The future of subsea survey

Subsea Innovation Day: Autonomy
Bergen 16.09.2019
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Our industry

Over the times

OIL & GAS 2013
USD 100 /BBL

OIL & GAS 2015
USD 35 /BBL
Innovation

Common traps

“Why to take unnecessary risks? Let’s stick with the basics.”

“We cannot afford taking risks now. Let’s stick with the basics.”

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AUV applications

Autonomy is winning the battle

- Seabed mapping
- Pipeline inspection
- Subsea intervention

Gradually taking the territory of other platforms

Research | Defence | Oil & gas
Cost vs value in AUV ops

Unforgiving dichotomy of conventional vessel-based systems

COST
EMISSIONS
HAZARDS

SURVEY VESSEL
AUVs

VALUE
the future of subsea survey is...

UNMANNED

AUV + USV

fully unmanned operations from berth to berth

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Docking at controlled depth

- Minimal loads from waves
- 1st stage docking to a submersible, remotely operated towing head

Minimal launch and recovery cycles

- Towing head equipped with inductive connector
- Battery recharge and data transfer without AUV recovery to deck

Controlled recovery to deck

- 2nd stage docking to receiver
- No relative movement between AUV and vessel
- AUV recovery through moonpool
- Smooth transition through splash zone

uSEA concept

uLARS enabling AUV ops in harsh environment

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THANK YOU!

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