

WORKSHOP 2

PORTS AND TERMINALS

Discussion Panel





Dennis Kelly Rob Williams



Dan Green



Suzanne Byrne





Destination

Vessel Name

LOA

- Breadth
- Gross Tonnage
- Deadweight
- Cargo
- P&I Information

- Stormont Wharf, Port of Belfast
- COAL CARRIER MAX
- 225.0 metres
- 32.5 metres
- 40,000 tonnes
- 76,500 tonnes
- 30,000 tonnes of coal
- East of England





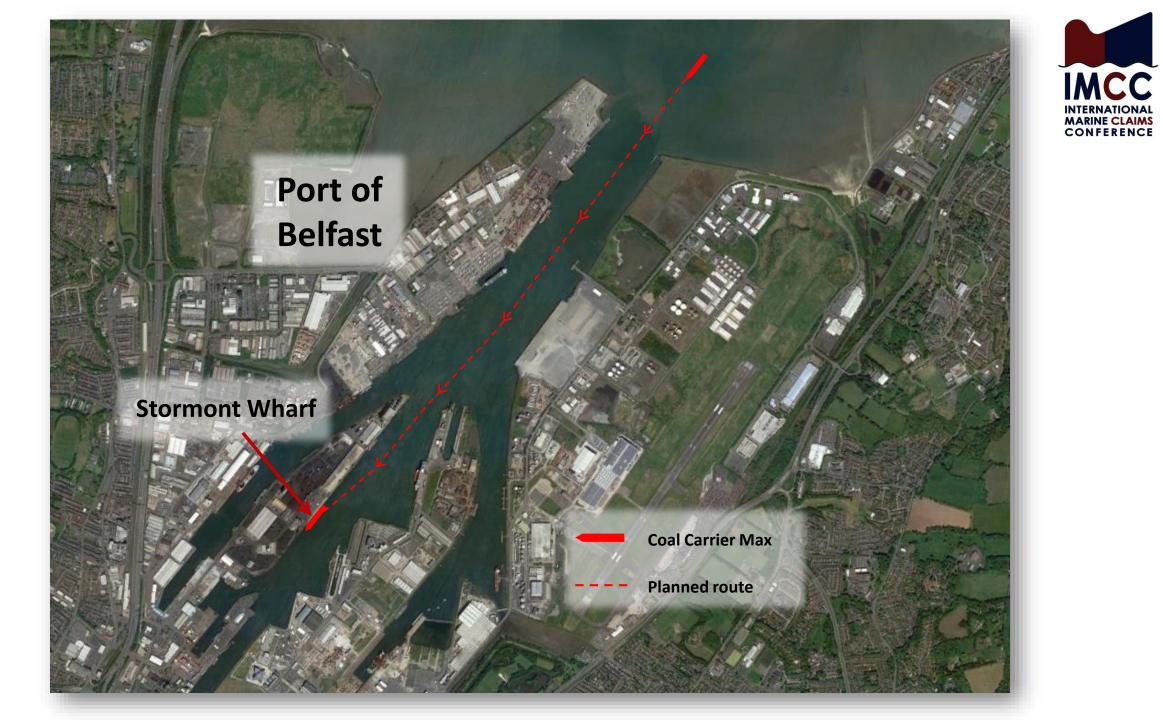
