

SECURITY RISKS OF FLOOD DEFENCES



TEAM

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Water infrastructures have been attractive targets for terrorists and history for over 2,500 years. After the 9/11, terrorist organizations, notably Al Qaida, have shown strong interest in water defence structures, water supply and SCADA systems in large hydraulic structures.

The main goals of this study were to model the destructive power of physical modus operandi (ranging from a shovel, a backpack to, for instance, a lorry to cyber-attacks), to determine gaps in flood security, and to investigate preventive measures (such as cameras, sensors, barriers, walls and check points).

The study produces a matrix with at one axis the type of structure (levee, seawall, bosom quay, dune, lock, dam, weir) and at the other axis the modus operandi. The cells in the matrix show some indicative weight of incentives leading to the (partial) disruption of a particular type of flood barrier.

FOLLOW-UP

The results will be presented to the Ministry of Water Management and the NCTV (Nationaal Coördinator Terrorismedebestrijding en Veiligheid) to seek opportunities to further develop the research. Funder: Rijkswaterstaat (Mrs. Hellen Havinga & Mr. Martijn Flinterman)

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CYBER INSURANCE



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- > We are the first to have empirically researched the cyber insurance market for Small and Medium Enterprises (SMEs). We requested and analysed policies from nine insurance companies on behalf of six SMEs.
- > The cyber insurance market is still in its infancy, policies are expensive and hard to assess for SMEs.

- > We investigate possibilities to create more transparency in the market and study alternatives for insurance, such as risk pooling arrangements.

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CYBER CRIME AND CRIMINOLOGY



TEAM

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RESEARCH

In order to understand the problem of cyber crime, insight is needed, among other things, into the social drivers of online behaviour of offenders, targets and guardians.

RESULTS

> Using Dark Web observational data, obtained by collaboration with TNO to use their Dark Web Monitor, the research showed behavioural patterns of Dark Web forum users, and explored possibilities for risk assessments.

> With regard to target behaviour, large-scale, longitudinal data offered insight into cybercrime victimization and their repercussions for online behaviour.

FOLLOW-UP

- > International collaboration with cybercrime scholars (e.g. Tom Holt)
- > Presentations at national and international conferences
- > Publications on cybercrime offender and target behaviour
- > New research proposals (awaiting approval by board of Centre for Safety and Security)

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LOCAL CONSEQUENCES OF EU EXTERNAL BORDER MANAGEMENT



TEAM

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RESEARCH QUESTION

How do EU requirements and policies of external border security interfere with national policies, practices and regional cultures that deal with increased insecurity caused by (mass) cross-border mobilities and related cross-border crimes?

We discern different forms of external border control and their local and international impact on global mobility and explore the dynamics between state and non-state actors.

AIMS

- > Contribute to academic and public discussions on borders and border practices.
- > Contribute to the improvement of border management through concrete recommendations and a set of best practices.

- > Get international EU research grant around the proposed research question.
- > Set up international, interdisciplinary group of scholars around the research theme.

FOLLOW-UP

- > Organize one research meeting and one academic seminar discussing and writing the research proposal.
- > Apply for two PhD positions at Leiden and EUR Law faculties.
- > Create an advisory board of practitioners and experts in the field.
- > Develop a master course 'Global Mobility and Border Security'.

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MOOC 'RISK IN RISK-AVERSE SOCIETIES'



TEAM

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Dr. Jim van Steenberghe	(RIVM)
Prof.dr. Margreet Vos	(Erasmus University Rotterdam)
Dr. Marieke Liem	(Leiden University)
Prof.dr. Sabine Roeser	(Delft University of Technology)
Prof.dr. Genserik Reniers	(Delft University of Technology)

- > A Massive Open Online Course (MOOC) which highlights the latest scientific approaches to the phenomenon of 'risk'.
- > This project will result in a 7-module Massive Open Online Course on Multidisciplinary Approaches to Risk

- > The MOOC offers the unique possibility of incorporating innovative, attractive and more multidisciplinary education within the Leiden-Delft-Erasmus universities, while simultaneously establishing and intensifying structural collaboration for future research.
- > This MOOC will be made available online by Leiden University on the Coursera Platform.

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EMERGENCY PLANS FOR THREATS AGAINST CHEMICAL INDUSTRIAL AREAS



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- > The proposed research is aimed at assisting chemical clusters to respond to the consequences of security events via prompt and pre-agreed procedures
- > A Security Emergency Management Matrix (SEMM) will be developed to mitigate the consequences of potential attack scenarios and to enhance the effectiveness and promptness of emergency response.

- > The results will be presented to the chemical industry to seek opportunities to further the research.

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E-CONVEYANCING & CYBER SECURITY IN THE EU



TEAM

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EUROPEAN LAND & MORTGAGE MARKET

- > More and more European citizens and companies and their financiers are involved in cross-border transactions of real estate within the EU.
- > This development towards an European land & mortgage market is supported by the automation and digitization of national systems of land administration.
- > This development provides easy access to information between the EU member states, but also supports the full digital exchanges between parties of messages and documents relating to land transactions and the automated processing of records, the so-called 'e-conveyancing'.

E-CONVEYANCING: LEGAL RISKS

Our project researches the legal risks associated with e-conveyancing and their potential impact on cross-border real estate transactions.

Summer 2016 an international literature research was performed, as a basis for publications in national and international journals.

FOLLOW-UP

The outcomes of the project should support the application for funding for a PhD research in the risks and opportunities for cross-border e-conveyancing within the European Union.

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