

oil & gas



# CONNECTIVITY AND 4G LTE COVERAGE FOR OFFSHORE OIL & GAS OPERATIONS

## Constantly Expanding

We are proud of our communication network of fibre cables, radio links and 4G, providing so many with high-capacity, resilient and low-latency connectivity. But we are always looking to improve. Our goal is to always be the preferred offshore network provider, and we are constantly expanding our infrastructure and improving our capacity.

- digital services
- wind energy
- maritime
- oil & gas
- carrier

Follow us:



TAMPNET.COM

oil & gas

*Raising the Standard*

## WE ENABLE

### THE CONNECTED WORKER

- Crew with wireless devices will have real-time access to data.
- Optimize planning and execution of day-to-day operations.
- Collaborate across installations.
- Easily coordinate with control room operators, onshore experts and fellow workers.

### ROVS AND SUBSEA OPERATIONS

- More effective subsea inspections, maintenance and repairs (IMR).
- Crystal clear, HD live streams to other control rooms and vessels.
- Advanced decision-making in real-time.

### IOT AND OFFSHORE RIG MONITORING

- Remote monitoring with ultra-sensitive sensors that trigger inspection and maintenance.
- Digital twin technology and the use of big data analytics for optimized operational performance.
- Improved worker safety, especially for lone workers in hazardous working environments.

### OFFSHORE RIGS

- xxxxxxxxxxxxxxxxx

### CONTROL ROOM EXCELLENCE

- Oil companies can control platform operations from remote onshore control rooms.
- Crystal clear, HD live streams to other control rooms and vessels.
- Integrated and optimized operations.
- De-carbonized operational footprint.

### CREW WELFARE

- Your staff will be able to stay in touch with family and loved ones while at sea.
- 4G LTE is a must for FaceTime, video-conferencing and other mobile services.
- We make your vessel a great place to work.

## Fibre Optics

Fibre optic communications revolutionize operations offshore – the distance between onshore and offshore has never been shorter.

Compared to traditional satellite communication, there is virtually no delay. This enables faster and improved decision-making, instant distribution of critical data, improved safety and major cost savings.

With real-time communication, you can benefit from your core expertise while keeping them onshore, available for multiple operations. Not to mention the positive effect it has in an HSE perspective, reducing the carbon footprint of almost every operation.

Currently, Tampnet serve more than 350 oil and gas platforms, FPSOs, exploration rigs and wind farms in the North Sea. In total, we own and operate an infrastructure based on 3,000 km and 80 radio links.

## Wireless Connectivity

[4G – LoS]

**4G LTE:** In order to extend the reach of our services to include rigs and vessels in motion, we have introduced an offshore 4G network. This service gives mobile and rotating rigs and vessels reliable communications links, even in rough weather. A much faster and more dependable alternative to satellites.

**Line of sight:** Fibre cabling may be complicated and costly in certain areas. In these cases, the use of point-to-point radio link connection is a well proven technology – robust, high capacity and with low latency. Tampnet has connected a large number of fixed offshore platforms via radio link. We offer fully managed connectivity through approximately 50 radio link hops, several of which are part of our core network.

