



Digital Technology: Safety and responsibility

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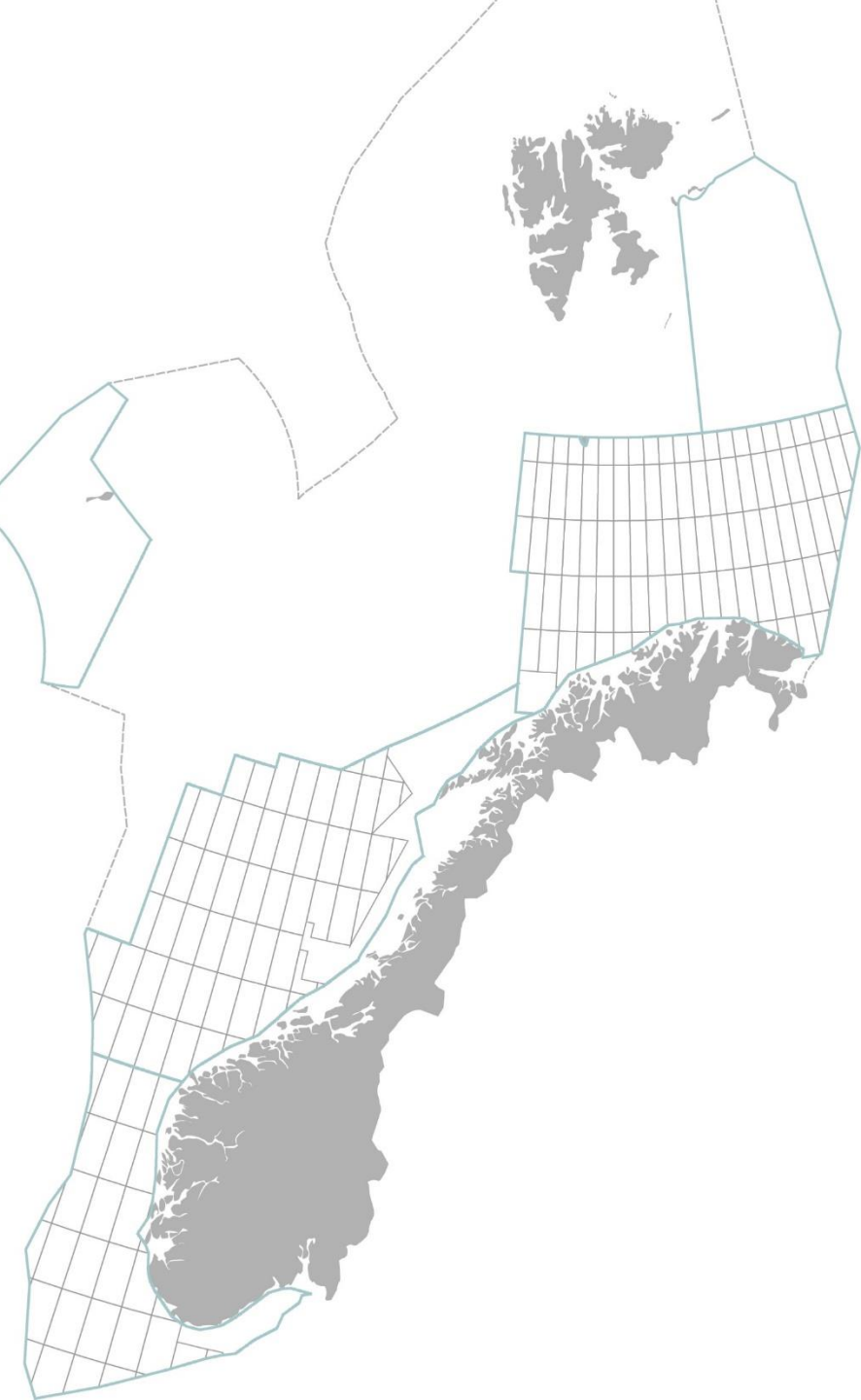
Assignment and objective

Societal assignment

- Havtil will set the terms for and follow up that the players are maintaining a high level of health, safety and the working environment as well as security. On a professional and independent basis, it will follow up that the players in the petroleum industry and other industrial activity offshore, are complying with their responsibilities pursuant to the regulations.

