



Why Threat Modeling is much more than just threat hunting

#OWASP Event
10.05.2022 , Miljan Lalic



Disclaimer

Everything shared is my own opinion and does not necessarily reflect the opinion of Swisscom.



Agenda

1. What is Threat Modeling & Why?
 1. with everyday examples & with an explanation of why...
2. SAFe & Threat Modeling?
3. Creating business value through threat modeling?
4. A typical workshop





«

***People would rather
let themselves be
ruined by praise than
improved by criticism!***

»

By George Bernard Shaw





What is Threat Modeling & Why?

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with everyday examples



What is Threat Modeling & Why?

What is Threat Modeling?

- Threat modeling is a structured approach that allows security risks to be identified and addressed.



Why Threat Modeling?

- It helps to find possible business risk and to act accordingly. At the same time, it increases employee collaboration and helps with knowledge transfer.



Threat Modeling & fortress?

- **Architecture otherwise costly**
- **Tunneling under?**
 - **Positioning?**
 - **Monitoring?**
- **Battering ram?**
 - **Brute force/gate?**
- **Siege?**
 - **DoS?**
- **Corruption/Insider Attack?**

Why Threat Modeling is much more than just threat hunting





Threat Modeling & mountain road?

- **Example in the operational phase**
- **is our speed adapted to the environment?**
- **do we have the necessary equipment with us?**



Threat Modeling & car?

- Example in design phase
- Maybe a different car?



- We would consider snow chains
- Snow tire



Threat Modeling & rain?



- Threat weather
- vulnerability (clothes)
- Risk = getting wet
- Every one of us does this consciously or unconsciously.
- if each of us does it in private life, then it can't be wrong to do it in the business environment as well.



SAFe & Threat Modeling

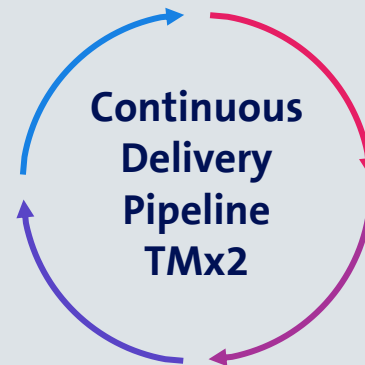
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SAFe & Threat Modeling

Continuous Exploration

- Threat model is listed under Architect the solution
- Information security considerations should start early.



