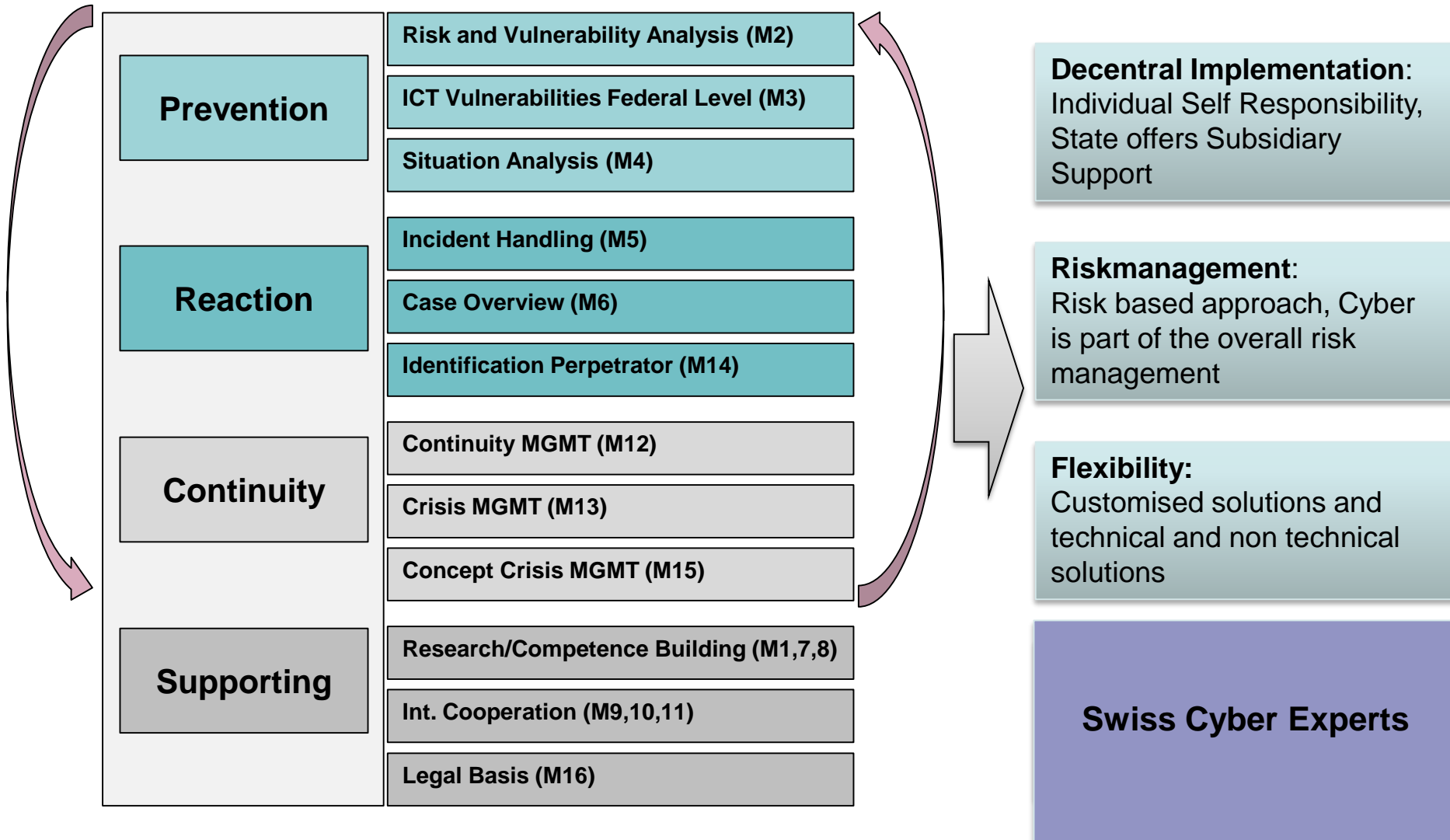


NCS: A comprehensive Strategy





Implementation and Responsibilities





Incident Handling and Continuity MGMT

MELANI:

Public-Private- Partnership (PPP) and **Swiss Cyber Experts**

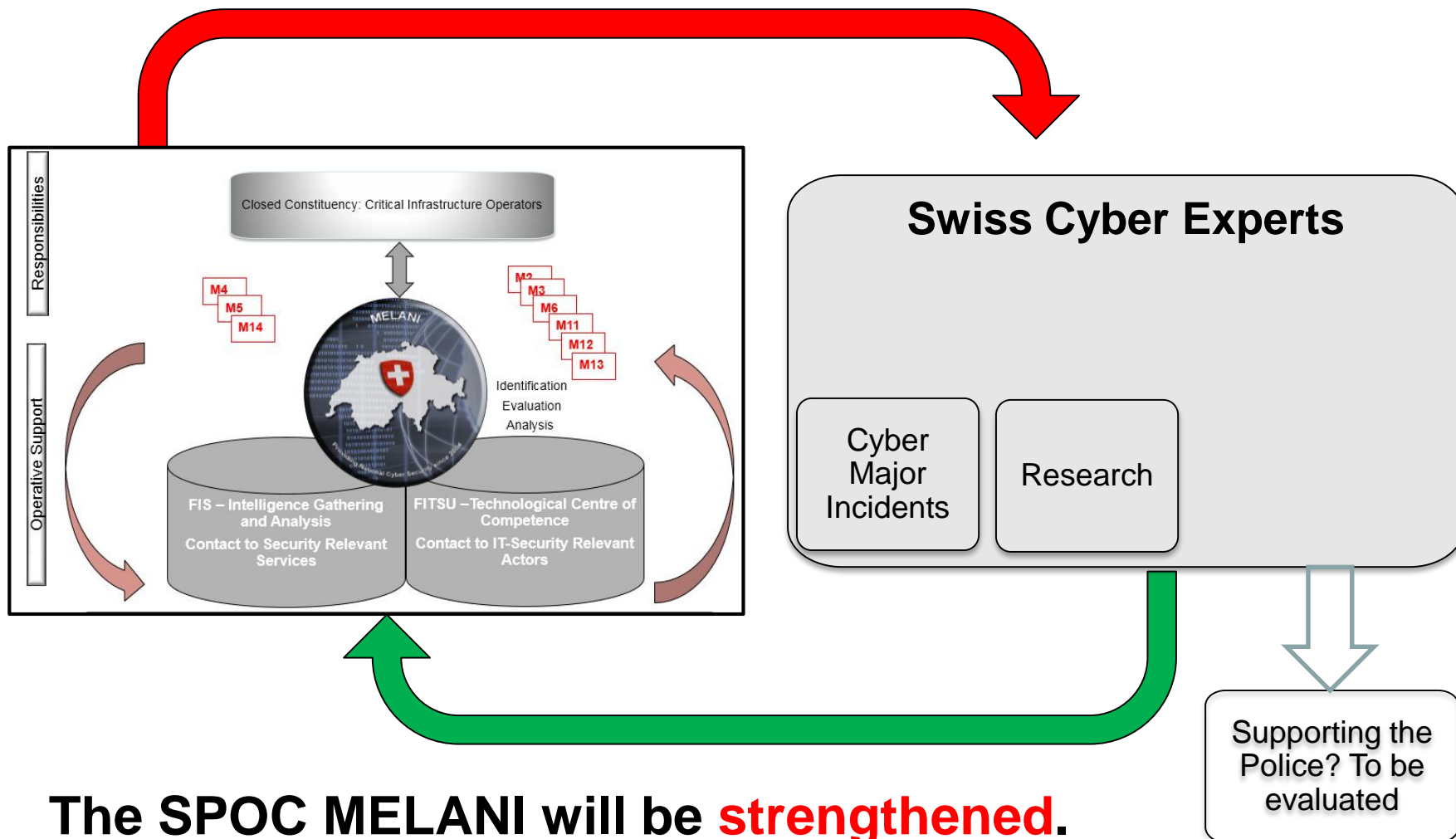
M5: Incident Handling

- Follow up and resolution of all relevant incidents
- MELANI's PPP model: collection, identification, evaluation, analysis and made available to all the relevant actors

M12: Continuity MGMT

- Public-Private cooperation and continuity management in order to improve resilience and disruptions to cyber incidents
- MELANI supports and strengthens the voluntary information exchange with CI operators in support of continuity and resilience based on individual self-help

