

Introducing

## The North Atlantic Loop

Delivering Secure, Resilient Trans-Atlantic Capacity

Andy Hudson Chief Network Officer

#### What We Do

# AQUACOMMS

#### FOCUS – Fibre Optic Cables Under the Sea

#### We FOCUS on:

- Subsea Networks
- The North ATLANTIC market only

#### We DELIVER:

- High-bandwidth Transport-layer services across the Atlantic
- From 1 year leases to 20 year IRUs

#### We OPERATE:

- As a Carriers' Carrier; we are independent, neutral and only sell in the Wholesale space
- Full 24/7 Network Management Centre monitoring wet plant, terrestrial and all facilities.
- Networks we built and own that allows us to deliver end end services in as little as 72 hours

#### This is all we do

This FOCUS makes us Unique in the market and your ultimate Partner for your Atlantic network needs



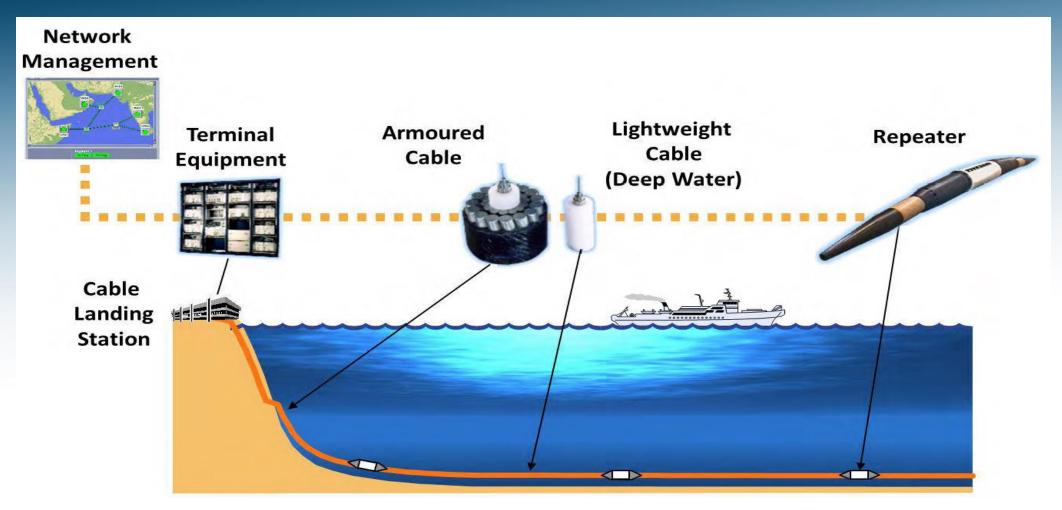








• End-end design and project





Survey and construction hazards



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• End-end design and project



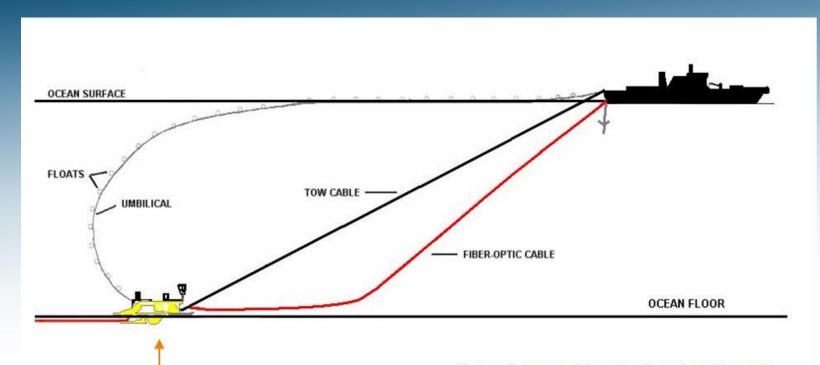


Sea plow used to

bury cable



• End-end design and project



**Cable laying** 

Note: distance of the plow from the ship, and lengths of the fiber-optic cable and tow cable, vary depending principally on sea-floor depth.

