


3C News

A large yellow crane is lifting a metal structure from a barge. The structure is suspended by four cables. Several workers in blue uniforms and hard hats are standing on the barge, observing the process. The background shows an industrial facility with blue buildings under a blue sky with clouds.

MANAGED PRESSURE DRILLING UPDATE ONBOARD THE NOBLE TOM MADDEN

INSIDE THIS ISSUE

ISSUE 20 | Q4 2020

FIRST UPSTREAM OIL AND GAS PROJECT IN MOZAMBIQUE NEARING COMPLETION

3C Metal Belmet is looking forward to the successful conclusion of its first upstream oil and gas project in Mozambique.

3C METAL ASIA DELIVERS MULTIPLE SCOPES FOR SEADRILL FOR THE WEST CAPELLA DRILLSHIP

Adding to the long list of projects successfully delivered for Seadrill, 3C Metal has recently carried out six upgrade and installation scopes for Seadrill's West Capella ultra-deepwater drillship.

3C METAL INSTALLING UPGRADES ONBOARD THE LIBONGOS DRILLSHIP

3C Metal has recently completed the phase three installation for upgrade work onboard the ultra-deepwater drillship, Libongos, contracted by ENI Angola.

CONTENTS

- 03** A MESSAGE FROM THE PRESIDENT AND CEO OF 3C METAL
- 04** FIRST UPSTREAM OIL AND GAS PROJECT IN MOZAMBIQUE NEARING COMPLETION
- 05** MANAGED PRESSURE DRILLING UPDATE ONBOARD THE NOBLE TOM MADDEN
- 06** 3C METAL ASIA DELIVERS MULTIPLE SCOPES FOR SEADRILL FOR THE WEST CAPELLA DRILLSHIP
- 08** 3C METAL CARRIES OUT UPGRADE SCOPES FOR SEADRILL ONBOARD THE WEST SATURN DRILLSHIP
- 09** 3C METAL INSTALLING UPGRADES ONBOARD THE LIBONGOS DRILLSHIP
FACTORY ACCEPTANCE TEST PERFORMED FOR TERÉGA'S RCP PROJECT
- 10** 3C METAL'S NEW MALAYSIAN WORKSHOP EQUIPPED WITH GANTRY CRANES
CHARITY BOWLING TOURNAMENT SEES FUNDS ROLLING IN FOR JOHOR CEREBRAL
PALSY ASSOCIATION
- 11** DIWALI CELEBRATION IN DUBAI
- 12** 3C METAL BELMET LEADS THE WAY FOR COMMUNITY AID PROJECTS
- 13** FUNDRAISING RECORD FOR 3C METAL BELMET'S ANNUAL CHARITY AUCTION
- 14** CONTACT US

A WORD FROM 3C METAL'S PRESIDENT AND CEO



First and foremost, I would like to thank the entire 3C Metal team for their tremendous efforts in what continues to be one of the most challenging periods in our 25-year history. The profound impact the pandemic has had on the industries in which we work will continue to be felt for some time. Despite obvious setbacks, I take great pride in what 3C Metal has achieved this year. By focusing on our long-term targets, maintaining investments and strengthening client relationships, we have been able to keep our activity levels relatively high.

Throughout the year our position with our core oil and gas clients has remained strong despite the challenges the industry has faced with falling oil prices. We have been fortunate to have been awarded several major contracts from some of our long-standing clients including work for MPD integrations, rig maintenance and upgrade projects.

In recent years, we have made concerted efforts to explore markets outside of the upstream oil and gas industry – a move that has particularly paid off during this period. Moving forward, this will continue to be a major objective as we look to chase more opportunities in mining, renewable energy, green technology, water treatment, hydrogen and subsea projects.

Our involvement in major subsea mining projects for De Beers Group is growing steadily. As featured in the previous newsletter, we are currently undertaking a project for the fabrication of the treatment plant and crawlers for Debmarine Namibia's new subsea diamond recovery vessel, the AMV3.

Other project highlights include the delivery of a project for a hydrocarbon storage and handling terminal in Beira Port, Mozambique. The project is in the final stages and is our first major project to be undertaken in the country.

Both of these projects have not only helped to keep our workshops in the southern region of Africa working at full capacity, but has also prompted further investments in our teams, equipment and facilities.