### LEGEND

Current 4G, NB- IoT, CAT M1 coverage



Future 4G, NB- IoT, CAT M1 coverage



Offshore Assets



LoS



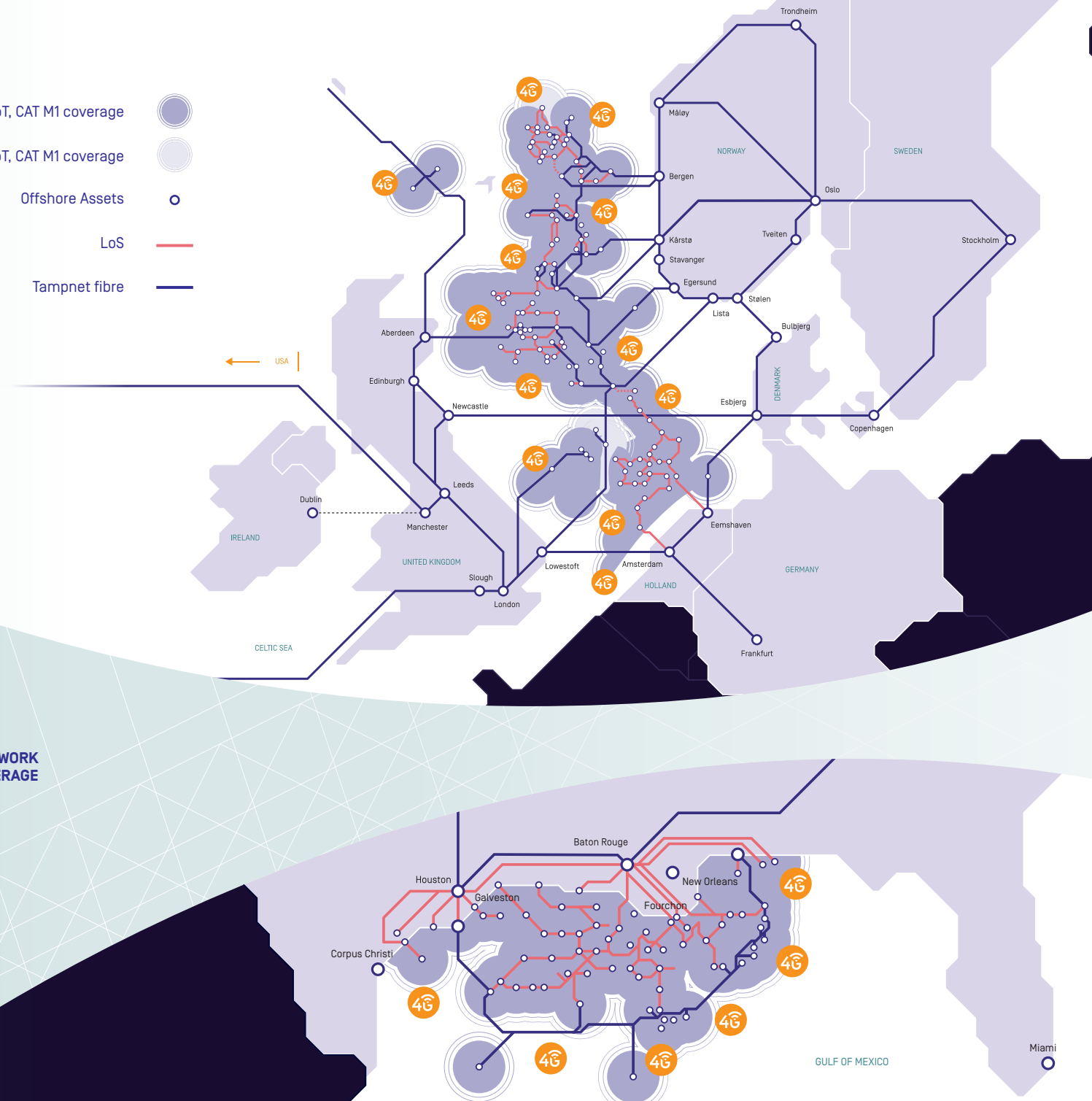
Tampnet fibre



NORTH SEA

### FIBRE OPTIC NETWORK AND 4G LTE COVERAGE

GULF OF MEXICO



## SERVICES

### CONNECTED PLATFORM

We connect offshore platforms with Point-to-Point fibre, Point-to-Multipoint (offshore LTE) and with Line-Of-Sight radio links. Our high capacity and low latency get's your platform online and enables remote control.

### MARINE COVERAGE

We provide offshore coverage for platforms and mobile rigs. Service vessels can make use of our offshore coverage area reaching far out from the installations. High capacity and low latency 4G or NB-IoT.

### INTERNAL COVERAGE

In most cases our 4G and NB-IoT marine coverage also works inside platforms, rigs and floatels. If not we install antennas to provide internal coverage to make sure everybody working indoor is connected.

### DIGITAL SERVICES

We enable your connected workers to use their smartphones, tablets and wearables. We enable monitoring with sensors and get your data to the cloud. We offer security services that protect you from digital threats and cyber-attacks.

### MOBILE DATA & VOICE

You can roam on our offshore network. Data streaming, text and talk. Work or leisure. Easy to get started with Tampnet eSim.

### ENGINEERING & CONSTRUCTION

If you want to connect offshore installations with fibre optic cables we can do the engineering work for you. If you want a complete fibre turn-key project, we can do that for you too.

*Raising the Standard*