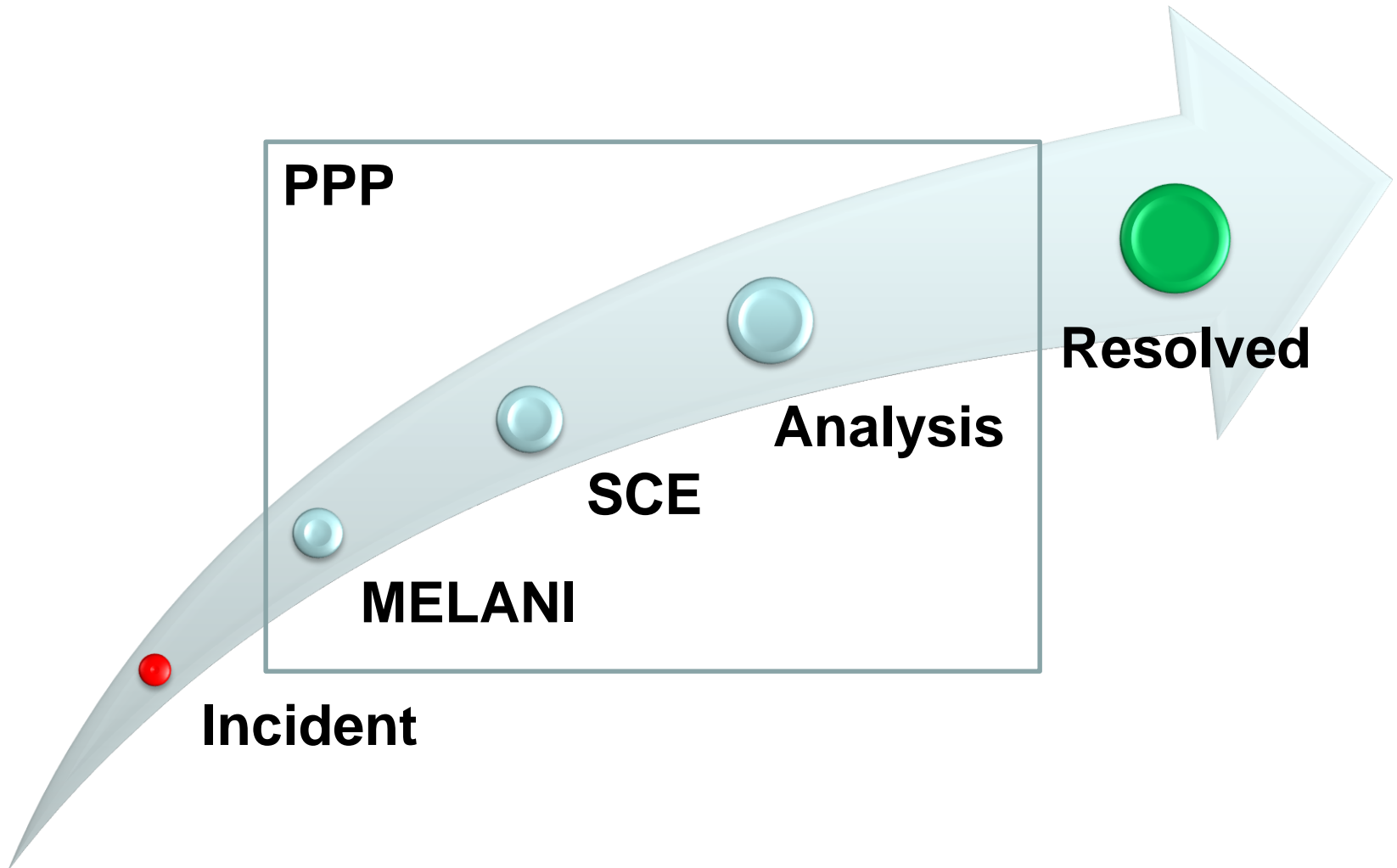
The new mechanism



The SPOC MELANI will be strengthened.



Process from Incident to Resolution





Thank You for Your Attention

Dr. Stefanie Frey
Coordinator National Cyber Strategy NCS

Reporting and Analysis Centre for Information
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Cybercrime und Cybersecurity -