In other regions we have kept our targets for capital expenditure investments on track. These have included upgrades to our facilities in the Middle East and Asia and now the establishment of a workshop in the USA. Located in Houston, the new workshop is part of the strategic expansion of 3C Metal Group and will enable us to work more closely with our clients in the region, offering in-house turnkey solutions. The workshop is expected to be operational in Q1 2021 and more details will be shared in the coming weeks.

This year, particularly with the backdrop of the pandemic, there was a strong focus on making improvements to our HSE culture and community involvement. Across the Group, our HSE teams launched programs to manage the risks of COVID-19, made reviews to our environmental policies and set green initiative targets. Lastly, having witnessed the devastation that has happened around the world this year, we set targets to get all of our entities involved in initiatives to give back to the communities in which we live and work. We've gained traction on all of these fronts and they will remain a priority in 2021.

As the year draws to a close, I would like to remind our teams to please remain vigilant and keep following the procedures to keep everyone safe and keep our operations running as smoothly as possible.

To our staff and clients, I wish you all a safe and happy new year.

Philippe Boy
President and CEO of 3C Metal

FIRST UPSTREAM OIL AND GAS PROJECT IN MOZAMBIQUE NEARING COMPLETION

3C Metal Belmet is looking forward to the successful conclusion of its first upstream oil and gas project in Mozambique.

The final commissioning activity is currently underway on the new hydrocarbon storage and handling terminal in Beira Port, Mozambique. 3C Metal Belmet provided a turnkey solution in Mozambique for the piping and equipment scope. In total the project involved 40,000 inch equivalent of piping.

Throughout the delivery of the project, 3C Metal Belmet has remained committed to upskilling and utilizing local labor as much as possible. Prefabrication and installation was performed in-country with predominantly local artisans under expatriate management.



MANAGED PRESSURE DRILLING UPDATE ONBOARD THE NOBLE TOM MADDEN

3C Metal has successfully delivered DNV-approved engineering, piping and structures for the MPD upgrade for Noble Corporation’s drillship - the Noble Tom Madden - while it is located offshore Guyana. These are currently being installed onboard with zero interruptions to the rig’s operations.

A mezzanine platform to support the manifolds’ HPU, CCU and umbilical reeler, has been installed as well as the equipment. 3C Metal also provided bridges which have been installed onto the rig and are portable with the individual modules that house the MPD manifolds. These bridges were prefabricated onshore and put in position without requiring any welding onboard.

The MPD manifolds have been positioned on the bridges and 3C Metal is completing the interconnecting piping, electrical cables and hydraulic tubing between the manifolds and the rig. Once these manifolds are connected, Noble will be able to commission the MPD and drill their first MPD wells with the Noble Tom Madden.

3C Metal’s work was performed without any LTIs or recordable incidents by strictly following its internal HSE procedures and Noble’s safety policy, ensuring everyone returned home safely.

3C Metal has remained flexible and available to Noble’s requirements. The team and tools were split and transferred to a vessel located in the region to help on another project for Noble for three weeks before coming back to the MPD project.

Once installation is complete, 3C Metal will commence the integration of an MPD system onboard the Noble Tom Madden’s sister vessel, the Noble Don Taylor drillship. Fabrication for this project is already underway.



3C METAL ASIA DELIVERS MULTIPLE SCOPES FOR SEADRILL FOR THE WEST CAPELLA DRILLSHIP

Adding to the long list of projects successfully delivered for Seadrill, 3C Metal has recently carried out six upgrade and installation scopes for Seadrill's West Capella ultra-deepwater drillship. The scopes were carried out by 3C Metal's Malaysian-based entity, 3C Metal Asia, from September to October.

IWOCS AND EXPRO REELER INSTALLATION

In October, 3C Metal Asia carried out installation work for the West Capella's IWOCS and Expro reeler system. To create the foundation for the reeler, the 3C Metal team recuperated beams from Seadrill's West Carina drillship and reinstalled them on the West Capella. 3C Metal's engineering team conducted detailed checks to adapt the beams to match the West Capella's structural drawings.

