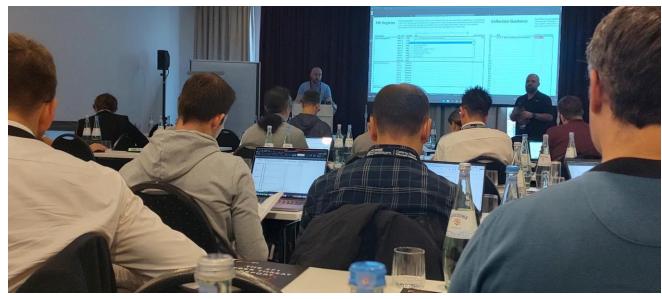
Foresight analysis: The magic eight ball of intelligence analysis

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FIRST CTI, Berlin - November, 2023



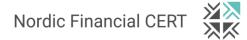


IRM for Cyber Michael, Garret and Freddy

Establishing PIRs in Cyber Ondra and Vladimir



How to Align CTI and Risk Jamie, John, and Grace





- Freddy M, Senior Advisor Threat Intelligence @ NFCERT
 - Focus on the operational level
 - Support strategic and tactical Level
- Intelligence in the Norwegian Army

>Education

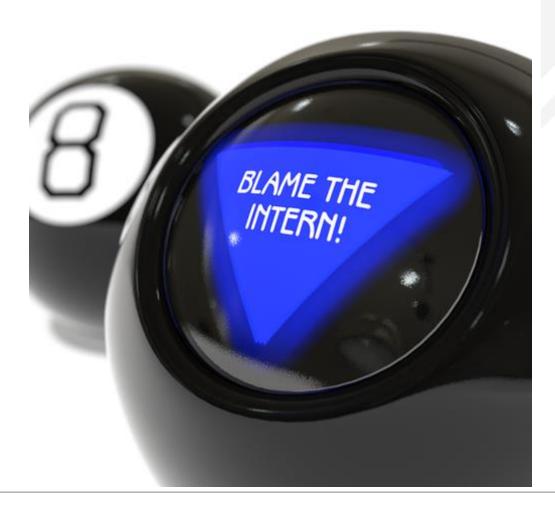
- BA in Marketing
- MA in Counter Terrorism
- MA in Intelligence







- > Introducing the Problem
- > The start of a Solution
- > The Experiment
- > The Next Steps