**The necessity of a
Cyber Expert Pool for Switzerland**

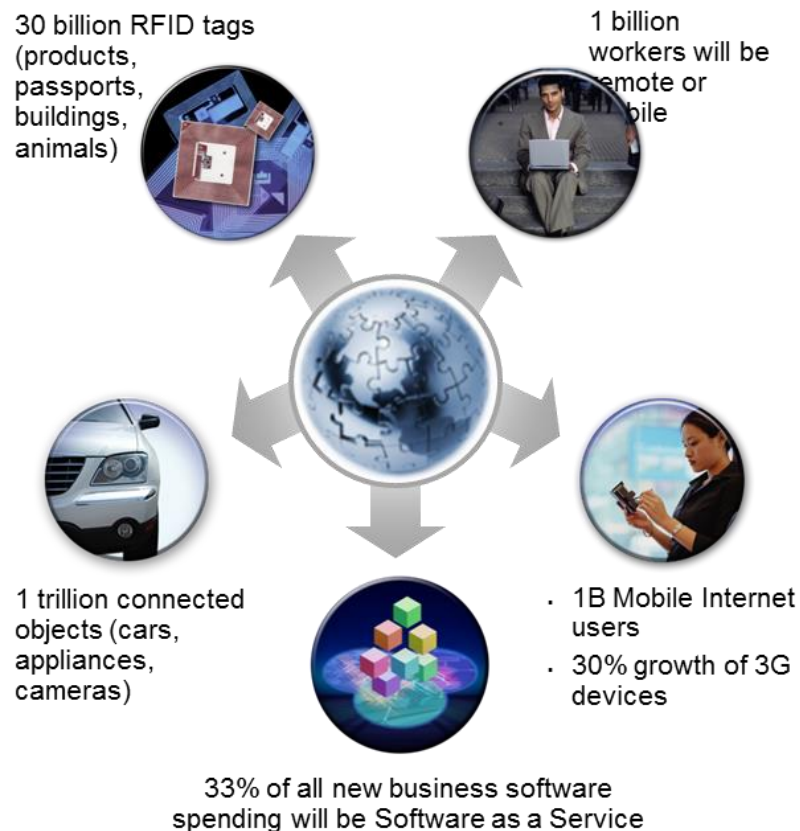


Scope: Security risk is increasing

Embracing New Technologies, Adopting New Business Models



Exploding and Interconnected Digital Universe





«Public» has to...

1. protect it's own infrastructure and services
2. Protect citizens, companies and – foremost – the critical infrastructures
3. Invest in this protection proactively





«Private» has to...

1. Understand future threats (F&E: centres and studies)
 - a. Publish potential threats and respective measurements
2. Collaborate (internationally)
3. Collaborate with public security authorities, justice & police, data protection

Given the general need for security and the dynamics of ICT, collaboration of «public» and «private» is an ethical, mutual duty – e.g. in the field of information and knowledge exchange.



Do we have to add something new?

1. Is there a **need** for support?

- Who's need is it? In which context? – 2012/13

2. What would be a **good solution**?

- Initial concept(s) – 2012/13
- Test: «Rheingold» – 2013
- Conclusion: The solution through a private Association and a collaboration contract will work best

3. **Formalising** Collaboration

- Founding the private association – 2014, done
- Negotiating the contract – 2014, ongoing



E.g.: Why did we join?





X-Force – the Base of the IBM Security Frameworks



The mission of X-Force is to:

- Monitor and evaluate the rapidly changing threat landscape
- Research new attack techniques and develop protection for tomorrow's security challenges
- Educate our customers and the general public





Collaborative IBM teams monitor and analyze the world

Coverage

20,000+ devices
under contract

3,700+ managed
clients worldwide

15B+ events
managed per day

133 monitored
countries (MSS)

1,000+ security
related patents



IBM Research

Depth

17B analyzed
web pages & images

40M spam &
phishing attacks

76K documented
vulnerabilities

Billions of intrusion
attempts daily

Millions of unique
malware samples



IBM X-Force Report 1Q 2014

More than **half a billion records**
of personally identifiable information (PII) were leaked in 2013

A historical look at security incidents by attack type, time and impact, 2011 to 2013

conjecture of relative breach impact is based on publicly disclosed information regarding leaked records and financial losses