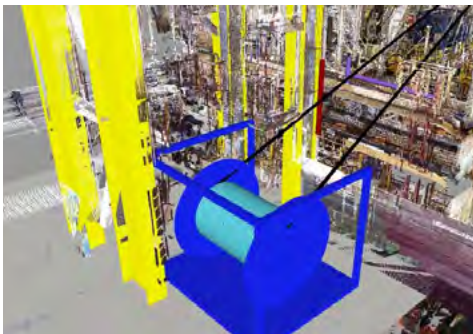
The installation work for the IWOCS included umbilical deflectors, padeyes and foundations for the IWOCS umbilical and equipment. Metallic deflectors made of pipes were prefabricated at 3C Metal's Malaysian workshop and installed on the potential contact area with the umbilical to prevent frictions with sharp edges.

3C Metal fabricated two padeyes (one main and one retention, both with 25 ton capacity) and installed them above the moonpool. Over-water scaffolding was required and was safely erected by 3C Metal. An in-house padeye load tester was developed by 3C Metal to perform a load test of 30 tons. This method removed the requirement for waterbags and significantly reduced the cost to the client.

Using data from the 3D laser scanning survey and an overlay of IWOCS foundation structure design, the 3C Metal engineering team was able to optimize the location of the IWOCS and Expro reelers. Virtual clash checks were performed for the umbilical routings, which were complicated by the fact that they ran through the tensioner cables. The detailed engineering ensured the installation phase ran smoothly and 3C Metal was able to meet the tight schedule requirements set by client to meet departure dates.

The umbilical reeler foundation was recuperated from the West Carina. These were then re-worked and adapted for the West Capella and installed onboard. For the equipment on deck, twist lock pads were installed to directly land the equipment on the deck. For this, some underdeck reinforcement work was done as it was deemed necessary by the engineering team during the detailed checks.

All of the work was completed well ahead of schedule and to the highest standards of safety and quality.



LMRP PLATFORM FABRICATION AND INSTALLATION

3C Metal Asia provided the engineering, fabrication and installation of lower marine riser package (LMRP) platform. The platform provides access to the subsea team for maintenance on the blowout preventer (BOP) unit. In the initial stages, a 3D laser scan survey was performed to develop a clash-free design and optimize prefabrication for onsite installation by 3C Metal.



FLARE BOOM LINES REPLACEMENT

The 3C Metal team provided the survey, design, prefabrication and installation for the replacement of the existing flare boom lines. Prefabrication was carried out in 3C Metal Asia's workshop. Only the ends needed to be adjusted onsite which greatly reduced the time spent onboard. Two high pressure lines were also hydro-tested onsite by the team. The work was completed with zero incidents and within the allocated timeframe.



OVERBOARD CHUTE LINE REPAIR

The repair of the drillship's overboard chute line required the 3C Metal team to cut an opening in the deck to provide access to a void space which was 4 to 5 meters below the A-Deck. The area of work was classified as confined space. The scope required the team to cut and remove the existing 20-inch diameter pipe and replace it like-for-like. The team measured the non-standard angle of the bend and fabricated it onsite - replacing it with very limited access on the work area. All the work was carried out onsite and was completed safely and on time.



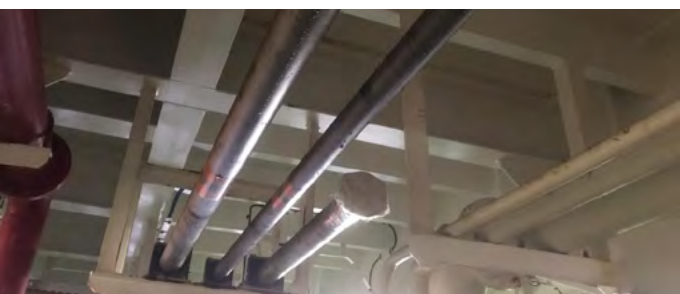
LIFEBOAT DAVIT REPAIR

A section of one of the West Capella's lifeboat davits required repair work. 3C Metal was involved in the procurement of steel from France to match the existing grade. 3C Metal's ABS-qualified welders completed the full fabrication onsite within four days and the work was ABS approved. The lifeboat davit was then load tested by the rig. The work was completed safely and on time.



MAIN RING HYDRAULIC LINE REPAIR

3C Metal was contracted to replace a section of main ring hydraulic return line for the West Capella. This line was overhead under the main deck. The scope was fully done onboard by 3C Metal and well within the estimated timeframe.



3C METAL CARRIES OUT UPGRADE SCOPES FOR SEADRILL ONBOARD THE WEST SATURN DRILLSHIP

3C Metal has successfully carried out several upgrade scopes with Seadrill for their current contract with ExxonMobil onboard the West Saturn drillship while it was anchored in the Caribbean and in transit to Brazil.