Objective

- The ambition that Norway's petroleum industry will be the world leader for HSE remains unchanged. A high level of HSE will also be established for new industrial activity offshore.



Areas of responsibility

Petroleum operations – offshore and on land

- 92 fields on stream
- 62 fixed facilities
- 40 mobile facilities with an AoC
- 371 subsea facilities
- 25 000 employees offshore
- 18 080 km of pipelines
- 7 land plants

Updated 1 January 2024

Mineral operations

- Regulatory responsibility for safety and emergency preparedness related to future mineral operations on the NCS has been delegated to Havtil

Renewable energy production offshore

- Two areas of the NCS have been opened for offshore wind development: Utsira North and Southern North Sea II

Transport and storage of CO2

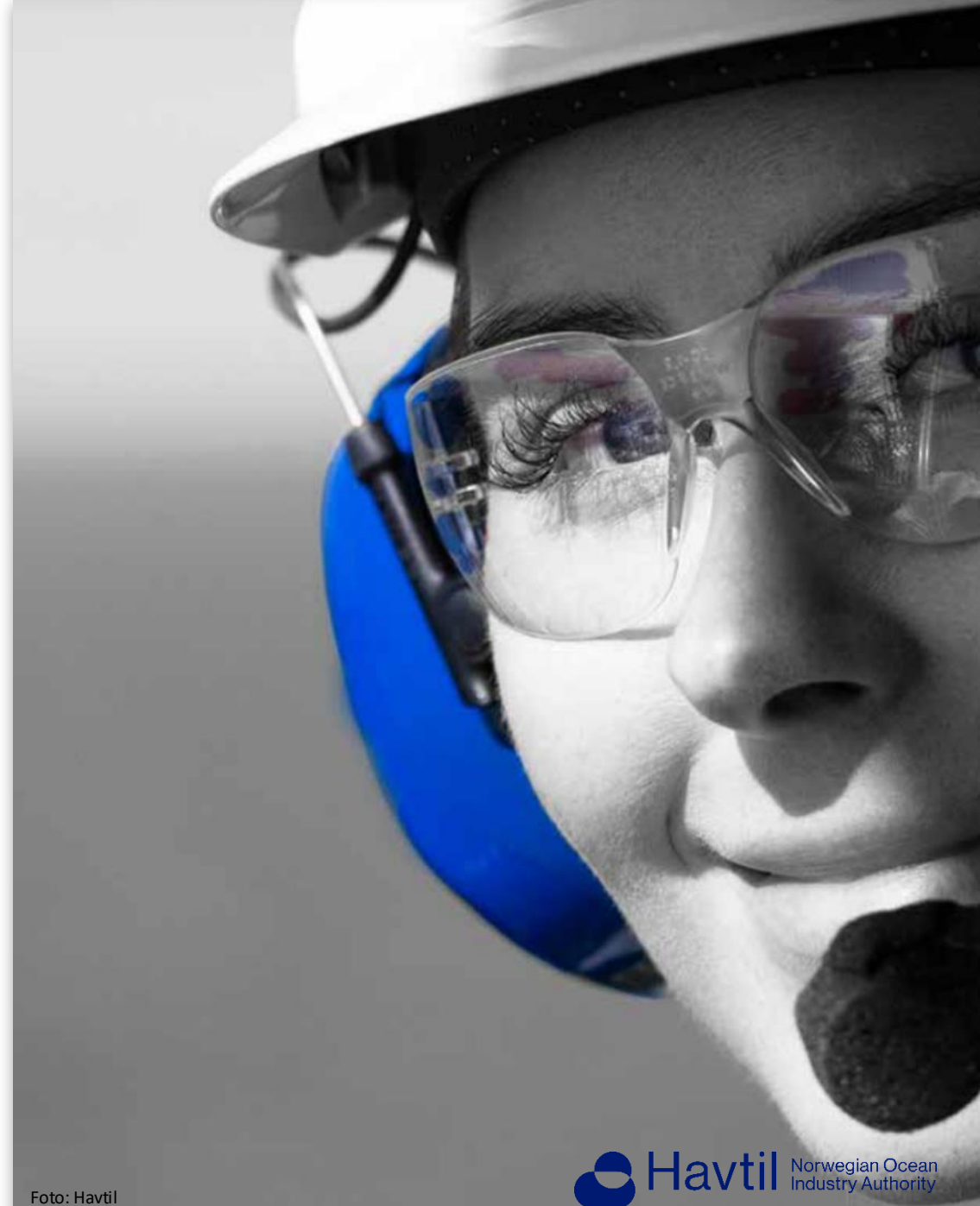
- Value chain for transport and storage under development.
- Land plant at Øygarden in Vestland county.
- Pipeline transport to permanent storage in formations beneath the North Sea.