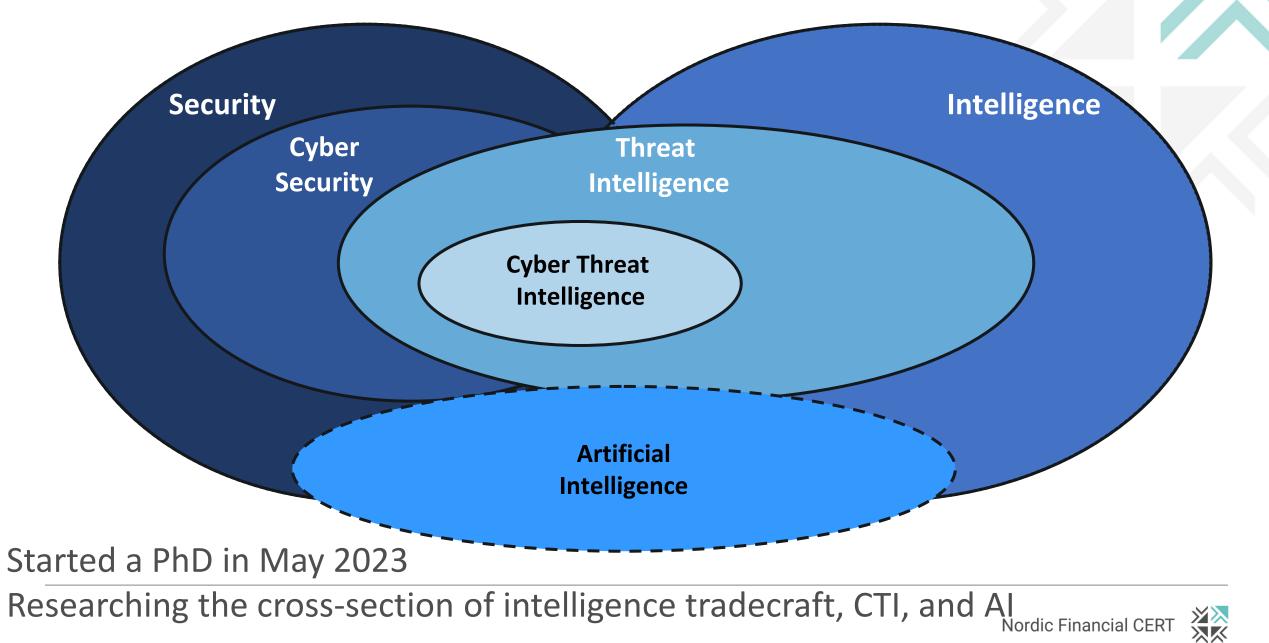


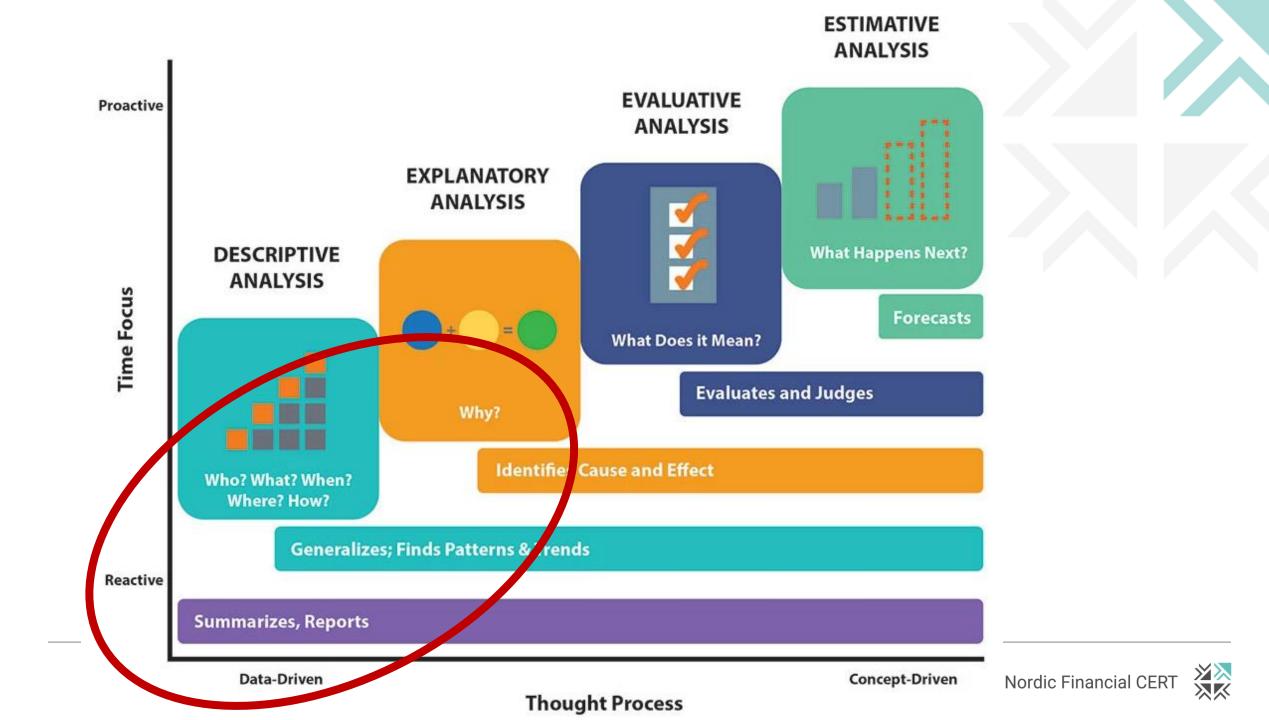
The "Problem"