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• End-end design and project



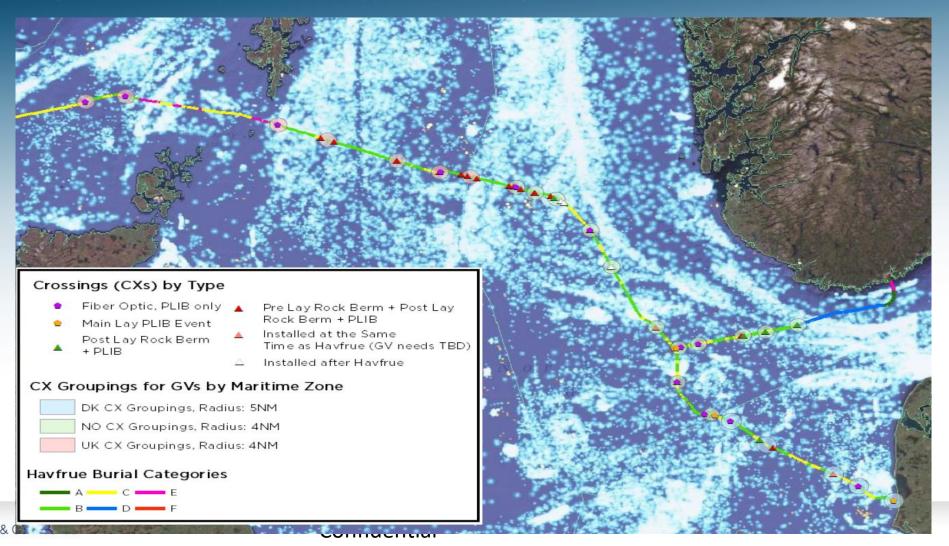
#### **Cable landing**



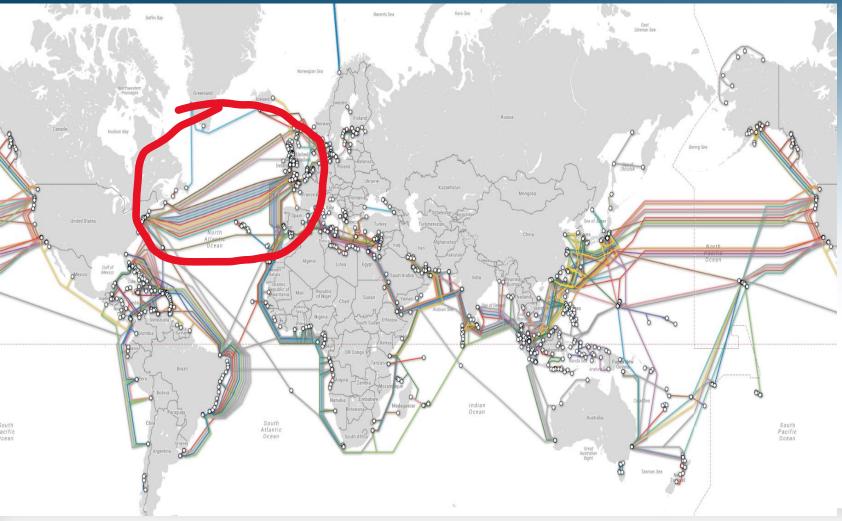




Global fishing watch data input to cable type and routing



Transatlantic systems and the future



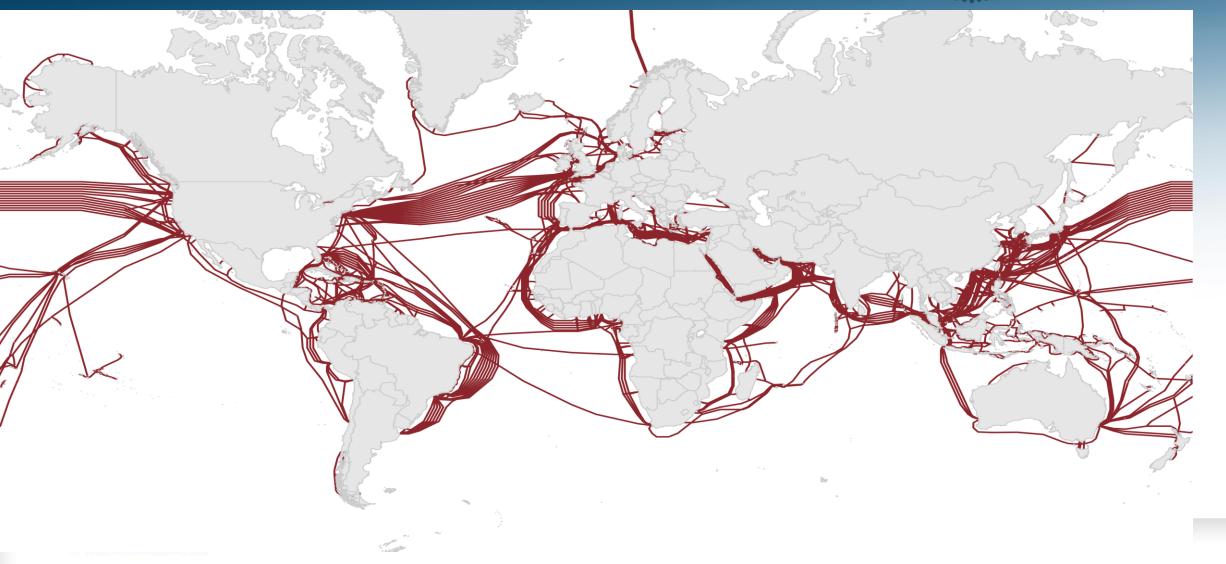


- As of early 2018, there are 448 submarine cables in service globally
- 1.2m Km of cables
- 99.7% of international data is transmitted under water
- Growth of data generation, data consumption, data centres, terrestrial fibres and subsea are all interrelated
- Subsea cables are responsible for \$10 trillion in transactions every day

