

## **CHS' digital transformation in preparation for S-100**

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CHS has been producing navigational products in paper forms for over 100 years, and during that time the products CHS produced has expanded and evolved. In the last 30 years the trend has started to move towards digital products. CHS started with the production of Raster based charts and then evolved to S-57 Electronic Charts, both of which could be used on ECDIS equipment on the bridge of a ship.

Today the world expects everything on-line and easily accessible and CHS needs to evolve with it. To this endeavor CHS worked with their regulatory body to ensure that CHS' future digital products and services would meet the legal carriage requirements for navigating in Canadian waters.

This allowed CHS to begin a massive digital transformation initiative in order to:

1. Address increased demands for digital e-nav products and service by expanding the provision of additional digital navigational products and services,
2. To modernize our portfolio
3. To align ourselves with emerging S-100 standards
4. To start production of S-100 based product specifications such as S-101 ENCs, S-102 High Definition Bathymetry, S-104 Water levels, and S-111 Surface Currents. All of which will be interoperable thus ensuring greater safety for navigation.

This transformation initiative is part of a 10 year implementation plan to ensure CHS' digital future.

This plan is made up of a series of projects that are all deemed essential, however, the list was prioritized in order to:

1. Determine which projects must be completed first due to being foundation elements
2. Ensure projects that are dependencies for others be completed first
3. Better allocate CHS' finite number of resources.

This presentation will detail some of these projects with a focus on certain elements related to CHS' move towards a digital product and service future.