Our role

- In our industry, the use of AI can influence risks linked to major accidents, safety systems, barriers, or critical infrastructure. The use of AI in operations, planning, and decision support can also directly and indirectly impact safety, working environment, emergency preparedness, and the security of activities.

Havtil's role will be to follow-up that the industry activity gives high priority to HSE when AI solutions is developed and implemented in the industry.

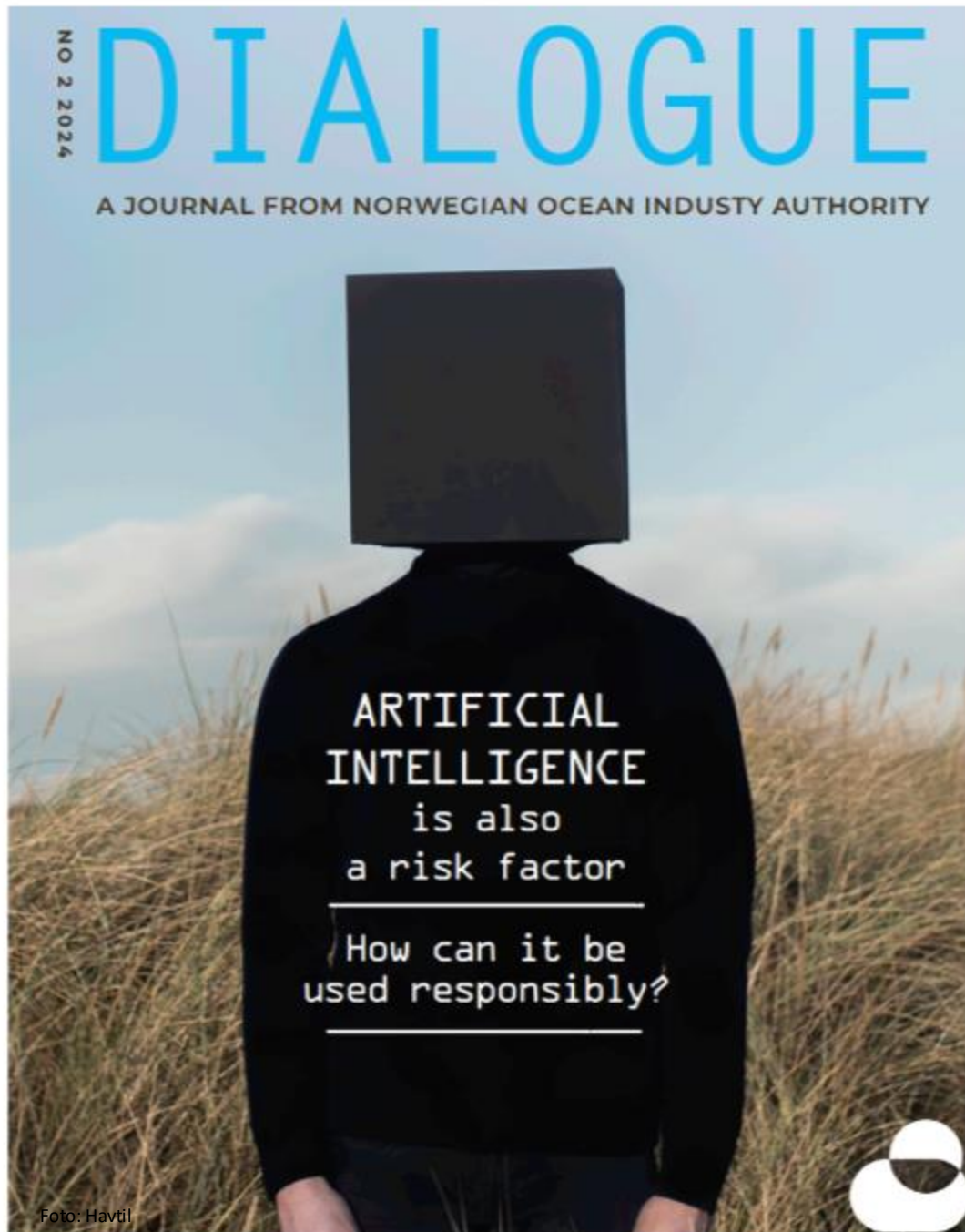
