

3rd E-Navigation Underway Asia-Pacific 2019 Conference
Seoul, 2-3 September 2019

Conference highlights

1. It is important to continue to develop and implement harmonized maritime services in the context of e-navigation (or 'digital maritime services') for both SOLAS and non-SOLAS ships. In particular, such services have the potential to greatly enhance the safety of non-SOLAS ships, such as fishing vessels and domestic passenger ferries.
2. It is important to contribute to the future development of IMO's description of maritime services in the context of e-navigation.
3. There is need to describe existing and emerging e-navigation services in terms of data product specifications and technical service descriptions, for example, as outlined in IALA Guideline G1128 (on the specification of e-navigation technical services). This will assist with harmonization and interoperability of digital maritime services.
4. LTE-M is a proven communications system for digital maritime services. 3GPP and IMO-ITU expert groups continue to enhance LTE-M and develop new standards for communications.
5. More emphasis should be placed on capacity building in the context of e-navigation. International and regional cooperation initiatives, led by organizations like IMO and IALA, are vital in this regard.

6. The idea of establishing a global maritime innovations cluster was raised. It can be a mechanism to facilitate international cooperation when developing the maritime industry's response to the fourth industrial revolution.
7. It is essential to share information on cyber attacks, so that any lessons learnt can be incorporated into risk management plans. In order to facilitate secure information exchange, a framework to provide trusted identities is needed.
8. Initiatives and projects, particularly test beds, should be more result oriented and, where practicable, be conducted in cooperation with users and industry. New test beds should build upon the results of previous test beds. The results of e-navigation test beds should be shared, using IMO and IALA reporting templates.
