



NCSC TNO CYBER RESILIENCE RESEARCH PROGRAM

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MOTIVATION





Crisis Management Resilience

2. Risk Management –2.3 Supply chain risk





ICT RECOVERY CAPABILITY EXPLAINED WITH AN EXAMPLE OF DATALOSS

How can we best prepare ourselves for potential dataloss in the future? Was our recovery sufficient or Prepare do we need to improve process, Evaluate for future execution skills, or technology? recovery Recovery-inprogress Who will do what, when, and how, with what mandate, to recover the lost data?







ICT RECOVERY CAPABILITY

Vision

Growing complexity of digital infrastructures, more advanced cyber attacks → prevention is not always possible anymore

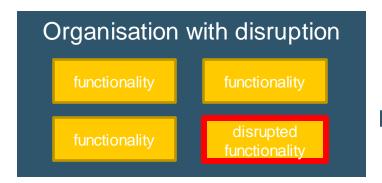
Alternative for prevention → resilient and adaptive recovery capabilities

Cooperation is a successfactor for recovery capability \rightarrow in particular for large-scale, catastrophic incidents with (inter)national impact

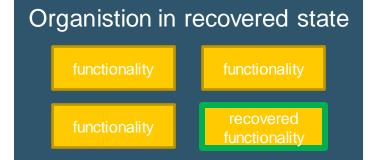


ICT RECOVERY CAPABILITY – A DEFINITION

- Focus on functionality provided by ICT
- Efficient and effective actions
- Complementary to preventive capabilities



Efficient and effective





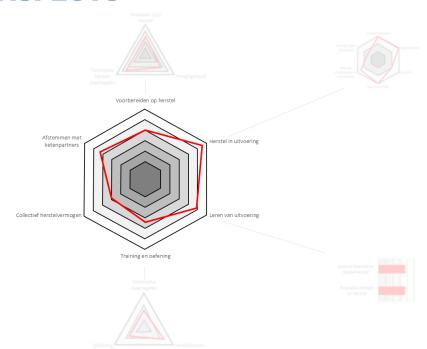
ICT RECOVERY CAPABILITY DECOMPOSITION INTO IMPORTANT ASPECTS

Decomposition in

- Six main aspects
- And more sub-aspects

Decomposition is useful for:

- Identifying specific strengths and weaknesses in recovery capability
- Benchmarking





CONCLUSIONS 2020 RESEARCH

- > Status-quo of ICT recovery in 2020 (based on interviews with 9 large NL organizations):
 - Importance of ICT recovery capabilities was recognized by all respondents
 - Most important motive for building ICT recovery capabilities → the importance of ICT for the primary business functions of the organization;
 - Most aspects of ICT recovery were found to be at appropriate levels, with some room for improvement
 - Potential improvements: more frequent updates of incident scenario's, more realistic but potentially risky recovery exercises, expand collective recovery capabilities
- Positive reactions towards informationsharing and (sectoral) collaboration



2021 RESEARCH - RECOVERY SELF-ASSESSMENT

- How can organizations
 - measure ICT recovery capabilities,
 - compare capabilities to other organizations',
 - and <u>learn from</u> other organizations' best-practices?



- Target audience self-assessment (NL only):
 - Government
 - Critical infrastructure
 - Large companies

Interesting? Please do not hesitate to contact us!

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