

Real-time Web-GIS as part of Japan's MDA

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Information provision by Japan Coast Guard

Japan Coast Guard (JCG) have provided not only the navigational safety information for mariners but also the marine information which is expected to be used for various purposes. As part of Integration of Marine-related information under Ocean Policy, in 2010 JCG launched "Marine Information Clearing House (MICH)", which is an internet database service to provide a summary of the marine information and how to reach it. In 2011 JCG started the operation of "Marine Cadastre", which is a Web-GIS service for displaying and overlaying various marine-related information.

MDA in Japan

Japan's MDA (Maritime Domain Awareness) is defined as "An effective understanding of marine-related situations and circumstances through the efficient collection and sharing of a variety of marine-related information conducive to Japan's maritime security, marine safety, natural disaster countermeasures, the marine environment conservation, the promotion of marine industries, and the development of science and technology, while paying attention to the handling thereof". The Headquarters for Ocean Policy decided "Efforts to consolidate the Capability of MDA in Japan" in July 2016. To establish the framework for collection, sharing and provision of marine-related information, it was decided that JCG should develop a system for collection, sharing and provision of marine-related information related ministries and agencies possess.

Development of "MSIL (MDA Situational Indication Linkages)"

According to the decision about Japan's MDA by the Headquarters for Ocean Policy, JCG is developing "MDA Situational Indication Linkages", the wide-covered, real-time and user-friendly Web-GIS based on Marine Cadastre, targeting to start its service in 2019 spring. With the cooperation of related ministries and agencies, MSIL will cover wide range of information including real-time or near real-time information such as sea surface temperatures, surface currents, sea waves, wind, sea ice condition, weather maps (current & forecast), meteorological satellite imagery and navigational warnings in addition to Marine Cadastre's 100+ kinds of static information. Furthermore user can display and overlay not only the information but also user's own data.

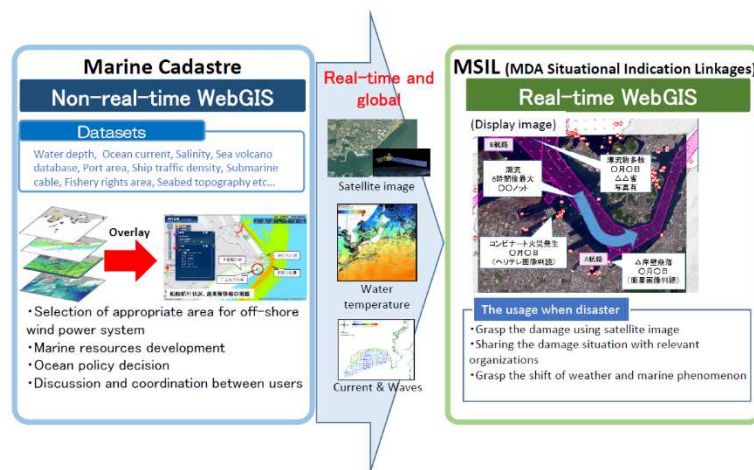


Figure 1: concept image of MSIL(MDA Situational Indication Linkages)