

Rethinking transport

Towards clean and inclusive mobility

27–30 April 2020, Helsinki, Finland

“The Future of Ports: Vision 2030”

TRA 2020 Webinar session 23 June 2020

Professor of Logistics Lauri Ojala

Project Director

Seaport Safety & Security Project [HAZARD](#) (2016-2019)

University of Turku



Rethinking transport
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Photo: The Finnish Border Guard

Background to ResQU2

- Risk for major maritime or seaport incidents due to busy European fairways and ports, especially when dangerous substances are involved.
- There is a need to improve and exchange knowledge on risk management and incident response in ports and at sea.
- Three Interreg BSR Flagships & a DG ECHO project
 - [ChemSAR](#), [HAZARD](#) and [DiveSMART Baltic](#), and
 - [MIRG-Ex](#): North Sea Region funded by DG ECHO

Photos: Port of Klaipeda and HHLA

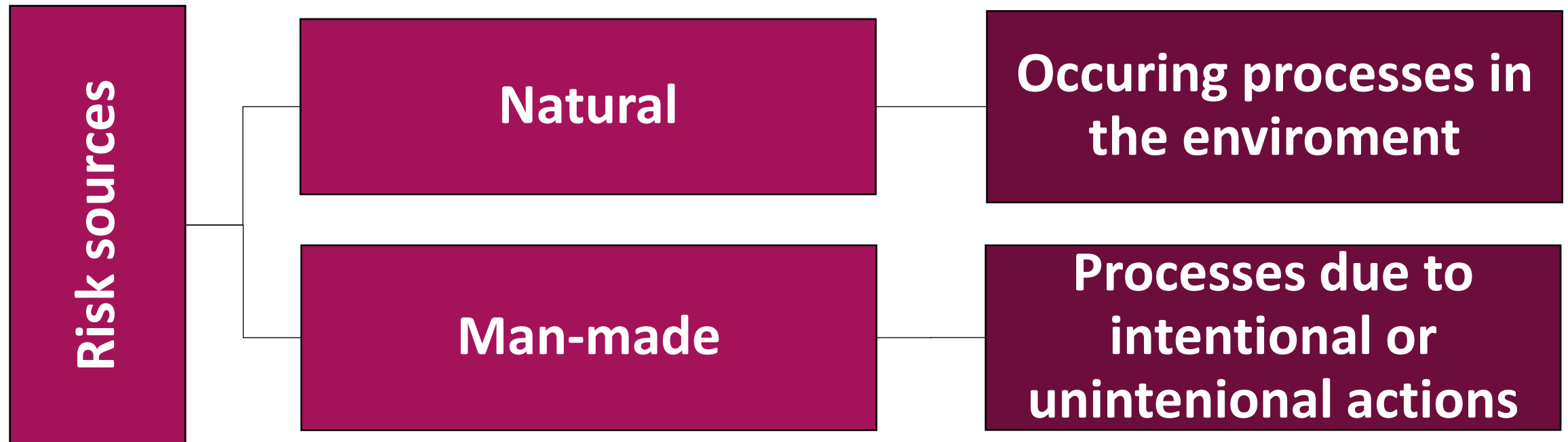


ResQU2 Platform in the Baltic and North Sea:

**...disseminates learning experiences in
risk management and incident response
in ports and at sea**

Project period: January 2019 – March 2021

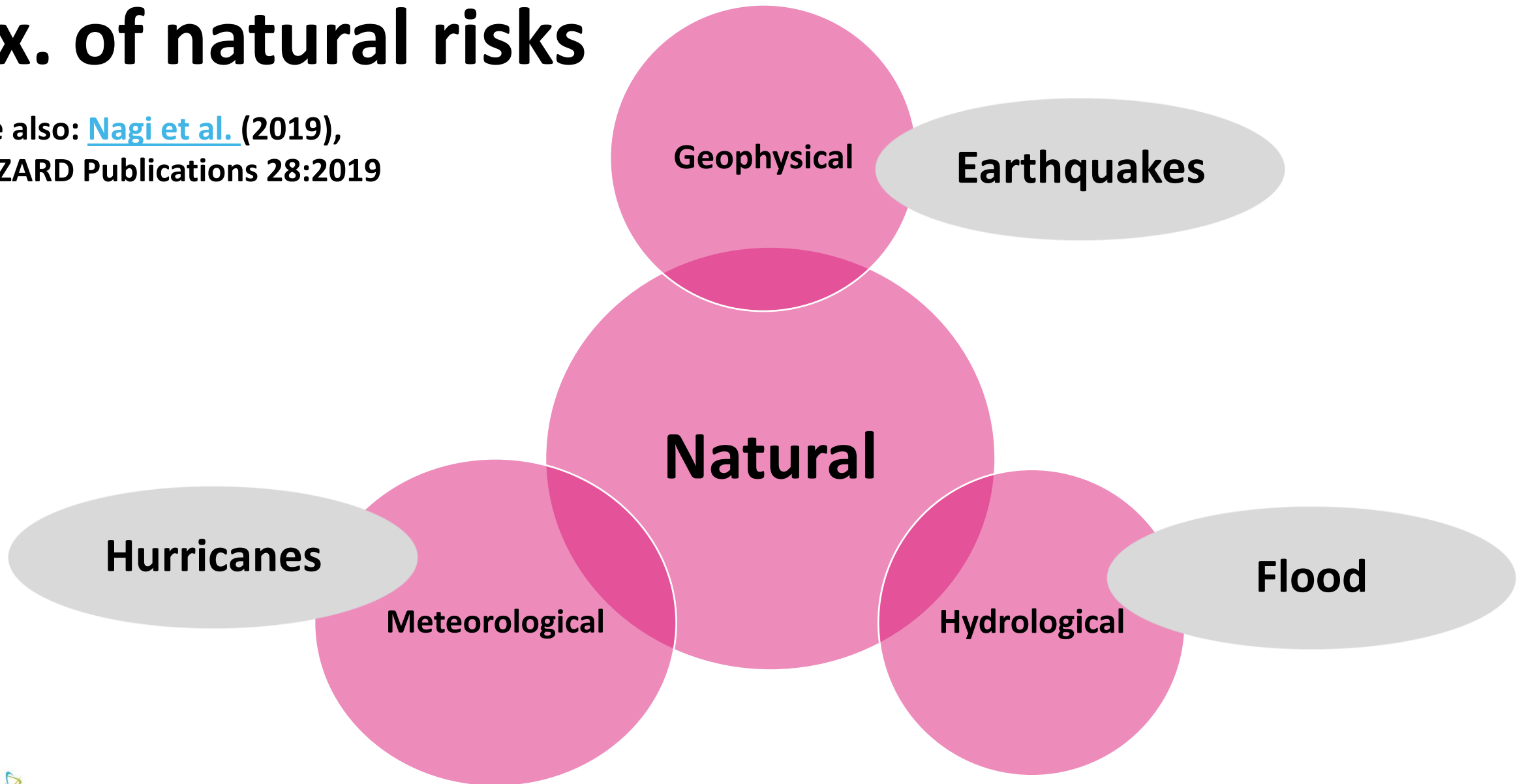
Groups of generic risk sources



See also: [Nagi et al.](#) (2019), HAZARD Publications 28:2019

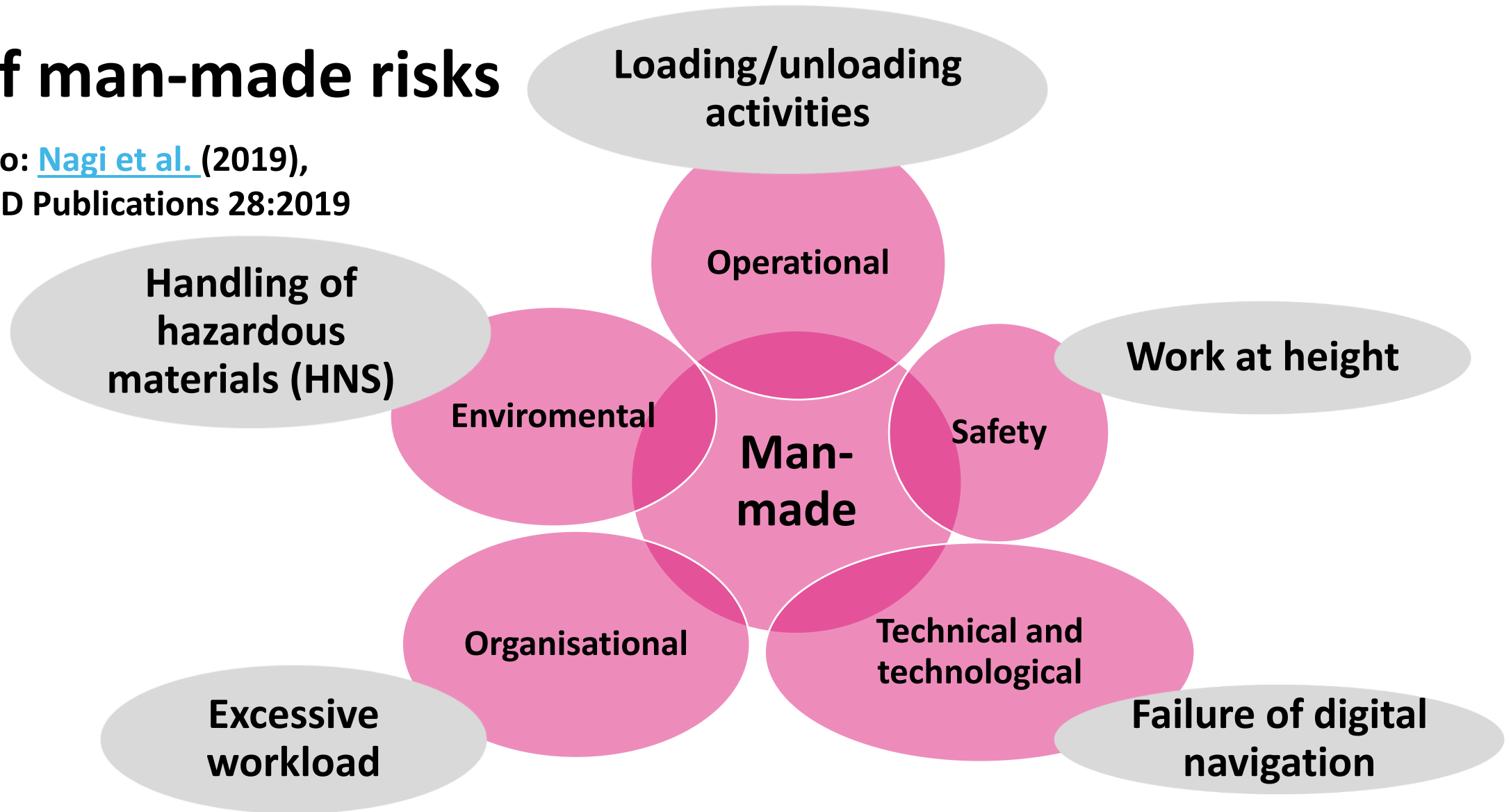
Ex. of natural risks

See also: [Nagi et al. \(2019\)](#),
HAZARD Publications 28:2019

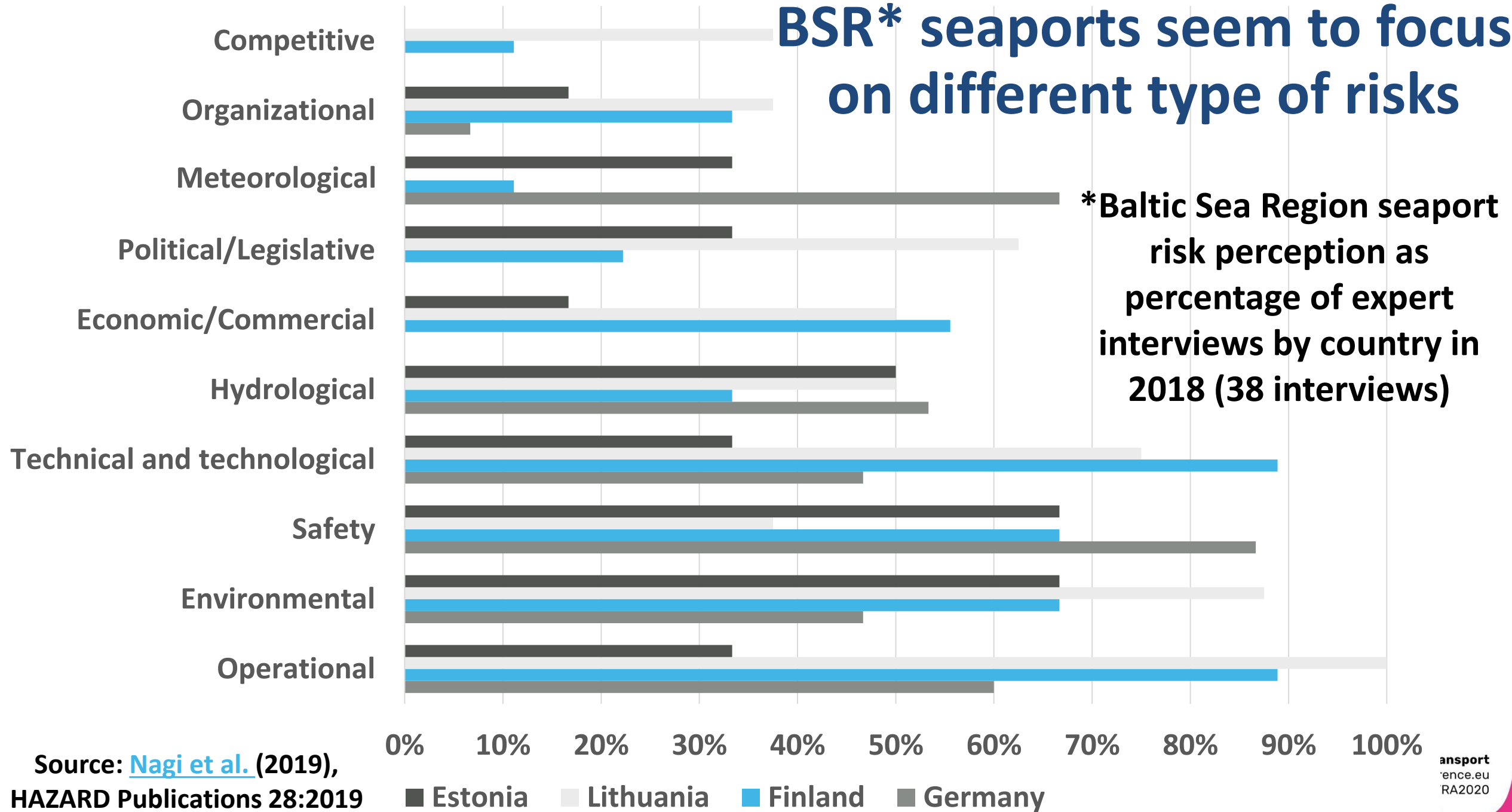


Ex. of man-made risks

See also: [Nagi et al. \(2019\)](#),
HAZARD Publications 28:2019

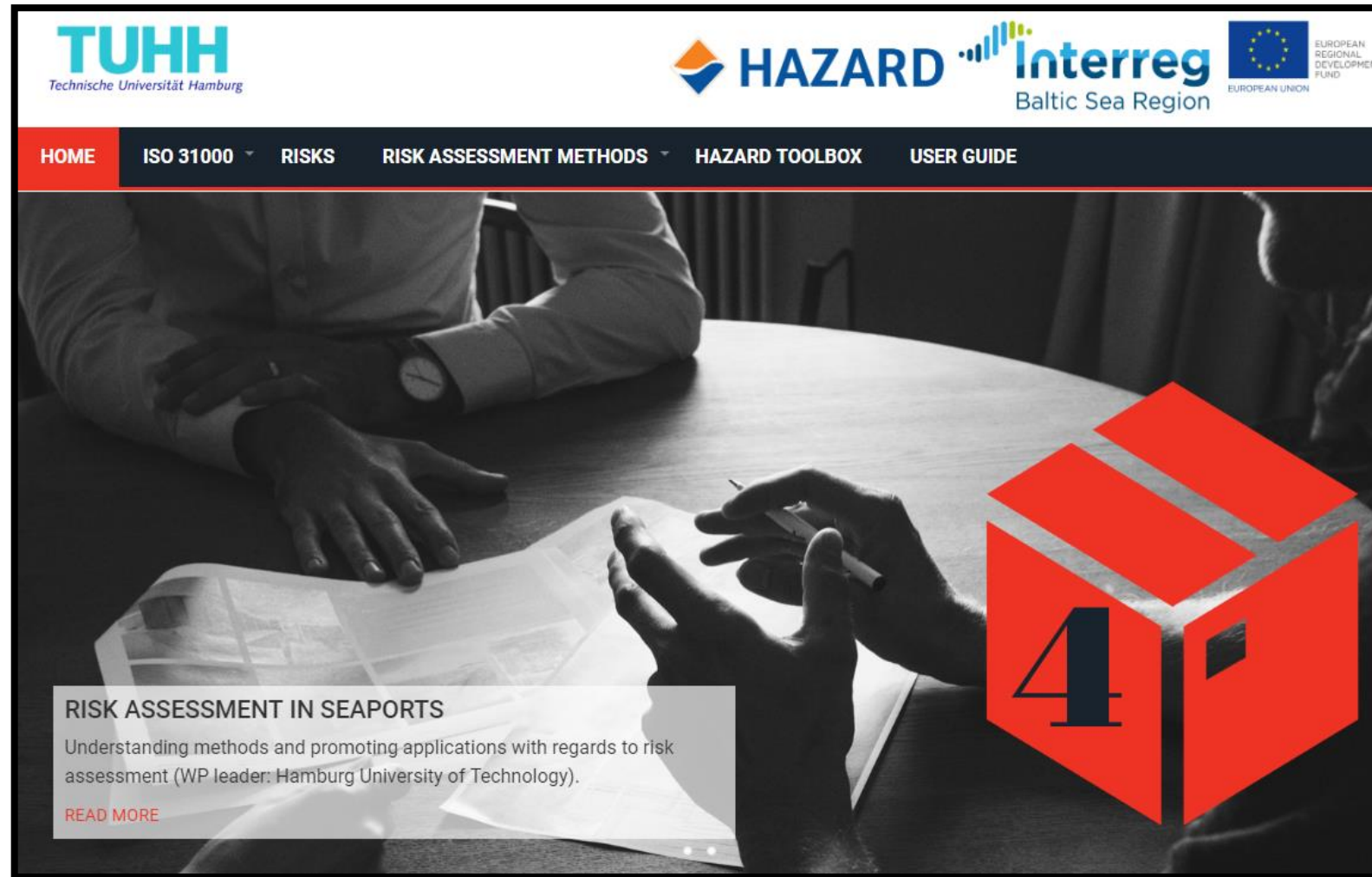


BSR* seaports seem to focus on different type of risks







Source: [Nagi et al. \(2019\)](#),
HAZARD Publications 28:2019

Ex. for Seaports: the HAZARD risk assessment toolbox



HAZARD risk assessment toolbox



HOMEISO 31000RISKS
RISK ASSESSMENT METHODS
HAZARD TOOLBOX
USER GUIDE

HAZARD TOOLBOX