Talking Intelligence to CTI folks



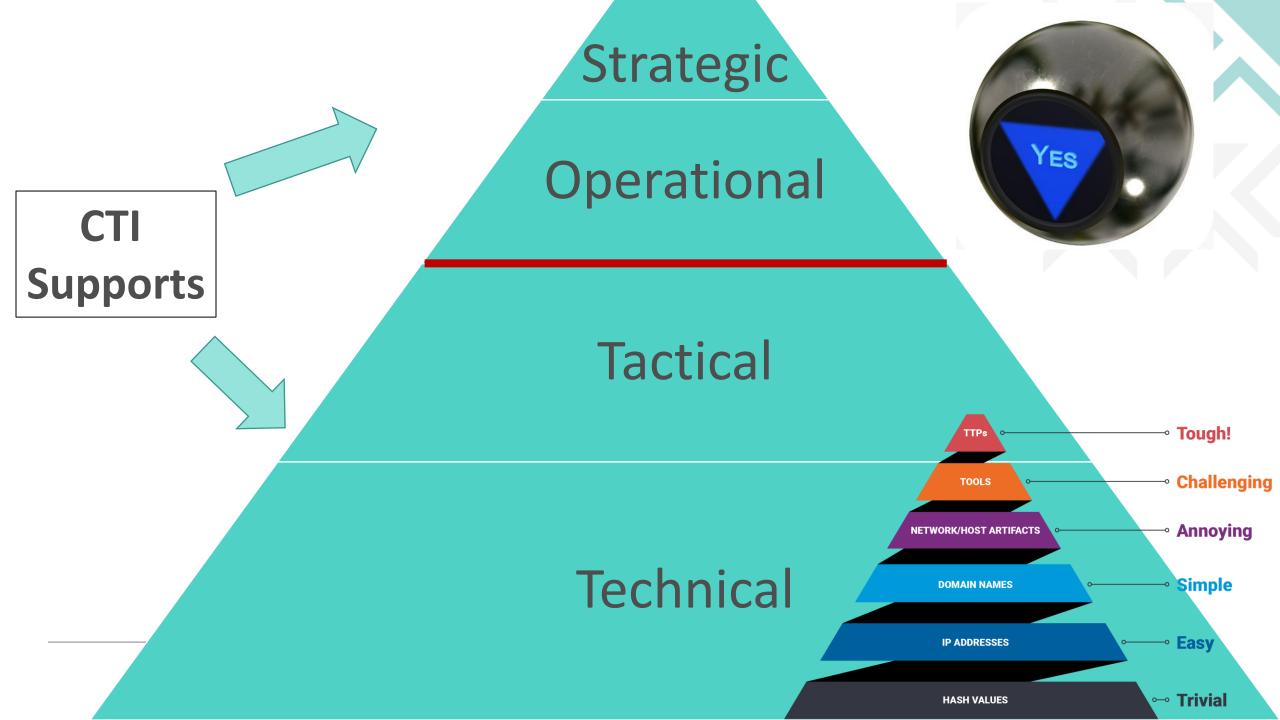












The environment we work in has changed

- Increase in number & complexity of questions from the rest of the org, often from "higher up"
 - Completely different questions and focus
 - Money and risk versus malware analysis, data logs, and DDoS
- Focus on
 - The Org \rightarrow Future risks
 - CTI → What the threat landscape will look like tomorrow

- Not knowing how to do foresight analysis
 - Support future decisions
- > Risk and costs drives decisions

Conclusion

> CTI need to be able to support in futures analysis and assessments



The Start of a Solution

Collaborative CTI Groups

> Nordic \rightarrow NFCERT-TIC

- Threat Intelligence Committee
- > Norway \rightarrow TIC/TAC-NO
 - Threat Intelligence Committee AND
 Threat Analysis Committee

> Denmark→ TIC/TAC-DK

Threat Intelligence Committee AND
 Threat Analysis Committee



The Goals of **TIC**

- Already got Tactical and Technical levels covered
- Increase focus on operational and strategic Threat Intelligence (TI)
- Share knowledge, approaches, solutions, and "best practices"
- Seamless CTI collaboration on incidents, across countries and sectors



The Goals of TAC

- Learn about analytical tools, methodology, vocabulary, and approach
- Sharing their experiences (good and bad)
- > Taking new skills back to the organisation



TIC-TAC

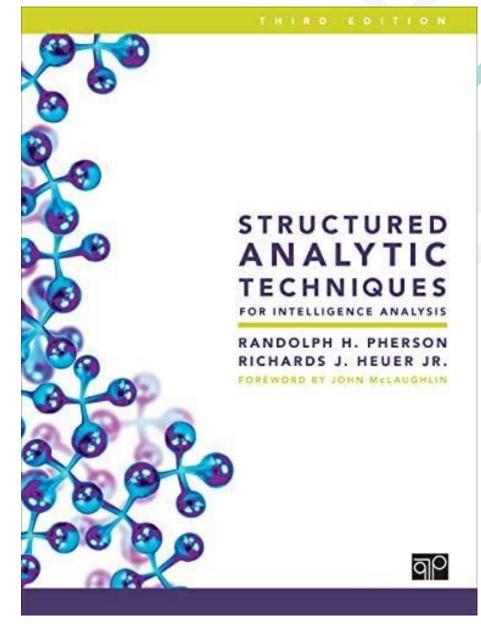
- > 20+ member in each country
- > Seasoned CTI professionals
- > Cross-sectorial
- > Meet several times a year
 - Mostly physical meetings
- Dedicated time for TIC and TAC subjects

