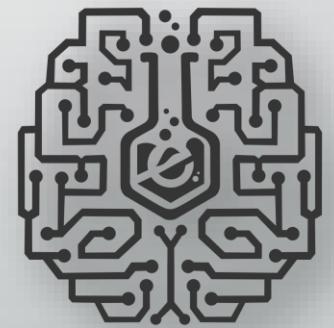


# MISP Threat Sharing - closing the gaps



eCrimeLabs

<https://www.ecrimelabs.com>



eCrimeLabs

[@DennisRand](#)

# Hvem er jeg

Startede med sikkerhed tilbage i 90'erne primært fokus på både offense og defense.

Arbejder ved JN Data med Incident Response og Threat Intelligence

Stifter af eCrimeLabs der har fokus på Hosting af MISP, Incident Response, Malware analyse, Threat Hunting og Threat Intelligence.

Contributor til MISP

<https://www.misp-project.org/contributors/>

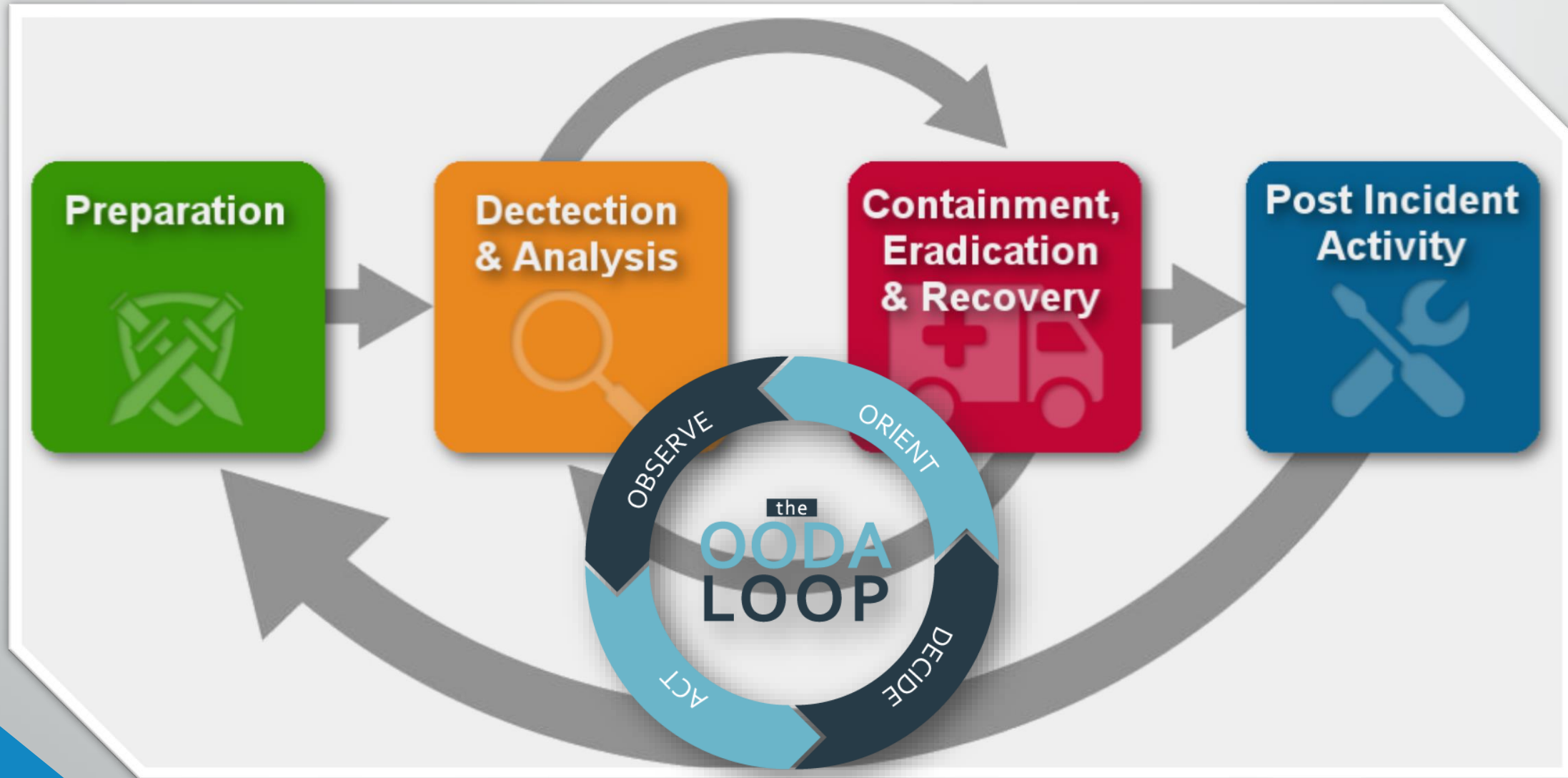


VERISIGN®

# Agenda

- Hvem er jeg
- Termer og definitioner
- Hvad er MISP og hvor kommer det fra
- MISP anvendelse ideer/muligheder

# Incident Life-cycle



# Threat definitions

There is often a definition misuse or misunderstanding when talking about Threat terms



## Threat Feed

A threat feed is a list of Indicators of Compromise (IOC). There are no context to this data besides the source and type. This data is distributed into security components such as Firewalls, IDS/IPS, End-point Detection and Response (EDR), SIEM, Log management, DNS etc.