The upgrades were initially scheduled to be carried out in Q1 2020 but due to challenges brought on by the COVID-19 pandemic, the work was rescheduled for Q3 2020.

The upgrades included remotely operated vehicle (ROV) reinforcement and integration. A large engineering scope was required for this portion of the work due to new equipment being installed (by the Brazilian ROV supplier) and layout modifications taking place to suite rig's requirements.

3C Metal carried out reinforcement of the underdeck to support the new A-frame and winch for lowering of the ROV as well as sea fastening for all other equipment. Engineering approval from ABS was granted for this scope of work with both the offshore installation and material being inspected and approved also.

Other scopes included ABS-approved low pressure (LP) piping for an independent brine line from the shaker house to the pit room; an independent LP brine line discharge from transfer pumps to the cement unit and mixing tanks; a cement drain line; and a mixing pump manifold x-over. In total these scopes required more than 200 joints to be welded - all of which had to be done onsite due to time restrictions.

The main challenges faced by 3C Metal were related to the mobilization of personnel within Trinidad due to COVID-19 restrictions. Both teams had to quarantine for two weeks in Curacao and transfer over to Trinidad because of restrictions within the country. The final team transited into Brazil with the rig and completed the scopes on time and within budget. Overall the work was carried out successfully during a challenging time and the rig experienced no delays from 3C Metal's operations.



3C METAL INSTALLING UPGRADES ONBOARD THE LIBONGOS DRILLSHIP

3C Metal has recently completed the phase three installation for upgrade work onboard the ultra-deepwater drillship, Libongos, contracted by ENI Angola.

Installation has already been carried out for a TechnipFMC landing string package (including the electrical integration), a HP well test line in the derrick with an access platform, a mud sieving system and a new IWOCS deployment padeye in the moonpool. 3C Metal also carried out the reinstallation of brine and IWOCS equipment, the installation of a second ROV (installation only) and the relocation of a Coflex hose hanger.

The fabrication of all structural items was completed in the



3C Metal Belmet workshops in Cape Town, South Africa, and Walvis Bay, Namibia. The piping material was sourced from Cape Town and Dubai, UAE, and the electrical items were sourced from Cape Town and Aberdeen, UK.

Installation started while the rig was in Walvis Bay, Namibia. It continued during the transit to Angola and was completed in Angola. The integration of two additional monopumps for the centrifuge system is expected Q1 2021.

CLIENT STATEMENT

"3C Metal worked with Seadrill to make the mobilization and project execution work in an otherwise unique situation. The long duration of the project by a single crew showed the capabilities and maximum effort that 3C Metal personnel provide to their customers. We are especially grateful for the continued safe operations on the Libongos as the third parties, 3C Metal being a major one, have helped us maintain our safety focus and drive to be the best."

- Adam Hunt

Technical Leader, Sonangol Libongos, Seadrill Angola

FACTORY ACCEPTANCE TEST PERFORMED FOR TERÉGA'S RCP PROJECT

3C Metal France recently performed a factory acceptance test of a gas delivery station for Teréga as part of the ongoing Renforcement Capens Pamiers (RCP) project.

3C Metal, in joint venture with NGE (GUINTOLI), is undertaking a 20-month EPC contract for Teréga (France's operator responsible for the gas transmission network in the country's southwest region).

The project is for the development of 13 new sites serving gas to several towns along a new 50 kilometer (31 mile) gas pipeline network from Capens to Pamiers, located in the south of France near Toulouse.



3C METAL'S NEW MALAYSIAN WORKSHOP EQUIPPED WITH GANTRY CRANES

3C Metal's entity in Malaysia, 3C Metal Asia, has installed two new 10-ton capacity overhead gantry cranes at the new facility in Johor, Malaysia.

Earlier this year, 3C Metal Asia relocated to Sime Darby Business Park, in Johor (25km from the previous facility). The new larger facilities are better suited 3C Metal's operations in

the region and include an 1800m² workshop and a 2200m² laydown area.



CHARITY BOWLING TOURNAMENT SEES FUNDS ROLLING IN FOR JOHOR CEREBRAL PALSY ASSOCIATION

On 15 October, 3C Metal Asia hosted a charity bowling tournament to raise funds for a Malaysian charity, the Johor Cerebral Palsy Association.

