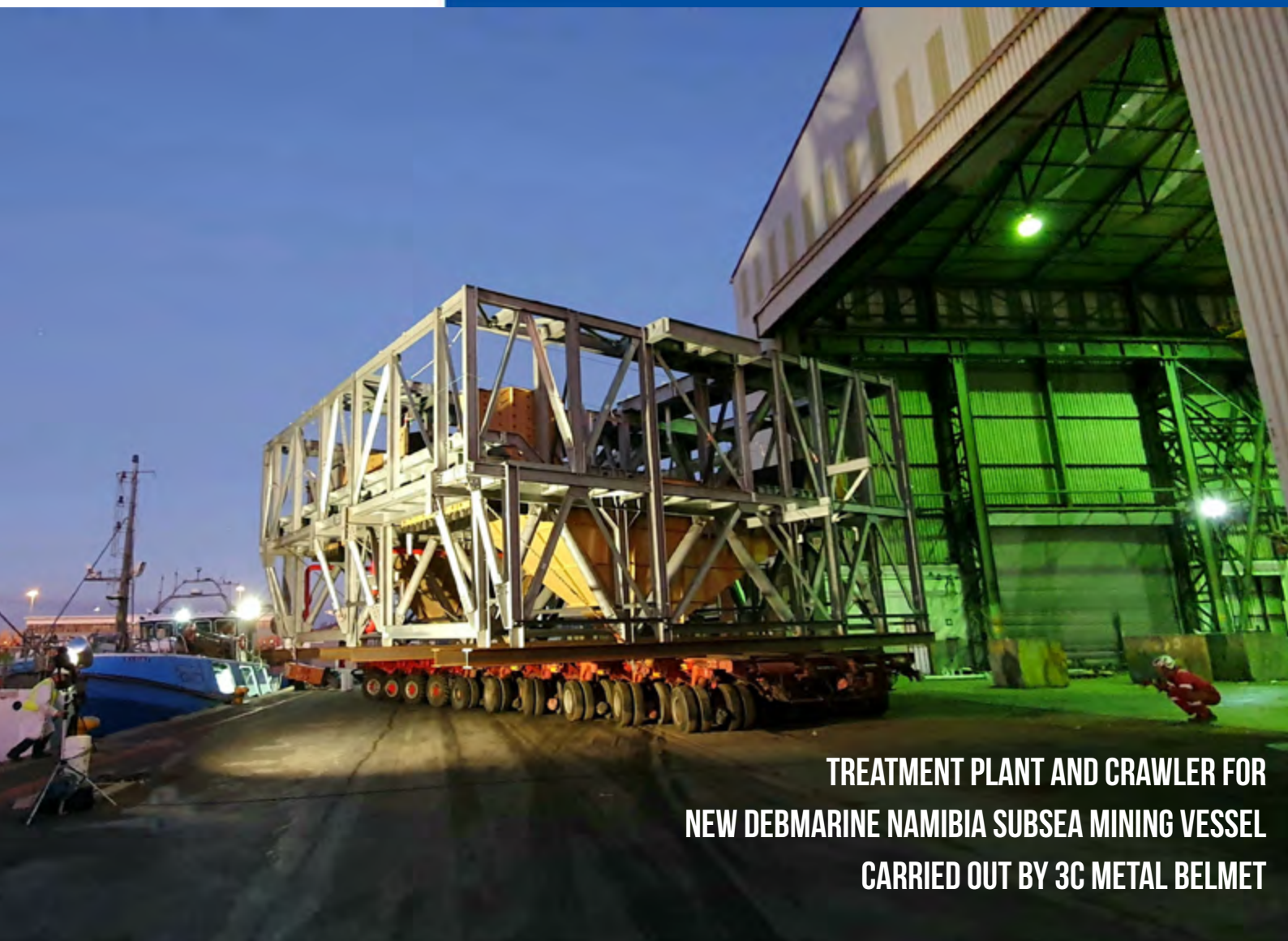


# 3C News



**TREATMENT PLANT AND CRAWLER FOR  
NEW DEBMARINE NAMIBIA SUBSEA MINING VESSEL  
CARRIED OUT BY 3C METAL BELMET**

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**ISSUE 19 | Q3 2020**

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### **NEW OFFSHORE PLATFORM DEVELOPED FOR PLUG AND ABANDONMENT OPERATIONS**

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### **MANAGED PRESSURE DRILLING UPDATE ONBOARD THE NOBLE TOM MADDEN**

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# A MESSAGE FROM THE PRESIDENT AND CEO OF 3C METAL



Welcome to the third edition of 3C News for 2020. We are working hard to manage the impacts of the unfolding global health crisis and maintain business operations as much as possible. Although we are not out of the woods yet, the slight relaxation in travel restrictions means we have been able to mobilize teams and resume work for some projects that were on hold.

