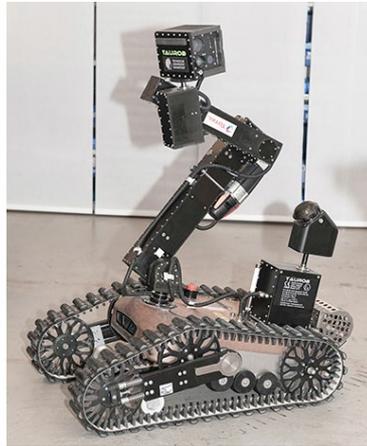




Science & Technology

World-First Autonomous Offshore Robot to be Developed

Posted by Ocean News
 Published: 02 April 2018



0 Comments

Robots could soon be working autonomously alongside humans on a North Sea platform as part of a world-first project from the [Oil & Gas Technology Centre](#), Total E&P (Total) and taurob, in partnership with Technische Universitaet Darmstadt (TU Darmstadt).



The 18-month project will develop and trial a mobile robot for autonomous operational inspection of facilities on Total's onshore Shetland Gas Plant and offshore Alwyn platform.

The trial is the first time an autonomous ground robot will be used on an operational oil and gas installation. The landmark project could start a revolution in robotics offshore that improves safety, enhances productivity and reduces costs.



The Technology Centre and Total are developing the robot with Austrian manufacturer, taurob and TU Darmstadt in Germany, who collaborated to win Total's ARGOS (Autonomous Robots for Gas and Oil Sites) challenge in 2017.

The challenge involved developing an autonomous robot that could perform routine tasks and respond to challenges in a simulated oil and gas operational environment.

The robot developed by taurob and TU Darmstadt is ATEX-certified (certified to work in gas environments without risk of ignition), can perform visual inspections, read dials, level gauges and valve positions, navigate through narrow pathways and up and down stairs, measure temperature and gas concentration, and detect and navigate around obstacles and humans.

The project will develop a further two versions of the successful ARGOS robot that are more robust and reliable, have improved functionality and can be operated by workers offshore without the requirement for onsite robotics experts.

[back to top](#)

Related Articles



2013 International Human-Powered Submari	Contracts Awarded in New Generation Ocea	Interior Announces First Offshore Renewa
Offshore Technology Conference Elects Ne	Rolls-Royce Congratulates Island Offshor	New Exploration Opportunity - Offshore M

[Load More...](#)



Sign up for our free Newsletter!

Email *

First Name

Last Name

SUBSCRIBE

All emails include an unsubscribe link. You may opt-out at any time. Clicking subscribe confirms your acceptance of our privacy policy.

QUICK LINKS

- [SUBSCRIBE](#)
- [OFFSHORE SOURCE](#)
- [SUBCABLEWORLD](#)

RESOURCES

- [PRIVACY POLICY](#)
- [COOKIE POLICY](#)
- [SEARCH](#)
- [SITEMAP](#)

ADVERTISE

[ADVERTISE WITH US](#)

CORPORATE HEADQUARTERS

Ocean News & Technology is a publication of TSC

7897 SW Jack James Drive
Suite A, Stuart, FL 34997
(772)-221-7720



© 2018 OceanNews. All Rights Reserved.

[Cookie policy](#)