## **Evolution of Subsea Cables**

Active Submarine Cables, September 2018 + Planned Cables





## **Evolution of Subsea Cables**

Only Active Cables with RFS Post-2011 + Planned Cables





#### The Atlantic Market



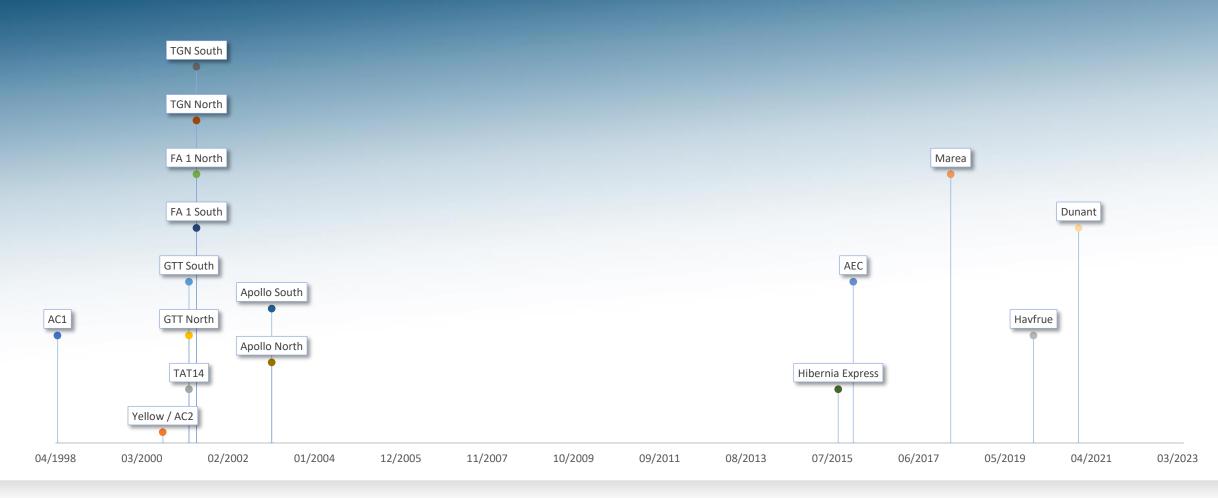
#### Background

- Currently, there are 14 separate Trans-Atlantic routes connecting North America to Europe
- 11 systems were RFS between 1999 2003
- 3 systems have launched since 2015 (Hibernia Express, AEC-1 and Marea)
- Estimated useable life is 20-25 years; maybe 15 years for economic reasons
- Current profitability driven largely by O&M revenue derived from early indefeasible right of use (IRU)
  contracts