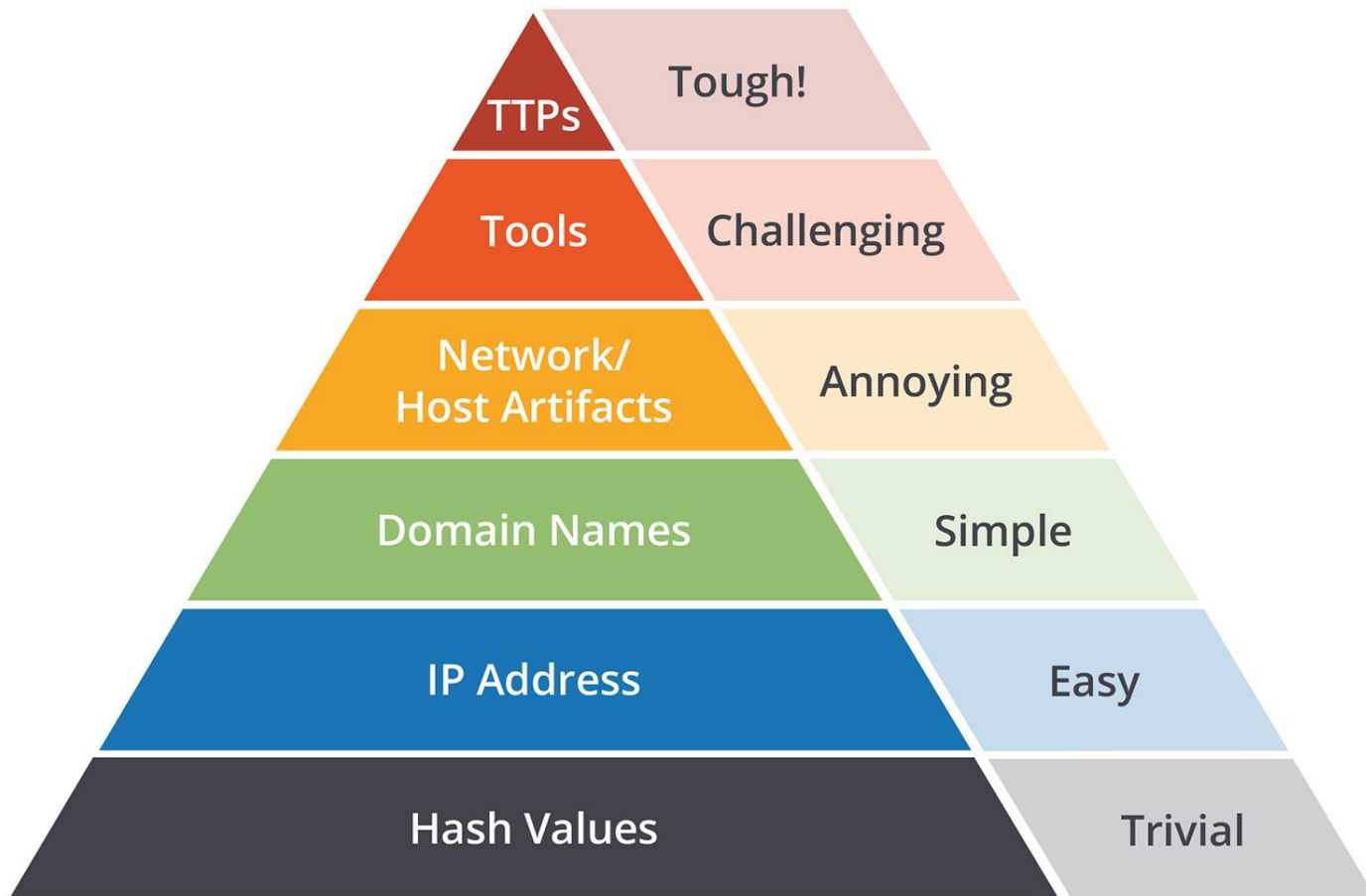
## Threat data

Threat data is the next stage where you will have technical and possible threat-actor context to IOC's allowing organizations to evaluate the threats they have identified or could be exposed to.



## Threat Intelligence

Threat intelligence is evidence-based knowledge, including context, mechanisms, indicators, implications and actionable advice, about an existing or emerging menace or hazard to assets that can be used to inform decisions regarding the subject's response.