Setting the scene

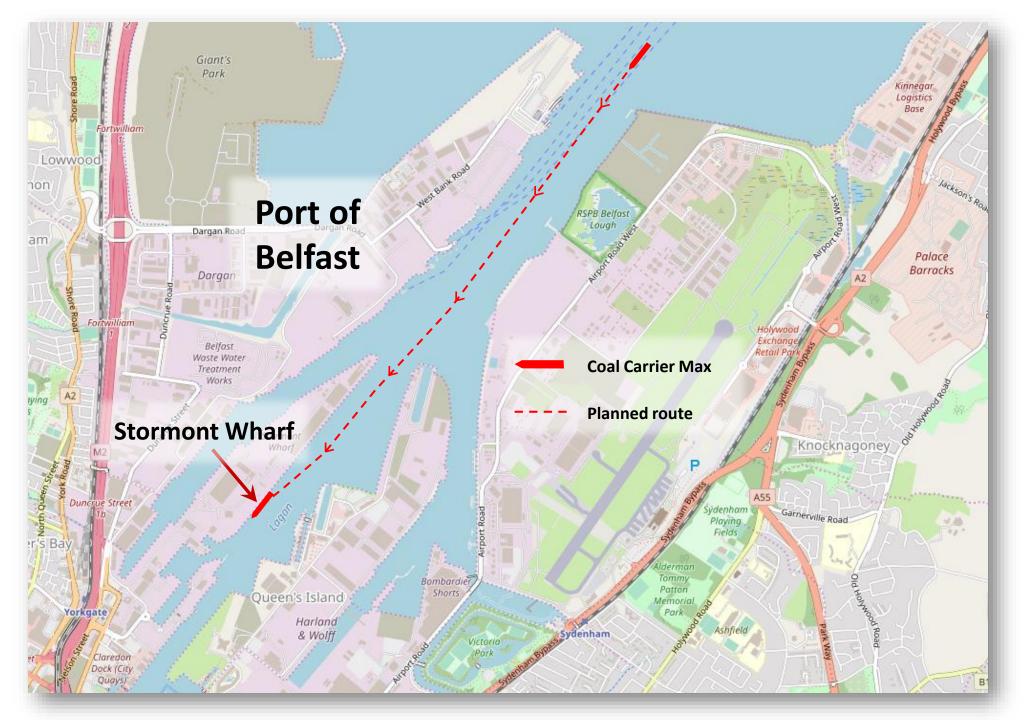
"COAL CARRIER MAX" approach to the Port of Belfast



vessel entry to port channel

Set









What happened next?

What sort of quay crane damage are we looking at?

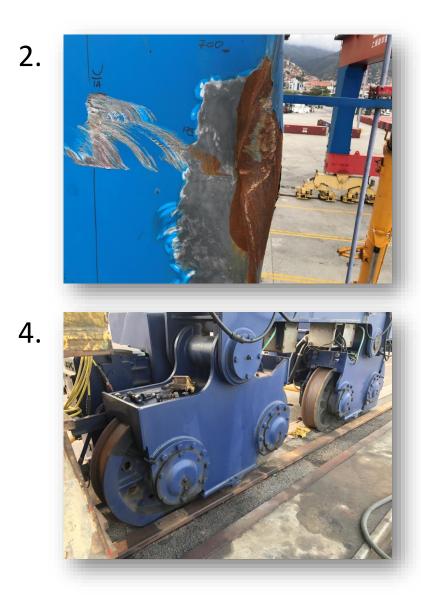




Q1: Can you rank these examples of crane damage in order of severity? (least to most)

