  - These are extremely profitable by current comparison
  - Once the IRU ends and there is no more O&M revenue, this will be a deciding factor on the future of the cable
- The market is now being designed around a smaller number of next generation cables built since 2015
  - New technology
  - Geographical diversity on both sides of the Atlantic, driven by OTT requirements

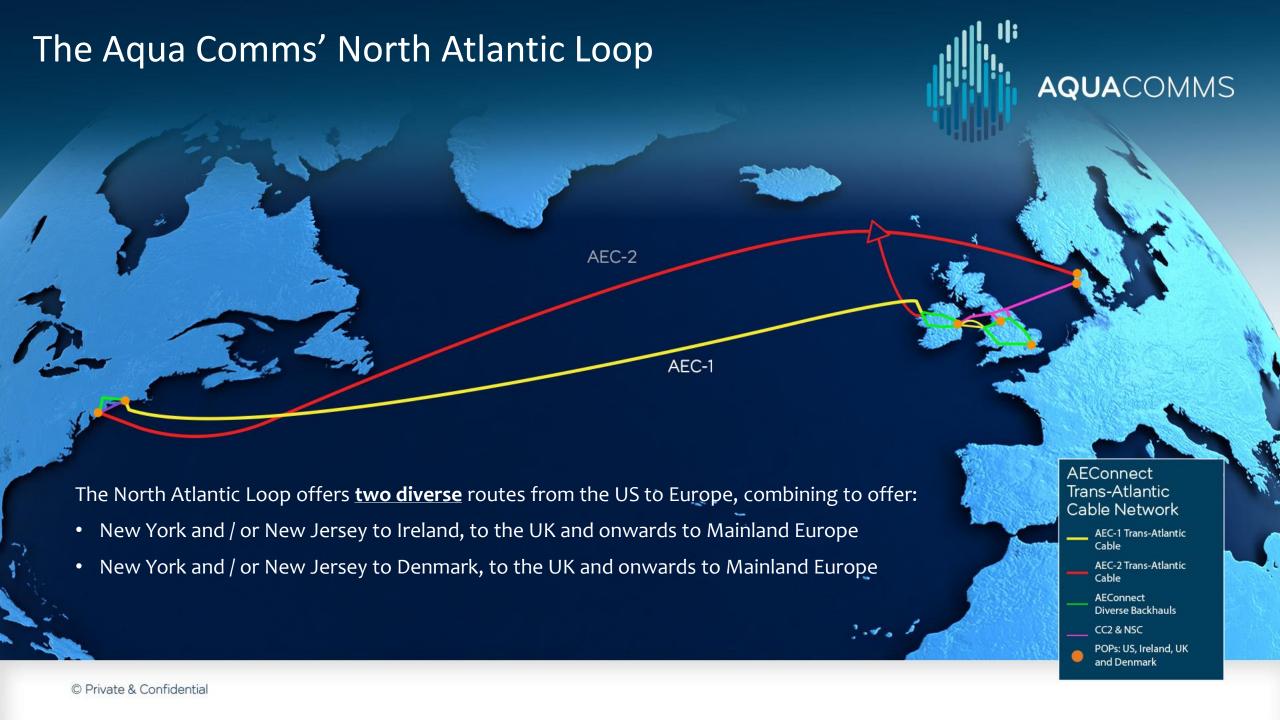
#### The Atlantic Market

# AQUACOMMS

#### **Current Atlantic Cables**







#### CC-2 and NSC

Aqua Comms is building CeltixConnect-2 (CC-2) & North Sea Connect (NSC) to provide uniquely diverse, high capacity routes to the UK and mainland Europe