Source: David J. Bianco, personal blog

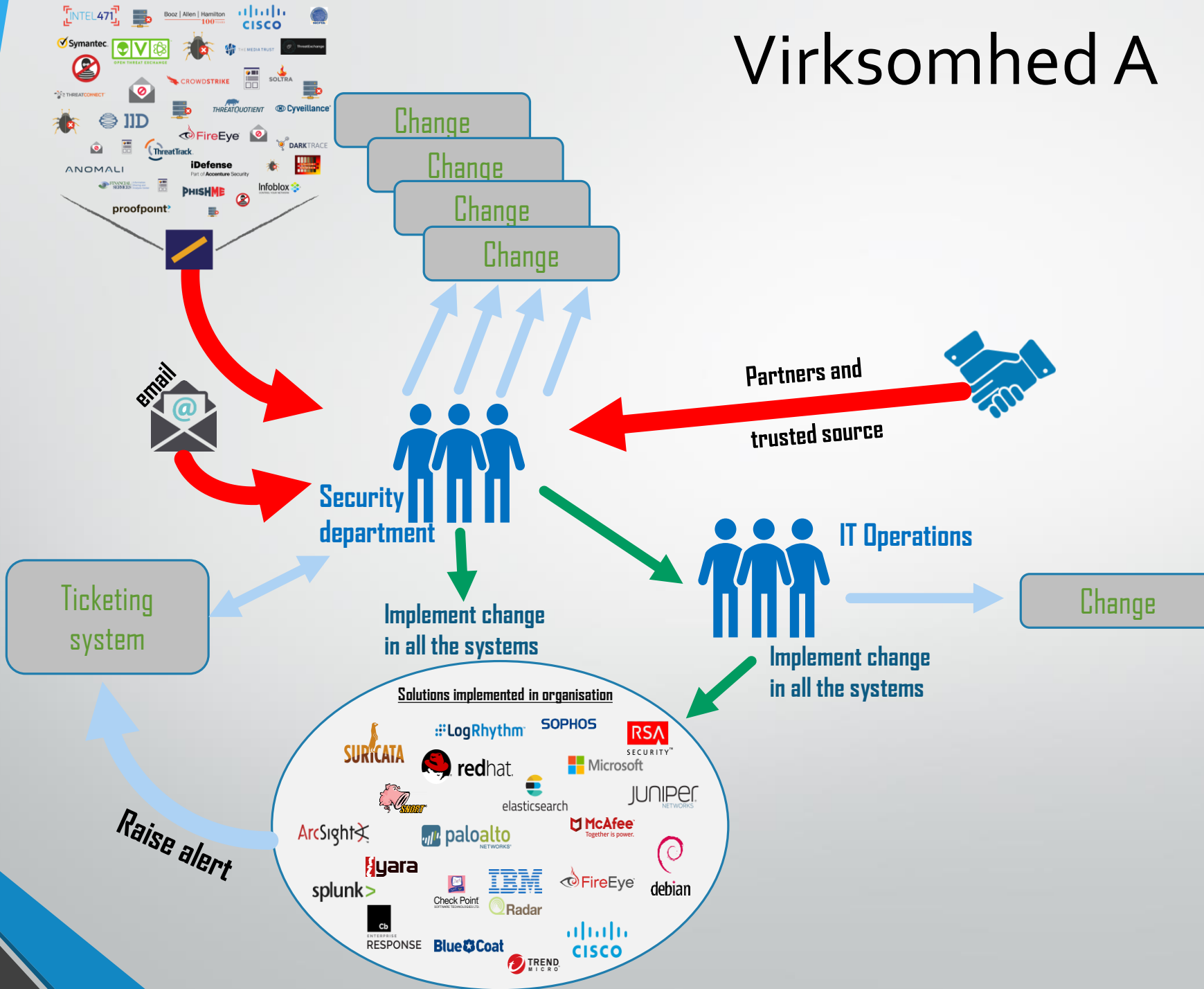
# Pyramid of Pain

Hvor komplekst er det for vore modstandere at ændre adfærd og signature både teknisk og psykologisk

**TTP → Techniques, Tools and Procedures**

<https://stixproject.github.io/documentation/concepts/ttp-vs-indicator/>

# Virksomhed A





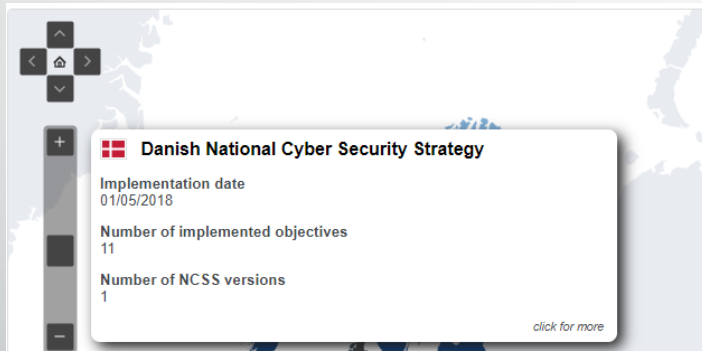
# MISP Threat Sharing Platform

En opsamlings platform for Threat baseret data

**Er defakto standard I forhold til threat sharing platform i EU**



**Co-financed by the European Union**  
Connecting Europe Facility



**CFCS** @Cybersikkerhed · Jan 15  
Telesektoren har som udløber af den nys offentliggjorte sektorstrategi iværksat et nyt initiativ med deling af informationer på en MISP. Vi gælder os til samarbejdet.  
#cybersikkerhed



**Danske teleleverandører skal dele oplysninger på n...**  
En ny platform skal give de danske telemyndigheder mulighed for at samarbejde om at stoppe hackere, der forsøger at lamme det danske telenet.  
computerworld.dk

■ EU Member States ■ EFTA Countries



<https://www.misp-project.org>



# Opslagsværk

- Find ud af noget mere omkring trussels aktører og malware familier.