Local Surveyor

Initial Photographs

Local surveyors initial pictures of crane damage







Local surveyors initial pictures of crane damage





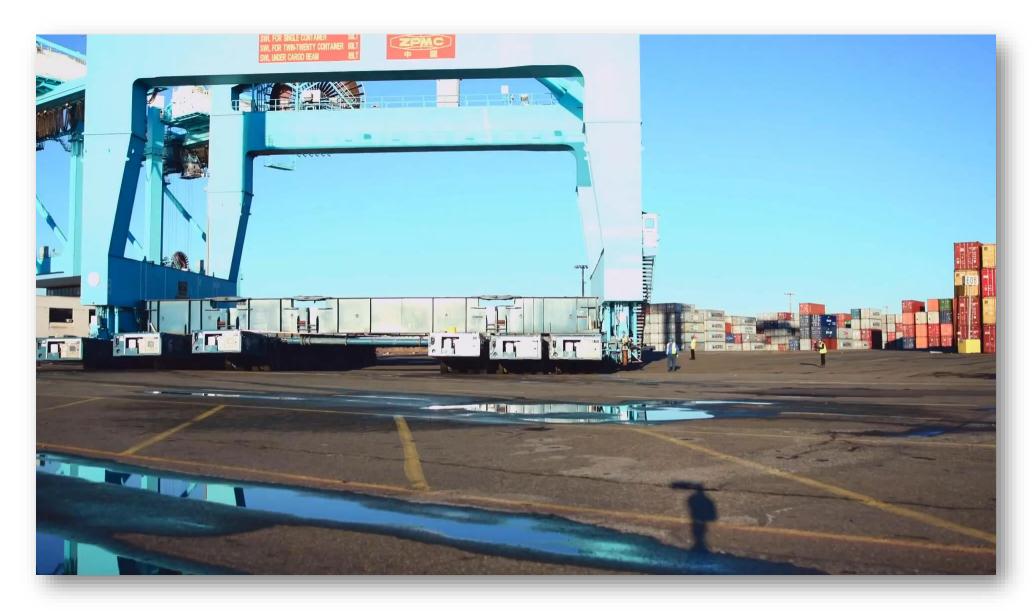


Crane repairs

Options

Relocation of the crane away from the berth





Transport crane back to manufacturer





Localised temporary bracing and repair



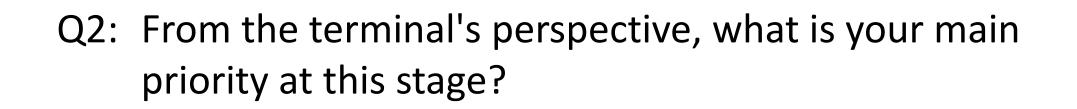




Club's priority?



Terminal's priority?





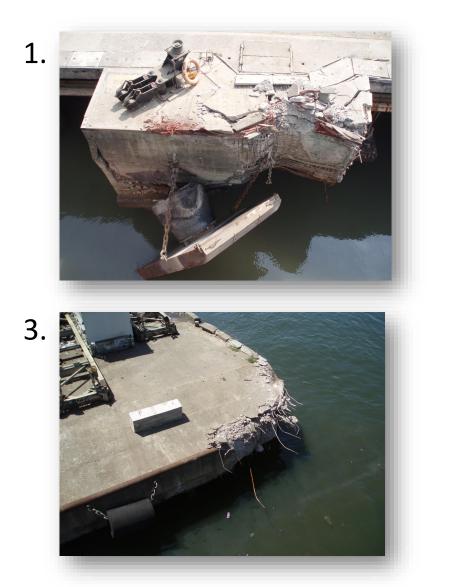
- 1. Security
- 2. Starting Repairs
- 3. Joint attendance/ inspection
- 4. Arresting the vessel
- 5. Guinness!

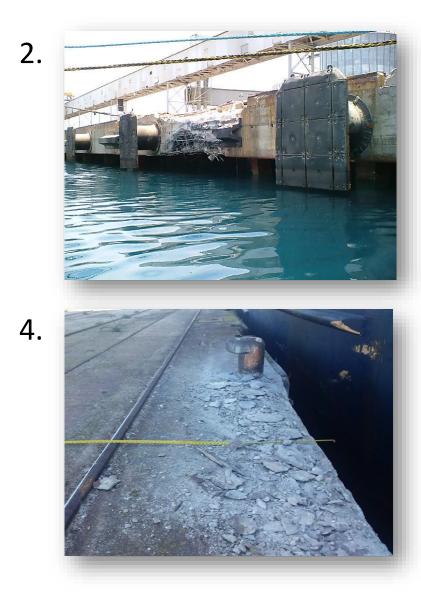


Damage to the edge of the quay?

Q3: Which of these examples of vessel contacts with a quay structure could be considered the worst?

























Crane CCTV

Video from Crane No. 1 and No. 3 at Belfast Container Terminal



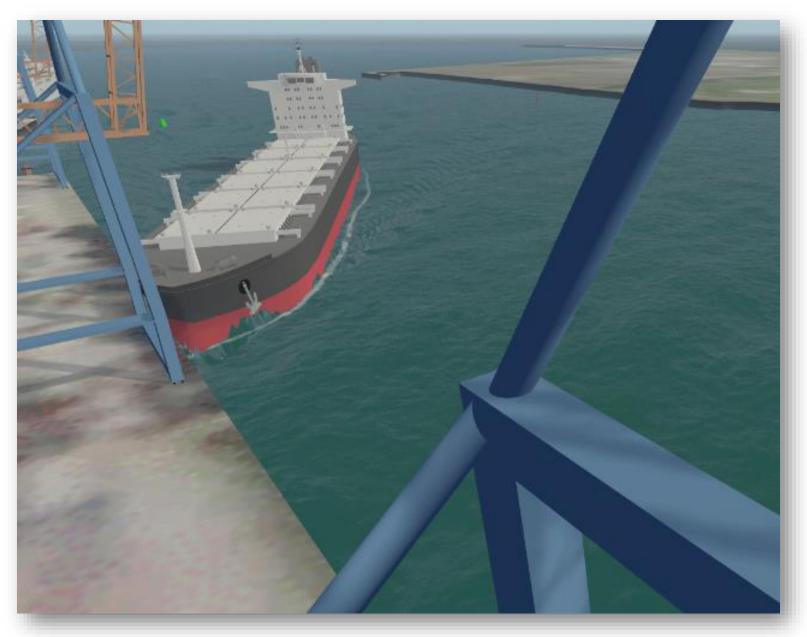
Crane 1 CCTV

COMPANIES.