Considering the current climate, we have been very fortunate with the level of activity experienced by our entities this year. In Africa, our teams are busy with the delivery of projects for De Beers Marine, including a major project for a treatment plant and crawler for a new subsea diamond recovery vessel. The project is on track

and scheduled for completion in 2021. In France, we have secured several EPC contracts with Teréga for upgrade and maintenance work for pipelines and substations along the gas transmission network in the southwest region. We were particularly grateful for the award of one of the EPC contracts in April when France was at the height of its strict lockdown period.

Our momentum and traction with MPD integration projects remains strong. 3C Metal USA currently has two MPD integration projects underway for Noble Corporation, with fabrication being supported by our Middle East workshop. Bidding activity and the potential award for new MPD integration projects remains high for our entities in the USA, the UAE and Malaysia.

These contract awards and improvements in business activity are encouraging, however, we are still experiencing uncertain times. Moving forward, in order to put us in the best position, we must remain focused on business aspects that we can control. Making further efforts to branch out and deliver our services to new industries and new regions is fundamental to our success and development.

As recently announced, 3C Metal has established a formal partnership with Fabrication Systems Uganda Limited, a steel fabrication company based in the Ugandan capital, Kampala. Our

combined expertise and resources will enable the partnership to offer turnkey engineering solutions to clients operating in the oil and gas industry in Uganda. With operations in South Africa, Namibia and Mozambique, and now with the partnership in Uganda, 3C Metal is steadily strengthening our manufacturing capabilities in Africa.

In other regions, having upgraded our facilities in the UAE and Malaysia, we are now in the process of establishing a workshop in the USA. The aim is to have local, in-house fabrication capabilities in the USA to reduce lead times for projects in the region. We expect to have the new workshop facilities established before the end of the year.

We would like to thank our clients for their trust in 3C Metal. We are grateful to have been awarded new work during this period, and to have our clients' confidence to prepare for the relaunch of stand-by work.

I hope you enjoy reading our highlights and should you have any feedback, or would like to know more about our new developments, please don't hesitate to contact us.

**Philippe Boy**  
President and CEO of 3C Metal

# A MESSAGE FROM THE OPERATIONS DIRECTOR OF 3C METAL FRANCE



Each year is a new challenge for 3C Metal France. This year, like many companies, we have been impacted by the health and economic crisis caused by COVID-19. Fortunately, we are slowly starting to experience an increase in business confidence throughout France. After slump in local activity in early 2019, I'm pleased to say that this year, despite the odds, we have been successful in securing some complex and exciting new projects.

The team recently completed a project for a new

working platform for installation on a client's decommissioning vessel in the North Sea. The project will support plug and abandonment operations and is due for completion this month. The overall project has been managed by 3C Metal and engineered in partnership by Dietswell Engineering and 3C Metal.

We have been awarded several major EPC contracts this year by Teréga (France's operator responsible for the gas transmission network in the southwest region). During the lockdown Teréga awarded us an EPC contract to undertake the RCP project. The project is for the development of 13 new sites serving gas to several towns along a new 50 kilometer gas pipeline network from Capens to Pamiers, located in the south of France near Toulouse.

Other ongoing EPC contracts for Teréga include the RECOMP project for the integration of two new gas compressors for Teréga's underground natural gas storage facility in the Lussagnet commune. Another is the Galgan-Aurillac project to modernize seven disconnection stations on a section of pipeline between the Galgan and Aurillac communes.

Our activity outside of the oil and gas industry is growing steadily. We have recently been involved in a collaboration for windfarm platforms with Chantiers de l'Atlantique (Atlantic Shipyards) in Saint-Nazaire, France. Our team also completed a project for a new bottling line for the Source du Val Saint Lambert water bottling plant located outside of Paris.

