

Saving Lives in Inhospitable Environment





330 film.mp4



Organization

- **Ministry of Justice and Public security**
SAR responsibility
- **Ministry of Defence**
Sea King / SAR Queen management
RNoAF is the operator
- **Ministry of Health and Care services**
Medical equipment
Medical Personell

5 units
25 crew
8 Sea Kings
6 SAR Queens



Crew

- Pilot in command
- 2. Pilot / First officer
- Navigator/Systemoperator «sensor»
- Systemoperator «hoist» (Flight engineer)
- Rescue swimmer
- Anesthesiologist (DOC)

Statistics

Number of missions 2020

Base	SAR	Ambulance	Total
Sola	119	76	195
Ørland	109	127	236
Rygge	179	181	360
Bodø	119	237	356
Banak	84	147	231
Total	610	768	1378

On 15 minutes readiness

Base	15 min readiness
Banak	98,7%
Bodø	98,1%
Ørland	97,6%
Sola	98,9%
Rygge	98,3%

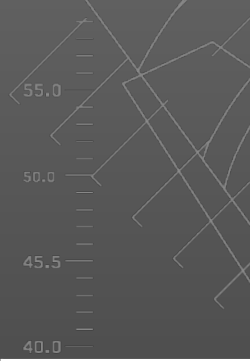
Missions

- SAR Sea/Inland
- Air Ambulance
- Preventive SAR
- Contra terror
- Joint forces missions
- Training and preparing



1. Sep 2020 →





Sola AW 101 SAR Queen	Period 1.Sep-20 – 1.Sep-21
15 min readiness	99,5 %
Number of missions	234
Time of responds	12,1 min



AW101-612 SYSTEMS

TARGET DETECTION

Surveillance Radar
Independent Weather Radar
HD Electro Optics/IR Sensor
Mobile Phone Detection
Direction Finder

TRAFFIC AWARENESS

Integrated TCAS II (Overlay on Map)
ADS-B Tx Transmissions
AIS Tx/Rx Capability
IFF Transponder
Growth Option for Link 16



AREA NAVIGATION

3 x Integrated Digital Maps
High Integrity Navigation Suite
2 x Civil GPS
Integrated RadNav
Automatic Nav. Accuracy
Monitoring
Jeppesen Database
Customer Database
*VFR / IFR Navigation AFCS Modes

TERRAIN AWARENESS

HTAWS (Fully Integrated)
3 x Digital Map (Elevation Data)
Integrated Synthetic Vision
Low Height System (2 x Rad Alt)
Configurable S.A. Overlays

OBSTACLE DETECTION

Laser Obstacle Warning System
Obstacle Proximity LiDAR System
Integrated Synthetic Vision



Full Ice Protection

BERP III MRB

Active Vibration
Attenuation (ACSR)



Engine Configuration
(3x GE CT7-8E)

Automatic Flight
Control System
(NEW)

Fully articulated Tail
Rotor (NEW)