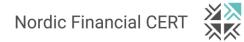
- Cannot waste time getting everyone up to speed during an incidents
- > How can we be more prepared for what may hit us?
- > Chosen focus:
 - Structured Analytic Techniques (SATs)
- > End Goal:
 - Foresight Analysis



Key Benefits of using SATs

- > Externalise your thinking
- > Identifying and Reducing Bias
- > Reduce analytical errors
- Solving complex problems collaboratively
- > Our biases, the problem, and the goal suggests the techniques to use
- > The more we do them, the faster it will go







– Your true colours shining through

KEY CHARACTERISTICS



Information is made to fit into an existing conceptual framework Initial, incorrect perceptions persist even after better information is available



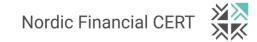
Highly resistant to change





We don't see new patterns emerging

We ignore or dismiss outlier data as noise



The Experiment

SATs and Intelligence tradecraft training

Teaching

- > Intelligence analysis
- > Critical thinking
- > Structured Analytical **Techniques (SAT)**
- Disseminating finished intelligence
- to the wider cyber security community





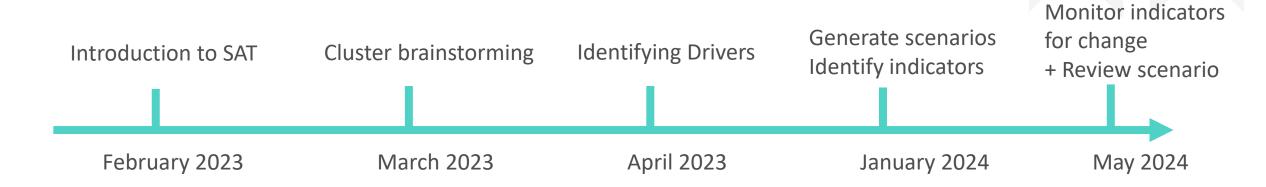
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Spend time to save time