We are working towards enhancing our survey and workshop capabilities and have recently purchased new jib cranes, a new cutting machine, installation equipment, new vehicles and new dimensional control tools such as a 3D laser scanner and GeoMax total stations. We have also made investments in our facilities by extending our office and making eco-efficiency improvements.

Looking towards the future, we will explore new ways to further build upon our reputation for reliable holistic engineering solutions.

**Damien Secco**  
Operations Director of 3C Metal France



# TREATMENT PLANT AND CRAWLER FOR NEW DEBMARINE NAMIBIA SUBSEA MINING VESSEL

In 2019, 3C Metal Belmet was awarded the fabrication of the treatment plant and crawler for the new subsea diamond recovery vessel by De Beers Marine. This vessel, which is called AMV3, will increase the current annual production of Debmarine Namibia (De Beers Group's Joint Venture with the Namibia Government) by nearly 35 per cent.

The treatment plant scope amounts to approximately 1700 tons of structural steel, mechanical components, piping and plate structures, and includes workshop detailing, fabrication, supply, delivery, pre-erection and disassembly to allow for large section installation lifts onto the vessel.

Due to the size and magnitude of the project, all of 3C Metal's African entities are being utilized for the work - 3C Metal Belmet in Cape Town, South Africa, 3C Metal Belmet in Walvis Bay, Namibia, as well as CINCO Engineering (partly owned by 3C Metal Belmet) in Cape Town Harbour, South Africa.

Final assembly and integration will be performed at K&L Berth in Cape Town Harbour for final installation on the vessel. Fabrication of the treatment plant commenced in Q4 2019 and will continue until Q1 2021.

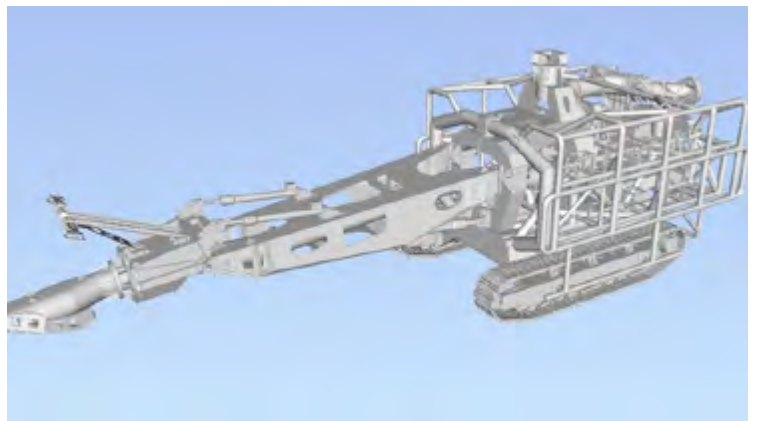
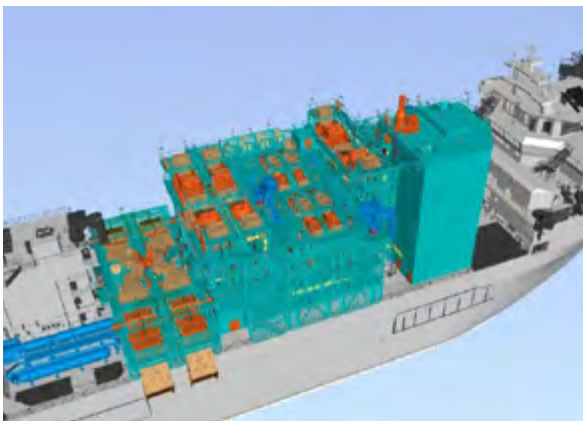
3C Metal Belmet was also awarded the contract for fabrication of 2-off subsea crawlers' steelwork with the first delivered in July 2020. The first crawler serves as a replacement crawler

for the existing Debmarine Namibia mining vessel, MV Mafuta. The steelwork for the second crawler is earmarked for delivery Q4 2020 for the AMV3.

A single crawler, which weighs 300 tons once complete, entails complex fabrication work, heat treatment, machining as well as collaboration with different contractors in order to assemble the entire structure. The main structure of the crawler, which weighs over 95 tons, will be transported as a single unit from 3C Metal Belmet's workshop to the De Beers Marine workshop, in Cape Town.