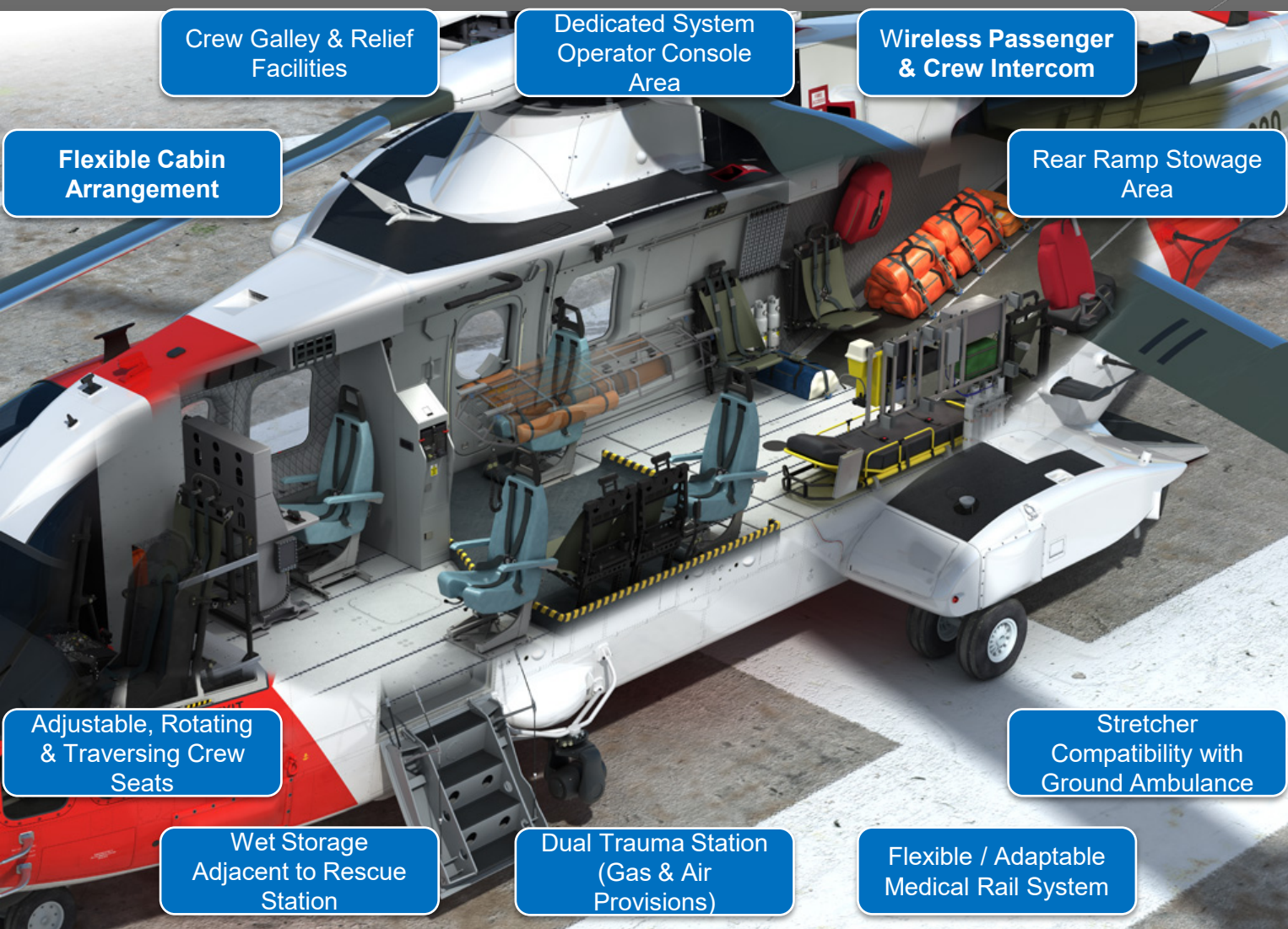
MTOW 15600 kg
AGW 16000 kg

Transmission 30 min
run-dry capability

Multi-role
(SAR, SPO, HEMS,
CASEVAC, FIRE)

AW101-612 – KEY CABIN FEATURES

SAR LAYOUT



Crew Galley & Relief Facilities

Dedicated System Operator Console Area

Wireless Passenger & Crew Intercom

Flexible Cabin Arrangement

Rear Ramp Storage Area

Adjustable, Rotating & Traversing Crew Seats

Stretcher Compatibility with Ground Ambulance

Wet Storage Adjacent to Rescue Station

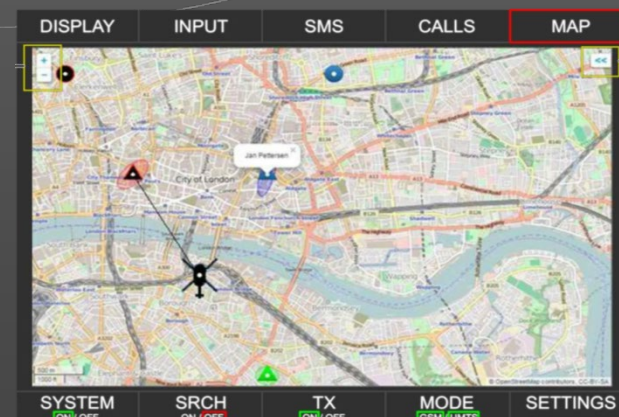
Dual Trauma Station (Gas & Air Provisions)