The association is a non-government organization which runs a school that provides treatment and rehabilitation services for children and young adults living with cerebral palsy.

To raise funds, 3C Metal Asia "sold" 28 lanes to individuals, employees and members of the public who wished to participate in the tournament. In total, 55 participants took part and nearly \$1,500 (USD) was raised for the cause.



DIWALI CELEBRATION IN DUBAI

On Sunday 15 November, 3C Metal Middle East's office and workshop staff celebrated Diwali – the Hindu festival of lights.

Diwali is celebrated around the world and symbolizes the victory of light over darkness, good over evil and knowledge over ignorance. It has become an annual celebration for the workshop and office staff in Dubai. Due to social distancing requirements, the celebration was a little different this year. Instead of the usual buffet lunch, each staff member received a packed lunch of delicious Indian food to enjoy in smaller groups, and everyone briefly came together to appreciate the decorations of candles and rangoli artwork in the new workshop.



3C METAL BELMET LEADS THE WAY FOR COMMUNITY AID PROJECTS

3C Metal Belmet has been getting into the spirit of giving by holding some charity events to raise money and awareness for some worthy causes.

GENDER-BASED VIOLENCE AWARENESS

From November 24 to 29, 3C Metal Belmet staff took part in a campaign to raise awareness about gender-based violence and femicide (the killing of women or girls in relation to their gender), particularly due to the increase of these incidents since the start of the COVID-19 pandemic. The team took a stand by wearing black armbands or black clothing to remember the lives lost and the lives impacted by these forms of violence.



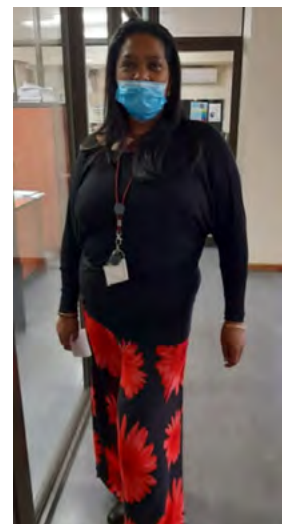
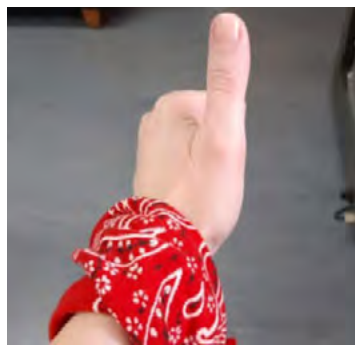
BREAST CANCER AWARENESS

As part of breast cancer awareness month in October, the team in South Africa hosted an event for PinkDrive – a health sector NGO dedicated to providing breast cancer early detection and treatment services, particularly for people living in remote areas. Many of 3C Metal's staff got behind the cause by coloring their hair with spray paint and purchasing pink ribbons.