The vessel is currently under construction in Romania and is expected to arrive in Cape Town Harbour in Q2 2021 for the integration of the mining plant, crawler and treatment plant on the vessel. It is expected to deliver first diamond production towards end 2021.

3C Metal Belmet is proud to be associated with this project as fabrication contractor to De Beers Marine.





## 3C METAL PARTNERS WITH UGANDAN COMPANY, FABRICATION SYSTEMS UGANDA LIMITED

3C Metal and Fabrication Systems Uganda Limited (FSUL) have established a formal partnership, bringing together two leaders in steel fabrication services for heavy industry.

Established in 2009 and based in Kampala, Uganda, FSUL provides turnkey engineering and manufacturing services for civil construction and structural steel, aluminum and general metal fabrication projects.

The combined expertise and resources of 3C Metal and FSUL enables the partnership to offer turnkey engineering solutions to clients operating in the oil and gas industry in Uganda.

Partnership benefits:

- FSUL's manufacturing capabilities in Uganda are supported by 3C Metal's centralized engineering office in the Middle East.
- FSUL's access to a network of local suppliers is complemented by 3C Metal's dedicated global procurement service.
- FSUL's facility in Kampala, Uganda, is fully equipped to run all operations in-house for a large number of manufacturing requirements. Further support is possible through 3C Metal's seven strategically located workshop facilities around the globe.
- FSUL and 3C Metal have highly-skilled installation teams including fitters, welders, electrical engineers and other qualified technicians.

To find out more about the partnership, contact our Projects Team: [cperez@3cmetalm.com](mailto:cperez@3cmetalm.com)



**3C Metal** & **FABRICATION SYSTEMS UGANDA LIMITED** *Fabrication systems*





# NEW OFFSHORE PLATFORM DEVELOPED FOR PLUG AND ABANDONMENT OPERATIONS

3C Metal's team in France has just completed the fabrication of a new working platform for installation on a client's decommissioning vessel to support plug and abandonment operations.

The project has been managed by 3C Metal and engineered by Dietswell Engineering and 3C Metal. Specific equipment that was manufactured included fully-automated drawwork (controlled from a doghouse), utility winches, crown and travelling blocks. The platform was sent by barge from France to the North Sea for commissioning.



## MULTIPLE EPC CONTRACTS UNDERWAY FOR TERÉGA

3C Metal France has a long and proud history of delivering EPC projects for Teréga. Teréga is the operator responsible for the gas transmission network in southwest France. 3C Metal are currently undertaking three major EPC contracts for Teréga as part of their major transport network development.

### THE RECOMP PROJECT

The project consists of the integration of two new gas compressors in the Lussagnet Gas storage facility. Located in the southwest region of France, the Lussagnet site is an underground natural gas storage facility operated by Teréga. The new gas compressors will change the existing process of sending the decompressed gas to the atmosphere by re-injecting the gas back into the system.



### THE GALGAN-AURILLAC PROJECT

The project involves the modernization of seven gas interconnection grids along a section of pipeline between the Galgan and Aurillac communes. The project is well underway and four of the sites have been connected this year, as per schedule. The team will demobilize before the end of the year and complete the three remaining ones in mid-2021 once winter is over.



### THE RCP PROJECT

3C Metal - in joint venture with NGE (GUINTOLI) - is undertaking a 20-month EPC contract for Teréga. 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. The Capens site is nearing completion.





# NEW BOTTLING LINE CONSTRUCTED FOR FRENCH WATER BOTTLING PLANT

3C Metal France recently completed a project for a new bottling line for the Source du Val Saint Lambert water bottling plant located in Saint-Lambert-des-Bois near Paris.

Owned by OGEU Group, the plant produces millions of bottles per year for distribution to local supermarkets, restaurants and hotels.

3C Metal was commissioned by Semo to construct a new bottling line. The work involved piping for utilities (including the ice-water network, the CO<sub>2</sub> network and the 40 bar air supply from the compressors), installation of an automated filtration skid and associated piping, and interconnections for the mineral water network and clean-in-place unit. By-pass and regulation lines were constructed for the cold network. The team also completed the installation and connection of a 40 bar air quality network and accessories including a filter, tank and dryer.

