



equinor

Suggested use of Drones and Robots to improve HSE

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The digital energy company

Always safe

High value

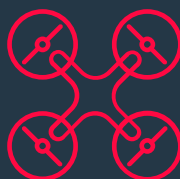
Low carbon



Make data available anytime, anywhere



Predicting and preventing safety and security incidents



The robots will make our work easier



Connecting minds and technology to become industry leader

Drones and Robots result in a step up in Safety and Efficiency

From this:



To this:



- Robots replace **Dirty, Dull, Distant and Dangerous** activities
- Robotics sets the stage for a paradigm shift in Safety - remove people from harms way

EXAMPLES

- Robot arm and drones can eliminate entries in **confined space** with reduced exposure to hazardous components
- Walking robots and flying drones can be used in **check and report** situations to avoid exposure of personnel in dangerous situations
- Drones can be used to eliminate **work at heights** and to detect potential **falling objects**
- Drones and robots can be used for **leakage detection** both topside and subsea
- Robots can be used to **avoid personnel in red zone** on drillfloor

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