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Patterns of Life Activity Recognition and Inference System

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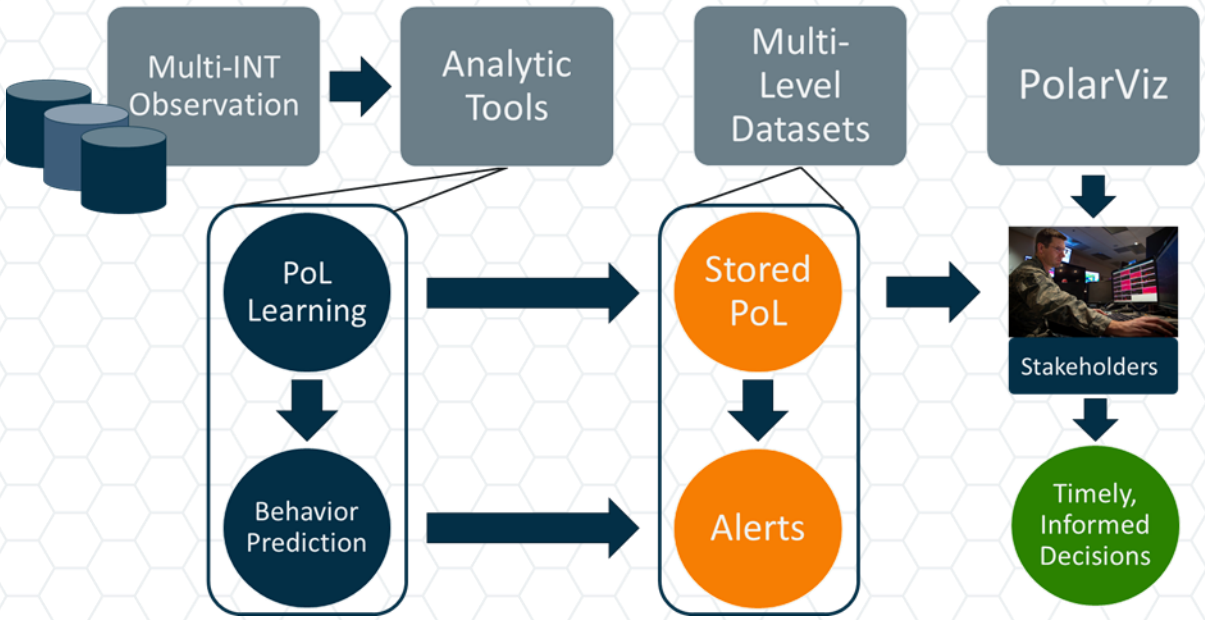
Improved space domain awareness tools

POLARIS provides orbital analysts with an **automated, continuous** method to create **generalizable patterns of life (PoL)** from **multi-source and multi-modal** data streams

- Anomalous maneuver detection
- Recommended identity of unknown objects
- Satellite light curve forecasting
- This technology has participated in three SACT events
- Algorithms integrated into two DARPA test beds



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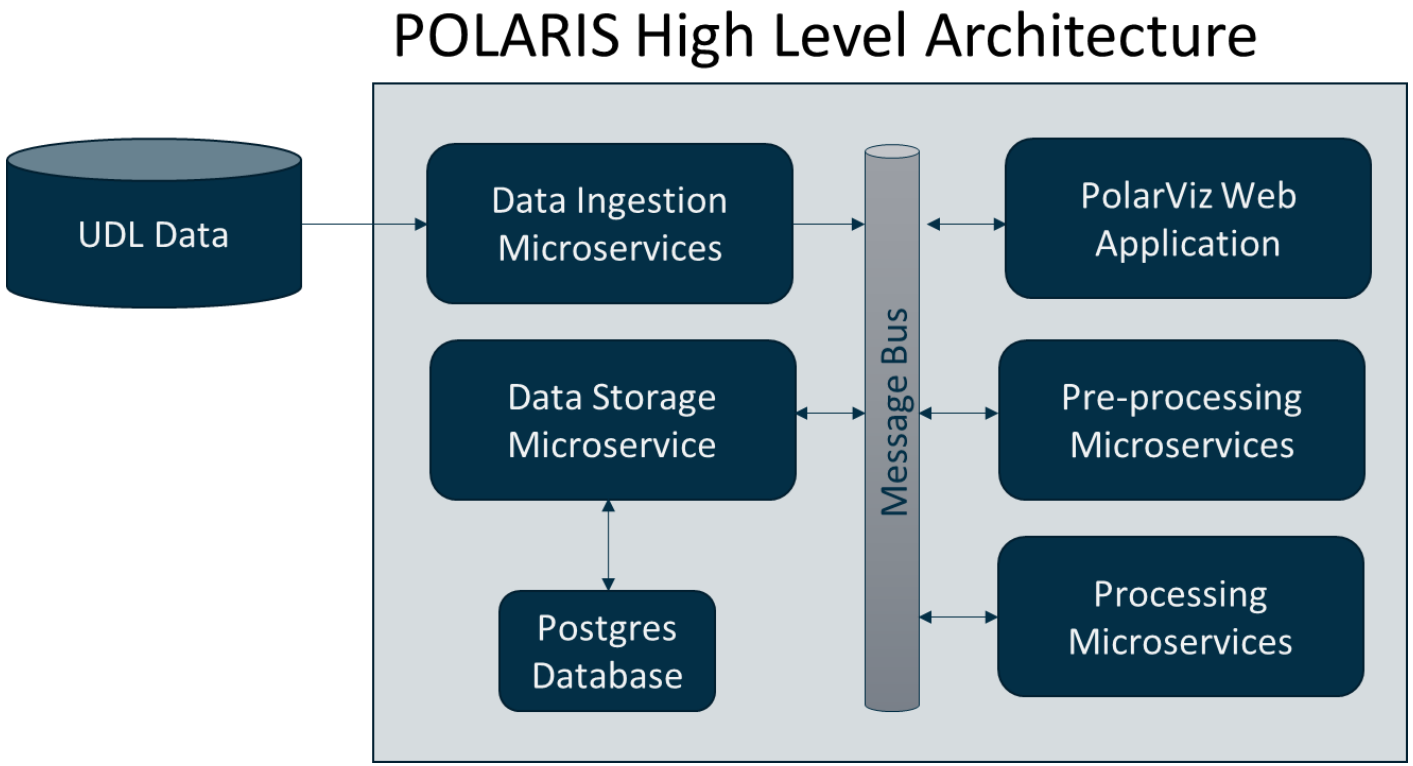
Aptima Software Design