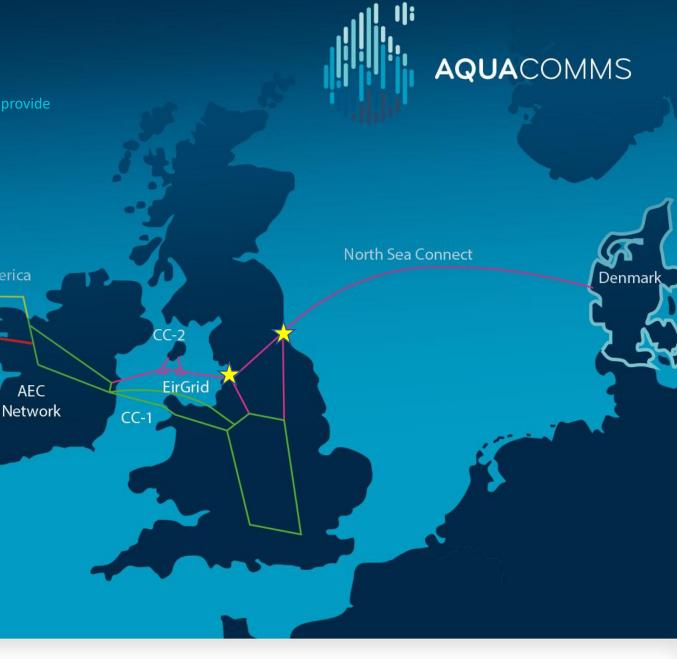
y diverse ring between

**CC-2** complements the existing CC-1 to form a fully diverse ring between Dublin and Manchester

Incorporating Branching Units to facilitate connectivity to the Isle of Man

Dark Fibre available for pre-RFS sales

**North Sea Connect (NSC)** is the first modern system providing diversity from the UK into Northern Europe and avoiding London



