

THE CHALLENGE



90%^[1] OF FAILURES ARE CABLE RELATED



£20M^[2] AVERAGE COST OF FAILED CABLE



£5M^[2] PRE-EMPTIVE CABLE REPAIR

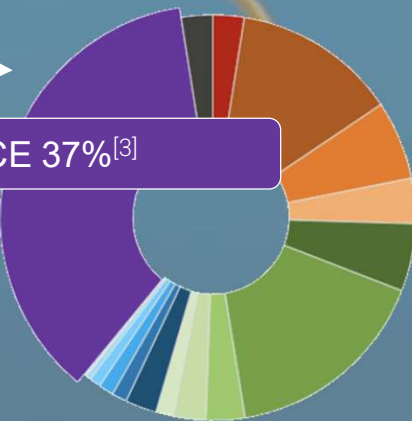
THE SOLUTION

REGULAR INSPECTION

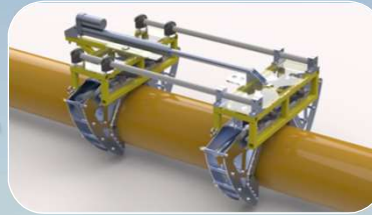
OPS + MAINTENANCE 37%^[3]

CONTRIBUTES TO OPEX
HIGH IMPACT ON LCOE

ARIS

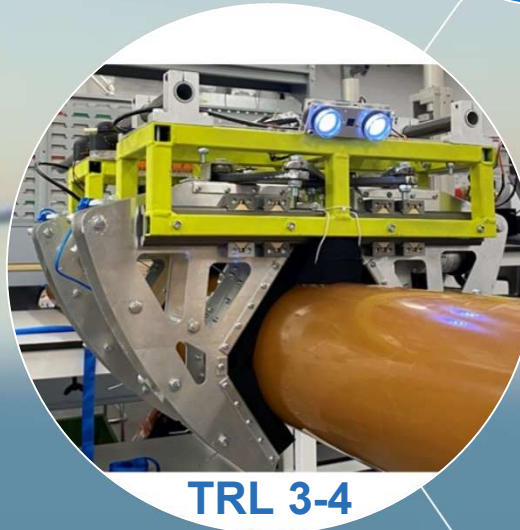


A CONCEPT TO DELIVER AUTOMATED INSPECTION



SAFE

ARIS REDUCES WORKFORCE EXPOSURE TO SAFETY HAZARDS IN THE CHALLENGING OFFSHORE ENVIRONMENT



TRL 3-4

AUTOMATED

UNSUPERVISED, PARALLEL OPERATIONS FOR EFFICIENT OFFSHORE MAINTENANCE VISITS

FAST

EACH ARIS UNIT CAN INSPECT ONE RISER CABLE PER DAY

ROBUST

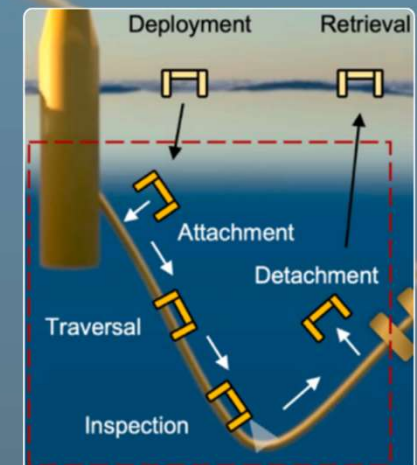
SIMPLE BY DESIGN, ARIS SECURELY CONNECTS TO THE CABLES TO WITHSTAND HARSH MARINE CONDITIONS



[4]

DEVELOPMENT THEMES

- CABLE CLEANING
- BUOYANCY MODULES
- INSPECTION OUTPUT
- DEPLOYMENT METHOD



[1] Proskovics, R., 2017. An introduction to risk in floating wind. Technical Report, ORE Catapult, URL <https://t.ly/39I5A>.

[2] McKeever, P., Young, D., 2020. Dynamic cabling - the challenges unique to FOW. In: Virtual Wind 3. URL <https://t.ly/GjAaA>.

[3] ORE Catapult, 2023. Guide to a Floating Offshore Wind Farm. URL https://t.ly/P_n6S.

[4] Want, A., Nicholls-Lee, R., 2022. The Impacts of Marine Growth on Dynamic Subsea Cables in the Offshore Renewable Energy Industry. URL <https://t.ly/AfKqS>.