
DNV SAFETY 4.0 PROJECT

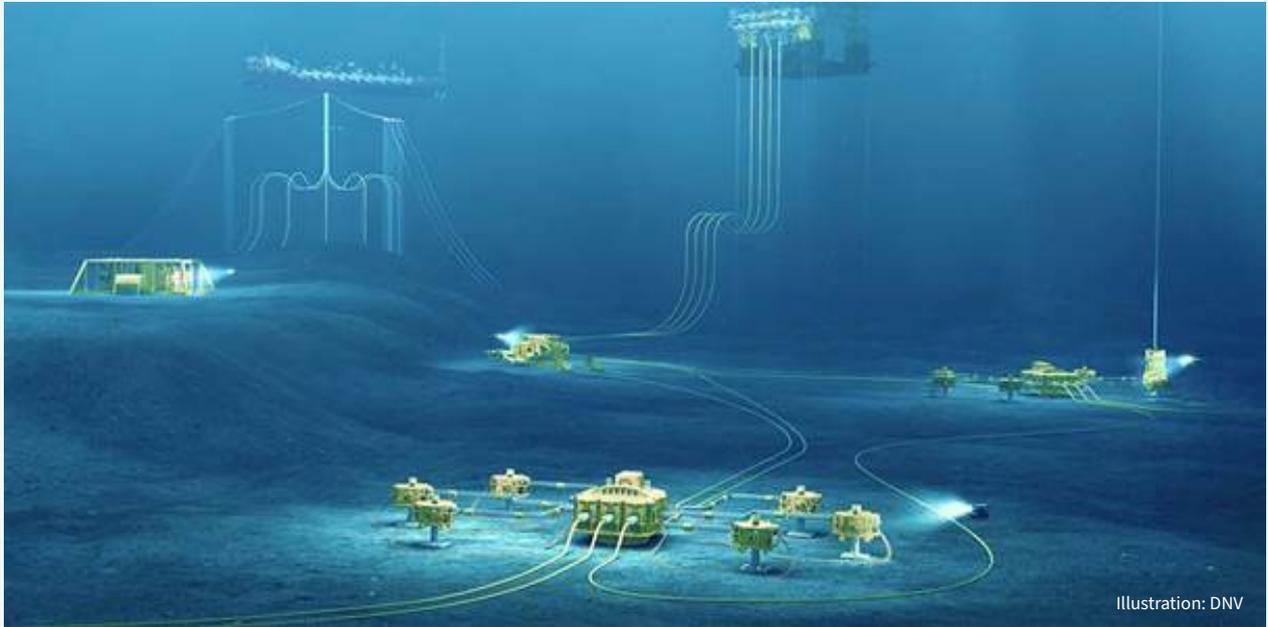


Illustration: DNV

Norwegian HSE regulations accommodate and promote innovation that can enhance safety. However, safety of novel subsea technologies may be cumbersome to demonstrate because current standards may be difficult to apply.

The main objective of the project Safety 4.0 is to enable and accelerate up-take of novel subsea solutions by developing a framework for standardized demonstration of safety.

The project will develop new safety philosophies, integrated solutions, and use of sensor data and data analytics, to demonstrate a sufficient level of safety for three use-cases:

- All-electric safety system, where existing fail-safe philosophies does not apply.
- Subsea process solutions, where process- and safety systems share elements.
- Demonstrate safety of novel subsea technologies.

“The project may contribute to future updates of regulations and standards, and can be applicable to other industries”

Dr. Frank Børre Pedersen, Programme director Oil & Gas at DNV Technology and Research unit.