Coffee Break

Vessel contact with Crane No. 2







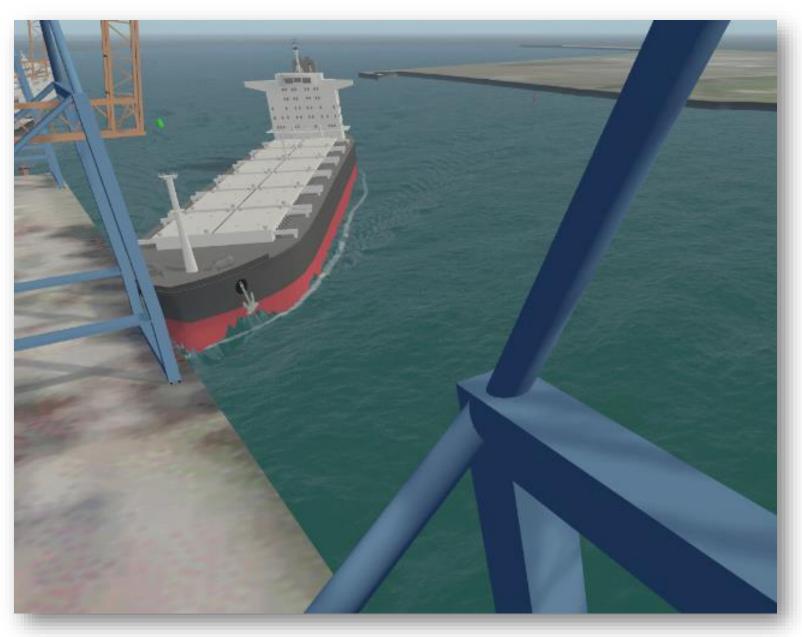
Below quay deck damage

Quay deck damage that we can see





Angle of vessel approach



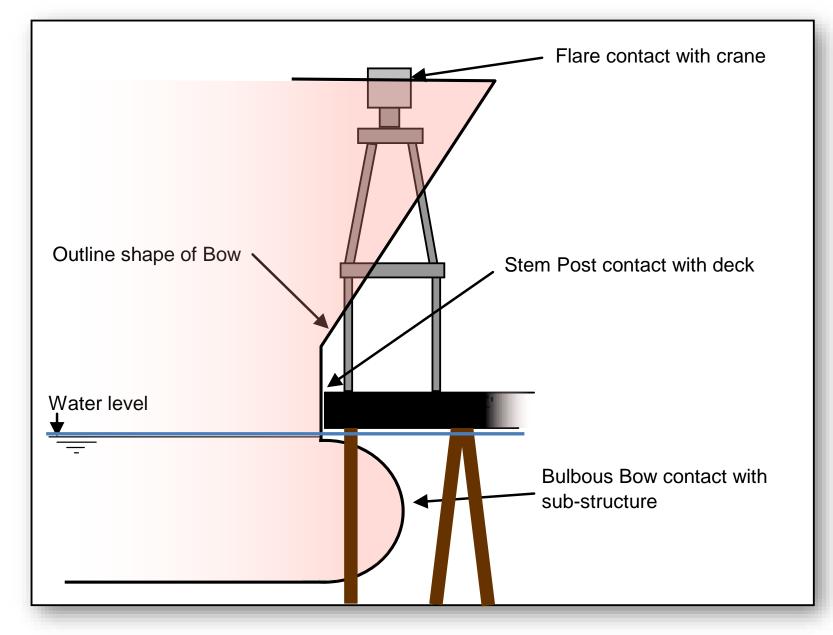


What else may be damaged?





What else may be damaged?