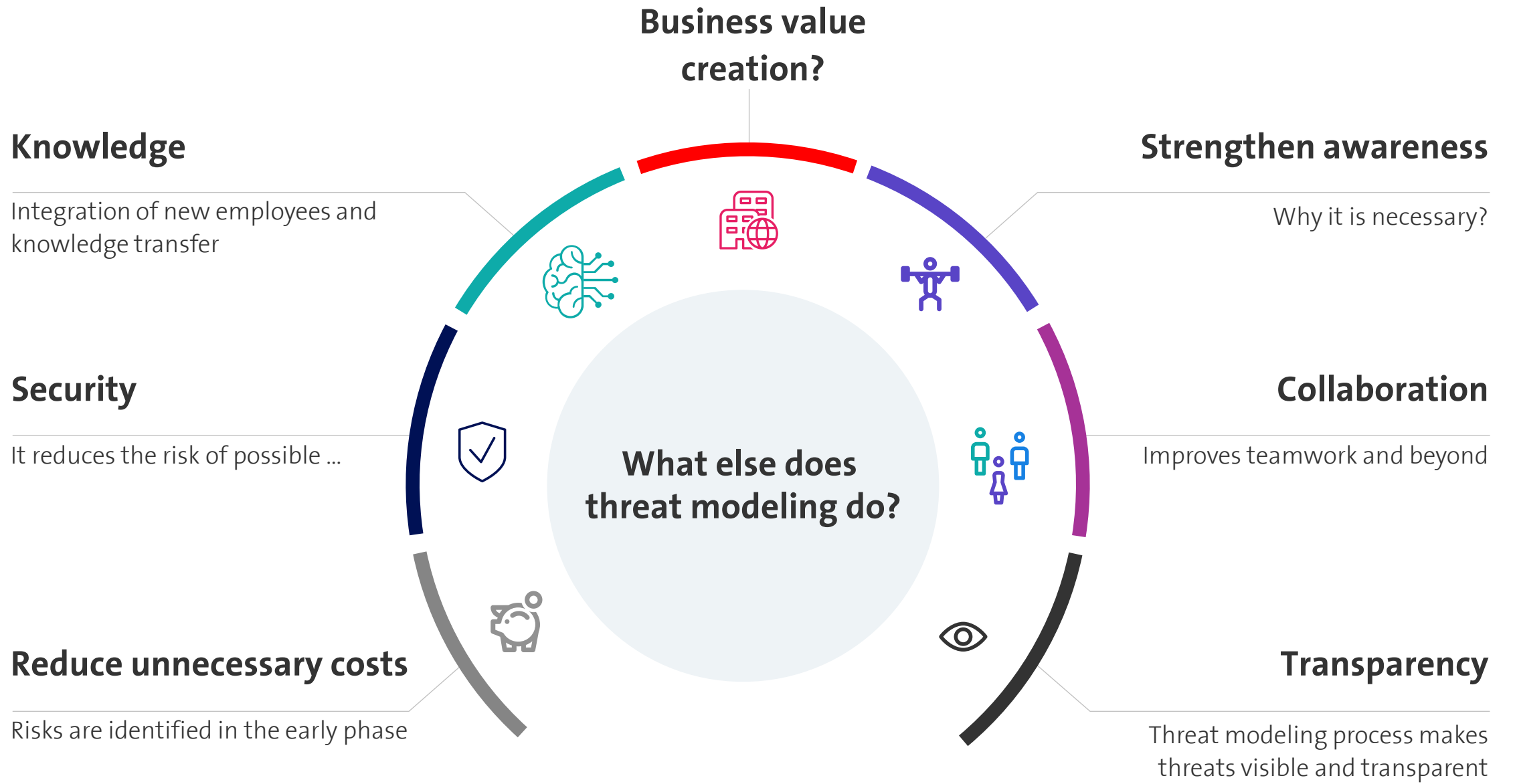
Continuous Integration

- Threat model is listed under Develop the Solution
- When designing the system, attention is paid to possible weak implementations



Creating business value through threat modeling?

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Reduce unnecessary costs

Risks are identified in the early phase

Countermeasures can be planned more efficiently

Delay due to critical findings in the audit

Reduce potential compensation payments





Security

It reduces the risk of possible service disruptions

and/or reputational damage as a result of data breach

Data breach can have legal consequences





Knowledge

Integration of new employees and knowledge transfer

Improve skills





Strengthen awareness

Usually, the understanding of why security is important is significantly higher after this workshop

And the commitment



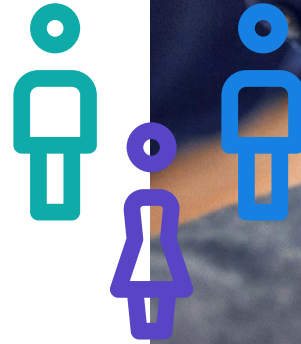


Collaboration

Improves teamwork and beyond

Safe base leadership

if a central security organization exists in your company, it renews or strengthens the collaboration.





Transparency

Threat modeling process makes threats visible and transparent – but always respect the need-to-know principle

Put the fish on the table by George Kohlrieser

A wise man once told me: *When you point your finger at other people, three fingers point back at you...*





A typical workshop

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A typical workshop

Why Threat Modeling is much more than just threat hunting

1

- Online max 10 participants 1.5 – 2 days (live system)
- * preferred is on site because better interaction
- Coaching and enable critical thinking
- Each trust boundary is managed by a different participant

2

Intro Threat Modeling and why we are doing this

Convey the meaning cargo cult by Richard Feynman

Threat Modeling methodology theory & show the current threat situation based on current events

The application hurdle is kept low and the focus is on the output

3

- Moderation & task sharing
- Understand why to write "Sorry" on the Whiteboard





Closing words

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Closing words



**Stagnation is the
beginning of the
end! (Sokrates)**



