

# **Short introduction to Telenor Maritime**

**November 2016** 

## Telenor Maritime – The Mobile Operator at Sea







**Fisheries** 



"We want to be our customers' favorite partner in digital life"

Sigve Brekke, CEO telenor Group

# The mobile industry has driven radical changes in how we work, collaborate and communicate onshore



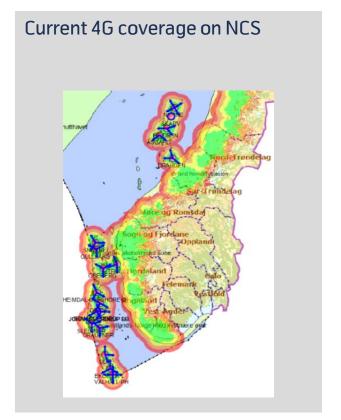
- The offshore society has been left behind
  - Hindering innovation
  - Losing productivity gain
- Telenor Maritime is the mobile operator at sea
  - Removes the "digital divide" Supports innovation
  - Enables smarter ways of working
  - Internet for All
- Partnering with Technology providers to support digitalization and the Internet of things
- Cooperation with Telenor Connexion global leader in the IoT market



### Smart utilization of hybrid backhaul

Seamless connectivity from base to field – Utilizing Telenor's portfolio of satellites, land-based network and Telenor Maritime's offshore network VSAT + 4G data links

LTE/WCDMA





# Building oil-field coverage offshore Norway is the first step in a global strategy

# Strategic cooperation with Statoil enables efficient deployment of a complete offshore 4G network

- Field coverage for rigs and vessels
- Dedicated network for Statoil's operations using Statoil's spectrum
- A public 4G and GSM service for everyone else using Telenor Maritime's own spectrum

#### Telenor Maritime holds own frequency rights

- On the NCS
- Acquires in other geographical as needed

#### First step in a global-coverage network

- Expanding into other geographies
- Utilizing roaming agreements with 350 operators world-wide





### Mobile technology enables business reengineering

#### Case: ROV operations

- 4G coverage 40 mbps
- Moving ROV operation from offshore to onshore
  - Multi HD video streams possible
  - Low latency ROV control signaling possible

#### Significant benefits

- Saves cost Personnel onshore, not offshore
- Easy access to expertise when needed video streaming



# Case 4: Use same IT tools offshore and onshore

- 4G coverage 40 mbps
- The digital divide is removed Apply same tools everywhere

#### Significant benefits

- saves on development, maintenance and training
- Improved workflows always online