- Q4: What damage might we find when we look underneath the quay?
 - 1) Which damage do you think was caused by the vessel?
 - 2) Which damage is a "ticking timebomb"?
 - 3) Which damage has been caused by a previous contact?





Survey under the deck and above water – vessel damage?





Survey under the deck and above water – corrosion





Previous contact and existing damage





Previous contact and existing damage



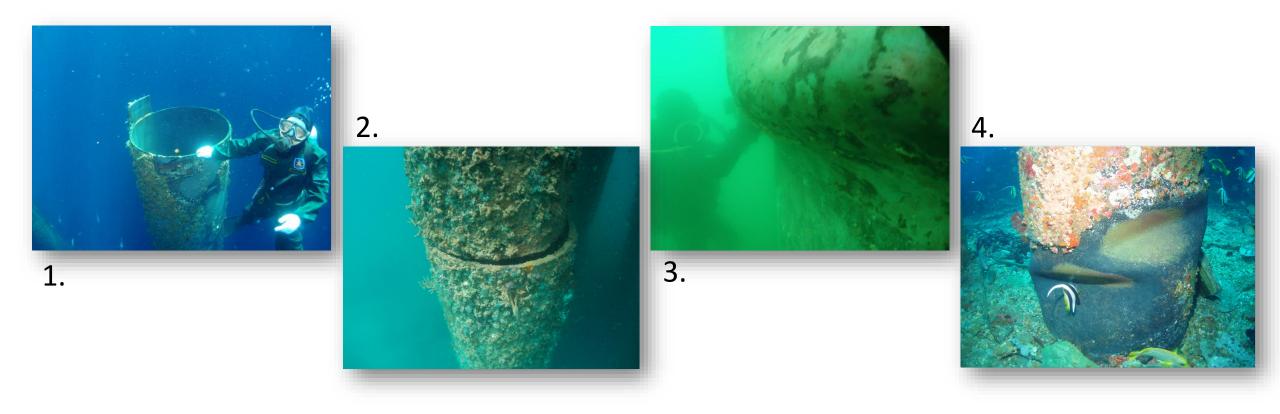




Joint Dive Survey

Under water inspection photographs

- Q5: What damage might we find when we look under water?
 - 1) Which pile exhibits signs of contact damage?
 - 2) Which pile exhibits load path overstress damage?
 - 3) Which pile is a "ticking time bomb"?





Contact damage





Pile buckling and overstress





Ticking time bomb and hidden damage





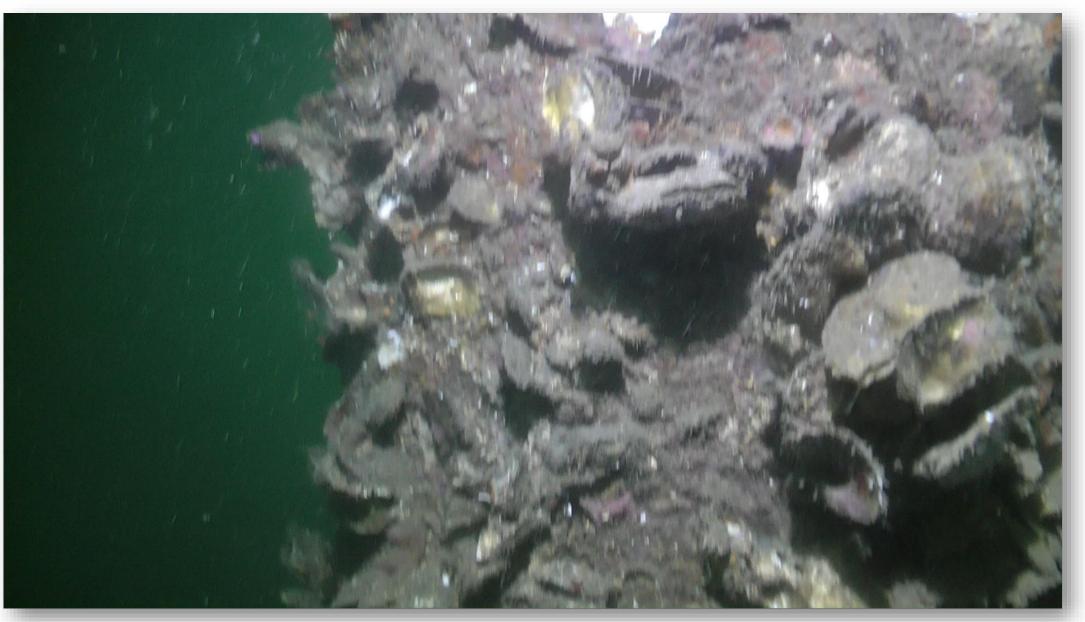
Let's have a closer look at the "bird nest pile" below water