POLARIS is a robust **containerized system** that holds backend **algorithms**, **databases**, and a **User Interface**

- Allows for simplified integration to other systems
- Customizable to customer needs
- Components speak to each other over JSON message bus



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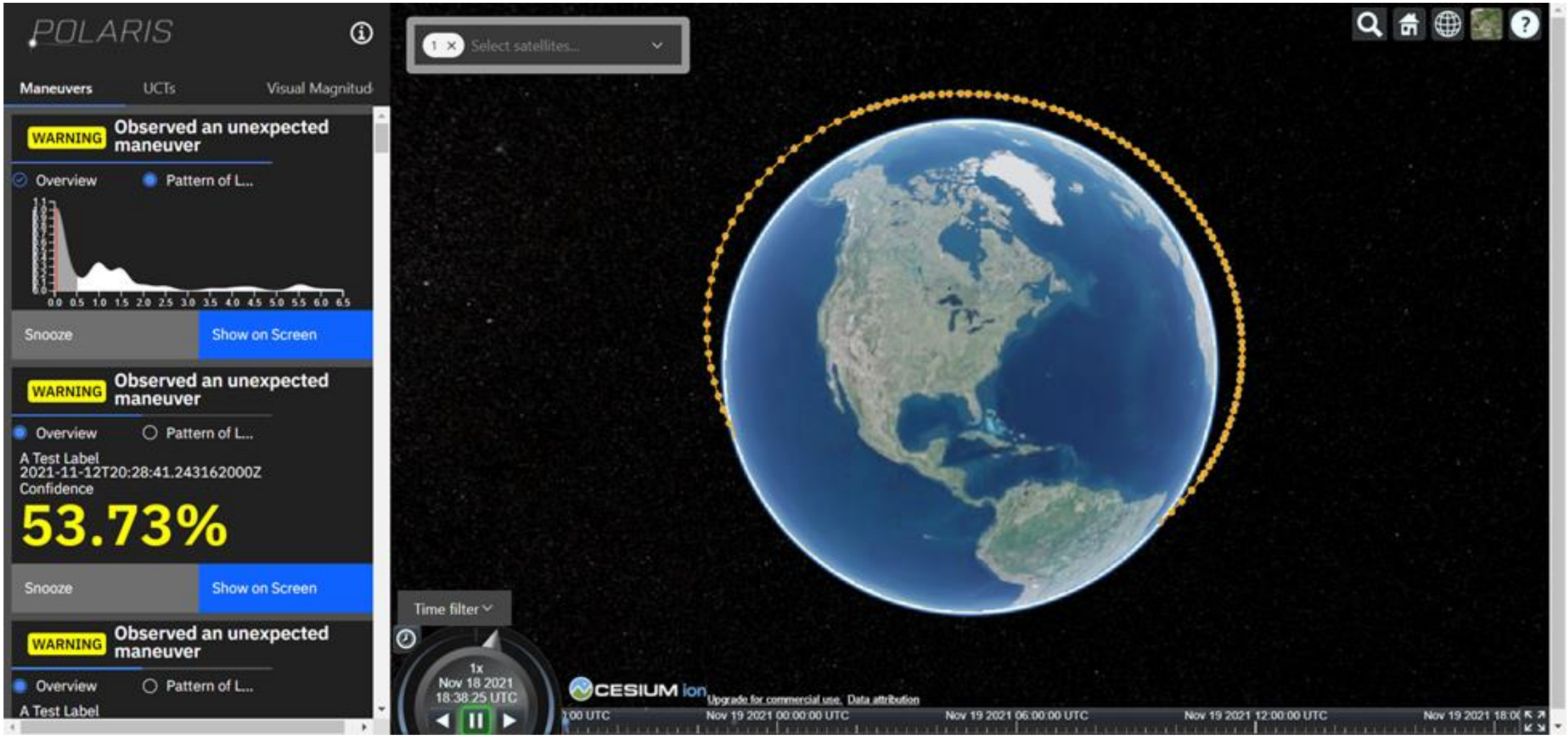
In-Action

PolarViz: the systems UI viewed by analysts



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