The hazard toolbox is organized as a layered form to be filled out by the user to narrow down the risk assessment methods based on his/her defined criteria including the risk and method type as well as the required effort and complexity of the method.

1

2

3

4

5

Risk GroupsRisk TypesRisksMethod PropertiesComplete

25%

Risk Types

☒ Geophysical☒ Hydrological☐ Metrological

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Conclusion

More attention needs to be put into systematic risk assessment and analysis in seaports.

Modern tools for this exist, but several constraints prevent seaports from making proper use of these.




HOME ISO 31000 RISKS RISK ASSESSMENT METHODS HAZARD TOOLBOX USER GUIDE

RISK GROUPS

ENVIRONMENTAL

Potential threats of diverse sources affecting organisms and environment by emissions, leakages etc.


More Risk Types



NATURAL DISASTERS

A natural disaster is a natural change in the Earth's surface or atmosphere potentially having devastating effects.


More Risk Types



OPERATIONAL

Operational risks are related to the occurrence of unexpected events or accidents disturbing the flow of daily operations.


More Risk Types



ORGANISATIONAL

Organisational risks are related to inadequate structure or failed internal processes, people and systems.


More Risk Types



SAFETY

Safety risks are closely related to the continual compliance and monitoring of enforced safety regulations.


More Risk Types



TECHNICAL AND TECHNOLOGICAL

Risks that are connected to the potential failure of devices, machinery and the corresponding IT-software.

More Risk Types





Thank you!

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[ResQU2 Platform](#)

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What is TRA?

TRA

Transport Research Arena

- **TRA** is **THE** European research and technology conference covering all transport modes and all aspects of mobility.
- **TRA** provides an arena for research, industry, public administration and politics **to tackle major challenges** and reshape European transport and mobility solutions.
- **TRA** gives visibility to both national and international **transport research**.
- **TRA** provides a **global platform** for Europe's achievements in transport research and technology.
- **TRA** participants get the **opportunity to exchange ideas** about the conditions and **business models** for new technological solutions.

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Join us in building the future of transport and mobility:

- Clean transport – URGENT ACTION!
- Data-driven mobility
- Intelligent infrastructure
- European competitiveness

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