



*Exceptional
service
in the
national
interest*

IDC Re-engineering

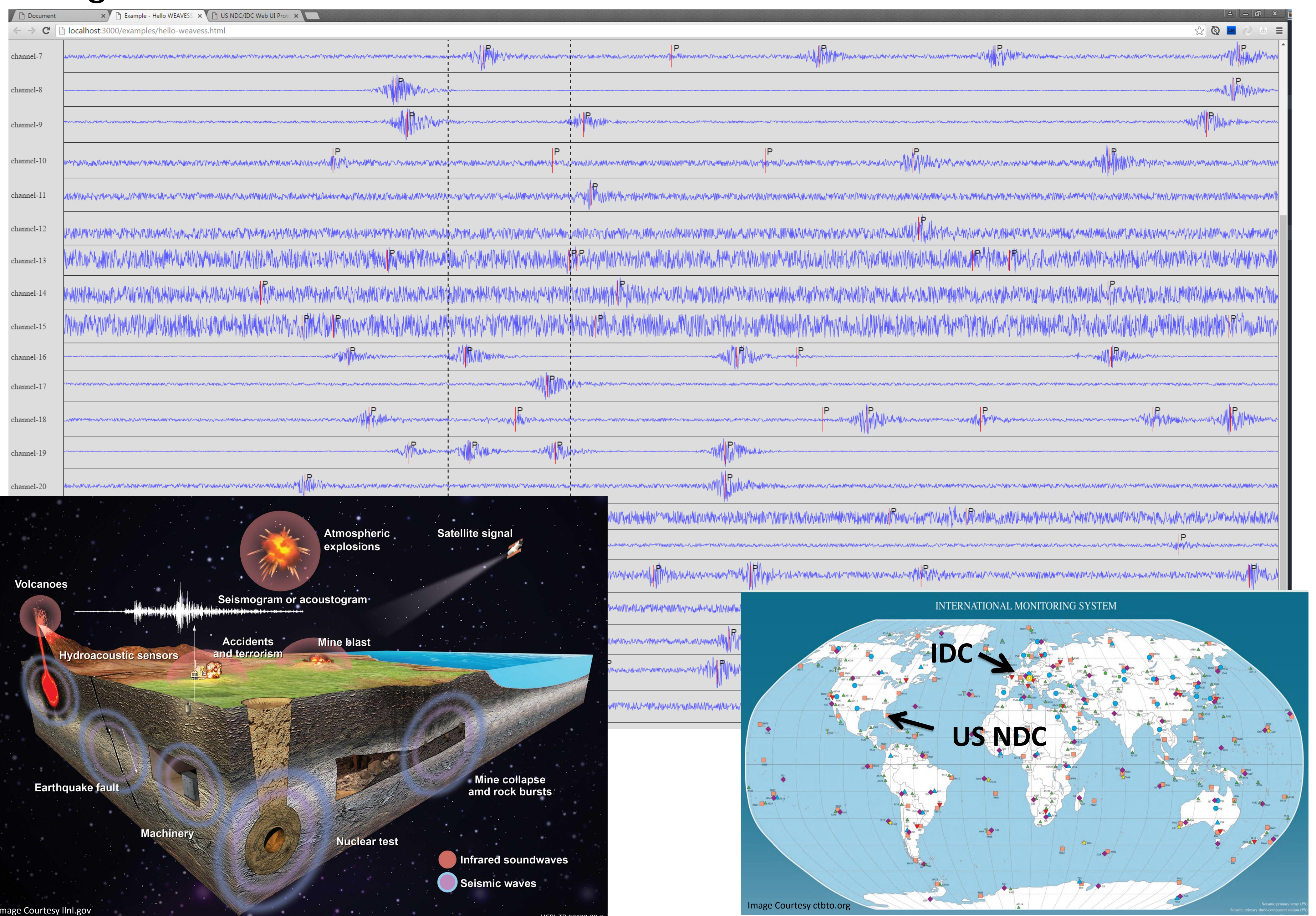
International Data Centre

In conjunction with the United States National Data Center (US NDC) Modernization project, Sandia is currently in the design phase of re-engineering the International Data Centre (IDC). The IDC is a part of the Comprehensive Nuclear-Test-ban Treaty Organization (CTBTO) located in Vienna, Austria.

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 re-engineered 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.

Features:

- Signal processing and correlation of data from hundreds of sources
- Complex user interfaces supporting some of the most highly trained analysts in the world
- Development of a new, scalable, modular, and extensible software baseline facilitating collaborative development, evaluation, and deployment of new algorithms



IDC Re-engineering is currently in the elaboration phase.