



# Science - Canadian Hydrographic Service 2018-2028 Strategic Directions

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## VISION

To be a world class authority and supplier of hydrospatial information.

## MISSION

The Canadian Hydrographic Service (CHS) supports government priorities and meets its obligations\* by providing up-to-date, authoritative and standardised hydrospatial information.

## VALUES / QUALITY POLICY

In alignment with the values of the Public Service and Fisheries & Oceans Canada (DFO), CHS values: Respect for Democracy, People, Integrity, Stewardship and Excellence.

CHS will maintain a Registered ISO 9001 Quality Management System to enable us to supply these services in an efficient, cost-effective, and responsible manner by ensuring we provide:

1. Responsiveness to clients,
2. Consistent delivery of valued products and services,
3. Consistent analysis and decisions based on risk management,
4. Continuous improvement efforts through innovation and adoption of best practices,
5. Organizational commitment to having a rewarding and healthy workplace.

## QUALITY OBJECTIVES

The following objectives are measured by CHS Levels of Service:

1. To timely release critical information for safe navigation,
2. To be responsive to clients,
3. To provide a healthy and rewarding workplace.

\*CHS derives its mandate from the *Oceans Act*, the *Charts and Nautical Publications Regulations, 1995* made pursuant to the *Canada Shipping Act, 2001*, and the *Arctic Waters Pollution Prevention Act*. Canada is a party to a number of treaties/conventions which have provisions concerning hydrography, navigation systems, and nautical charts, including: The International Convention for the Safety of Life at Sea (SOLAS); International Hydrographic Organization (IHO) Convention; International Maritime Organization Convention (IMO); and the United Nations Convention on the Law of the Sea (UNCLOS).



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## CHS COMMITMENTS *for the next 3 Years...*

### CHS Priorities and Planning:

- Implement a Canadian Marine Spatial Data Infrastructure (MSDI) & deliver on the five CHS elements of the Oceans Protection Plan (OPP) commitments & DFO's component of Canada's Extended Continental Shelf Program + identify CHS priorities in Ocean Mapping Strategy.

### Innovative Service Delivery:

- Develop and implement a business model based on hydrospatial digital data, increasing the use of Crowd-Source Bathymetry, Satellite-Derived Bathymetry + Airborne and automated hydrographic data acquisition techniques.
- Influence and/or lead development of International Hydrographic Organization (IHO) initiatives and standards which leads to innovation.

### Engagement of Interested Parties:

- Collaborate to the success of the Canadian Ocean Mapping Research & Education Network, including the potential for IHO Capacity Building via a Canadian network of expertise.
- Formalize how CHS liaises with maritime community.
- Consult and engage interested parties to receive feedback on CHS transformation

### Efficient and Agile Organizational Structure:

- Strengthen National program delivery through governance structure and processes

### Quality Management System and Operational Support:

- Complete the harmonization of the CHS Quality Management System to drive innovation, improved process / service performance and optimized business efficiencies.

### People / Service Culture:

- Invest in internal capacity building at all levels including MDH program for accreditation, and deliver continuous improvements.

## CHS by 2028...

### National and International Interested Parties View: *"Harnessing the power of new technologies."*

- CHS is recognized as an International focused on hydrospatial information services and digital products available online and through certified distributors.
- CHS' Clients have access to a suite of hydrographic dynamic products and services compliant to IHO S-100 (e.g. Electronic Navigational Chart updates, Currents and Water levels).
- Adequate hydrographic coverage is achieved in the highest priority marine navigation corridors (north of 60°).
- Arctic charting priorities are advanced through increased collaboration with national / international interested parties.
- CHS' contribution to Canada's submission to the Commission on the Limits of the Continental Shelf under UNCLOS claim is completed.

### Science - CHS internal view: *Efficient and knowledgeable*

- CHS acquires data from existing sources, external organizations, through collaboration and crowd-source bathymetry, or by collecting it ourselves.
- CHS is a hydrospatial data-centric organization where data integration, analysis, distribution and dissemination are the focus.
- CHS is using cutting-edge technologies; artificial intelligence, automated & semi-automated processes