# CYBER-EXE POLSKA 2013

### Lessons learnt for CERT-s?







# The "CYBER EXERCISES" trend



- European and worldwide trend in organising "Cyber Exercises"
  - Cyber Europe 2010/2012/2014 / ENISA
  - Cyber-Storm / US
  - Waking Shark 2 / UK
- A continuation of the cycle which started in 2012
- Cyber-EXE Poland 2012 was dadicated for the CIIP sector





# Cyber-EXE Polska 2012 – CIIP sector





# Two editions of the Cyber-EXE Polska exercises



- Cyber-EXE Polska 2012:
  - Gaz-System SA / PSE Operator
  - Government Centre for Security
  - Ministry of Defense / Police
  - Military University of Technology / Wroclaw University of Technology
  - CERT Orange Poland
- Cyber-EXE Polska 2013: banking sector in Poland
  - Commercial banks (from top10)
  - Anonymous participation based on the banks' decision (same like in Cyber Europe 2012)



### Organiser

CYBERSECURITY FOUNDATION



# Organising Partners

- DELOITTE POLAND
- POLISH GOVERNMENT CENTRE FOR SECURITY

# Deloitte.



# Supporting Partners

- MINISTRY OF FINANCE
- NATIONAL BANK OF POLAND
- POLISH FINANCIAL SUPERVISORY AUTHORITY
- POLISH BANKS ASSOCIATION



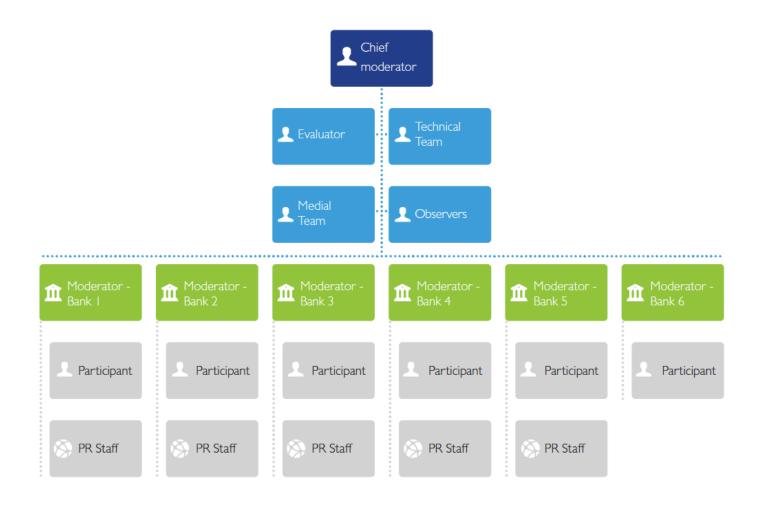






# Organisational structure



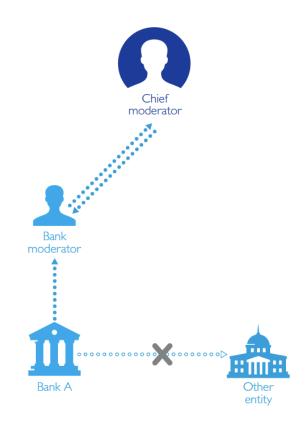




## **BANK TO BANK**

# moderator Bank Bank moderator moderator Bank A Bank B

# **BANK TO OTHERS**



# The exercises objectives

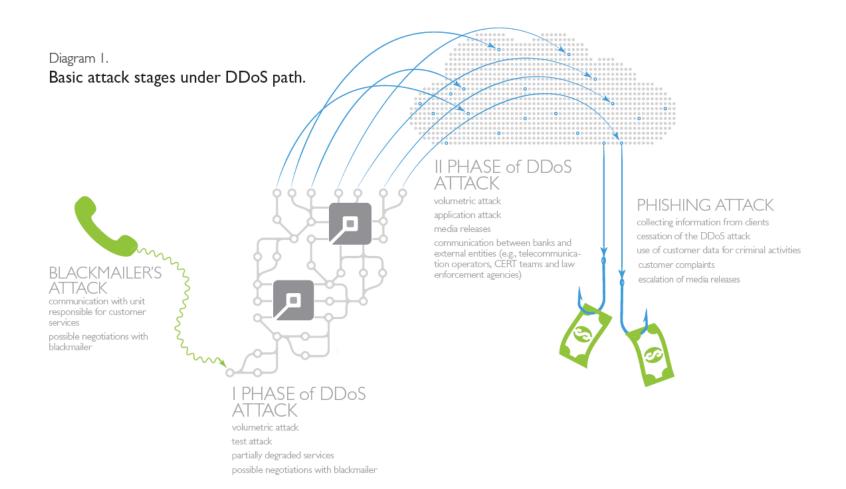


- Checking the organisations' cyber attack emergency repsonse procedures
- Identification of interdependencies among banks, regulators and othere entities whithin the financial sector
- Checking communication among banks, regulators and other entites whitin the financial marketwego



