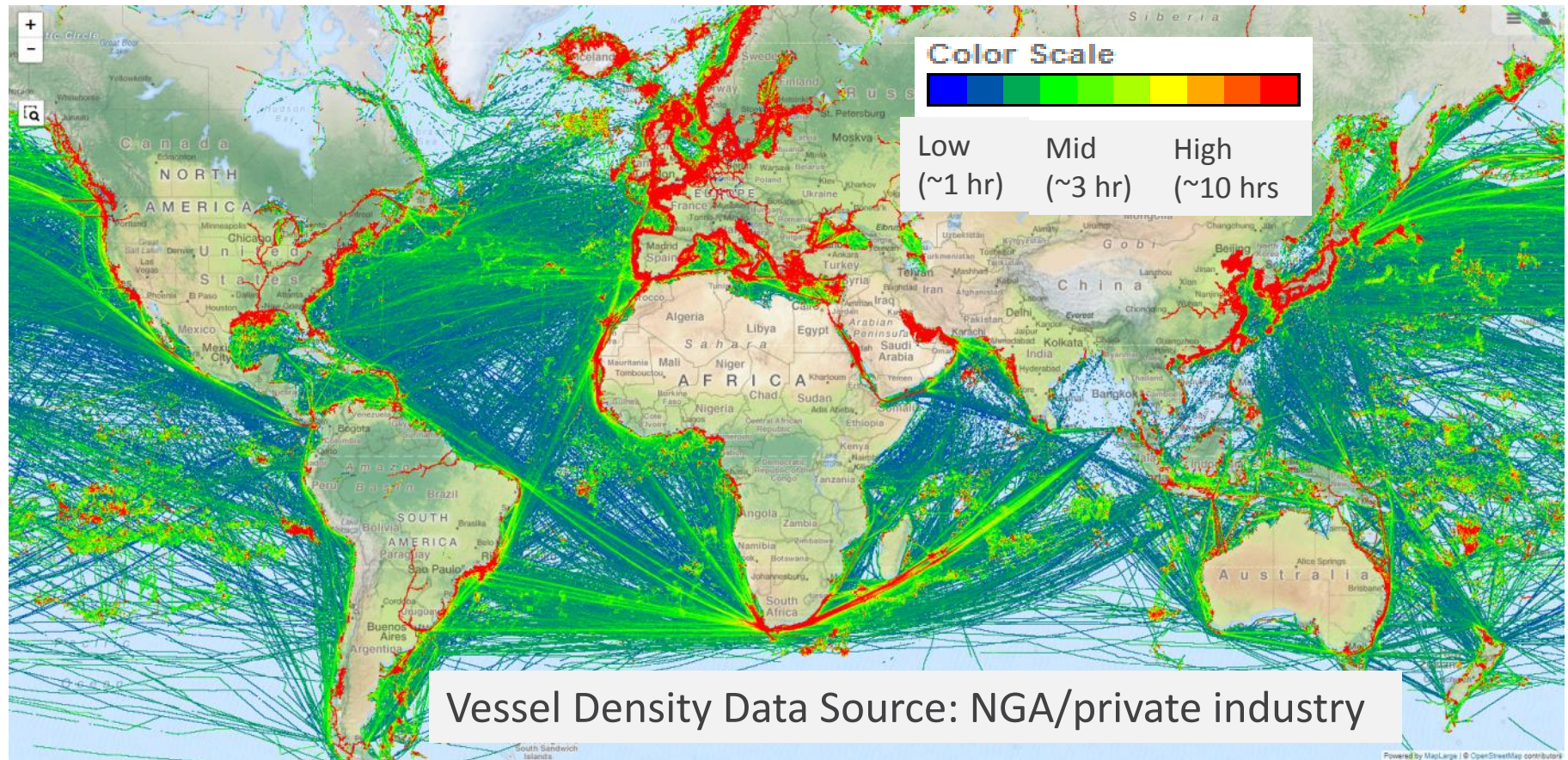




Leveraging Automatic Identification Systems to map global maritime vessel traffic