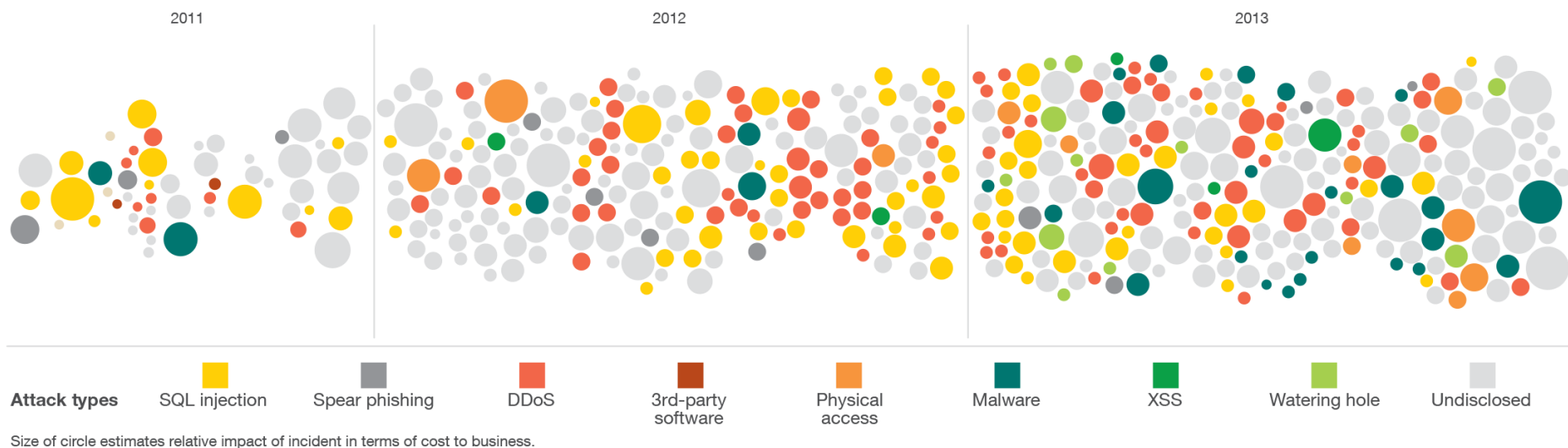


Figure 1. A historical look at security incidents by attack type, time and impact, 2011 to 2013



Government is one of the main targets

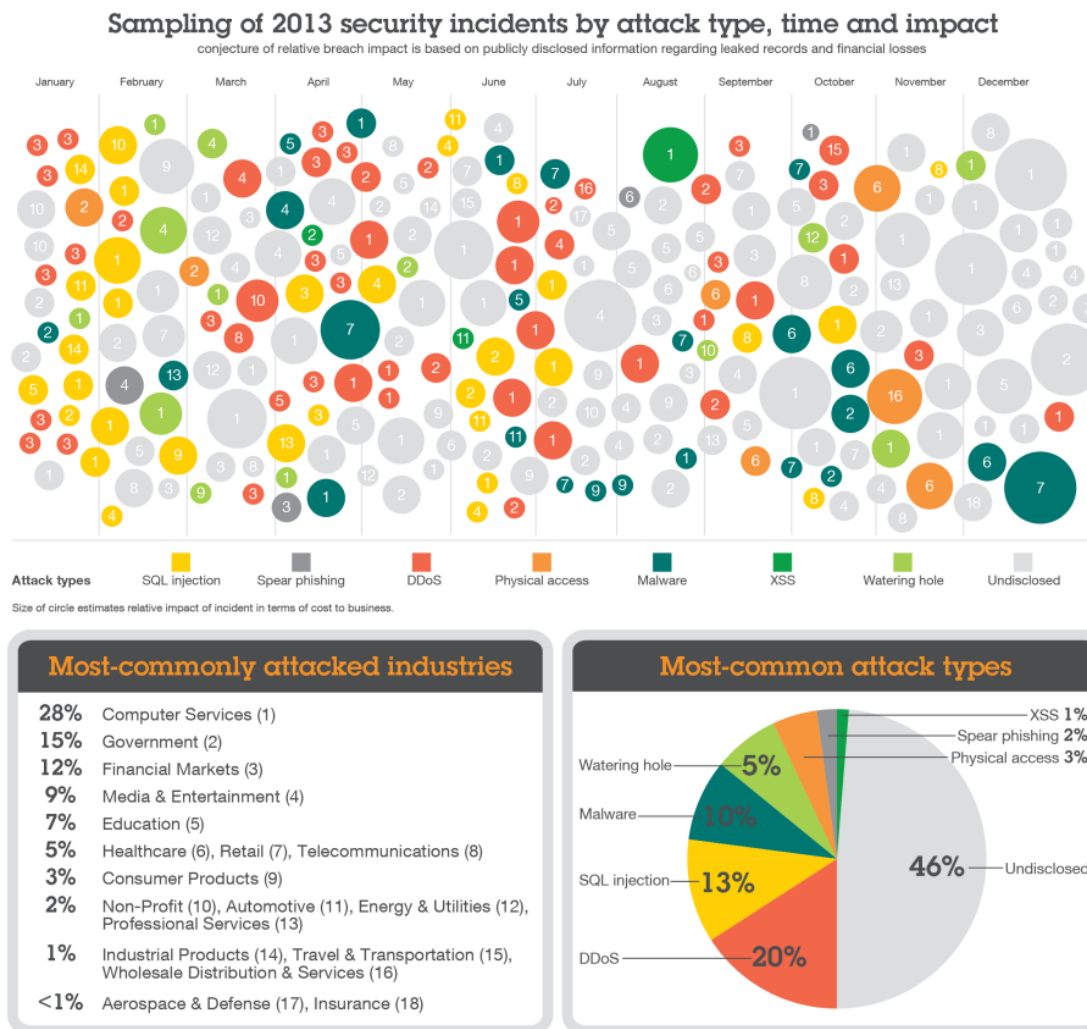


Figure 2a. Sampling of 2013 security incidents by attack type, time and impact



Swiss Cyber Experts (SCE)