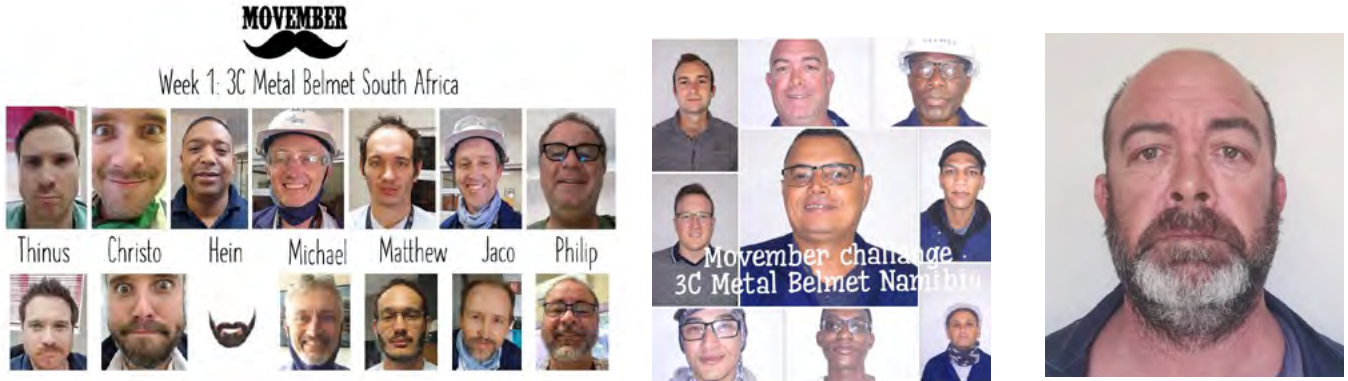
WORLD AIDS DAY

World AIDS Day takes place every year on December 1 and is an international day dedicated to raising awareness of the AIDS pandemic caused by the spread of HIV infection. It's an opportunity for people worldwide to show support for people living with HIV and to remember those who have died from an AIDS-related illness. In support of World AIDS Day, 3C Metal Belmet staff were encouraged to wear something red to work and purchase red ribbons.



MOVEMBER

A handful of gentlemen from 3C Metal Belmet's sites in South Africa and Namibia took part in Movember. Movember is an annual event involving the growing of moustaches during the month of November to raise awareness of men's health issues, such as prostate cancer, testicular cancer and men's suicide. At the end of the month, a winner was selected from both sites for the best beard or moustache. In Namibia, Steven Raine claimed the winning title and in South Africa the accolade went to Philip Zulch.



FUNDRAISING RECORD FOR 3C METAL BELMET'S ANNUAL CHARITY AUCTION

On Saturday 7 November, 3C Metal Belmet hosted its ninth annual charity auction in Cape Town, South Africa, and raised a staggering R461,500 (\$US31,000) for local charities and community projects.

Held at the Kronendal Boutique Winery in Durbanville, the day was filled with live music, entertainment and good food and wine. The event was slightly smaller than previous years due to current restrictions, but it still drew enormous support from clients and friends of 3C Metal Belmet.

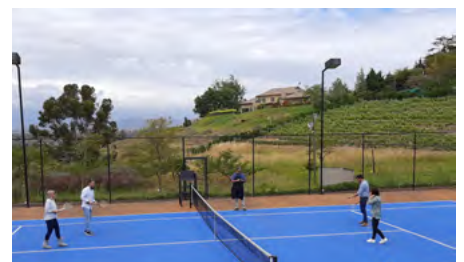
South African rock-blues musician and long-time event partner, Albert Frost, wowed the guests with his performance along with fellow musicians Carla Louw, Marné Gelderbloem and Erick Zulc.

