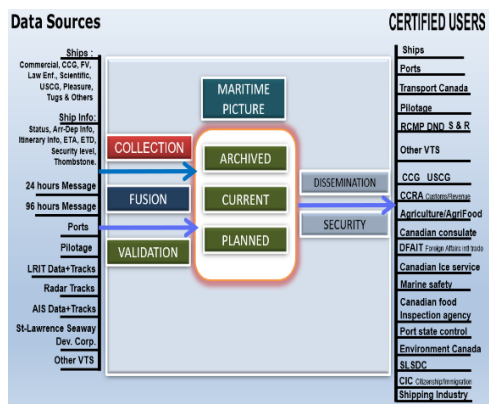


## VTMIS and VTS Software Solution

Our system fulfills the IALA recommendations for a VTS system and addresses all functions required for integrated waterway management. It is a comprehensive operational information management tool that ensures reliable management of the waterway and fully supports the integration of advanced technologies. The system can work with any kind of maps and geospatial info.



Our system integrates, validates, correlates, fuses and disseminates data from various sensor types including and not limited too, Radar, VHF-AIS, SAT-AIS, RDF, LRIT, EO/IR sensors, CCTV cameras and Weather sensors.



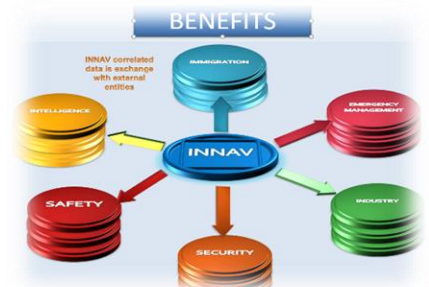
**Reliability** is necessary for any security service, specially when the system ensures safety and management of vessel traffic. Our system solution is a solid and proven operational system, connected to local, regional and national servers to ensure a seamless service 24 hours a day, 7 days a week. Even if the network that links the operational centers fails, our VTS/VTMIS system is designed to continue operating with the specific data of a given site. Information about traffic is automatically resynchronized when the links are re-established. As an effective safety support program, all VTS functions are clearly reflected throughout our system architecture.

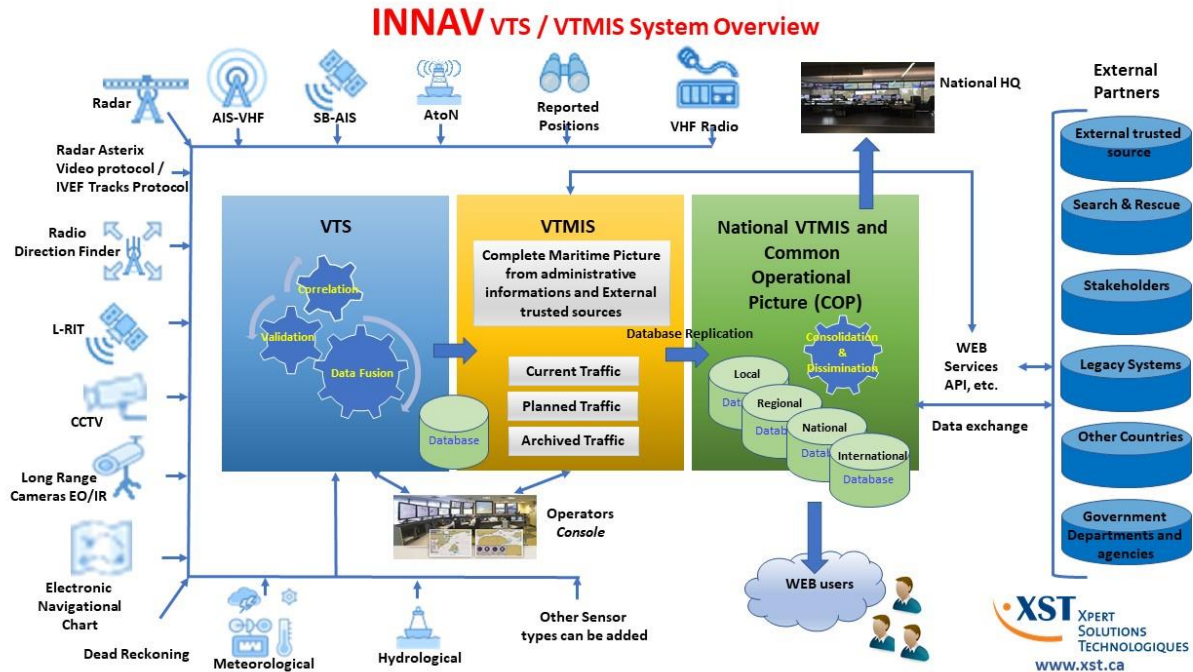


Our system has been developed to adapt to all types of usage constraints and all levels of integration, for instance from navigation in international waters to arrivals in territorial waters, for coastal navigation, to travel in areas with small spaces, such as rivers, lakes and waters shared between several countries.



**Data exchange** is mandatory for sharing or completing maritime picture data between different stakeholders. Many data formats and ways to exchange are used in our system. Some are reports, some via API or others via WEB Services.





**This is the way we are building a Common Operational Picture.**

- **VTS** helps operators to view and identify moving objects over cartographic interfaces in their responsibility area
  - Data is collected from multiple sensor sources;
  - Data is validated, correlated and fused;
  - Data is displayed on operator consoles with display layers preferences.
  
- **VTMISS** is built with administrative functionality tools in order that operators or supervisors can have access to more details. Traffic information is completed. Transit information is updated and available.
  - The current traffic image is the actual traffic situation;
  - Planned traffic gives to operators and other users the ETA and a view on upcoming traffic;
  - Archived traffic gives access to playback functionalities, reports and a great source of data for specific studies.
  
- The **National VTMISS COP** is the concatenation of the entire data from Local, Regional VTS/VTMISS sites. It also ensures data redundancy, a way to manage and secure data exchange and a complete COMMON OPERATIONAL PICTURE.
  - Information is available for client HQ and is secured for external access;
  - Typically, organizations like Search & Rescue, National Defence Dept. Environment Dept., Federal Police, Customs, Ports, pilotage authorities find the information needed.