Teledyne CARIS perspectives on S-100

Stakeholder Forum at HSSC15 Karen Cove

Ready, set...go!

- We are ready to support organizational adoption of S-100
- Embedded in standards development
- Trusted technology partner
- Access tools, training, and professional services

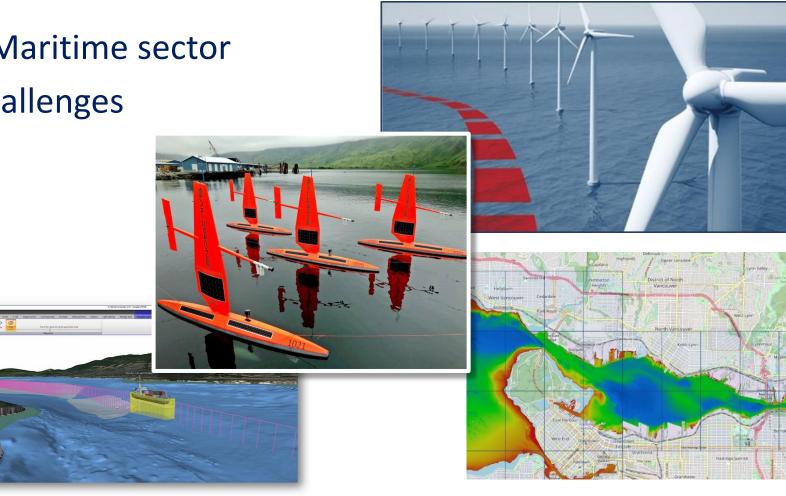




Part of a bigger picture

- Digitalization across Maritime sector
- Opportunities and challenges







Collaboration & partnership

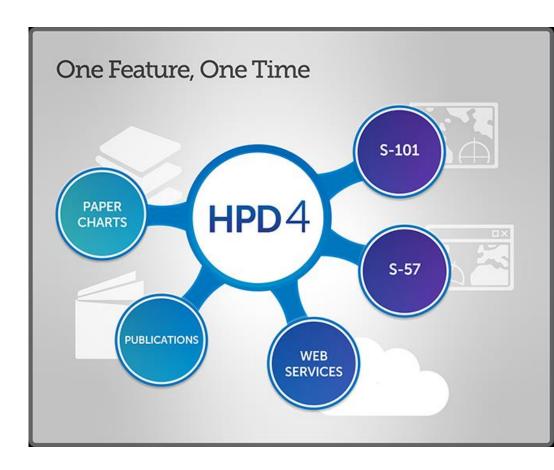
- Learn from each other successes and failures!
- Coordinate efforts
- Leverage existing implementation approaches, workflows and infrastructure
- We all need to get there together for this foundation piece to be established





S-100 tools

- Enabling S-100 production
 - HPD needs the S-100 module
 - S-57 Composer needs the S-100 module per application instance.
- Once acquired, S-101 configuration is ready for use, with other specifications easily added to the product folio.
- BDB powers S-102 and other raster overlay product creation





S-100 tools

• S-100 module provides functionality to

- Edit S-100 vector features
- Convert S-57 ENC <-> S-101 ENC
- S-100 vector HPD Source database
- Export S-101 new editions and updates
- Create and edit S-101 exchange sets
- BDB & CARIS Cloud provides
 - S-102 datasets
 - Bathy Data Service is the distribution pipeline to push raster data to RENCs and other stakeholders
- Opening S-100 datasets are supported in all CARIS desktop applications