The associations charter states – in German:

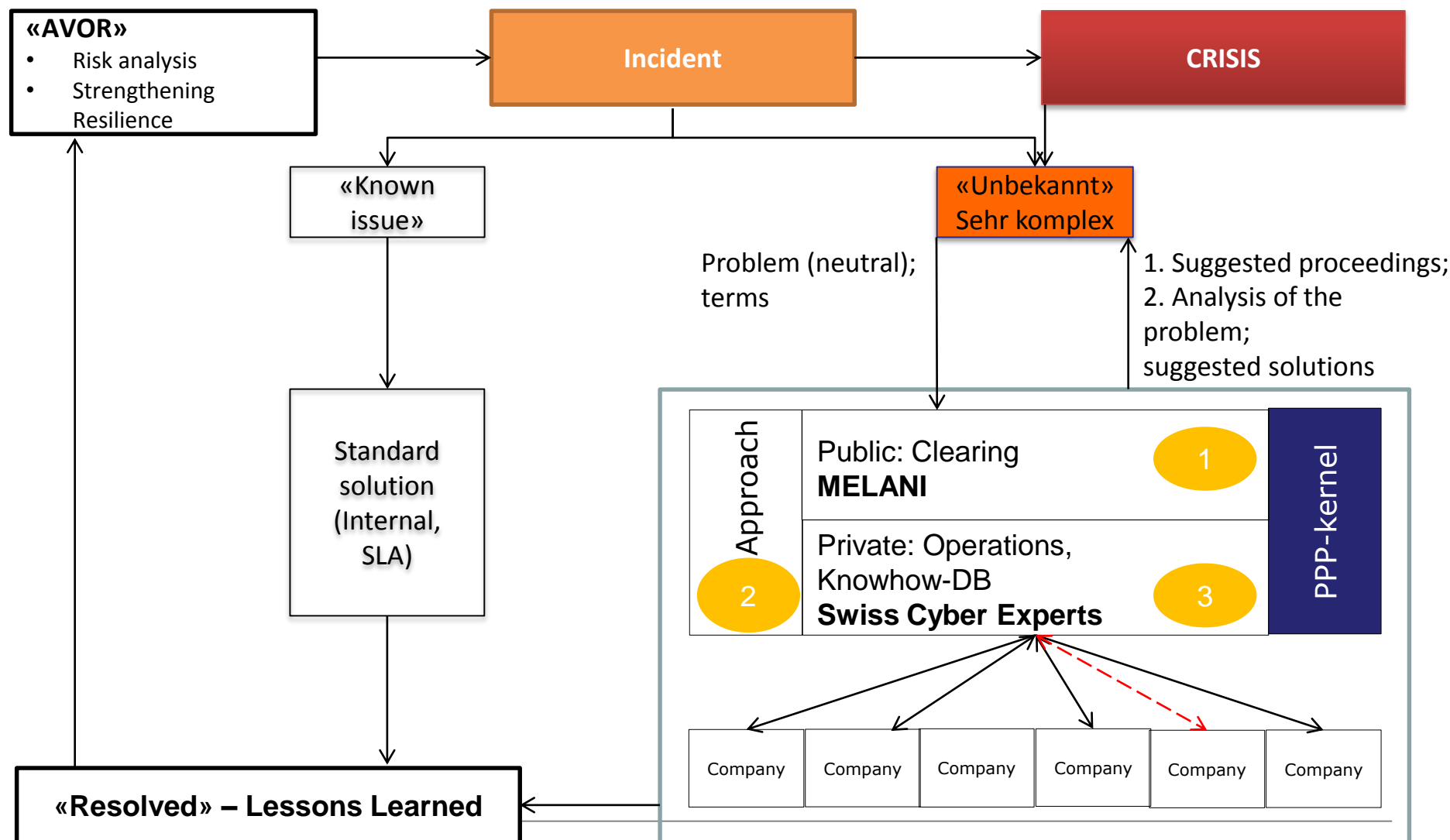
«Es geht darum, ein Mittel zu schaffen, **im Falle eines schweren Incidents auf effiziente Art auf Expertenwissen aus der ICT-Industrie zugreifen zu können**. Es ist das Anliegen der Vereinsmitglieder, schwere Cyber-Incidents schnell zu erkennen und so zu analysieren, dass sie von den vertraglich verpflichteten Firmen effektiv behoben werden können.

Der Verein steht Schweizer (Tochter-) Firmen offen, die Experten zum Pool beisteuern und damit substantielle Beiträge zur Beurteilung schwerer Cyber-Incidents leisten können.»