The project was carried out over three months and required approximately 1000m of piping constructed and installed. This project is a prime example of how 3C Metal's specialized services for high pressure and low pressure piping can be utilized for industries outside of the energy sector.





# MANAGED PRESSURE DRILLING UPDATE ONBOARD THE NOBLE TOM MADDEN

3C Metal has been installing a managed pressure drilling upgrade onboard the drillship Noble Tom Madden while it is conducting operations offshore Guyana.

The project is being delivered with engineering, prefabrication and installation running simultaneously in order to ship and deliver the system earlier. The scope includes hose supports and an access platform in the moonpool, bridges to support the MPD manifolds and structures to support the HPU, CCU and umbilical reeler. 3C Metal is also supplying and installing the piping, hydraulic lines and electrical cables.

Material was fabricated and supplied from Houston with support from 3C Metal's workshop in Dubai. Engineering was performed hand-in-hand with Noble until its completion in September - three months after the first

installation team had already arrived onboard. 3C Metal has overcome challenges caused by COVID-19 restrictions by planning material shipment and team mobilizations months in advance.

3C Metal managed to install and connect new piping and structures between wells in order not to impact the drilling program of the client. As with every project, safety remains 3C Metal's first priority. Even in hazardous conditions, the 3C Metal team is flexible and able to adapt to any changes in working conditions in order to deliver the project safely.



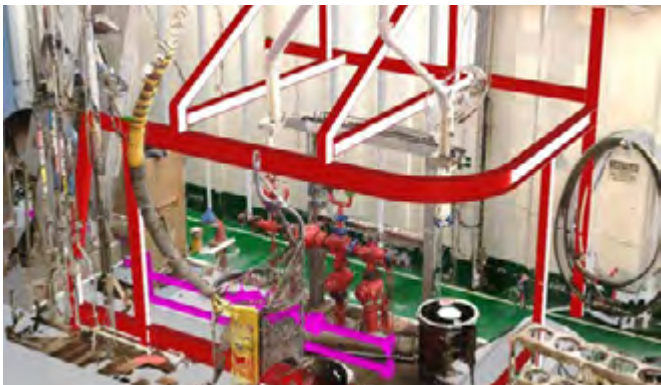
## 3C METAL USA INSTALLS BLAST CURTAINS FOR DIAMOND OFFSHORE'S OCEAN BLACKLION

In an effort to increase safety measures, Diamond Offshore made a request for 3C Metal USA to design and install blast curtains for the Ocean BlackLion drillship.

Blast curtains are designed to stop any projectiles caused by the unlikely event of a high pressure failure in the area of the drill floor. In total, four curtains and supporting structures were required – three for the choke-and-kill manifold and one for the cement manifold.

3C Metal was responsible for the design, fabrication and

site installation of the supporting structure. Laser scans were completed while the drillship was in Pascagoula, Mississippi. The scans aided the engineering of all structural requirements and enabled all of the material and structures to be prefabricated. The successful installation resulted in a safer working environment for personnel onboard the drillship.



## PIG LAUNCHERS, RECEIVERS AND A DRAIN TANK FABRICATED FOR SOFEC IN MALAYSIA

3C Metal's team in Malaysia was commissioned by SOFEC to design and fabricate pig launchers, pig receivers and a drain tank.

The drain tank, which is 11.1 cubic meters in size, was designed and fabricated as per ASME Section VIII, Div.1. The team worked hard to deliver the project safely amidst the complications of the COVID-19 pandemic and adopted additional safety measures to manage the multiple lifting operations. The work was carried out at 3C Metal Asia's new workshop location in Sime Darby Business Park Pasir Putih, in Johor, before being shipped to China for installation on a floating production storage and offloading vessel.





## 3C METAL EXPANDS ITS FABRICATION CAPABILITIES IN ANTI-CORROSIVE PIPING SYSTEMS

In conjunction with developing services in green technology, 3C Metal's technical teams and workshops have been enhancing the range of fabrication capabilities to align with new marine industry standards.

3C Metal has qualified procedures (PQRs) for welding duplex, super duplex and also SMO 254 austenitic stainless steel - all ABS reviewed and approved. Several 3C Metal welders have been qualified as per these new procedures as well as being trained to use extra precautions to avoid the risk of contamination from lower grades. The 3C Metal team is available for fabrication and repair work for equipment and piping (including scrubbers, exhaust lines and sea-water lines) using these grades.