Anvend denne viden til at træne dig og/eller din virksomhed

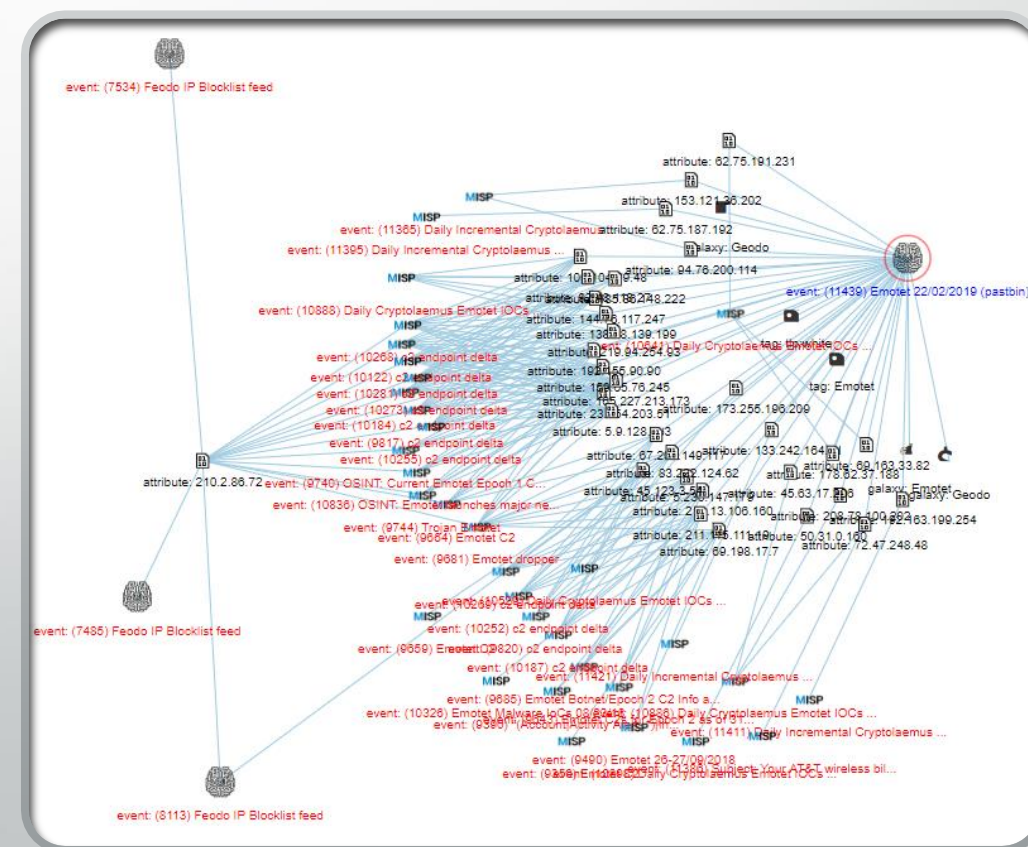
Sofacy	<b>APT 28</b> APT28 Pawn Storm Pawn Storm Fancy Bear Sednit SNAKEMACKEREL TzarTeam Tzar Team TG-4127 Group-4127 STRONTIUM TAG_0700 Swallowtail IRON TWILIGHT Group 74	32	The Sofacy Group (also known as APT28, Pawn Storm, Fancy Bear and Sednit) is a cyber espionage group believed to have ties to the Russian government. Likely operating since 2007, the group is known to target government, military, and security organizations. It has been characterized as an advanced persistent threat.	
Sowbug		0	Sowbug has been conducting highly targeted cyber attacks against organizations in South America and Southeast Asia and appears to be heavily focused on foreign policy institutions and diplomatic targets. Sowbug has been seen mounting classic espionage attacks by stealing documents from the organizations it infiltrates.	
Spicy Panda		0		
Stalker Panda		0	The group appears to have close ties to the Chinese National University of Defense and Technology, which is possibly linked to the PLA. Stalker Panda has been observed conducting targeted attacks against Japan, Taiwan, Hong Kong, and the United States. The attacks appear to be centered on political, media, and engineering sectors. The group appears to have been active since around 2010 and they maintain and upgrade their tools regularly.	
Stealth Falcon	FruityArmor	0	This threat actor targets civil society groups and Emirati journalists, activists, and dissidents.	
Stone Panda	APT10 APT 10 MenuPass Menupass Team happyyongzi POTASSIUM DustStorm Red Apollo CVNX HOGFISH Cloud Hopper Stone Panda	3		



- Email
- PDF rapporter
- Websider
- M.v.