Foto: Havtil





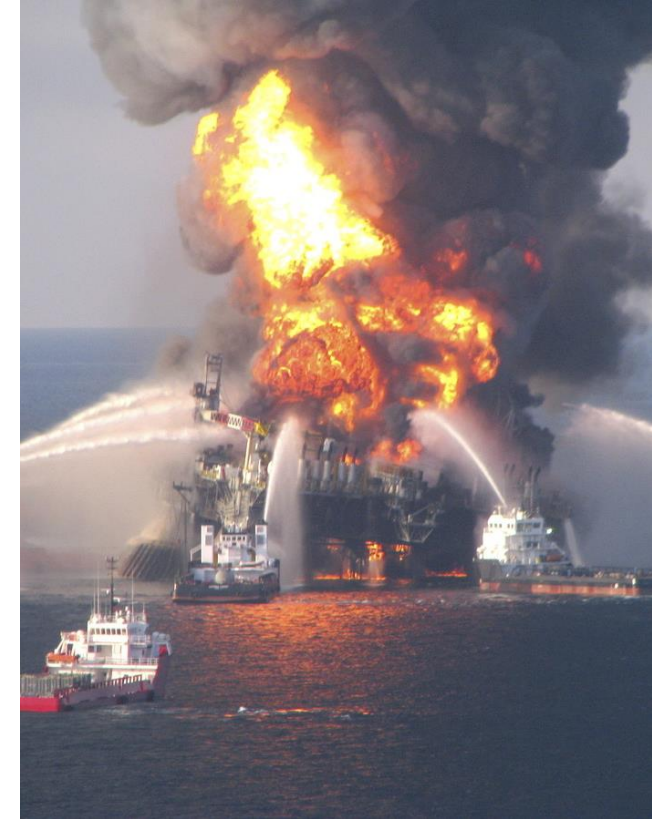
Our approach

- Regulation and supervision
 - HSE regulations are performance-based, technology-neutral, and based on risk management principles.
- Knowledge development
 - Develop knowledge of safe and responsible application of AI in operations.
- Collaboration and dialogue
 - Collaborate with national and international stakeholders, both safety governmental agencies and industry organisations.



Havtils main issue 2025 «Artificial intelligence is also a risk factor”.

