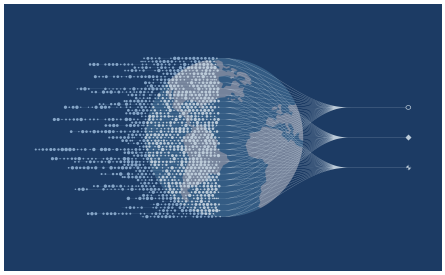

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Monitoring System interactive analysis updates

Sandia National Laboratories is developing the Geophysical Monitoring System (GMS) for modernization of the United States National Data Center waveform processing system. The GMS development effort is now focused on development of interactive analysis capabilities (IAN) to replace the ageing Analyst Review Station. IAN now includes capabilities to filter, rotate, and beam station data; measure the azimuth and slowness of signal detections using frequency-wavenumber spectra; and create and locate events using a processing service based on the open source LocOO3D software. IAN is built with modern web technology, with user interfaces accessible using a common web browser. All displays are fully synchronized with a consistent user experience. GMS is deployed using a cloud-ready Kubernetes containerized platform, hardened for cyber security accreditation. The United States is providing the common architecture and processing components of GMS as a contribution in kind to accelerate progress on International Data Centre re-engineering. Open source releases are available on GitHub. This presentation describes the current GMS interactive analysis design and capabilities.

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