- Hvordan kan man sikre at data/viden ikke går tabt ved nye medarbejdere eller over tid

## Hvordan laver man kryds koorelation af data



# Crowdsourcing og sikker deling

- Vi er stærkere sammen
  - Et målrettet angreb ses ikke af sikkerhedsvirksomheder, men hvad med virksomheder i same branche, område, land, m.v.
  - Løses alt dette med MISP - NEJ



# MISP Sharing Model

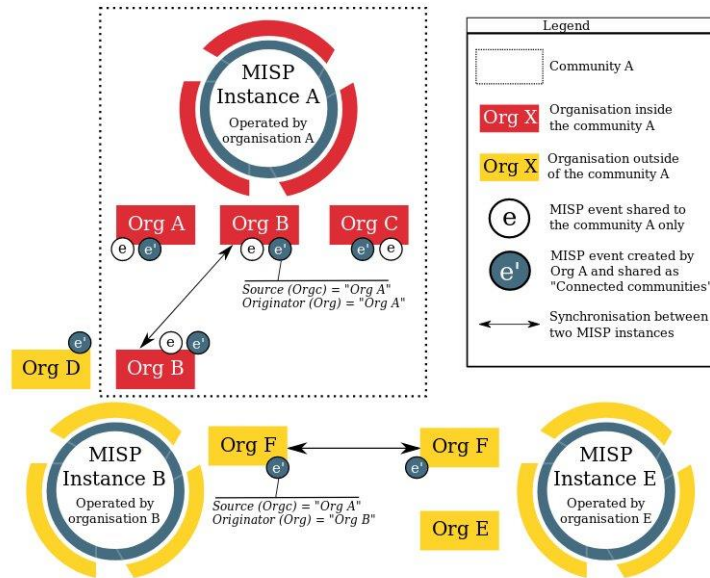


FIGURE 1: Illustration of MISP organisations and community interactions

The concept presented in the figure above can be explained and match with key concepts of the ISO/IEC 27010:2015 standard as described in the table below.

ISO/IEC  
27010:2015 key

MISP data model representing the concepts

Related  
definition in  
ISO/IEC

## Edit Event

Date

2018-10-02

Distribution *i*

Your organisation only

Your organisation only

This community only

Connected communities

All communities

Threat Level *i*

Low

Event Info

eCrimeLabs Threat API

## Edit Attribute

Extends event

Event UUID or ID. Leave

Category *i*

Network activity

Type *i*

ip-src

Distribution *i*

Inherit event

Your organisation only

This community only

Connected communities

All communities

Inherit event

# Threat data vs Vulnerability management

*"Anvend dit threat data til at hjælpe med prioritering af sårbarheder"*

## Metasploit exploits with CVE assigned feed

Event ID	1350
UUID	5c6eea3c-fe10-43d3-902b-237d9742046f
Creator org	eCrimeLabs
Owner org	eCrimeLabs
Email	tip@ecrimelabs.net
Tags	
Date	2019-02-21
Threat Level	Undefined
Analysis	Completed
Distribution	Your organisation only
Info	Metasploit exploits with CVE assigned feed
Published	Yes (2019-02-22 06:10:07)
#Attributes	1777
First recorded change	2019-02-21 18:13:16
Last change	2019-02-21 18:13:16
Modification map	
Sightings	0 (0) - restricted to own organisation only.

## Related Events

2018-09-09 (846) 2018-09-06 (1283) 2018-08-08 (21) 2018-08-01 (213)  
2018-07-25 (1065) 2018-07-25 (1225) 2018-05-15 (175)  
2018-01-31 (35) 2018-01-25 (1084) 2018-01-16 (864) 2017-12-04 (60)  
2017-11-27 (1159) 2017-10-05 (1070) 2017-09-28 (163)  
2017-06-20 (97) 2017-04-11 (500) 2017-03-31 (140) 2016-12-16 (1061)  
2016-11-17 (644) 2016-11-07 (326) 2016-08-25 (1121)  
2016-08-17 (1105) 2016-04-28 (377) 2016-04-22 (298)  
2016-04-18 (968) 2016-01-12 (195) 2015-12-28 (476) 2015-09-28 (652)  
2015-09-18 (353) 2015-08-24 (88) 2015-08-21 (742) 2015-08-10 (923)  
2015-08-05 (349) 2015-06-30 (247) 2015-06-15 (236)  
2015-06-11 (150) 2015-03-10 (662) 2015-01-11 (151) 2014-11-21 (115)  
2014-11-13 (340) 2014-11-12 (1154) 2014-10-30 (1074)  
2014-10-23 (429) 2014-10-09 (739) 2013-02-08 (568) 2012-04-16 (929)

