









MAIN MESSAGES FOR TODAY

Future Ports are not (simply) Ports

You can't hurry safety

Tomorrow's Risk Scenarios Require Action Today



DBI – SUPPORTING A SAFE AND FAST GREEN TRANSITION











FIRE TESTING

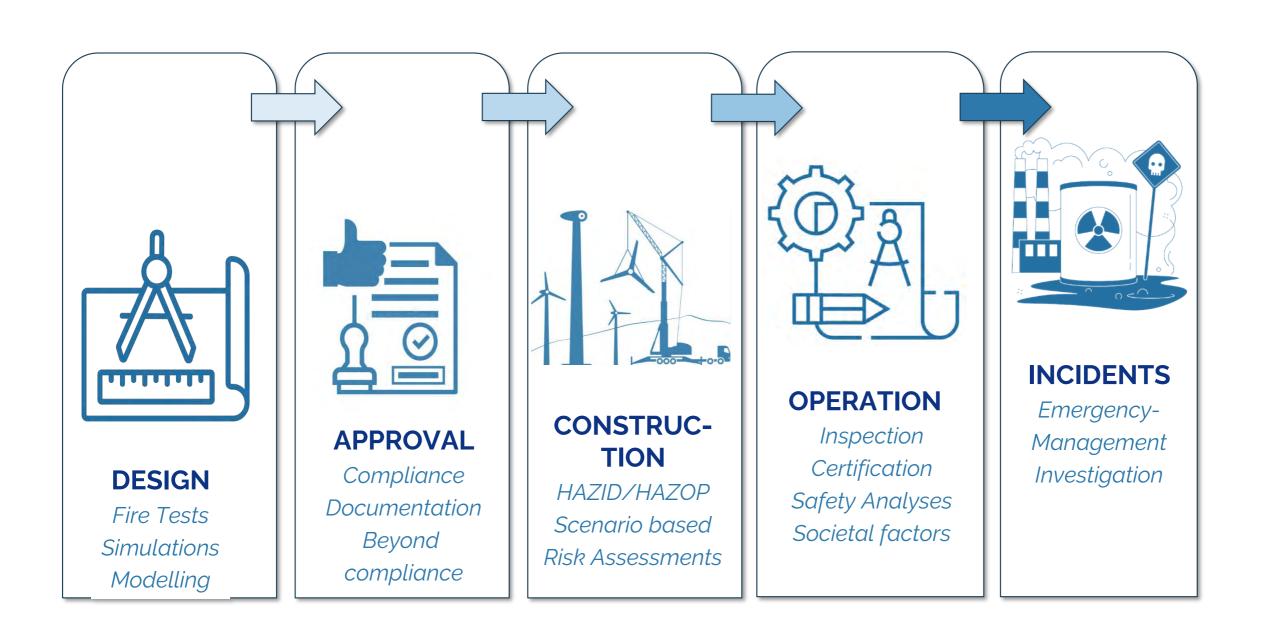
DESIGN

ASSESSING TECHNOLOGIES

FIRE INVESTIGATION

DISSEMINATION AND TRAINING

DBI – WHAT WE DO







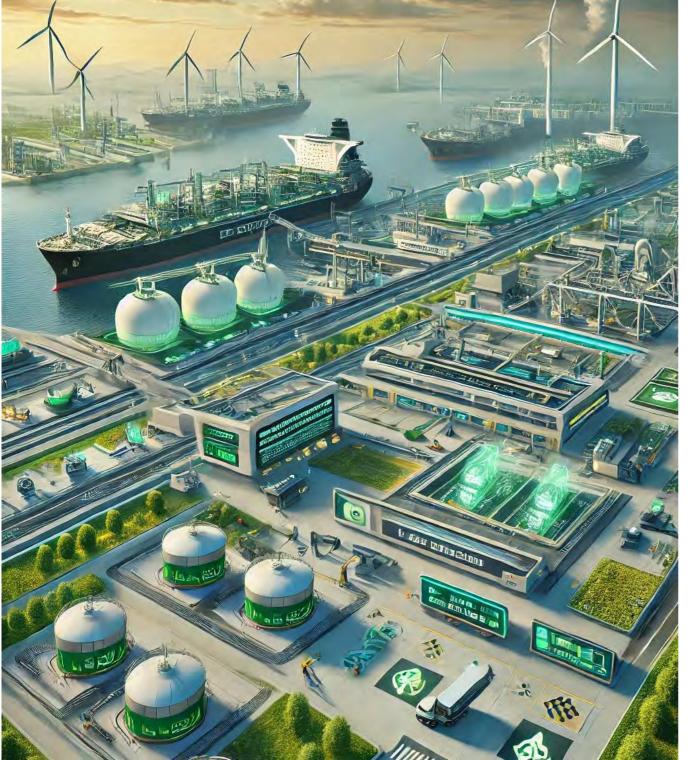
Ceci n'est pas une pipe.