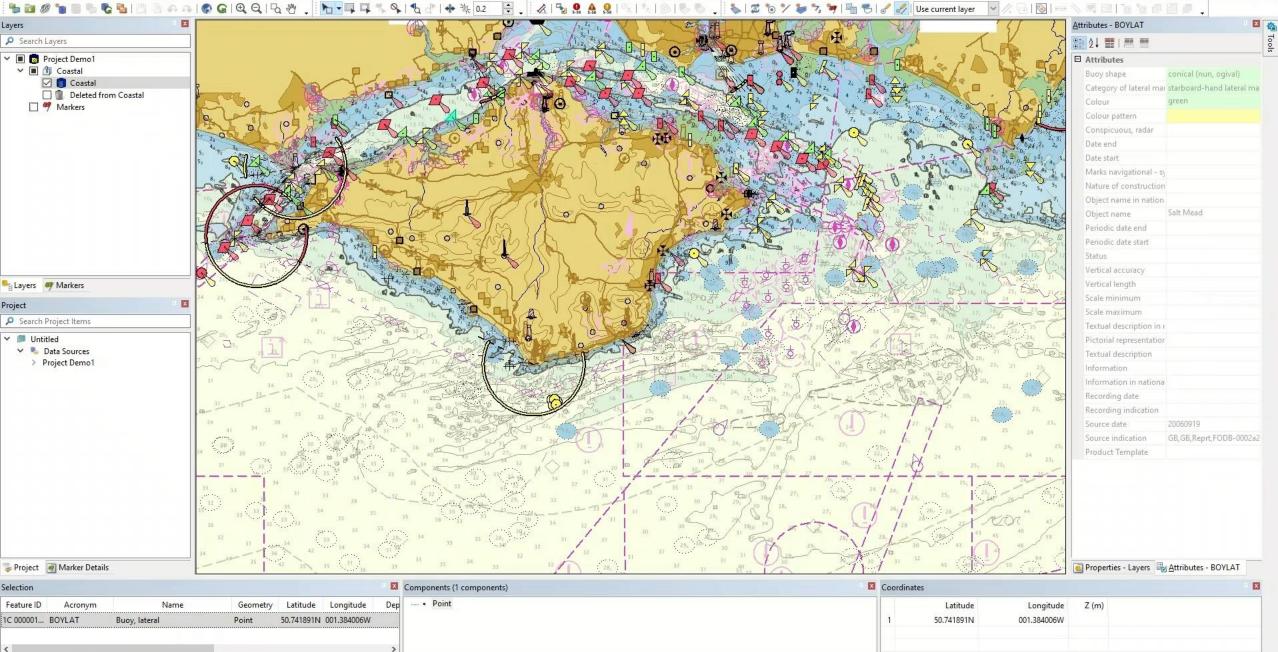
Name:	New feature layer	
Catalogue:	S-101 1.0	
Туре:	LOS 2.0	1
	Notebook	i
Resolution	S-101 1.0	
	S-101 1.0.2	
X/Y: 0.00	S-121 Maritime Boundary Exchange DRAFT 1.0.0	
	S-125 1.0	
	S-201 1.0	
	S-401	
	S-411 Ice Information 0.1.0	
	S-57 AML 3.0	•



CARIS Source - [hpd://user_a22@XEPDB1?ProjectId=5&UsageId=4]

File Create Edit View Projects Tools Select Usages Certify Window Help

Tools



Merge adjoining areas with the same acronym and attributes into a new area feature.