<input type="checkbox"/>	2018-05-15	Payload delivery	sha1	0d3f335ccca4575593054446f5f219eba6cd93fe	
<input type="checkbox"/>	2018-05-15	Payload delivery	sha1	c82cfead292eeca601d3cf82c8c5340cb579d1c6	
<input type="checkbox"/>	2018-05-15	Payload installation	vulnerability	CVE-2018-8120	<a href="#">misp-galaxy:mitre-enterprise-attack-attack-pattern="Exploitation of Vulnerability - T1068"</a>
<input type="checkbox"/>	2018-05-15	Payload delivery	vulnerability	CVE-2018-4990	<a href="#">misp-galaxy:mitre-enterprise-attack-attack-pattern="Exploitation of Vulnerability - T1068"</a>
<input type="checkbox"/>	2018-05-15	External analysis	text	<p>Late in March 2018, ESET researchers identified an interesting malicious PDF sample. A closer look revealed that the sample exploits two previously unknown vulnerabilities: a remote-code execution vulnerability in Adobe Reader and a privilege escalation vulnerability in Microsoft Windows.</p> <p>The use of the combined vulnerabilities is extremely powerful, as it allows an attacker to execute arbitrary code with the highest possible privileges on the vulnerable target, and with only the most minimal of user interaction. AP T groups regularly use such combinations to perform their attacks, such as in the Sednit campaign from last year.</p> <p>Once the PDF sample was discovered, ESET contacted and worked together with the Microsoft Security Response Center, Windows Defender ATP research team, and Adobe Product Security Incident Response Team as they fixed these bugs.</p>	
<input type="checkbox"/>	2018-05-15	External analysis	link	<a href="https://www.welivesecurity.com/2018/05/15/tale-two-zero-days/">https://www.welivesecurity.com/2018/05/15/tale-two-zero-days/</a>	

<http://metasploit.evilmcorp.dk/metasploit-cve.txt>

```
1 #!/bin/bash
2 set -x
3
4 cd /opt/metasploit-framework
5 git pull
6 grep -h -I -oP '(CVE-[[[:digit:]]{1,4}-[[[:digit:]]{1,6}])' -R * | sort | uniq > /var/www/html/metasploit-cve.txt
```



# Integrer MISP ind i dine sikkerheds komponenter

MISP har et åbent API, med mulighed for at trække det data ud du ønsker at anvende, og derved operationaliserer dine threat data.