Domain knowledge and experience





Safe and responsible AI

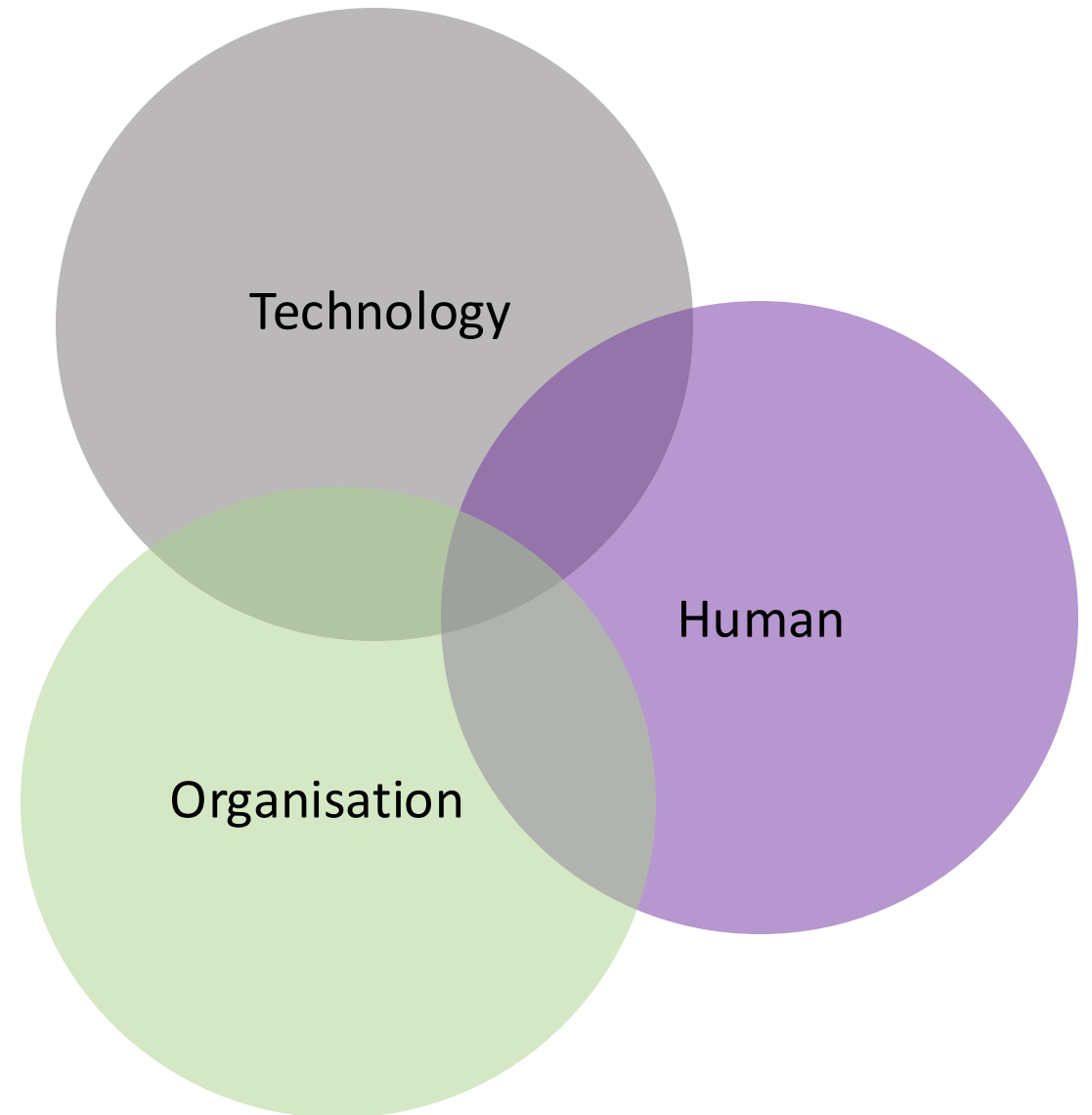
- Risk management
- Data quality and data handling
- Technical documentation and logging
- Transparency and explainability
- Human oversight and control
- Robustness and cyber security

The HSE regulations

HSE regulations for petroleum operations are performance-based, technology-neutral, and based on risk management principles.

The regulations contain relevant basic requirements for responsible operations, risk assessment, and risk management that are important for the responsible and reliable development and use of AI solutions.

HAVTIL's evaluations so far indicates that characteristics related to AI can be managed within the existing functional and technology-neutral framework. If necessary, more detailed norms or standards related to AI could be included in the guidance section of the regulations.



Our expectations to leaders in the industry

- The companies must assess vulnerability and risk from an integrated perspective which includes human, technological and organisational aspects.
- Each company must take ownership of and manage the risk related to the implementation of new systems and technological solutions.
- Involving and training employees are crucial for promoting expertise and risk understanding.





Tema: Kunstig intelligens →

Bruk av kunstig intelligens i
petroleumsvirksomheten er økende, og
Havindu
ytterlige
risikobil



Podkast

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Følg

Om

En podcast fra t



De 5 KI-paradokser med Mica Endsley

Havindustritilsynet

Hvor intelligent er kunstig intelligens? Hva må en bransje som ønsker å innføre KI-løsninger vite om teknologien, og hvordan kan vi innføre det på en ansvarlig måte? I denne episode...



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