Dive survey down the pile





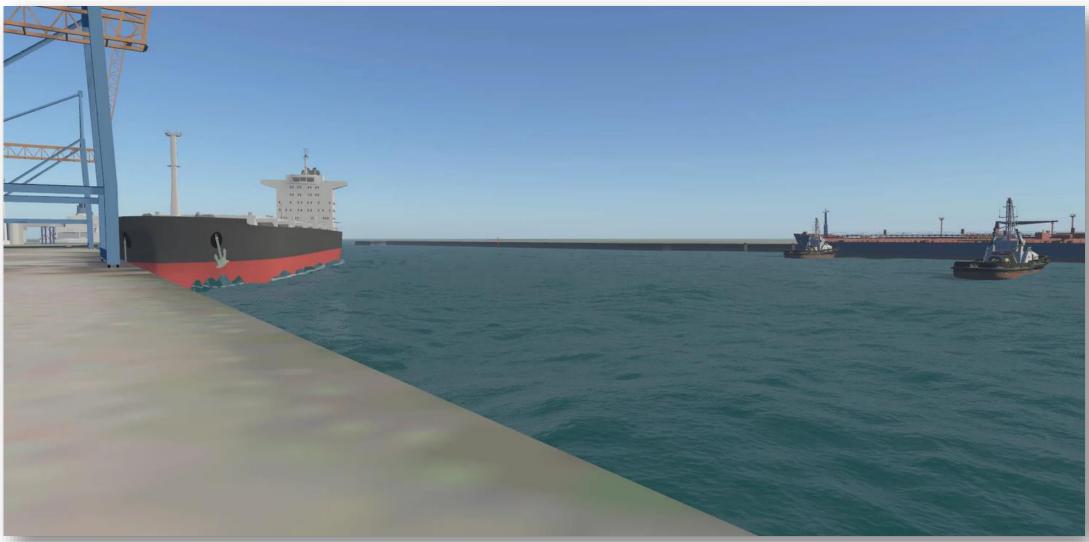


Anything other information

Eye witness accounts

Eye witness account





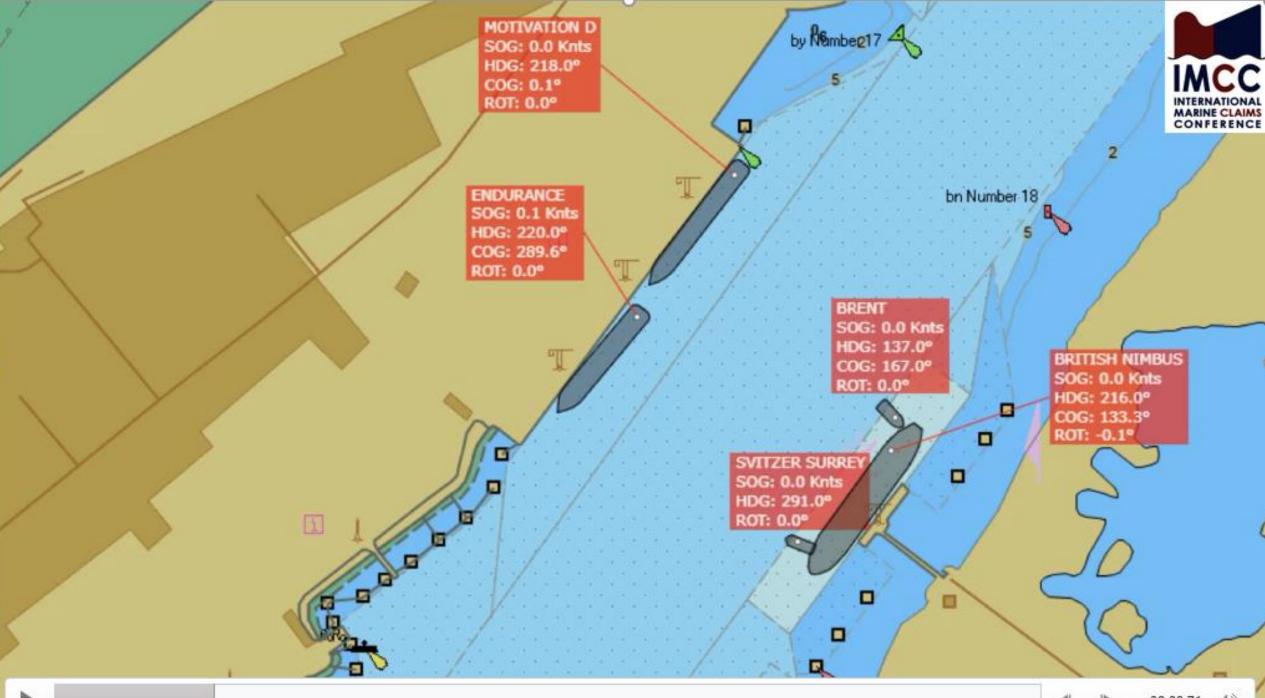


Quantum & Schedule



Vessel calls to Belfast