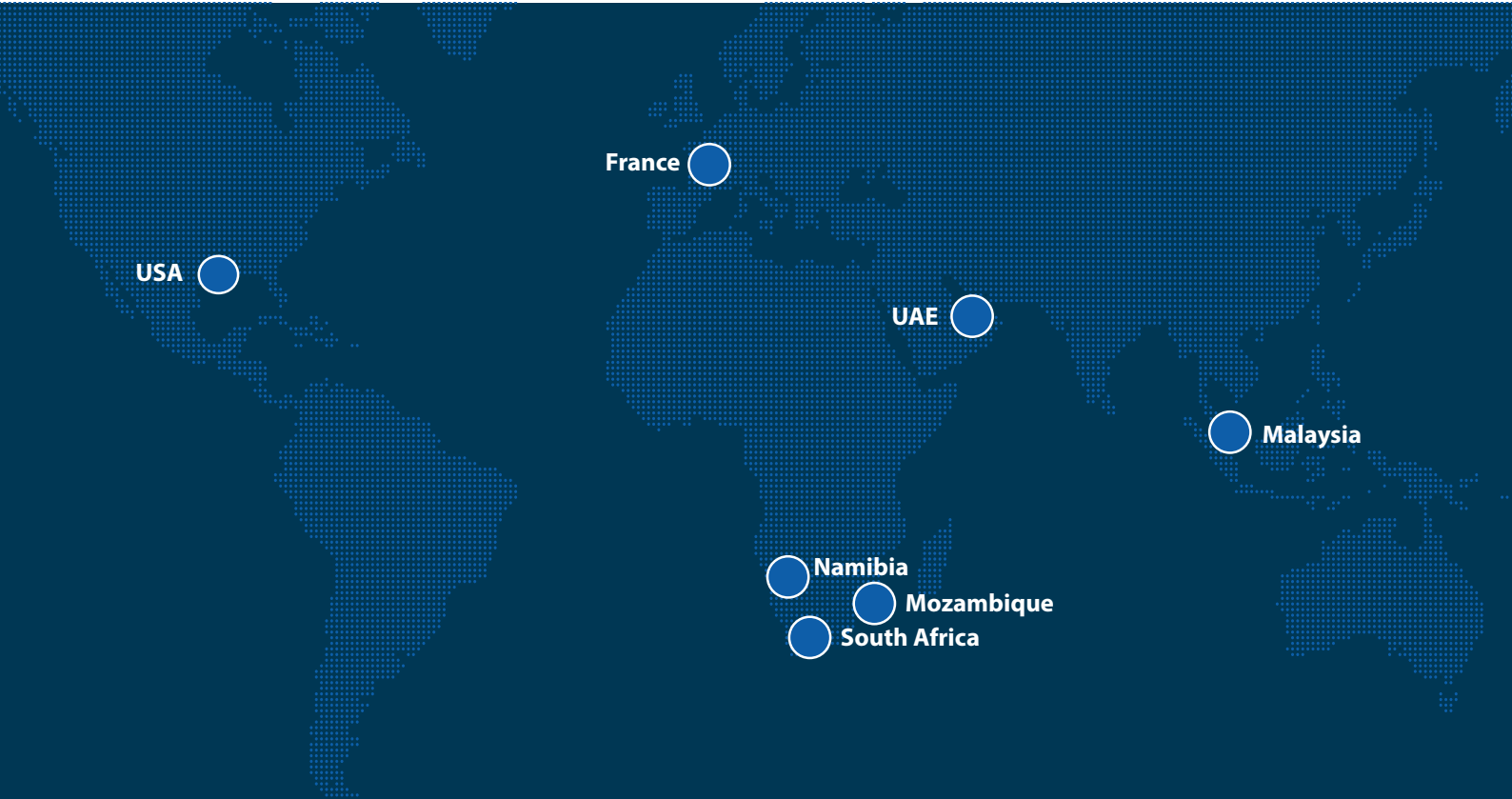
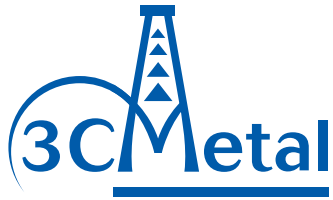
Director of 3C Metal Belmet, Pieter Kroon extended his thanks to the sponsors, buyers and service providers for their donations, effort and time.

"The participation and support of our fundraising efforts was incredible and together we managed to more than double the funds raised last year from the auction, raffle and donations," Mr Kroon said.

"We are continually inspired by the dedication and generosity of all involved who answer the call to give again and again. Lives and situations are being changed, thanks to you," he said.

One of the event's raffle items was a Yamaha 1981 XT500 motorcycle which alone raised R56,000 (\$US4,000). One hundred per cent of the funds received will be allocated to 15 local charities and community projects.





FRANCE

3C Metal/ 3C Supply
3210 Route de Larvath
64150 Sauvelade
France
T : +33 (0)5 59 67 64 67
F : +33 (0)5 59 67 65 55
E : office@3cmetal.com
E : office@3csupply.com

SOUTH AFRICA

3C Metal Belmet/ 3C Subsea
9A Electron Street, Triangle Farm
Stikland 7530 Bellville
South Africa
T: +27 (0)21 949 63 46
E: office@3cmetalsa.com

MALAYSIA

3C Metal Asia Sdn. Bhd
No.2 Jalan Sagai 2,
Sime Darby Business Park,
Taman Pasir Putih,
81700 Pasir Gudang, Johor,
Malaysia
T: +60 (0)7 2520 321
E: asia-office@3cmetal.com

MOZAMBIQUE

3C Metal Belmet
Maputo
Mozambique
T: +27 (0)21 949 63 46
E: office@3cmetalsa.com

UAE

3C Metal Middle East
Plot No. MO 0629
Jebel Ali Free Zone (JAFZA)
P.O. Box 261998
Dubai
United Arab Emirates
T: +971 (0)4 883 0682
F: +971 (0)4 883 0683
E: office@3cmetalme.com

NAMIBIA

3C Metal Belmet
29 Second Street East
Industrial Area
9000 Walvis Bay
Namibia
T: +264 64 274 500
E: info@belmet.com.na

USA

3C Metal USA
Suite 595
5100 Westheimer
Houston
TX 77056
USA
T: +1 713 808 9651
F: +1 832 831 3487
E: 3cmetalusa@3cmetal.com