- In the case of a grave incident...
- private ICT-experts shall be accessible efficiently...
- to analyse the problem.
- The association is open to all companies that can contribute genuine expertise.

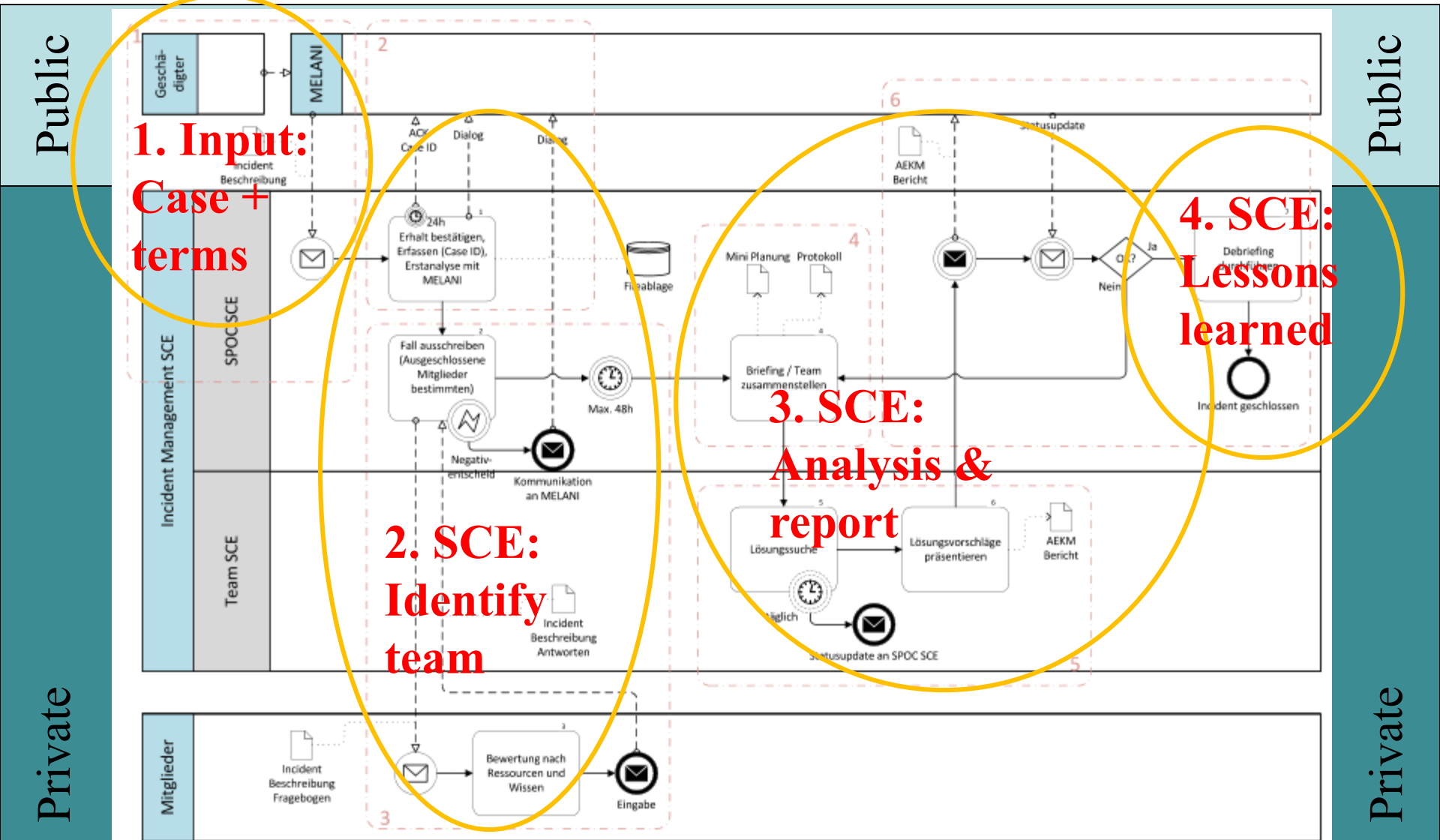


The process in detail





SCE-Processes





Terms:

