

SmartBridge

Project Title: SmartBridge Project

Primary Consortium Member: Lockheed Martin

Additional Contractor/Consortium Members: Rensselaer Polytechnic Institute; Chevron Shipping and Transportation; National Oceanic and Atmospheric Administration

Project Objectives/Overview: The objective of the SmartBridge Project is to develop, integrate, and demonstrate an affordable and reliable system which can accommodate a combination of upgraded and new sensors (radar, infrared, and electro-optical), a navigation display evolvable to a fully compliant Electronic Chart Display and Information System (ECDIS), an integrated sensor display, and an automated advisory/decision aid for piloting and navigation. Open architecture database structures, local area network technology, and communications protocols will be included to support system functionality and additional growth.

Project Status: The original SmartBridge project has been successfully completed. The SmartBridge equipment was tested on board the CHEVRON WASHINGTON. The demonstration with MARAD, E&M, RPI, and OR&SS present included all facets of the system. A ports demonstration with a wireless (Ricochet) modem was given using a separate portable computer system.

The final technical report was delivered as a short paper regarding the project and the radar, along with three video tapes showing installation, chart and voyage planning, radar operation, camera operation, brief tutorial on use, and edited samples of the video taken by E&M of the EO/IR system.

The consortium and NOAA continue joint development of the Ports Information HUB, which includes a prototype Server and a Ports World Wide Web Page.

Several follow-on efforts in both the Ocean Systems and Traffic Management departments are being planned to continue to develop and market the technology that has been funded by this project.

The SmartBridge MARITECH Project has led to the development of a solid system foundation. The various aspects of which will lend themselves well to future development by Lockheed Martin for application in commercial and military markets.

Project Contacts:

Lockheed Martin

Project AOTR Todd Ripley, Maritime Administration