# **DDoS** ATTACK SCENARIO



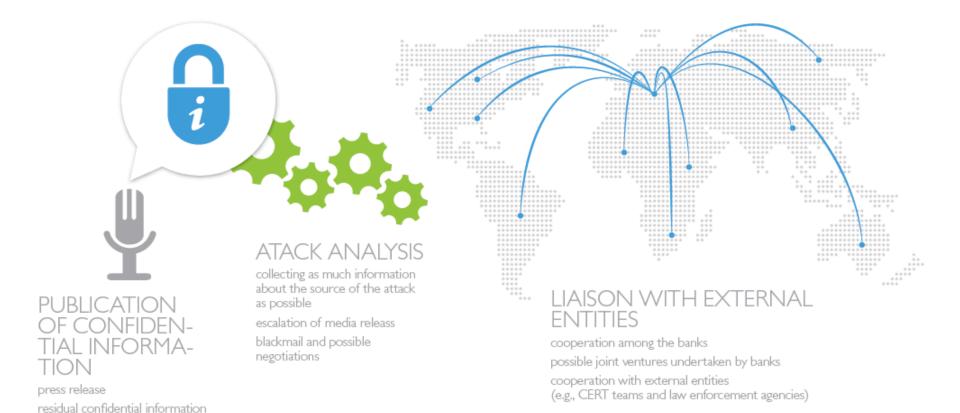


# **APT ATTACK SCENARIO**

blackmail and possible

negotiations





# Conclusions and recommendations



- For implementing whitin banks
  - Organisational
  - Related to an external communication
- Fro implementing in the whole sector





# Conclusions and recommendations for BANKS



#### **Conclusions:**

 To know procedures is not enough

- There is a big dependency on external partners and organisations
  - Telecoms
  - LEAs, CERTs

#### Recommendations:

- Aquiring up-to-date knowladge
- Basic trainings for all bank employees
- Advanced security training for key personnel
- Building relationships and cooperation during "peace" (Si vis pacem para bellum)
- Improving skills regarding blackmailing negotiations

# Conclusions in regards to external communication



#### **Conclusions:**

- Prompt reaction to public news and customers' "publications"
- Good coordintation between internal PR team and crisis management unit
- Dalayed reaction to "individual approach by jurnalists – ("talking points")

# Single acting by banks when the crisis wahs in the wole project

#### Recommendations:

 Faster reaction to crisis situations based on often exercises and trainings

 Cooperation with peers in other banks in case of crisis situation



# Conclusions and recommendations for BANKING SECTOR

### CONCLUSIONS



- Cooperation between banks in case of crisis situation is limited only to the basic information level
- There is a limited coordination of operational activities in both areas – technical and public relations. There was no common information issued to all ebanking customers even when the crisis was in the whole sector.



## **WNIOSKI**



- 75% of responders (survey after the exercises) believe there is no a significant influence of common actions on the higher probability of crisis neutralization. Banks believe especially that there is no added value in cooperation in case of DDoS attacks
- There is very rare communication with the whole sector. If there is the information exchange it is only on the bank-tobank level

### **WNIOSKI**



- There is the information exchange platform for Polish banks, operated by Polish Banks Association. Not all banks used it during the crisis information.
- There was no communication between banks and Polish Financial Supervisory Authority during the crisis situation
  - The exercises gave the chance to clarify that the Authority does not expect this communication during the crisis situation but only after it.



### **WNIOSKI**



- Not all banks have formal rules and procedures of communication with external parties
  - Other banks
  - Internet Service Providers
  - CERTs
  - LEAs

 There is big dependency of e-banking services availability on ISP services

## RECOMMENDATIONS



- There is need for better cooperation between banks in case of sector wide crisis situation, especially banks need:
  - Rules for effective exchange of the operational information (logs, other relevant data)
  - Rules for operational help during crisis situation as well as areas of responsibilities
  - Establishing stable continuous cooperation between banks
  - Rules for reporting security incidents between banks as well as to the financial and state authorities.

## **CERT Role**



- Very important in the banking incident response procedure
  - The banking sector mature regarding requesting for CERT services
  - Governmental CERT, commercial CERT services
- Operationaly involved in crisis management
  - DDoS support
  - Malware analysis
  - Other technical support
- The real check needs involvment of teams

# It's Hard Work but It's Worth It!







# CONTACT

Mirosław Maj

Cybersecurity Foundation e-mail: miroslaw.maj@cybsecurity.org

Maciej Pyznar Senior Specialist

Government Centre for Security e-mail: maciej.pyznar@rcb.gov.pp

Cezary Piekarski Senior Specialist

Deloitte Poland E-mail: cpiekarski@deloitteCE.com