Historical and realtime AIS monitoring

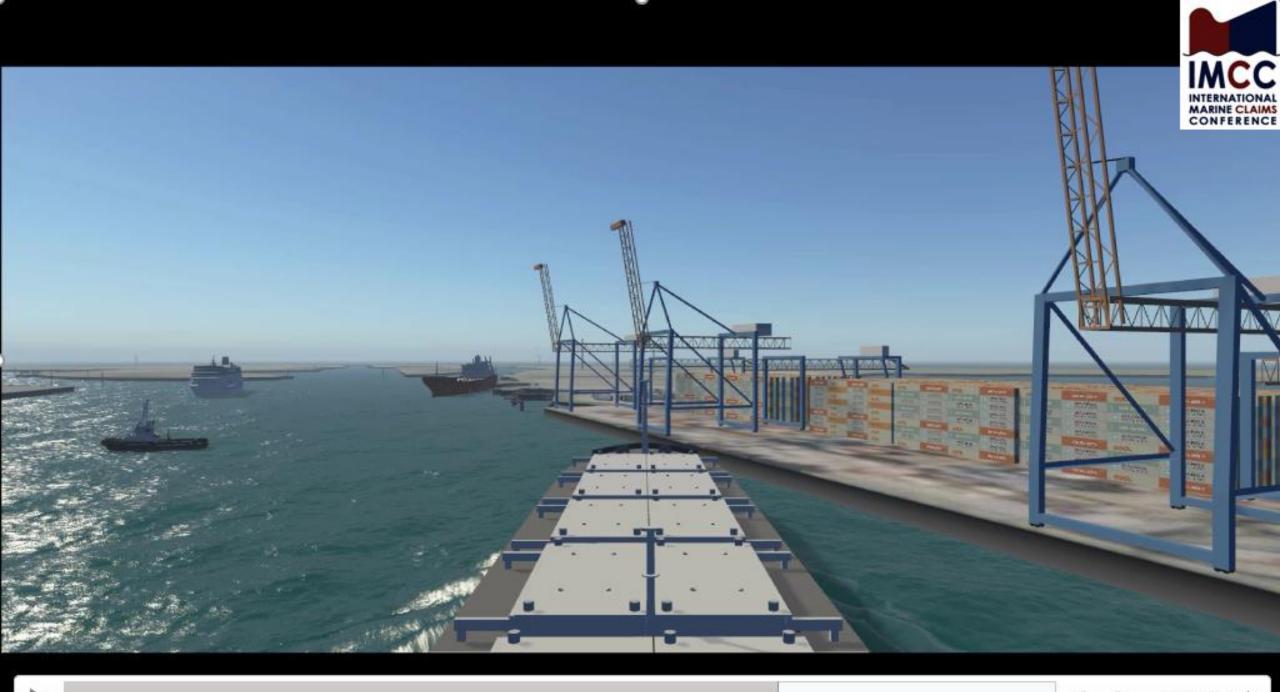


▶ 00:09.71 📢



What other vessel saw.

Video from all other CCTV in the area at the time





In summary ...

Discussion Panel





Dennis Kelly Rob Williams



Dan Green



Suzanne Byrne

