

# Title Abstract: The progress and prospect on e-Navigation of China MSA

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## Abstract:

China MSA has been committed to the practice of e-navigation concept in China since it was put forward in 2005. With the formulation of the relevant implementation strategy and the improvement of the technical standard system of IMO, IALA and other international organizations, China MSA has embarked on the formulation of a detailed plan for the implementation of e-navigation, and has planned the content of e-navigation promotion for a certain period, mainly including shore-based systems, communication systems, ship borne equipment, PNT, etc.

In accordance with the e-navigation framework of IMO and IALA, the construction of demonstration projects has been initiated since 2014, including the e-navigation demonstrations projects in the Compound Channel of Tianjin Port, the Yangshan Port, the Pearl River Estuary and the Yangtze River Estuary. This paper focuses on the overall framework of the relevant demonstration projects, and takes the e-navigation project in the Yangtze Estuary as an example to introduce in detail the implementation of e-navigation related concepts in the project.

With the development of smart shipping industry, e-navigation will play a more fundamental role. This paper prospects the popularization and implementation of e-Navigation in China, analyses the problems to be faced, and puts forward some solutions.