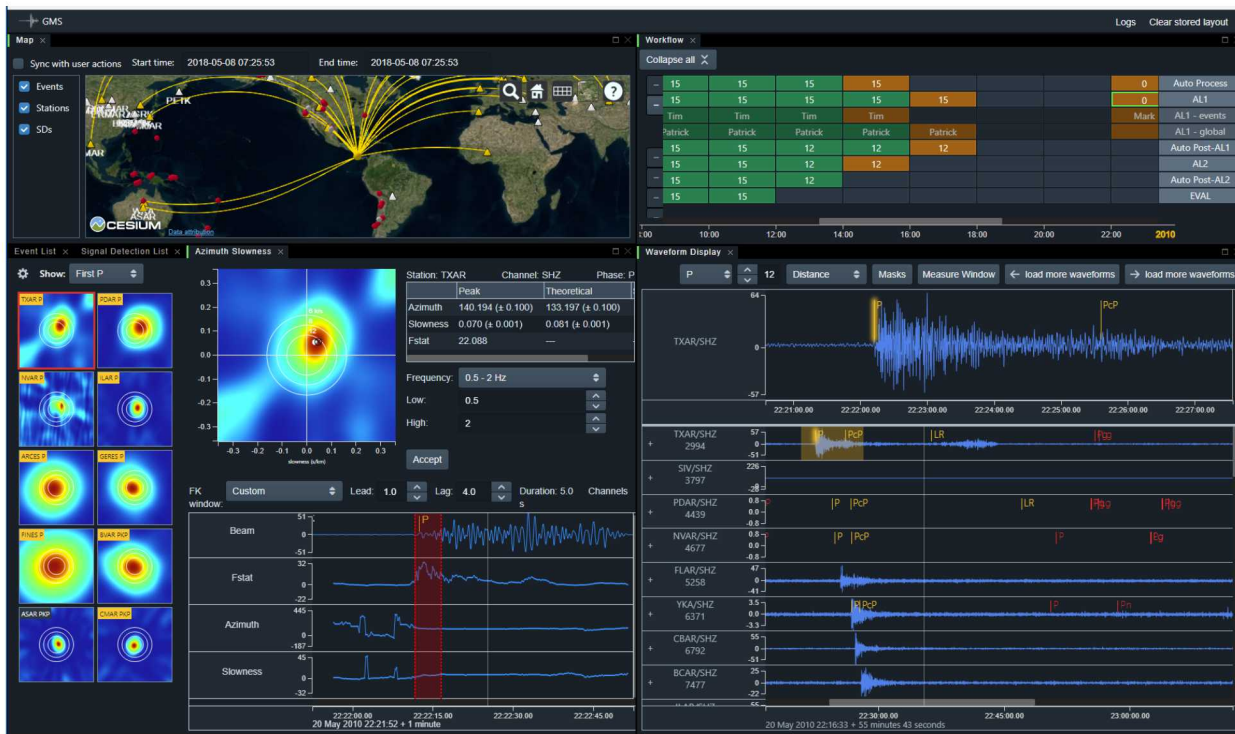


# Geophysical Monitoring System (NDC Modernization)



The United States National Data Center (US NDC) Modernization project is a large-scale re-development effort to modernize the US NDC for the Air Force Technical Applications Center (AFTAC). Over the next six years our team will take this system from design to operational reality.



Signal processing and correlation of data from hundreds of sources



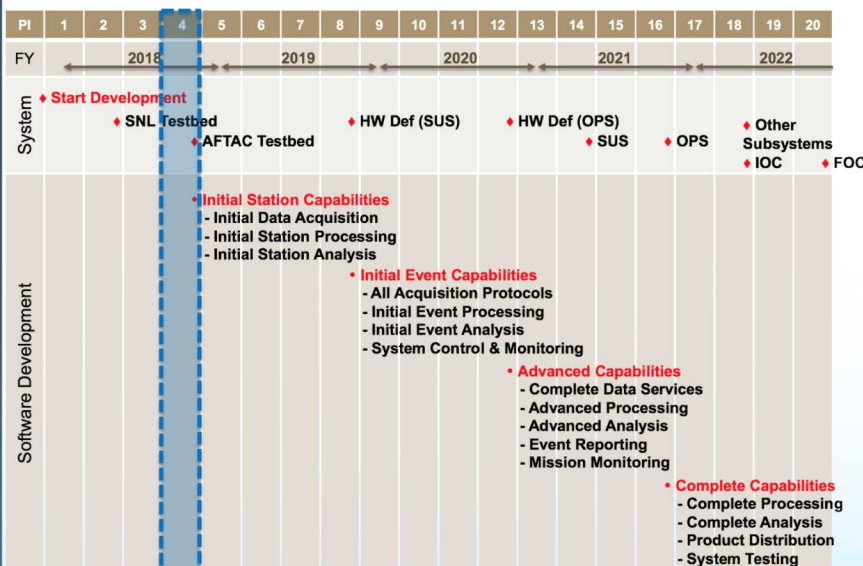
Complex user interfaces supporting some of the most highly trained analysts in the world



Scalable, Modular, and Extensible



Six-year software development effort using industry best practices such as the Scaled Agile Framework (SAFe)



The US NDC Modernization effort is part of Sandia's Defense Nuclear Nonproliferation R&D portfolio. This system will collect and analyze data from networks of seismic, infrasonic, and hydroacoustic (SHI) sensors to detect, locate, associate, and discriminate between natural (earthquakes) and man-made (nuclear) explosive events.

The modernized system will be based on a comprehensive and efficient data model cohesively integrated with a well-engineered software architecture that will readily accommodate expanded sensor networks as well as facilitate the integration of new computational modeling techniques, computer network technologies, and geophysical data analysis processes and mitigate the risk of obsolescence into the future.