







# Marine Environmental Research Infrastructure for Data Integration and Application Network

#### **VISION**

MERIDIAN's vision is to

Enhance Canada's leadership in the ocean data integration, management and analysis by creating a world-class infrastructure, based on human resources and computing, to increase the data's value and visibility.

#### **MISSION**

MERIDIAN's mission is

To assist the ocean data community in the use of data science technologies to discover, access, analyse and visualise marine data. MERIDIAN will provide ocean data management expertise to ensure that data are well described, discoverable, accessible and reusable.

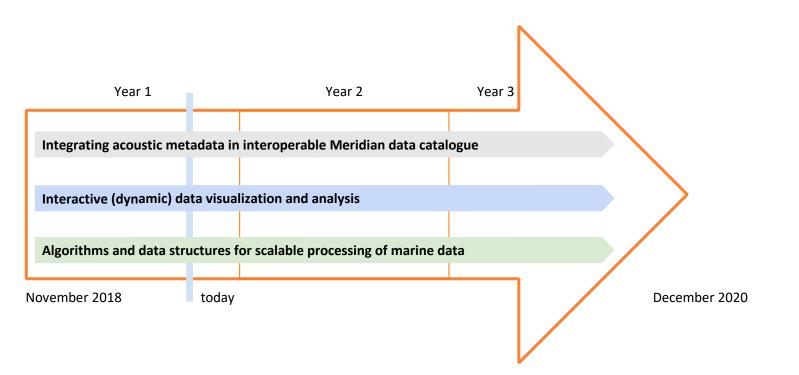








### **Overview: initial MERIDIAN Goals**



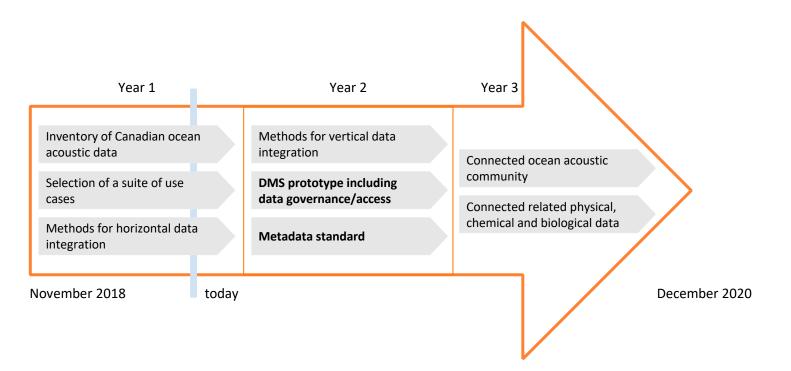








### Goal 1: Integrating acoustic metadata in interoperable Meridian data catalogue



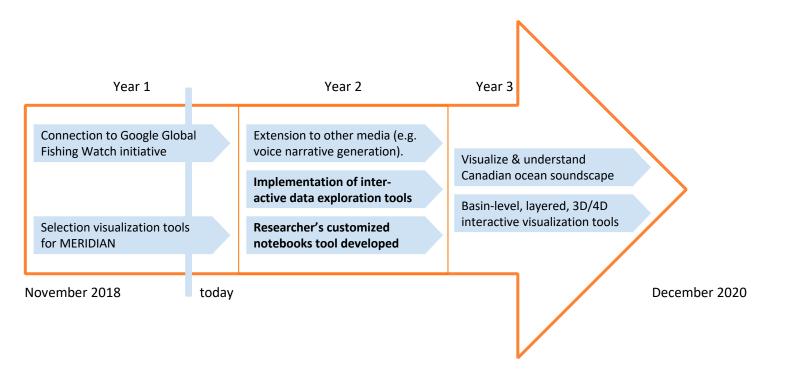








## **Goal 2: Interactive data visualization and analysis**











## Goal 3: Algorithms and data structures for scalable procession of marine data