- Blokering
- Alarmering





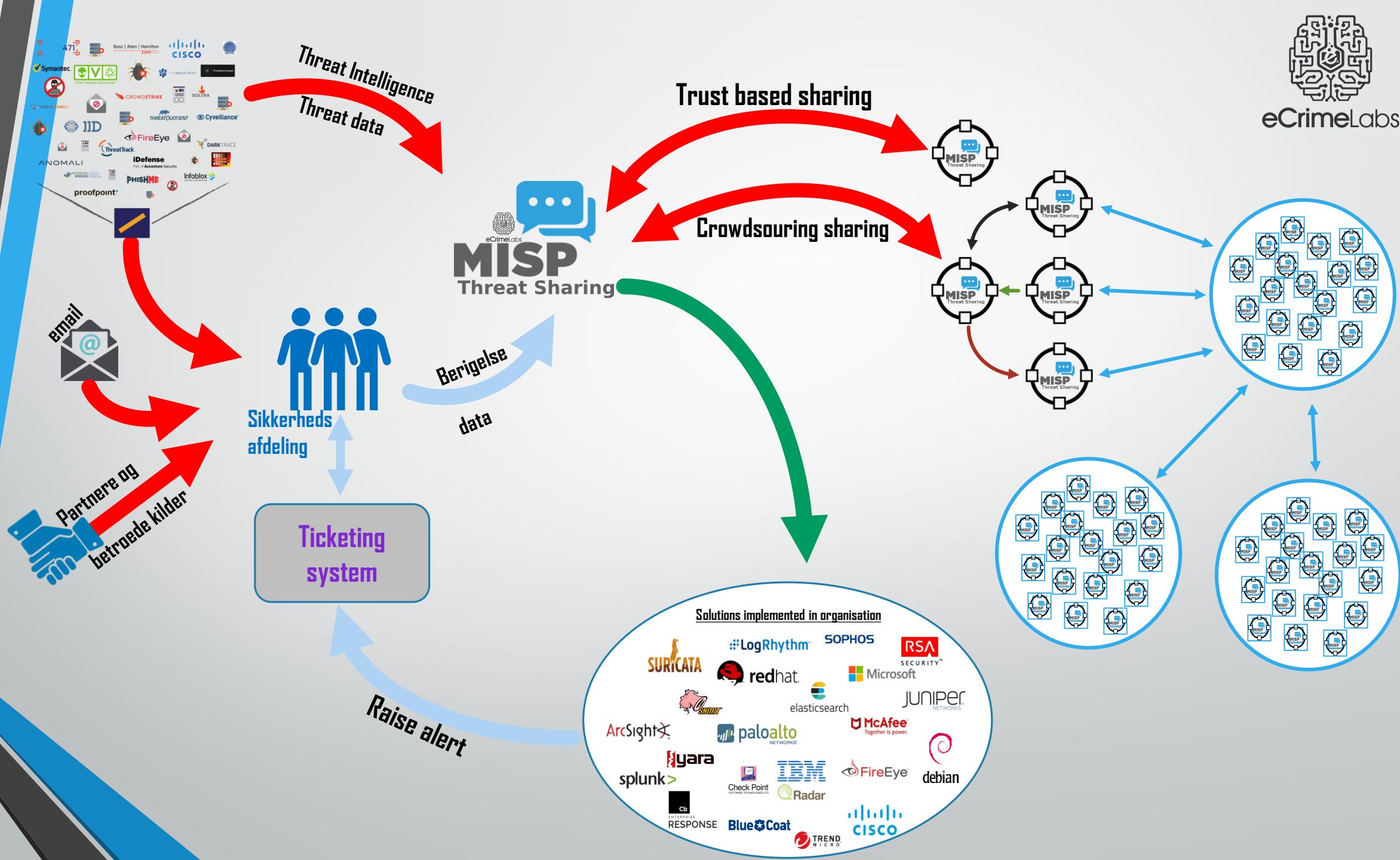
eCrime Labs

## The Incident Response Hierarchy of Needs

The Incident Response Hierarchy is modeled after [Maslow's Hierarchy of Needs](#). It describes the capabilities that organizations must build to defend their business assets. Bottom capabilities are prerequisites for successful execution of the capabilities above them:







# Demo og spørgsmål



# Links

- MISP Training Module 1 - An Introduction to Cybersecurity Information Sharing (<https://www.youtube.com/watch?v=aM7czPsQyal>)
- MISP Training Module 2 - General usage of MISP (<https://www.youtube.com/watch?v=Jqp8CVHtNVk>)
- MISP Summit 2017 TheHive and MISP by Saâd Kadhi (<https://www.youtube.com/watch?v=gndwirwgmFw>)
- MISP Summit 2018: Cruising Ocean Threat Without Sinking Using TheHive, Cortex & MISP - Saâd Kadhi (<https://www.youtube.com/watch?v=IDCcLjvSW1Y>)
- MISP Documentation (<https://www.misp-project.org/documentation/>)
- Support portal for MISP (<https://gitter.im/MISP/Support>)