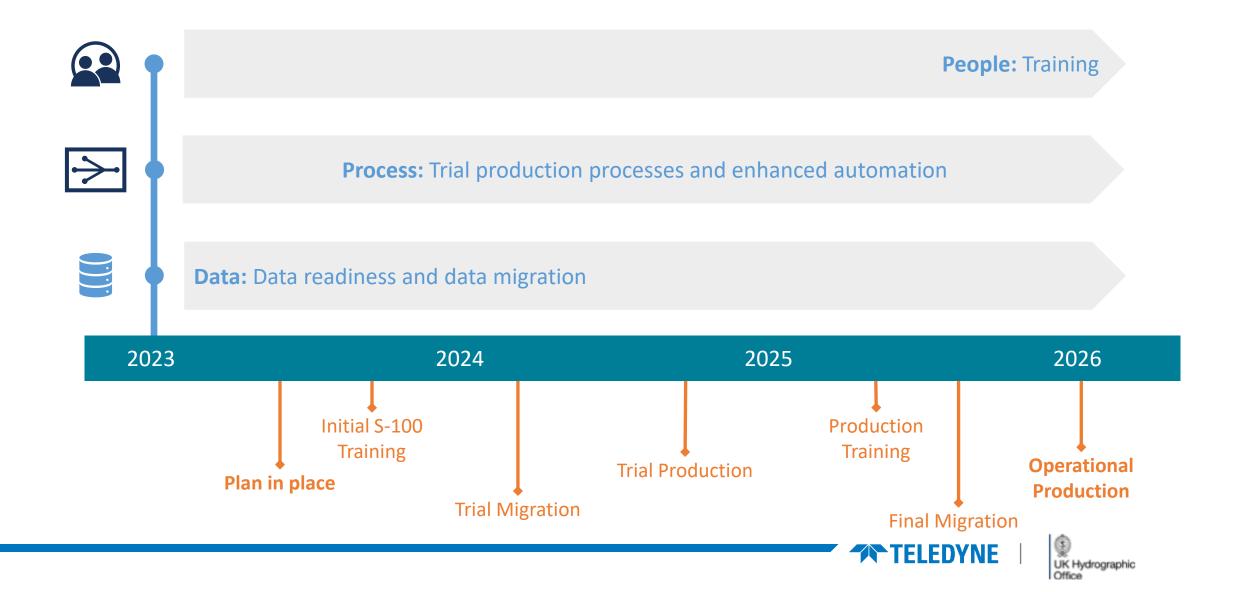
Validation 🔓 Selection 📑 Output

🔧 Related Markers 🎽 Representations 🛛 🚳 History 🔧 Components 🔧 Relations Selected: 1



50.793473N 1.146546W

Plan to achieve dual-fuel production



Training and consulting

- Instructor led courses
 - Onsite or remote
 - HPD, S-57/S-100 Composer, Workflow Automation

ENC products.

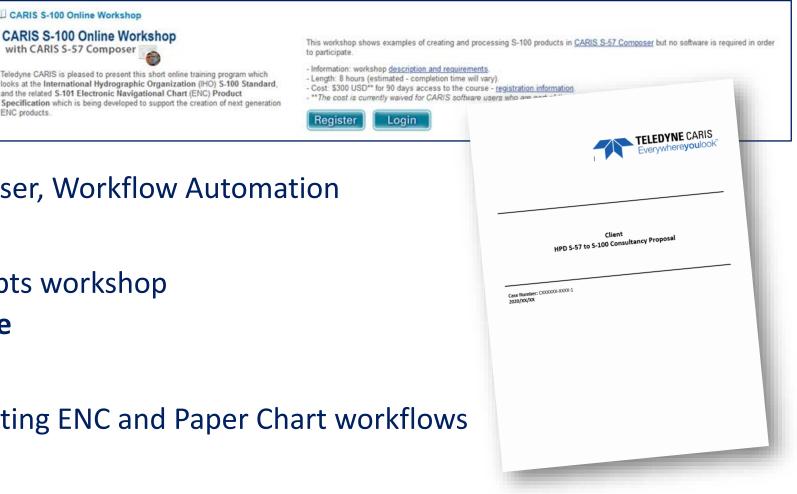
- E-learning
 - S-100 theory and concepts workshop
 - S-101 Production Course
- Webinars
 - Recent ones for Automating ENC and Paper Chart workflows

