

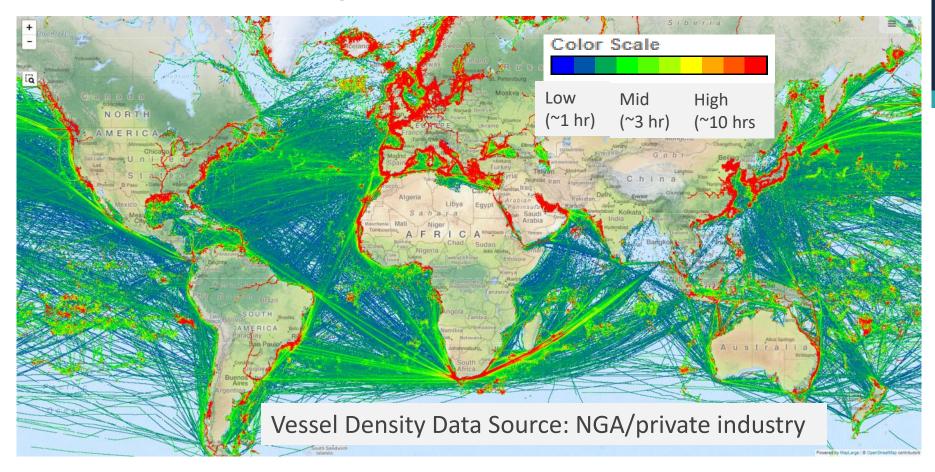
Leveraging Automatic Identification Systems to map global maritime vessel traffic

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Global monthly vessel traffic grids at 1-km scale for October 2020



The Project Analyzes **Years** of AIS Historical Data + Ongoing Live Feeds Billions of Historical Records + Millions of New Records Added Every Month

NATIONAL GEOSPATIAL NGA INTELLIGENCE AGENCY



Methods

Goal 1: Global AIS Product

 Produce historical global maritime traffic density maps leveraging S-AIS

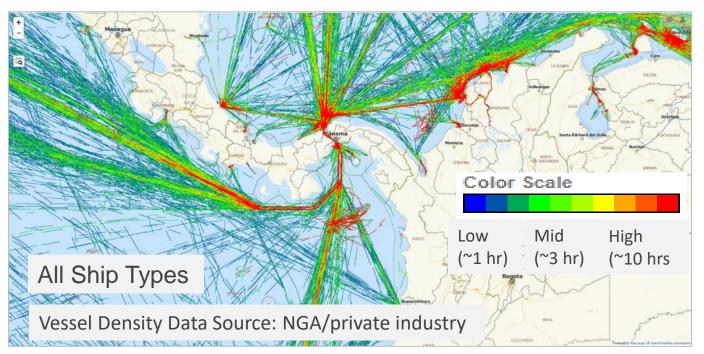
Goal 2 Co-design -

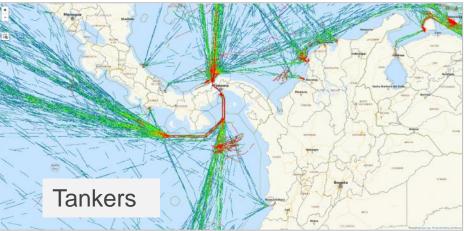
Proactively engage mission partner users in the development process

Goal 3 Wide dissemination - Develop, stand-up, and maintain public facing OGC Services (i.e. WMS)

Adapted from the Published **EMODNet AIS Density Methodology** generating a **GLOBAL** 1km Grid Squares containing calculations of Ship Hours per Month

Panama Canal Traffic in October 2020

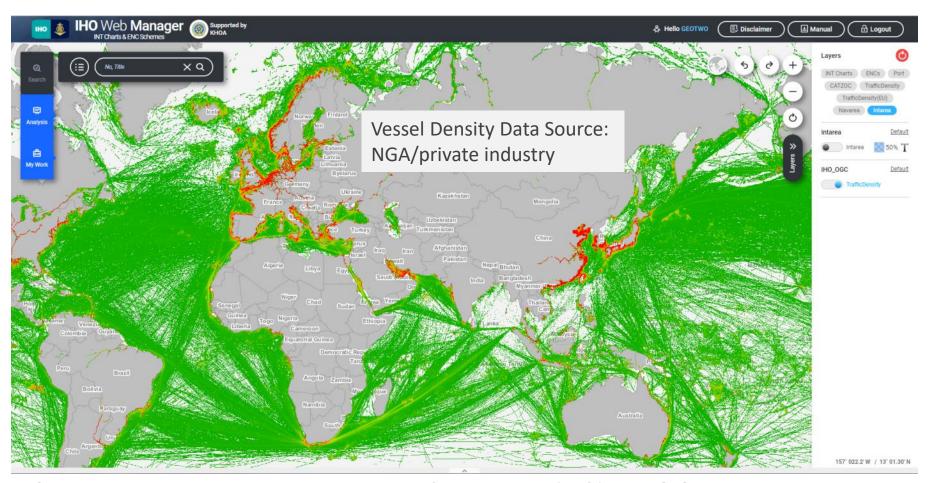




E.g. Types:

- Cargo
- High-Speed
- Other
- Passenger
- Pleasure Craft
- Sailing
- Service
- Tanker
- Tug & Towing
- Unknown

Dissemination



Screenshot of International Hydrographic Organization (IHO) INToGIS showing October 2020 traffic data





