Input paper: [[1]](#footnote-2) ENAV27-5.1.5

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

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

**X** ENAV **□** VTS X Information

Agenda item [[2]](#footnote-3) 11.2

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

Author(s) / Submitter(s) Koichi YOSHIDA (Mr.)

Chair of Technical Working Group

Satellite VDES Study Committee in OPRI

OPRI, Sasakawa Peace Foundation

Study of satellite VDES by OPRI

# Summary

For the maritime safety, automatic electronic recognition and communication of all vessels including small boats are important. We propose the satellite VDES is the potential candidate for this purpose. Implementation of mutually coordinated navigation system including text communications among vessels will encourage global smart navigation. International collaboration is anticipated.

## Purpose of the document

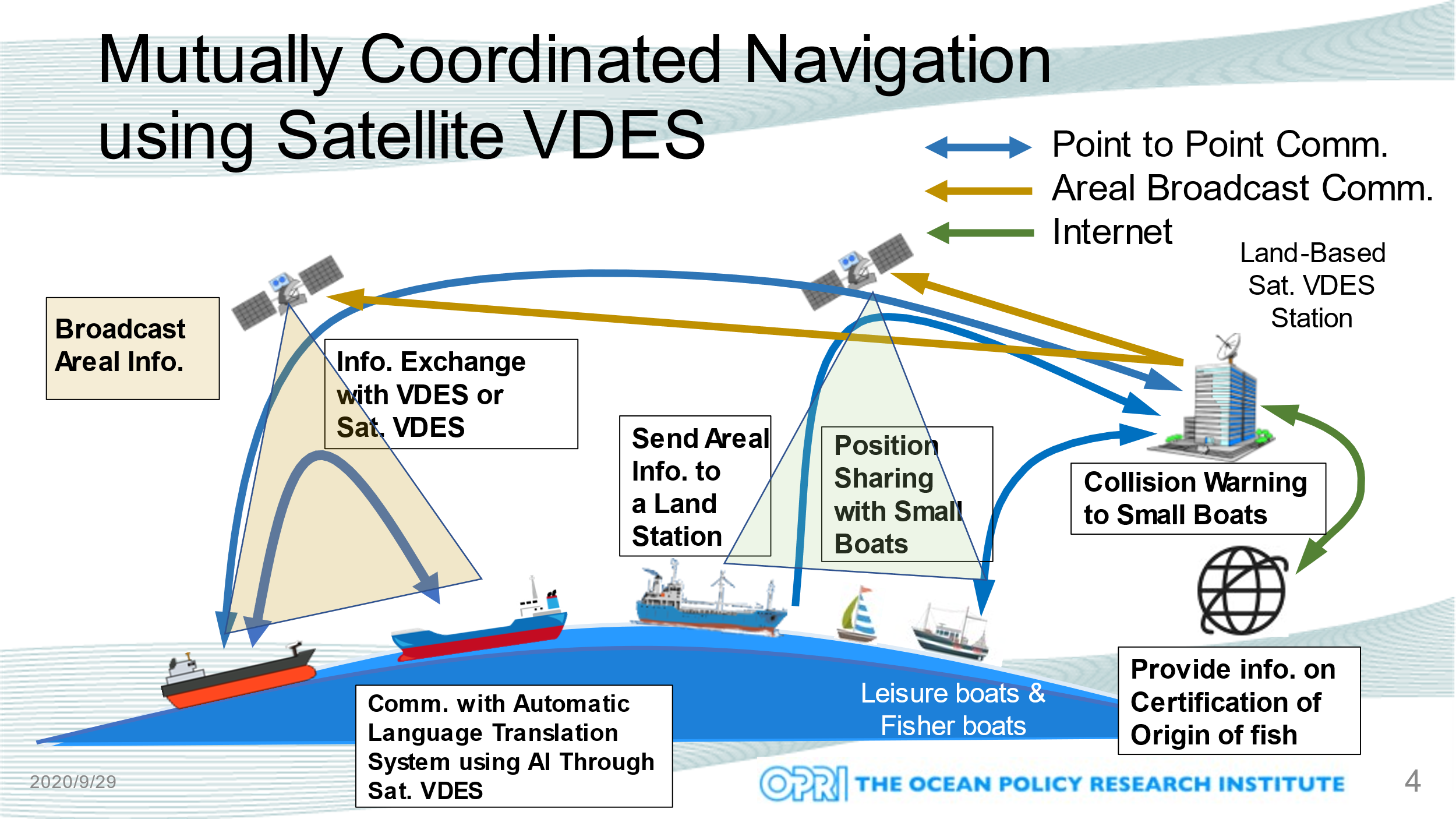
To nominate the satellite VDES as the formal discussion item at IALA

## Related documents

ENAV26-4.2 OPRI Proposals on the Use of Satellite VDES

# Background

OPRI (The Ocean Policy Research Institute of one of organizations of Sasakawa Peace Foundation) made a presentation at ENAV26 in September 2020 on the project of satellite VDES system in Japan [1]. We thank ENAV26 for giving us the opportunity of the presentation. As we mentioned at the presentation, our main objective of the project is to establish “mutually coordinated navigation of ships and vessels using satellite VDES”, which is the key to improving navigation safety and promoting commercial use, as mentioned by the follow picture at the presentation.



1. Mutually Coordinated Navigation using Satellite VDES (from OPRI presentation)

The satellite VDES enables not only data exchange between ships but also automatic voice language translation for ship to ship communication and sharing information on ships that are not installed AIS.

# Discussion

After the presentation, we have made further progress on the project. We are studying mainly on the following aspects:

1. Possible VDES satellite system for realizing continuous service;
2. Possible satellite VDES system on board vessels including those for small vessels;
3. Possible contents of the VDES communication including matters for maritime safety, navigation and operation of ships, activities at sea (including fishing and transportation), area specific information services, etc.;
4. Possible on-sea trials of satellite VDES communication.

We hope to report on the project at a near future occasion of ENAV (possibly next ENAV meeting). We also hope to cooperate with ENAV and its members for further progressing our projects and our future satellite VDES trials.

# References

[1] ENAV26-4.2 OPRI\_Proposals on the Use of Satellite VDES20200929\_Fin02.pdf

# Action requested of the Committee

The Committee is requested to:

1. note the information provided

1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-2)
2. Leave open if uncertain [↑](#footnote-ref-3)