CARIS S-100 Online Workshop

with CARIS S-57 Composer

CARIS S-100 Online Workshop

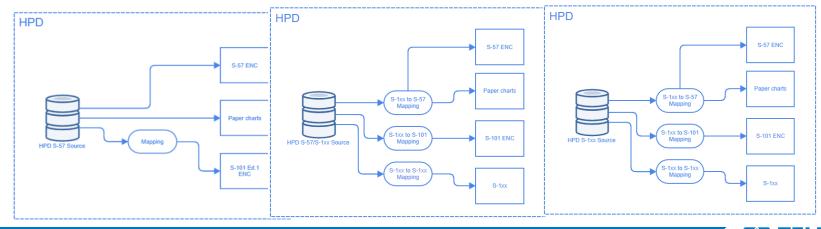
Consulting

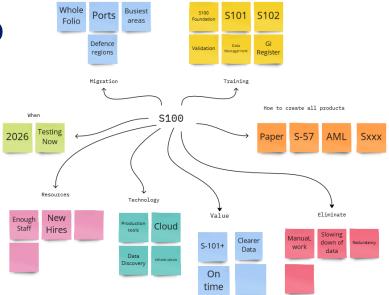




S-100 Sandbox

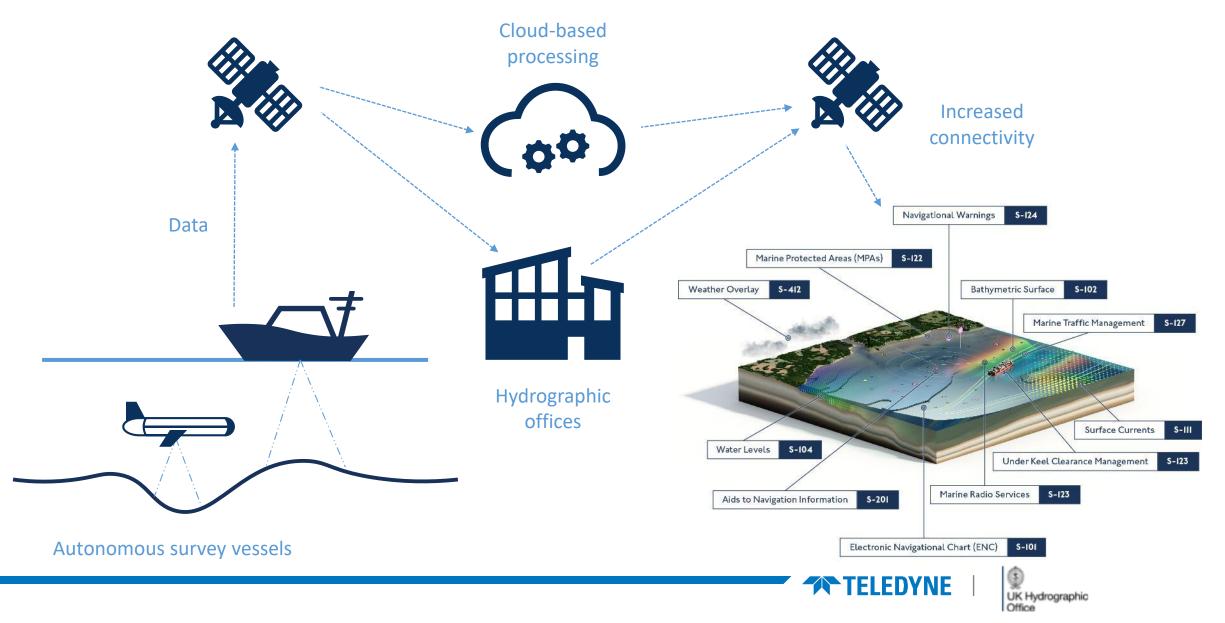
- A Cloud based, secure environment for S-100 enabled HPD
- A customizable environment that we manage for you
 - With relevant to your CARIS system files
 - Your test data and data model
- Subject mater expert guide to facilitate your S-100 aims
- Single or multi use environments





