Input paper: [[1]](#footnote-1) DTEC2-5.2.2.8

Input paper for the following Committee(s): check as appropriate Purpose of paper:

**□** ARM **□** ENG **□** PAP **□** Input

X DTEC **□** VTS **x** Information

Agenda item [[2]](#footnote-2)

Technical Domain / Task Number 2 …………………………………

Author(s) / Submitter(s) Anthony Green / Paul Herselman (Reutech) (via J Carson-Jackson, Chair, DTEC02, WG2)

Navigation Radar Intercept Sensor (NRIS)

# Summary

At DTEC01 Paul Herselmen of Reutech provided a presentation on the NRIS technology – the use of Passive Navigation Radar Receivers in Support of Maritime Vessel Monitoring. The presentation noted current coastal surveillance scenario noting the present coastal radar system and its limitations in terms of horizon distance, performance degradation under poor weather conditions. All technologies have their limitations, but collectively they can present reliable, accurate maritime domain awareness. Limitations of current coastal radar can be overcome with the augmenting coastal radar/AIS with passive receiver direction finding. When they were installed two or more, they can provide approximately the position of monitoring targets by biangulation. He concluded that navigation radar detection and monitoring augmented current radar, not replaced it.

Following the presentation the Committee requested further input using the IALA G1153 template for review at DTEC2. This paper provides that review.

## Purpose of the document

At DTEC2 WG2 will review the input provided, in consultation with the experts at Reutech.

## Related documents

Initial completion of IALA G1153 for NRIS

# Action requested of the Committee

The Committee is requested to:

1. Review the technology as provided in the IALA G1153 format
2. Note that DTEC2, WG2, will carry out a detailed review of the technology Navigation Radar Intercept Sensor (NRIS).

1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-1)
2. Leave open if uncertain [↑](#footnote-ref-2)