Flexible / Adaptable Medical Rail System

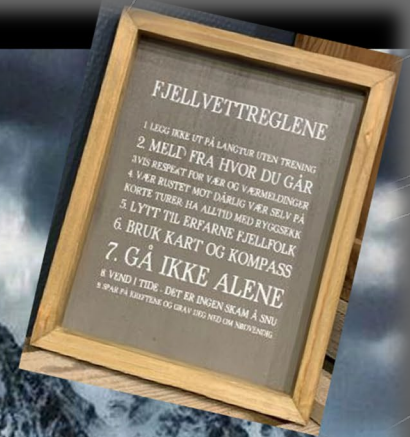


Mobile Phone Detection and Location System (MPDLS)

- Role Fit System (Semi-integrated with MCC)
- Detect and locate the specific cell phones of casualties or rescue personnel (provides range/bearing or target fed GPS position)
- Communicate with target via voice or sms



Mobile Phone Detection and Location System - MPDLS



55.0
50.0
45.5
40.0



Mobile Phone Detection and Location System - MPDLS





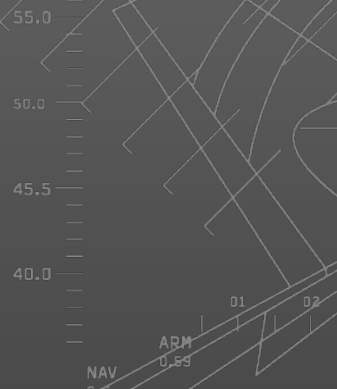
The video player interface features a main video window showing two helicopters at night. The helicopter on the left has its searchlights on, illuminating the scene. The helicopter on the right is in silhouette. A news inset in the top-left corner shows two women at a press conference with microphones. The player controls at the bottom include a 15-second rewind button, a play/pause button, a fast forward button, a progress bar at -11:27:12, a volume control, and a 'Direkte' (Live) indicator with a full-screen button.