Approved for public release, 21-304

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 -

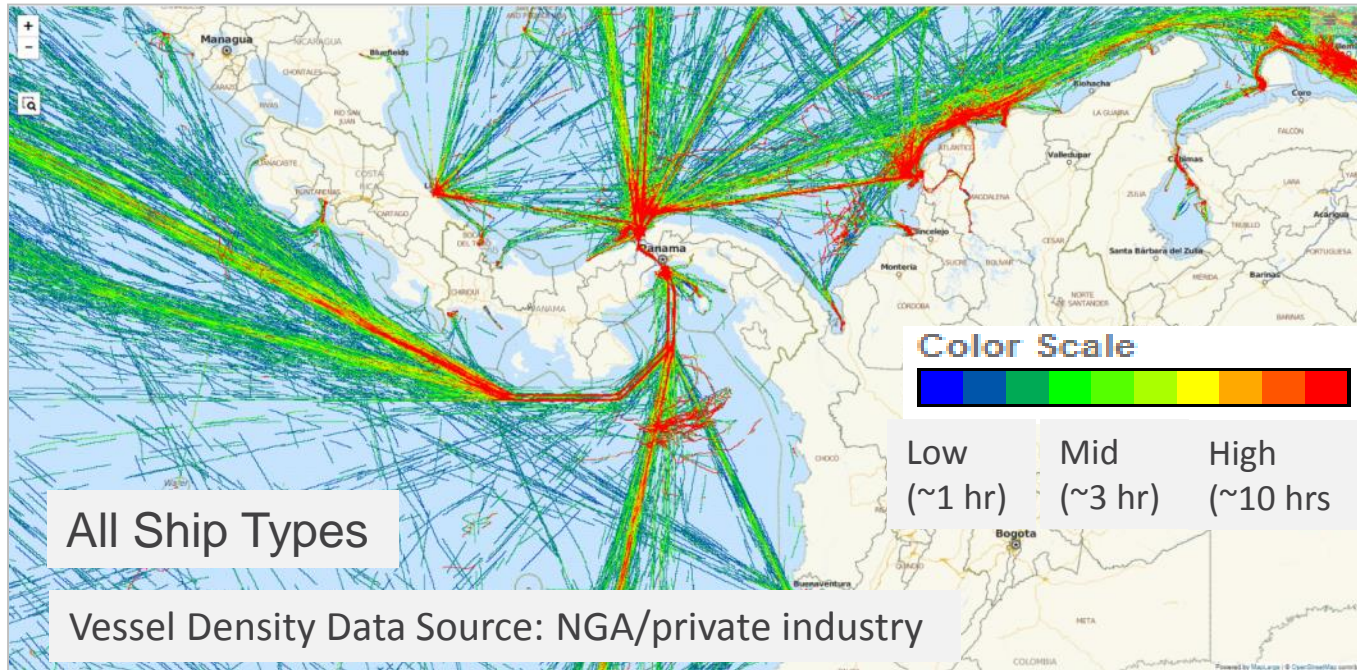
Proactively engage mission partner users in the development process

Goal 3 Wide

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

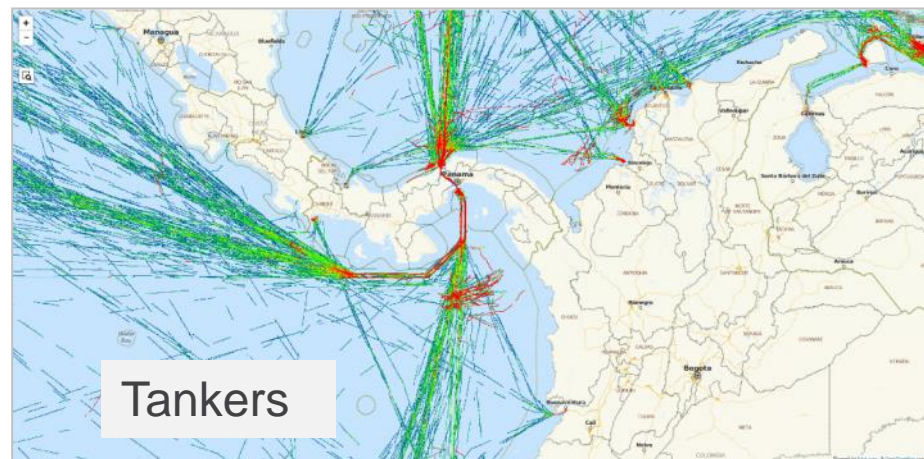
*Adapted from the Published **EMODNet AIS Density Methodology** generating a **GLOBAL** 1km Grid Squares containing calculations of Ship Hours per Month*