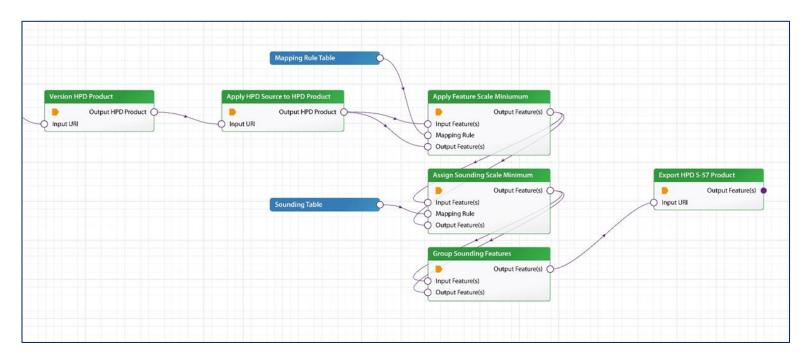


S-100 transformation



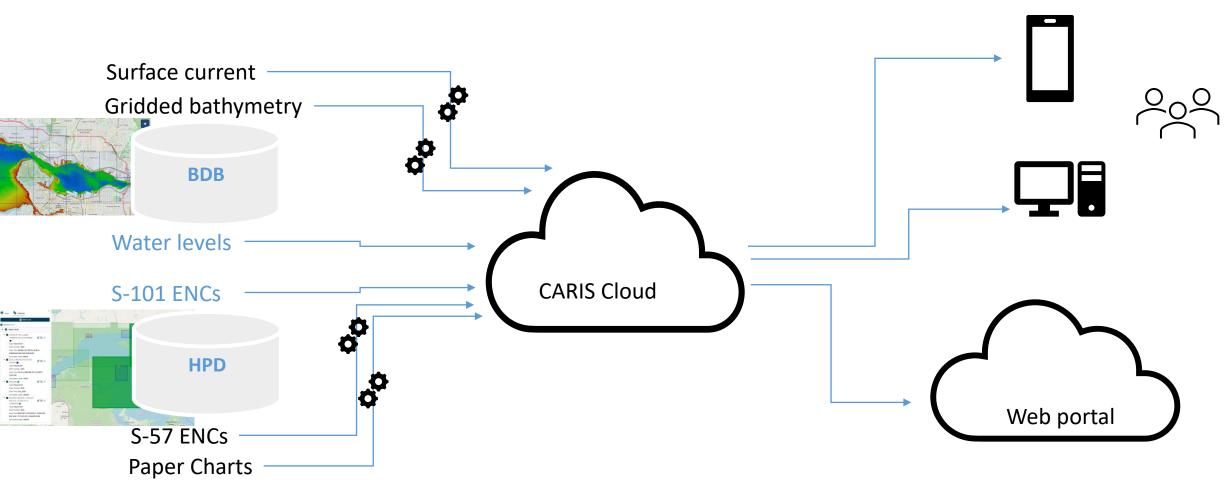
Automate workflows

- Survey data processing in HIPS
- Survey data loading and validation in BDB
- Bathymetry compilation
- ENC production in HPD
- Paper charts in HPD





Turn-key production to cloud services connection



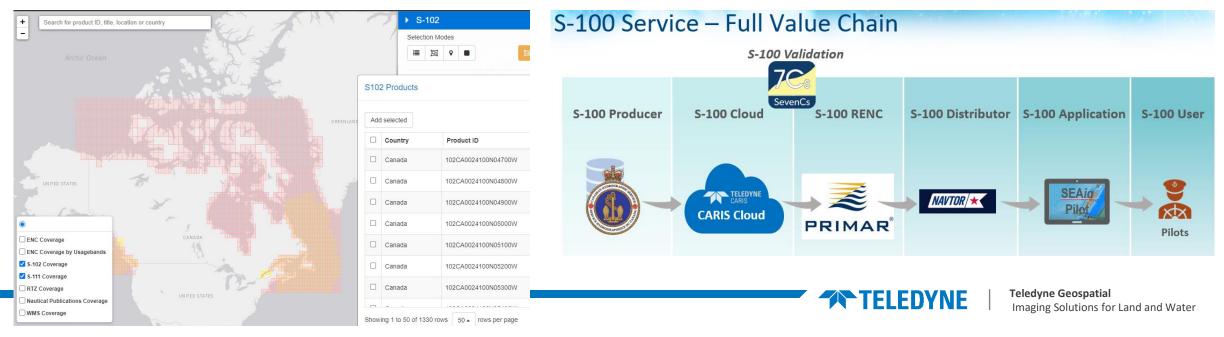
Reproduced with the permission of the Canadian Hydrographic Service



Start a pilot project!

Example: Canadian S-111 & S-102 distributed by PRIMAR Chart Catalogue

- Bathymetry served from CARIS BDB
- Surface Currents served from Environment Canada
- Data flows through CARIS Cloud Services, usage is monitored
- Next add SevenCs Validation service, plans to add S-104



Thank you!

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Thank you to CHS and UKHO for providing data used for demonstration in this presentation