55.0
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45.5
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NAV
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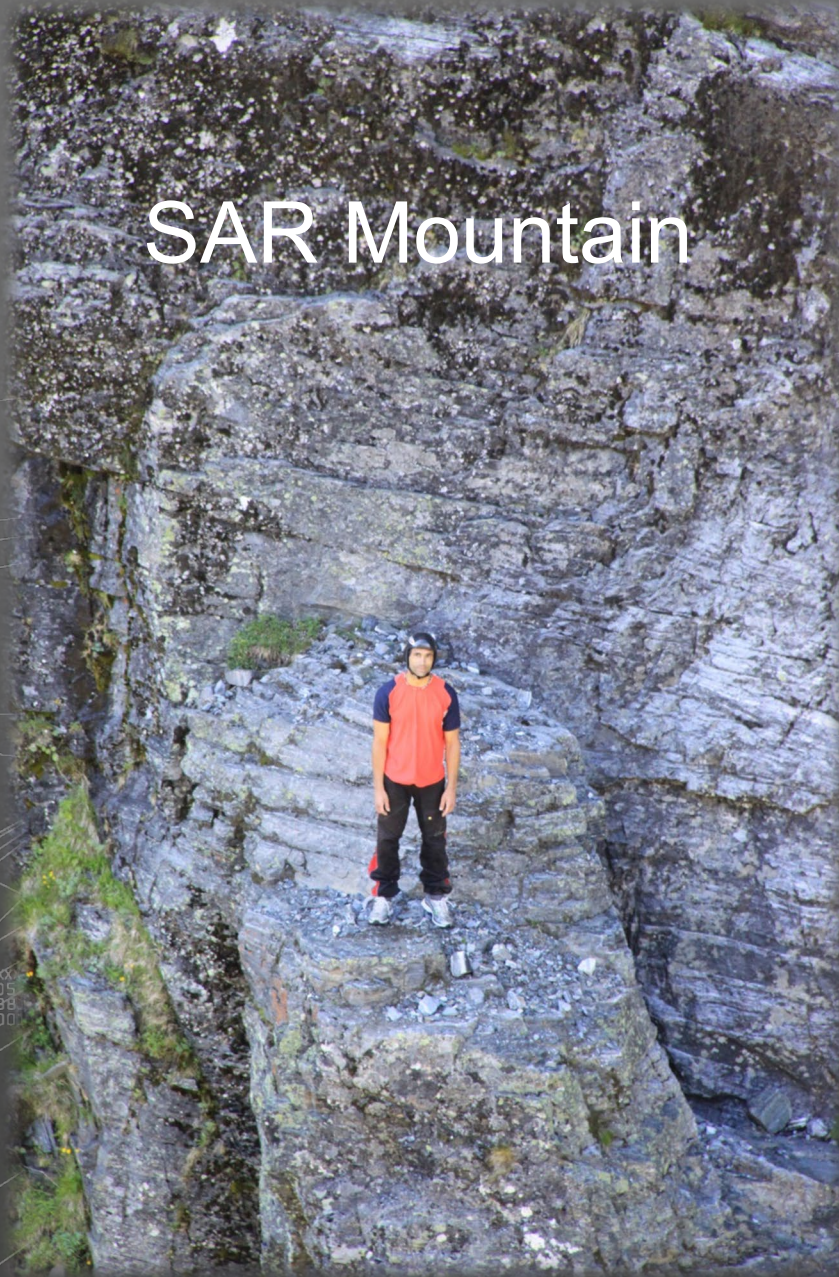
-April -21
-Haukeli
-FL 85
-Ovc 005
-Wind 57 kts