In addition, 3C Metal has qualified personnel to undertake GRE piping fabrication work. GRE is a great alternative for handling corrosive fluids as it allows for a cost-effective installation and provides very high corrosion protection. 3C Metal is now equipped with the dedicated tools required for onsite GRE piping bonding and lamination as well as being able to prefabricate spools and deploy teams onboard vessels.

With those continuous improvement to our capabilities, 3C Metal remains at the forefront of today's marine specifications.



## OPENING CEREMONY OF NEW WORKSHOP IN DUBAI

On 13 September, 3C Metal Middle East marked the official opening of our new workshop and office facilities.

As part of the celebrations, traditional Indian decorations and art were displayed and the ritual, Puja, was performed as a blessing. The new facilities are part of the upgrade and expansion work that was carried out following the purchase of two neighboring plots in the Jebel Ali Free Zone in Dubai. 3C Metal Middle East's facilities are now triple the original size and the new workshop is ready to undertake fabrication activities.

The decision to expand was based on 3C Metal's commitment to pursue continual growth to keep up with clients' needs and to provide appropriate infrastructure and facilities for staff. It is anticipated that the increased capacity and space will open doors for new projects and partnerships.





## 3C METAL'S 'MY HAND IN SAFETY' 2020 CAMPAIGN

In August, 3C Metal launched a new safety campaign to raise awareness about the importance of hand safety.

Hand injuries have been identified as a common risk, particularly for those working in 3C Metal's workshops and onsite. The campaign aimed to get employees thinking about hand safety and the steps to be taken to reduce the risk of injury. The campaign also reinforced the importance of hand hygiene due to COVID-19.

The theme of the campaign was "My Hand in Safety". The campaign involved a presentation to employees to encourage hand safety and hygiene awareness, as well as a range of activities. The activities included having each employee place a handprint on a canvas and certificate to pledge their commitment to hand safety. Other campaign

efforts included a hand sanitation activity and small gifts for employees with the campaign logo.

The campaign was rolled out to all the Group's entities in Q3 2020. During this time, posters of the hand prints were displayed around 3C Metal's premises, reminding all of their commitment to the campaign. For the rest of 2020, "My Hand in Safety" will be discussed during toolbox talks.

3C Metal will continue to explore new ways to raise awareness about workplace hazards and the importance of keeping safety as the number one priority.



## HAND SAFETY CAMPAIGN DANCE-OFF

Coinciding with our Hand Safety Campaign launch in August, our teams in Namibia and the Cinco Engineering workshop tried their hand at a friendly dancing competition.

Following a day of activities highlighting the importance of reducing the risk of hand injuries in the workplace, the 3C Metal Belmet team in Namibia got together to perform the "Jeruselema Challenge" – a famous dance performed to the hit song Jeruselema by South African musician Master KG. Not to be outdone by Namibia, the teams at the CINCO Engineering and Cape Town Harbour sites engaged in a dance-off during the launch of the Hand Safety Campaign.



## 3C METAL BELMET TAKES PART IN FOOD HAMPER PROJECT TO CELEBRATE MANDELA DAY

In celebration of Mandela Day, a number of 3C Metal Belmet employees in Cape Town, South Africa, assisted in a community project to help families and individuals who have limited income. A range of food items were donated by staff and from the collection more than 90 food parcels were delivered to families in need.