Panama Canal Traffic in October 2020

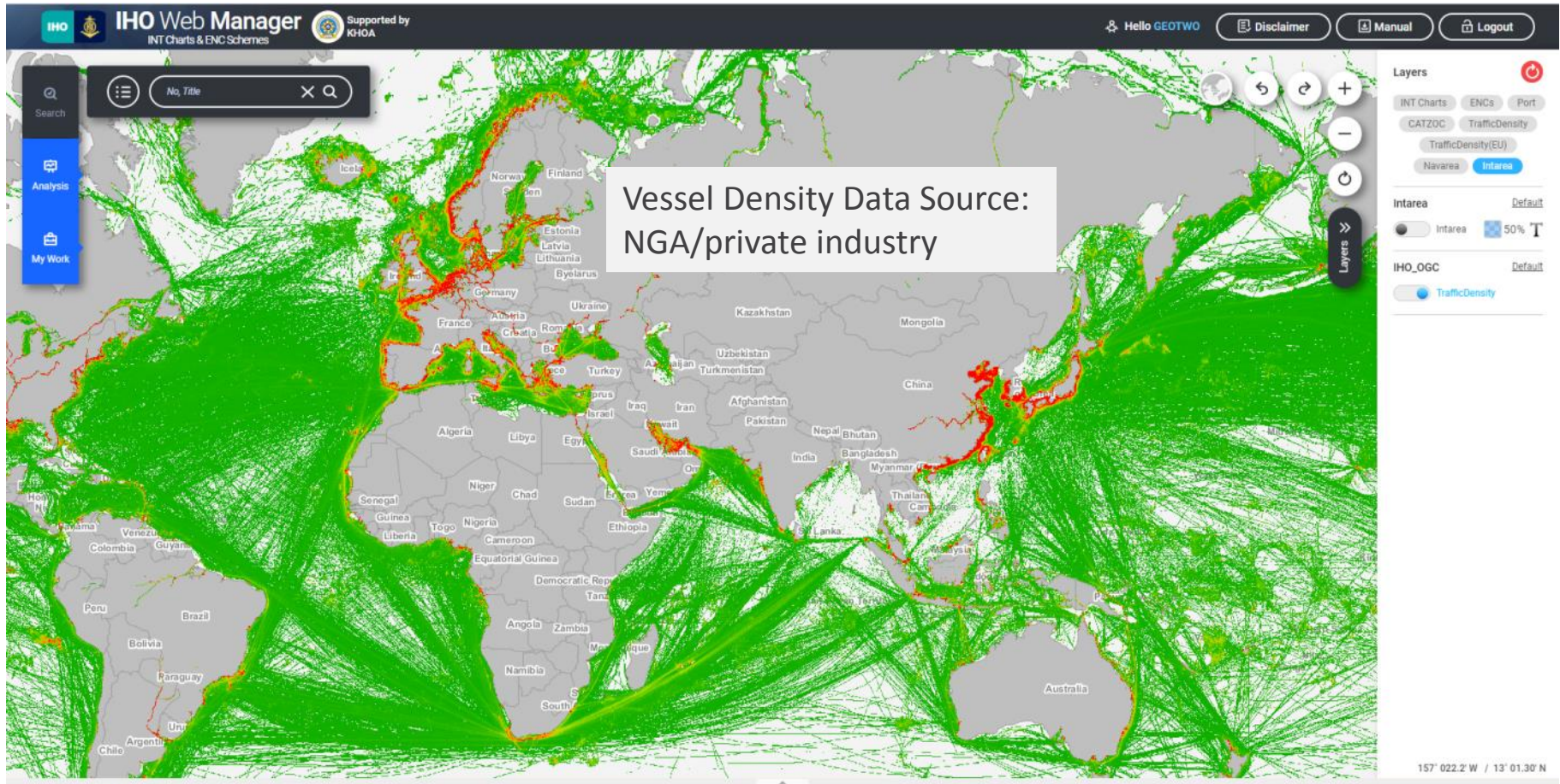


E.g. Types:

- 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