- April -21
- Haukeli
- FL 85
- Ovc 005
- Wind 57

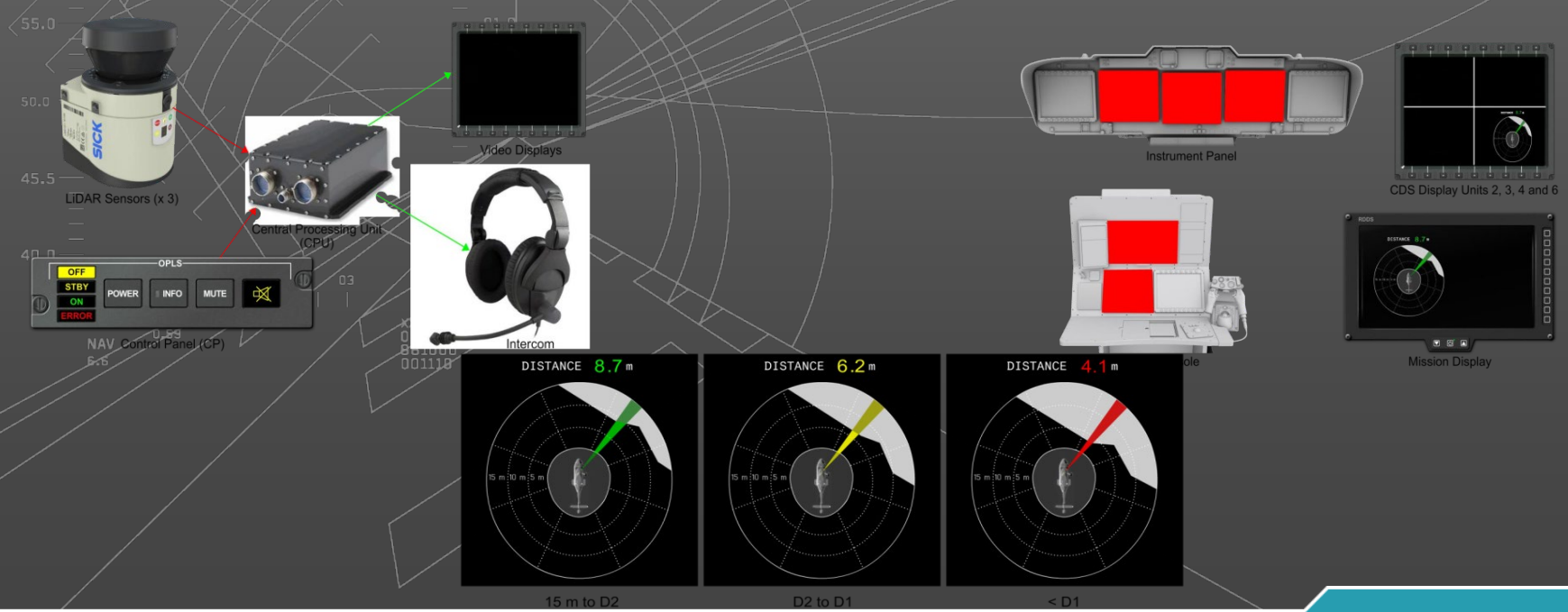


SAR Mountain

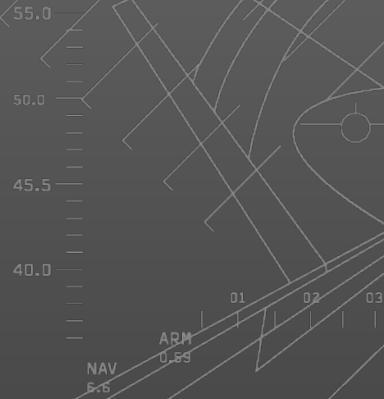
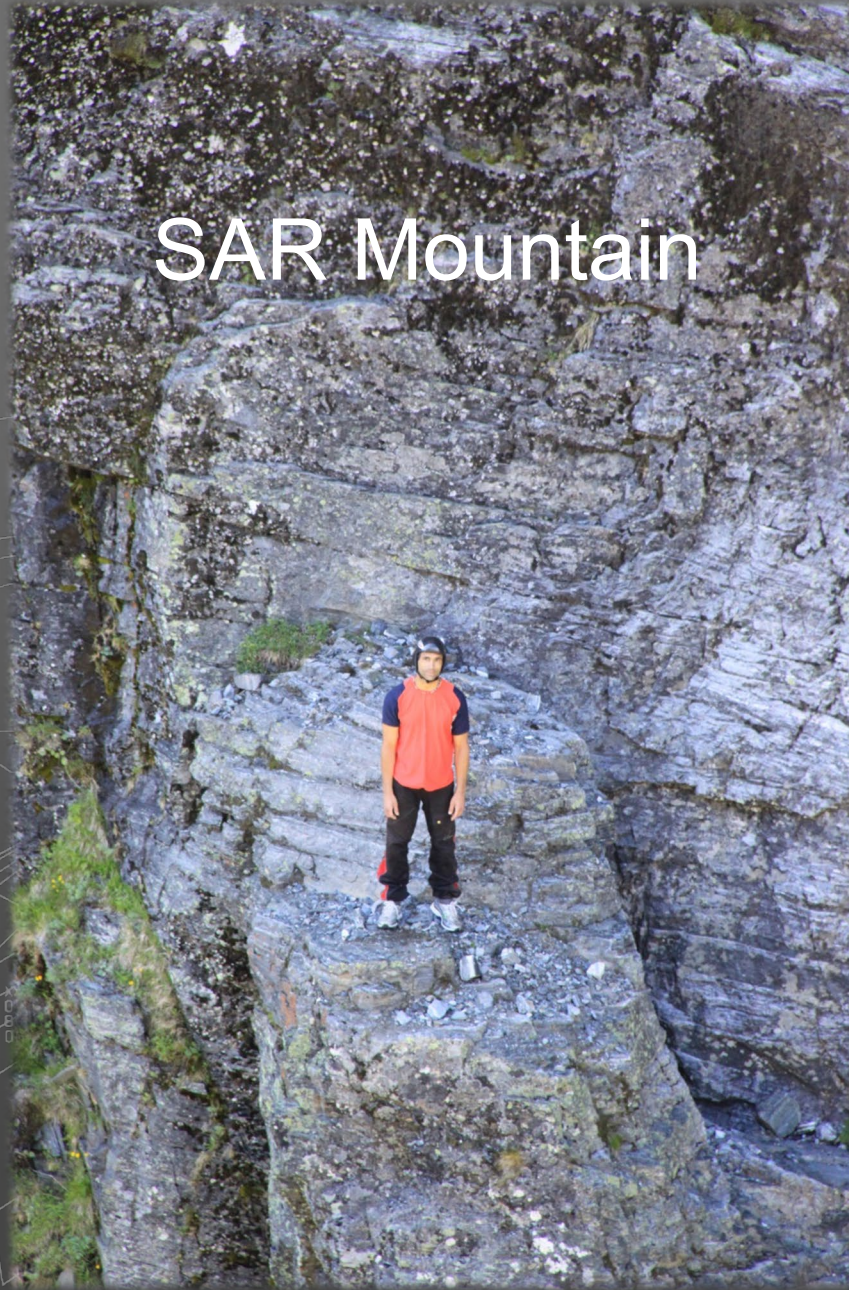