## TOUR PÉDESTRE DU BÉARN RELAY RACE



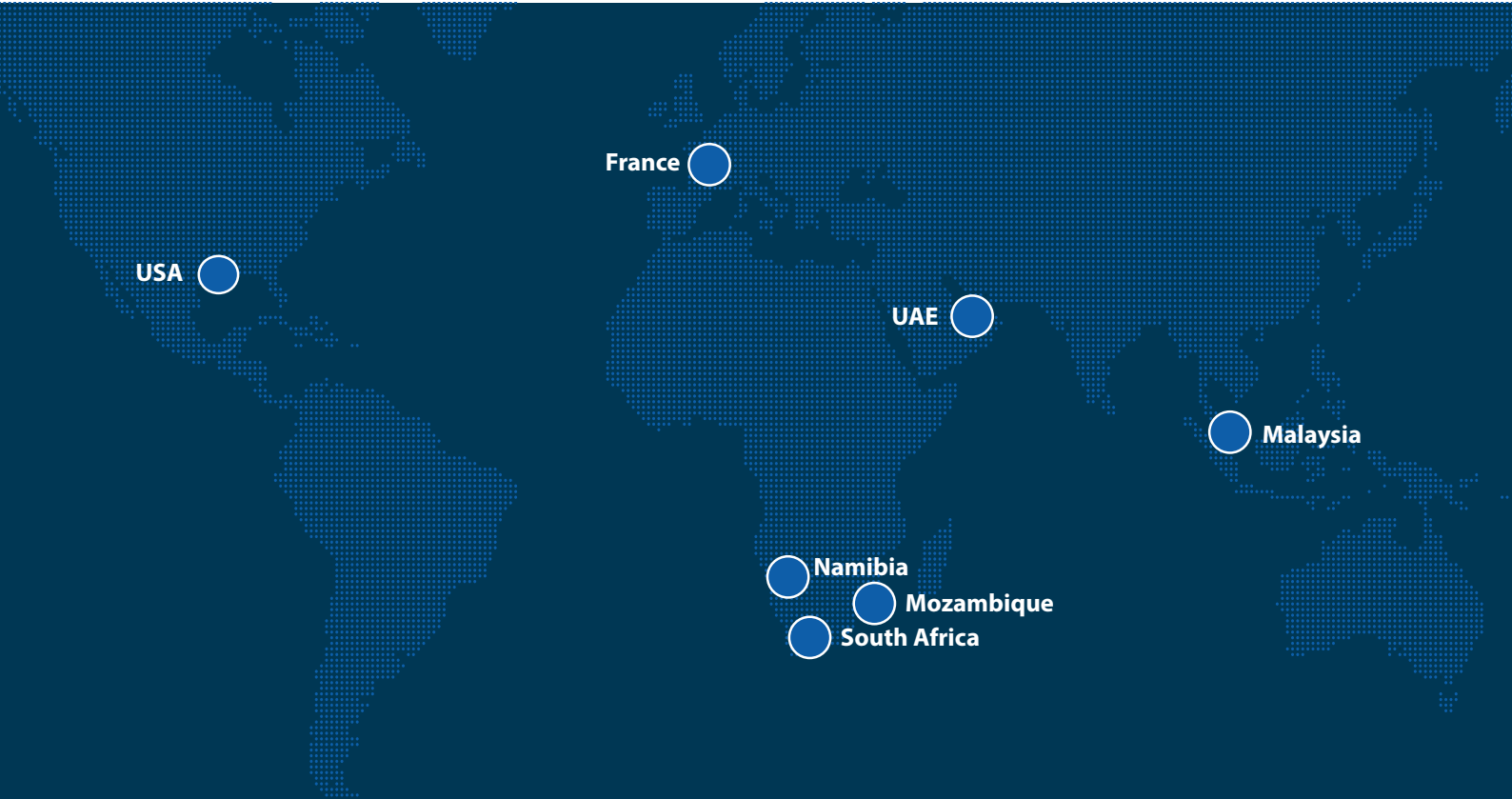
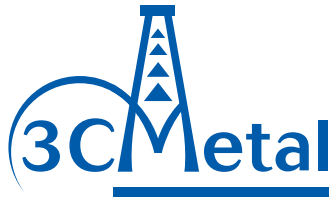
On Saturday 3rd and Sunday 4th of October, seven runners representing 3C Metal France took part in the Tour Pédestre du Béarn (the Tour of Béarn foot race). Taking place in the south of France, the event is an annual two-day relay race.

The route starts from Pau and goes from village to village in the Béarn region, passing through the foothills of the Pyrénées before descending to the finish line at Place Clémenceau in Pau. Over the course of the event the teams of seven runners cover a distance of nearly 200 kilometers (125 miles).



Representing 3C Metal [pictured left-to-right in top left corner] were Philippe Boy, Fred Laurent, Damien Secco, Loïc Geneau, Bruno Collette (board member and founder of 3C Metal), Jay Radhakrishnan and Jean-Yves Baudoux. The team battled continuous rain, wind, cold temperatures and steep ascents before securing 112th position out of 125 teams. Their overall time was 19 hours 5 minutes and 22 seconds.





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