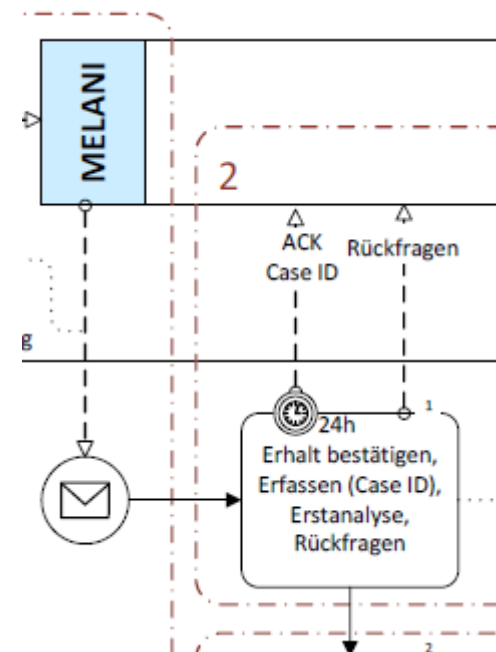
The victims information and decisions

1. Mission

- Description of the problem
- Urgency
- Desired processes (involvement of victim)
- Biggest risks
- Victims means that did not help

2. Confidentiality

- Secret / confidential / non critical
- Foreign experts allowed?
- Excluded companies
- Analysis on site required?
- Victim not to be disclosed by MELANI
- SCE-internal debriefing (for all members) allowed?





SCE-Members

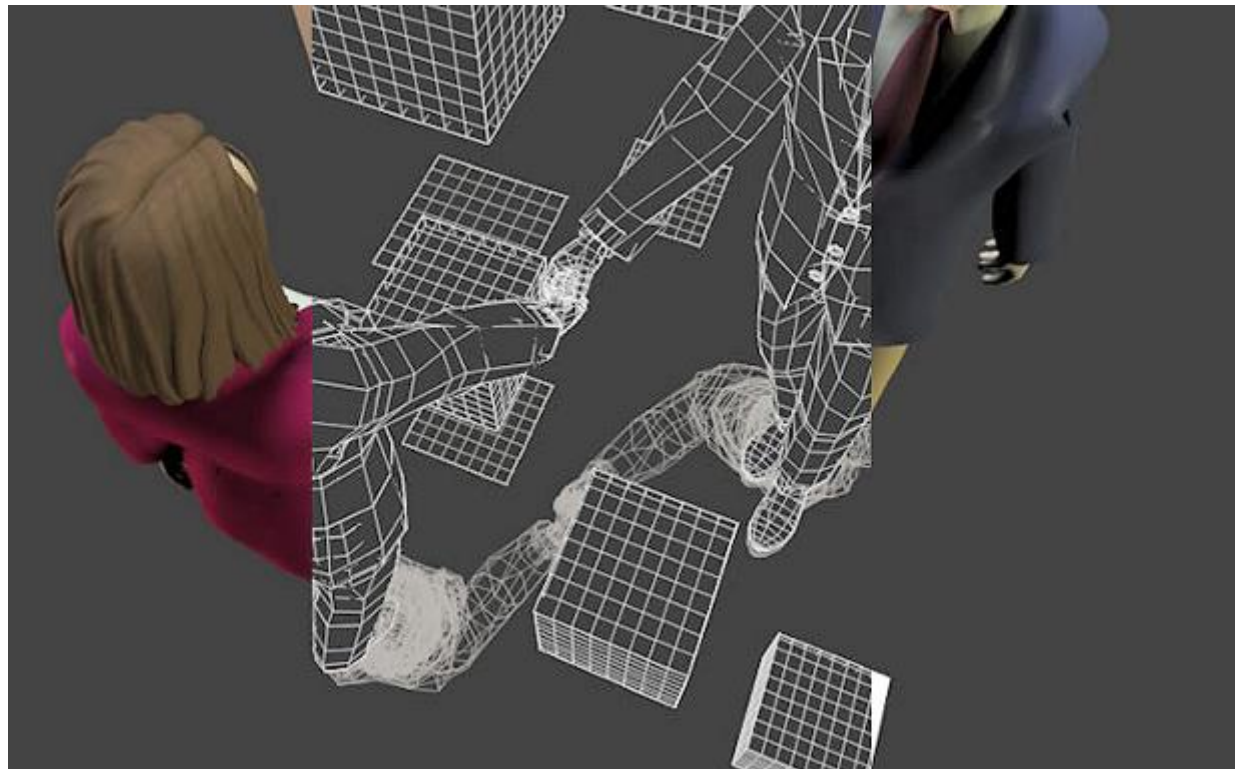
- **IBM Schweiz (President)**
- netnea.com (Vice-President)
- T-Systems Schweiz (Vice-President)

- e3 AG
- idQuantique
- InIT, ZHAW
- Koramis GmbH
- Kudelski Security
- PWC Schweiz
- RISIS, BFH
- RUAG
- Swiss Infosec

Status as per October 2014. Some members chose confidentiality.



Thank you for your attention



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