I DON'T ALWAYS HAVE TIME TO SPARE

SAT for foresight analysis

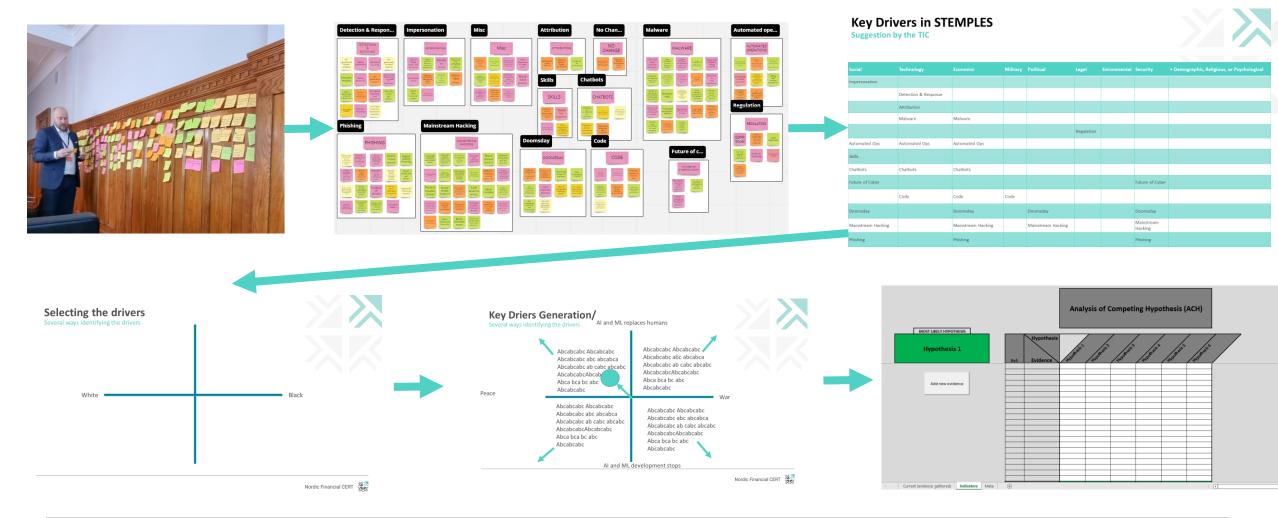
Timeline





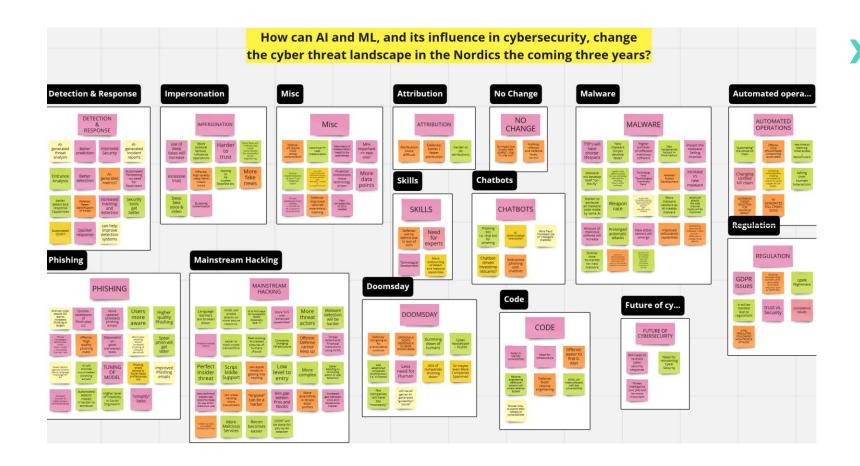
SATs & foresight analysis

How can AI and ML, and its influence in cybersecurity, change the Nordic financial sector's threat landscape the coming three years?





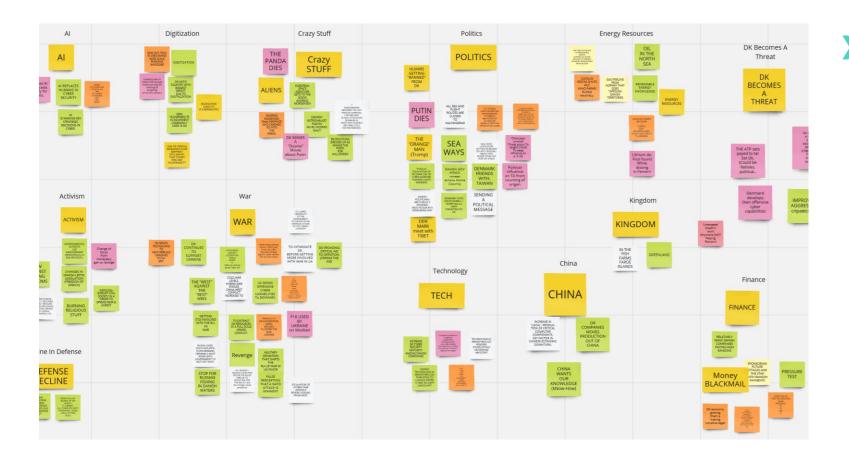
TIC-TAC-NO - Foresight Project



> Research Question: How can AI and ML, and its influence in cybersecurity, change the cyber threat landscape in the Nordics the coming three years?



TIC-TAC-DK - Foresight Project



> Research Question: What would cause advanced threat actors to shift focus from "untargeted" ransomware attacks to targeting DK's critical infrastructure and its supply chain?



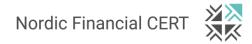
NFCERT TIC - Foresight Project



> Research Question:

If the Russia-Ukraine war stops tomorrow/near future (conflict continues), how will this change the cyber threat landscape in the Nordics?

> Underlying reasoning for all TIC/TACs How do we prepare and budget for the future?



SATs & foresight analysis

Output \rightarrow *Value*





Results, so far

- Identified individual, team, organizational and vendors Biases
- > Experience with a selection of SATs
- > Critical thinking
- > Daring to challenge prevailing views
- > Reducing Bias
- > Testing foresight analysis to enhance reports and communication

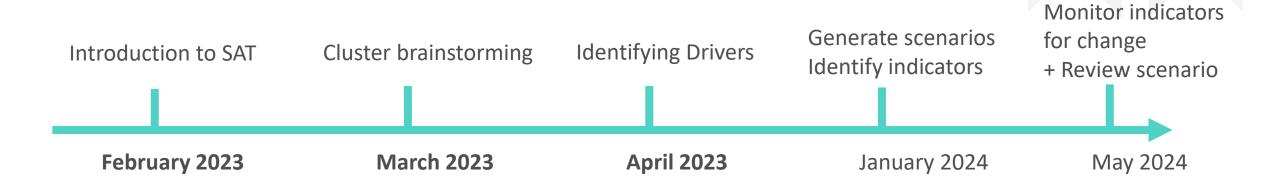
MAIN Goal

- Ensure the CTI function provides value beyond tactical & technical support
- = get more funding, or at the very minimum, keep existing funding

The Next Steps

SAT for foresight analysis

Timeline





Foresight analysis and the Magic Eight Ball

- Forecast
- Foresight
- > Futures Analysis
- > Tea Leaves
- > Fortune Telling
- Guesstimates

NOT a truth teller

> Support Assessments + Confidence





Support or Collaborate?

> GitHub: errum