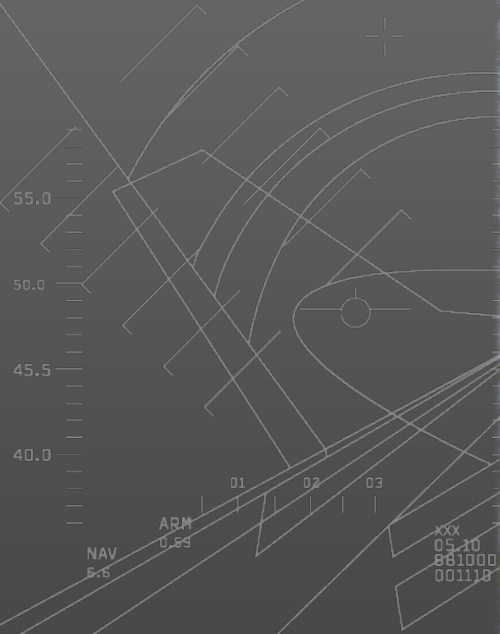
Obstacle Proximity LiDAR System (OPLS)

- Uses lasers to detect obstacles in the immediate vicinity around the aircraft (15 m)
- Crew alerted to the presence of obstacles by audio warning messages and a visual display on the Cockpit Display Unit (CDS)



SAR Mountain







SAR Offshore

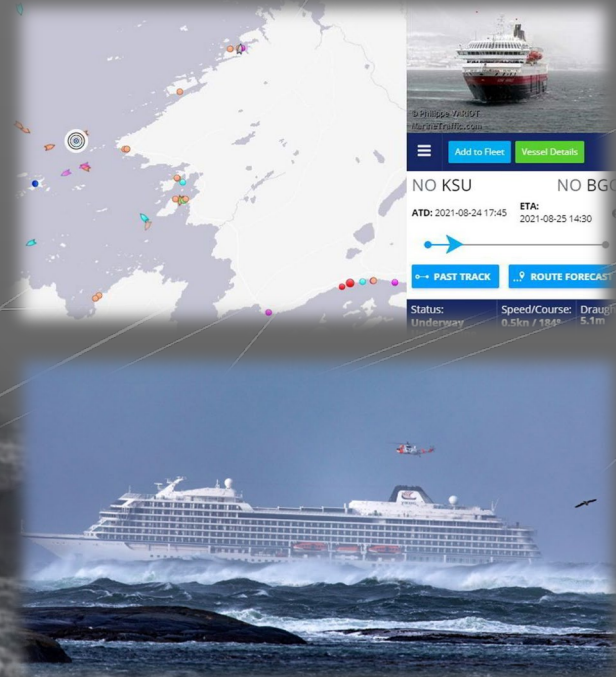
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Questions?

