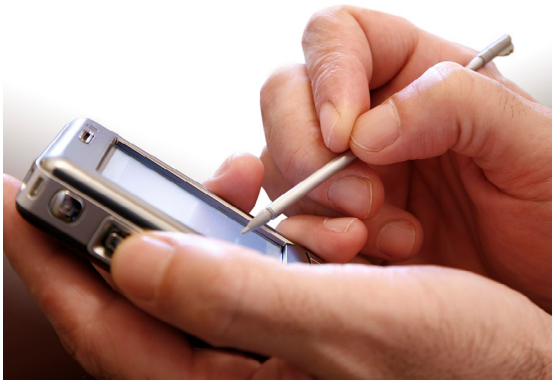
oceanit
innovation through engineering & scientific excellence

NERRO | NEUROMORPHIC EDGE REAL-TIME REASONING OPERATIONS

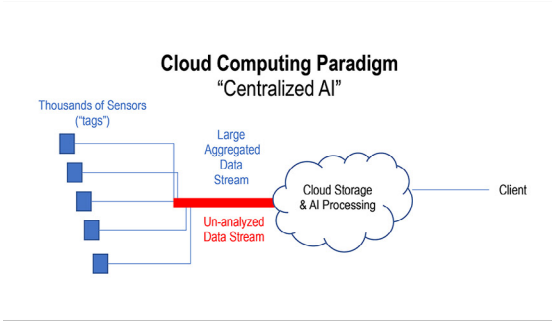


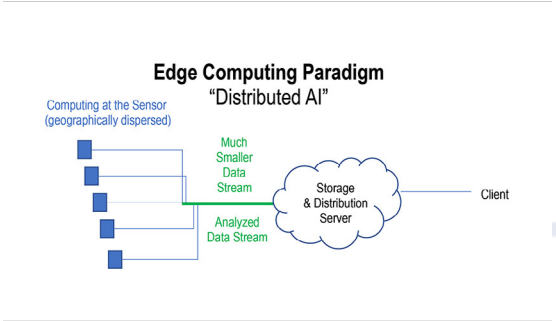
NERRO: AI on the Edge

Breakthrough AI hardware that can be trained in the field, represents the future of digital energy operations.

Unique Value:

- Onsite processing and only transmit results
- Maintain control of your data
- Mitigate cyber security risks





Edge vs Cloud Computing:

	Edge	Cloud
Data Quantity	Much smaller data stream	Potential for bit errors and other communication issues
Latency	Much lower latency due to distributed processing	Latency from communicating to and from cloud servers
Accuracy	More accurate output	Processing delays from ingesting very large data streams and then having to process it all in the cloud
Capital Intensity	No large capital investment for centralized cloud processing	Need large, established infrastructure requiring upfront investment
Security	Lower cyber security risk/ easier to maintain control of data	Higher cyber security risk/centralized target

Breakthrough Technology:

Oceanit has over 20 years of experience with developing edge sensing chips and software for the defense and energy industries. Oceanit has a history of developing sensing technologies for systems with huge data rates per sensor (10's Gbps) with large scale networks to provide "operationally relevant" output in any reasonable amount of time.

Processing is distributed on device and data is only transmitted back to a central server in the Kbps range. Oceanit's NERRO technology can serve the same paradigm for Edge Computing for O&G and Amazon is starting to invest in AI chip design for this purpose.

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