You can't hurry safety

- Safety culture takes time to evolve
- There is a critical lack of experienced technical experts and seafarers
- We don't fully understand the scenarios we need to mitigate





Tomorrow's Risk Scenarios Require Action Today

We need:

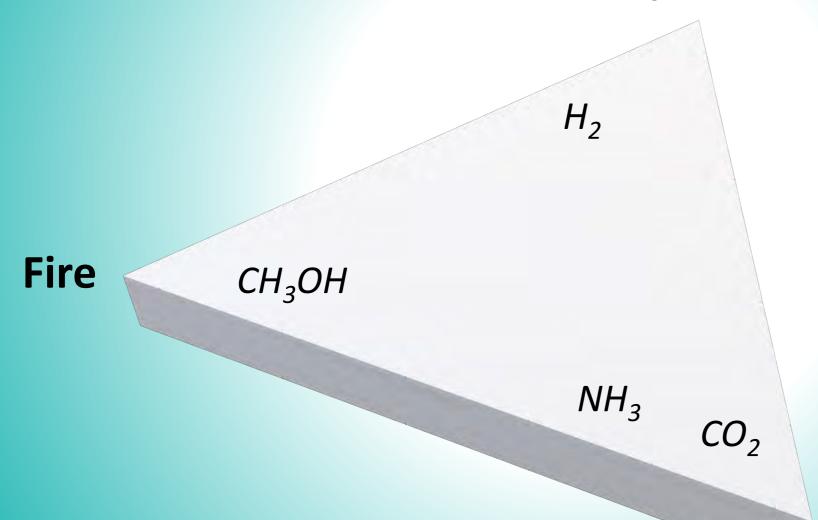
- to develop a systemic understanding of safety risks
- new solutions for prevention and mitigation
- to share and cooperate on best practices
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Hazards of Green Fuels - simplified

Explosion



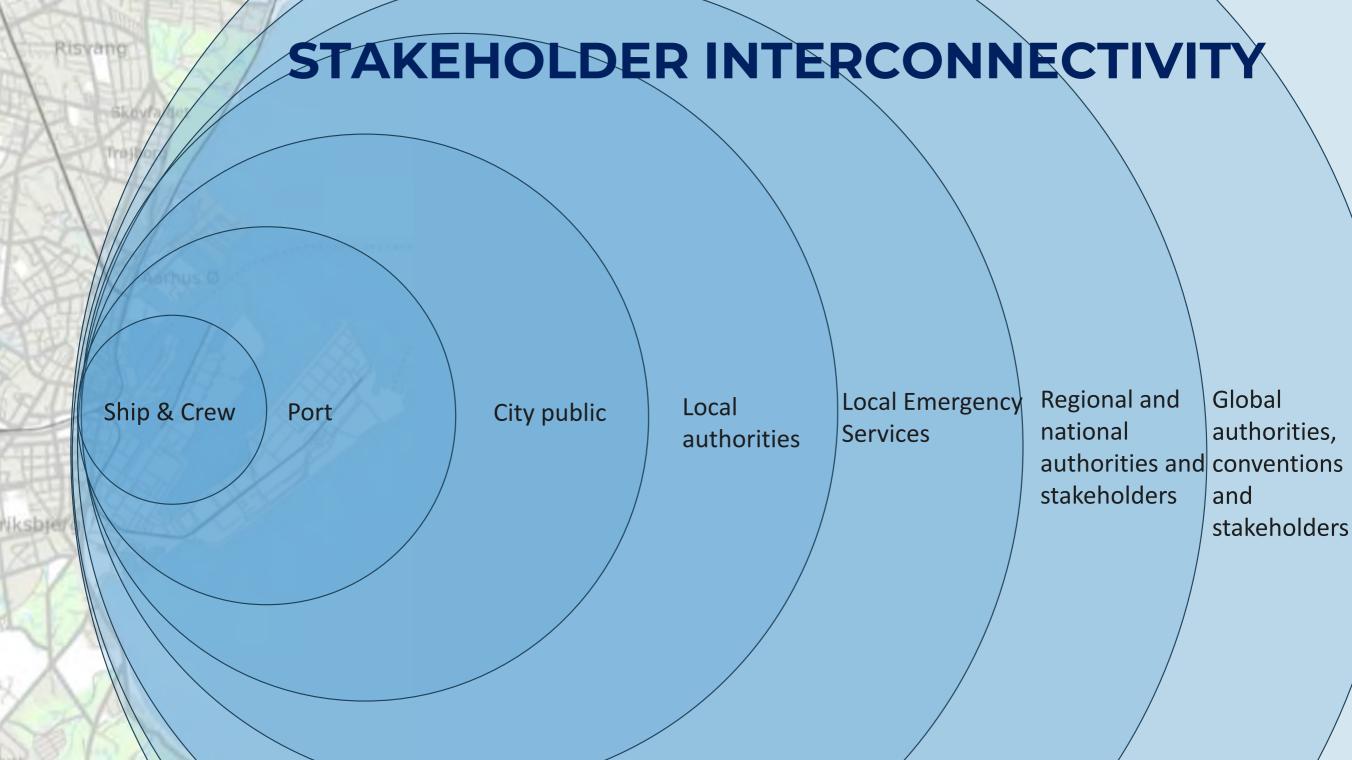
Leakage

Key Risks and Scenarios

- Dynamic storage of various fuel types and other energy sources
- Public concern regarding new energy forms
- New infrastructure added to existing, e.g., hydrogen pipelines
- Additional critical infrastructure in a limited space
- Safety concerns related to climate adaptation







KEY ELEMENTS OF SYSTEMIC SAFETY



Technical solutions

Fire properties, Design, Equipment etc.

Operations

Bunkering, Contingency Planning, Resilience, Logistics etc.

Regulation

* Approvals, Environmental Assessments, Local Planning, Standardization, International Law etc.

Societal factors & interaction

Perceived Safety, Training, Public Perception, Involvement, Communication etc.



Technical solutions

- Technology assessment (eg. active systems)
- Ad hoc fire testing
- Simulation and modelling
- Design support and technical documentation

Operations

- Risk assessments (eg. storage and ruptures)
- Evaluation of procedures
- Input for contingency planning and resilience
- Safety strategies

Regulation

- Documentation for approvals (legal and standards)
- Decision support

Societal factors & interaction

- Mapping competencies
- Investigating perceived safety and public concerns
- Input for involvement and communication
- Training

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DBI FIRE AND SECURITY



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