

**Dear Offshore Professional,**

Here we are, back again with an update on our activities.

We are happy to report we have been growing, in terms of our projects, colleagues and offerings.

Clients both new and existing have trusted us with exciting projects, we have selected a few, for you to review. Also, we were very fortunate to recruit new specialists. Great people, which we will introduce to you later in this Newsletter.

This Newsletter also highlights our growing service portfolio.

Please enjoy reading this comprehensive issue and please share your views with us!

Your Primo Marine Team

**Rotterdam, April 2018**



**Safety First**

Our QHSE support continues to grow with key experts contributing greatly to the quality and safety demands of our clients. Our team is involved in the alignment and change of the project delivery systems following the acquisition by a client in the UK of a major onshore and offshore construction player. Areas addressed cover at least, risk management, delivery assurance and HSE management.



Photo: Stratego

**UXO – UnExploded Ordnance – Mitigating Risk**

Remains of the previous European conflicts, still play a role in the offshore construction industry today.

To create a safe working environment, often costly UXO mitigating measures must be taken in order to avoid possible detonation. Primo Marine can support in the roll out of specific mitigating measures for projects, including introducing based on experience a more proportional view to the UXO scope, without losing track of safety.

**Our approach is based on several steps:**

- Establishing the UXO tread related to the work to be carried out.
- Avoidance of possible UXO.
- Risk assessment of the presence of UXO based on the seabed dynamics, seabed geology and possible manmade activities such as dredging.
- Taking the risk assessment as a starting point: defining the depth of UXO investigation, which is not necessarily the same as the depth of seabed intervention.
- Defining the minimal distance between the seabed intervention and the possible UXO item, which is an important factor in the avoidance strategy.
- Defining the requirements during tendering for the possible Explosive Ordnance Disposal (EOD) Management, UXO survey, UXO Identification and Removal.
- Defining the As Low As Reasonably Practicable (ALARP) level.
- EOD Management, quality control and survey data interpretation.
- EOD Project Management.

If you are interested in this approach or want to discuss more on how to optimise UXO related topics on your project, please contact Joep Grooten ([Joep.grooten@primo-marine.com](mailto:Joep.grooten@primo-marine.com))



**IFA Cable Repair and Protection**

October 2017, marked the conclusion of the final protection for the repaired IFA Interconnector Cables between France and the United Kingdom. Four out of eight cables in this link were damaged in November 2016. Primo Marine initially assisted as a Marine Consultant in the repair, contributing to bringing the cables quickly back into service during February and March 2017.

For cable protection in the repair zone, it was first attempted to trench these cables, however based on our recommendation the cables were to be protected by means of rock, which was accepted by the Client.



DFPPVV Seahorse working offshore Folkestone on the repair of the IFA-Cable (Photo: RTE).

We designed the rock berms for the Client. The desire of our Client, was to conclude the design process as soon as possible, however, both the seabed and metocean data were limited and therefore we used our extensive technical experience from other offshore projects, within our track record, to develop the required practical design, without the need for extensive, time-consuming studies.

Our involvement didn't end there, as we subsequently assisted in the tendering process (including evaluations) quarry site inspections and QC of rock, fine-tuning the design based on information from the selected Contractor. Also, the rock placement operations were further supported by our offshore representatives and onshore management.



**Client Survey**

At the beginning of the year we issued our Annual Client Feedback Survey. The reasoning is we are constantly striving for improvements, the feedback received, helps us greatly in this process and we would like to express our sincere thanks to all those contributing.



**Offshore Breakfast**

A couple of weeks ago we hosted our 9th Offshore Breakfast.

The concept is to meet professionals, in an informal atmosphere at our offices in Rotterdam with an opportunity to provide a platform to hear and discuss relevant information from all sectors relating to the Offshore Industry. The event is growing in popularity.

The most recent lecture "Risks in the Offshore Wind Industry: Experiences of an Insurer" - was presented by Willem Schrijver and Elkhadir El Hamdaoui from Delta Lloyd. We greatly appreciated this brilliant presentation – thank you Gentlemen!

Previously very interesting lectures covered Noise Mitigation, the Capex/Opex Approach to Cable Burial, Anchoring and many, many more subjects.



**We Welcome New Colleagues**

We are so glad new colleagues have joined our team and we welcome:

**Joep Grooten**, Project Engineer  
Joep specialises in UXO, depth of burial and geological surveys.

**Fauzi Chaabani**, Project Engineer  
Fauzi has a role of supporting all our studies.

**Marcel Dieteren**, Geotechnical Specialist  
Marcel is supporting on several projects including Burial Assessments.

**Iris Pasman**, Accounting  
Iris is supporting Marion in the finance department.

**Doug Guy**, Mapping and GIS-Engineer  
Doug is assigned to one of our client.

**Will Manson**, Mapping and GIS-Engineer  
Will is assigned to one of our clients.

**And Here Follows a Selection of Projects We Are Working On**

- Continuing to provide Marine Engineering and GIS for an interconnector.
- Marine Engineering Consultancy for two major interconnectors.
- Geotechnical and Geophysical Survey Management for several export cable systems.
- UXO Management and Engineering for several export cable systems.
- Metocean and Burial Assessments for major interconnectors and export cable systems.
- Risk Based Burial for an export cable system.
- Remedial Backfilling for an export cable system.
- QC and QHSE for several EPC contractors.

Also many completed and on-going risk based studies covering soils, seabed conditions, UXO, schedule risk, contractor performance, weather, lay methodology, verification, crossings, proximity agreements, protection issues, free-spanning, rock-placement, HDD protection design, repair strategies etc. For further information please contact [susanne.kovar@primo-marine.com](mailto:susanne.kovar@primo-marine.com).

**NWEA Nederlandse WindEnergie Associatie**

Since the end of the last year we are a corporate member of the NWEA.

**Upcoming Events - We Will Be Going To**

- [All-Energy](#) in Glasgow, Scotland, May 2 - 3, 2018
- [Seanergy/ICOE](#) in Cherbourg, France, June 12 - 14, 2018
- [WindDays](#) in Rotterdam, The Netherlands, June 13 & 14, 2018

Hope to see you there!



**Rotterdam Marathon**

Last Sunday we hit it again. Great day, great run - it's such fun. And yes: the photo speaks for itself - no more words required. :)



So much fun, we sponsored last year... a 12 km run from Barendrecht to Zwijndrecht. Here is the happy "we made it" bunch.

**Career Opportunities**

Primo Marine is always looking for experienced and enthusiastic personnel. If you can see yourself working in an offshore cable and pipeline engineering environment and would like to discuss your opportunities, feel free to send your CV and/or call: [info@primo-marine.com](mailto:info@primo-marine.com) / +31 10 240 9821.

Also, go to Vacancies on our website: [www.primo-marine.com](http://www.primo-marine.com)



**Download Area**

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**Short Profile of Primo Marine**

Onshore and Offshore Engineering and Management for Subsea Cables and Pipelines. Your Helpdesk for Installation, Protection and Maintenance Challenges.

Primo Marine is a member of the International Marine Contractors Association (IMCA) and greatly supports the use of IMCA guidelines and a member of the Nederlandse WindEnergie Associatie (NWEA).

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If you no longer wish to receive commercial e-mail messages from Susanne Kovar, please reply to this e-mail with subject: Remove