Development of novel Non Destructive Testing (NDT) techniques and autonomous robots to be deployed by Remote Operating Vehicles for the sub-sea inspection of offshore structure welds - DEMOnstration

Fact Sheet

Project Information

SUBCTESTDEMO
Grant agreement ID: 605969
Status
Closed project

Funded under
FP7-SME
Overall budget
€ 1 813 104,60
EU contribution
€ 990 000

Start date
1 October 2014
End date
30 September 2016

Coordinated by
DACON AS
Norway

Objective

The SubCTest Demo project, a continuation of the FP7 R4S SubCTest project, has the objective to successfully demonstrate a robust NDT system, deployed by a Remote Operating Vehicle (ROV), that will reliably detect and evaluate discontinuities in pipes, risers and tubular structural components, including the welds.

Long range ultrasonic testing (LRUT) will be used to detect, locate and qualitatively assess the indications over distances of tens of metres either side the test site. Ultrasonic testing using electro-magnetic techniques will be used to evaluate, size...
and quantitatively assess discontinuities detected by LRU I.

Validation of the scanning and clamping manipulator systems will be demonstrated and analysis of the achieved accuracy will be conducted. Validation procedures will test both the reliability and robustness of the NDT system within prescribed underwater pipes or structures.

Field of science

/ engineering and technology/electrical engineering, electronic engineering, information engineering/electronic engineering/robotics/autonomous robots

Programme(s)

Topic(s)

Call for proposal

FP7-SME-2013

Funding Scheme

CP - Collaborative project (generic)

Coordinator

DACON AS

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Gamle Ringeriksv 6
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Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

EU contribution
€ 171 688

Website
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Administrative Contact
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Participants (5)
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**United Kingdom**  
**EU contribution**  
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**Activity type**  
Research Organisations  

**Website**  
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Debbie Mcconnell (Mrs.)

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### DYNAWAVE LTD

**United Kingdom**  
**EU contribution**  
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**Activity type**  
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Anna Margherita (Mrs.)

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