## Blackpool landing and fronthaul/MCLS



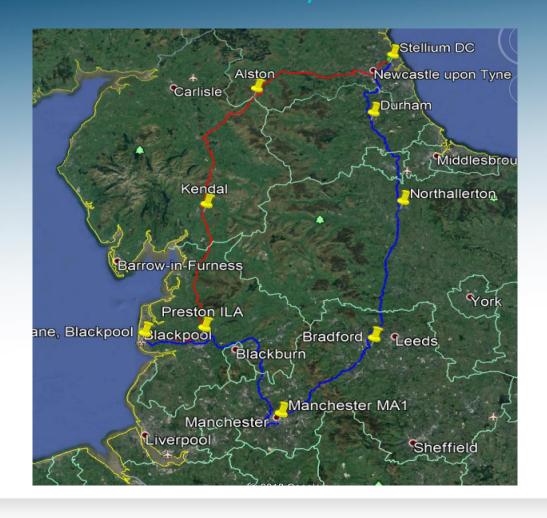
#### AQUACOMMS



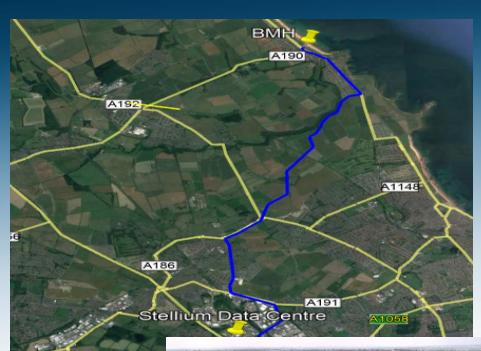
#### UK Backhaul under construction



Diverse infrastructure to ensure service availability



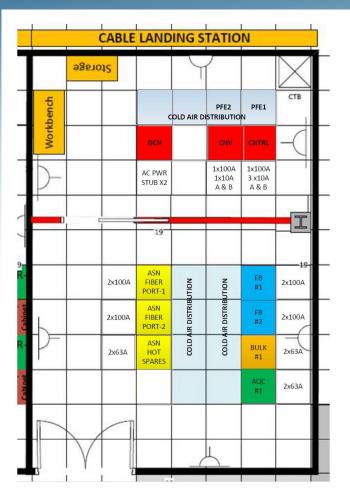
## Newcastle, Stellium DC

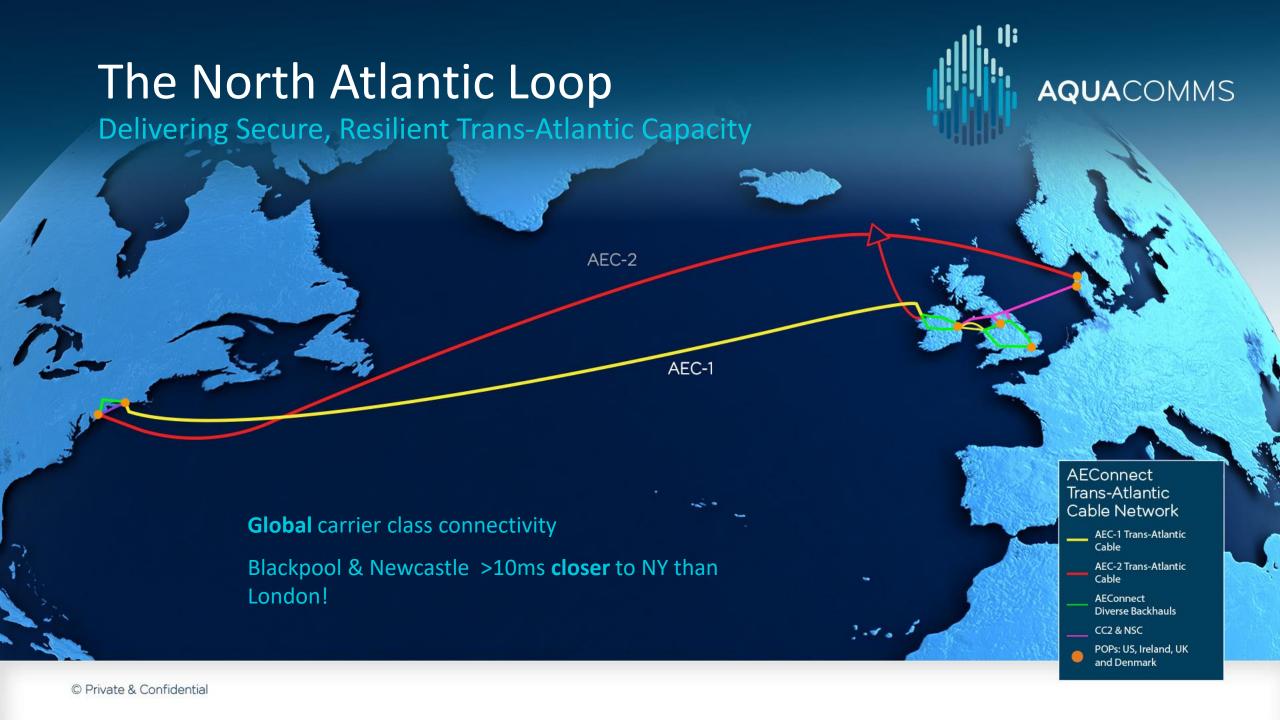


**Fronthaul Network** 











## Thank you

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