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# **TIBER** Planning bank robberies in the 21<sup>st</sup> century







\$whoami Introduction What is TIBER? A bit of background and context Anatomy of a test: Planning bank robberies in the 21<sup>st</sup> century TIBER and you: Why TIBER may be relevant for your organization

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#### **Brage Celius**

- Team Lead Offensive Security
- 4 years in Orange
- 6 years a hacker
- 7 years a consultant
- BSc Information Security NTNU Gjøvik ++
- Experience with TIBER



## **Current Landscape**

- Critical infrastructure provided by private companies
- Highly interconnected
- Individual security strategies
- Weakest link can break the whole chain
- Attractive target for cyber attacks

#### What is TIBER?

- Threat Intelligence Based Ethical Red-teaming
- Published in May 2018 by European Central bank (ECB) & national banks of EU countries
- Enables knowledge sharing, comparison and approval of RT tests across borders Adopted in Belgium, Denmark, Finland, Germany, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Romania, Spain and Sweden – ECB expect more countries to follow suit TIBER-NO: Contribute to financial stability by increasing resilience against cyber attacks for the Norwegian financial system

#### Anatomy of a TIBER test

#### National Central Bank (Norges Bank)



#### Financial institution (Customer)



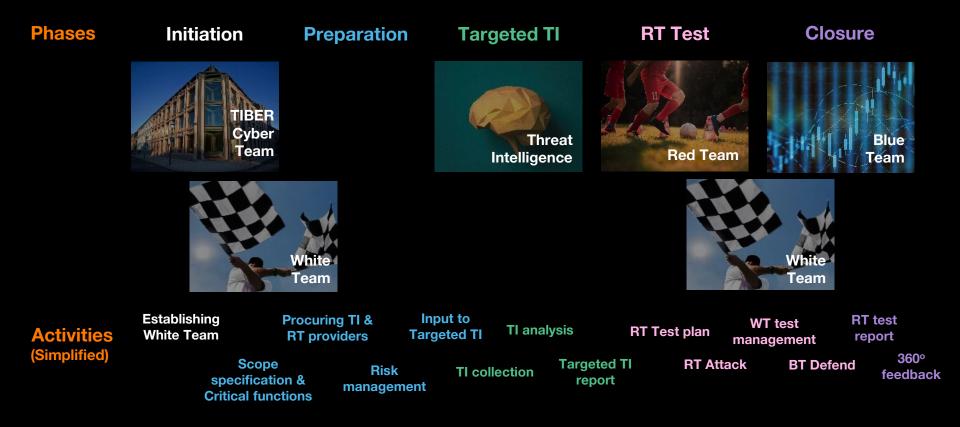


# Cyber security vendors





### Anatomy of a TIBER test



#### **TIBER** and you

Wide recognition by the highest national authorities
Framework is well suited for

Critical infrastructure – public and private sector
Multinational companies
Vendors with TI and RT expertise – at scale

The "gold standard" of security testing in the finance sector

Other sectors are encouraged to follow
Critical functions – energy, healthcare, transportation, production +++



Build a safer digital society