

A vibrant, cartoon-style illustration of a teal submarine with yellow propellers and a skull-and-crossbones logo on its side. Inside the cockpit, three characters are visible: a white bear wearing a blue captain's hat and uniform, a black and white penguin wearing a white sailor's hat, and an orange cat wearing a blue sailor's hat and sunglasses. The submarine is set against a dark blue background with glowing, colorful spheres and faint outlines of other submarines. The text 'OCEAN EXPLORATION data and the next GENERATION' is overlaid on the right side of the image.

OCEAN EXPLORATION data and the next GENERATION

Timothy Kearns
Ocean Aero



PADA 101K

K.10 No. 040

DIRGAHAYU

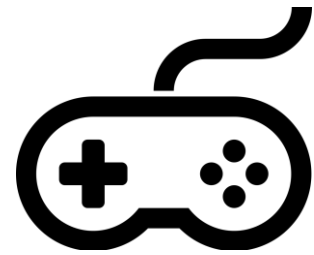
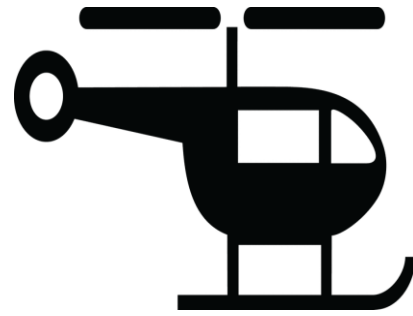
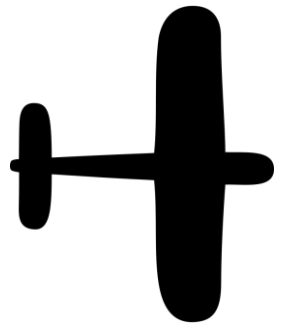
K.10 No. 031

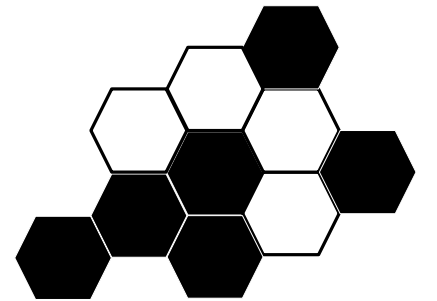
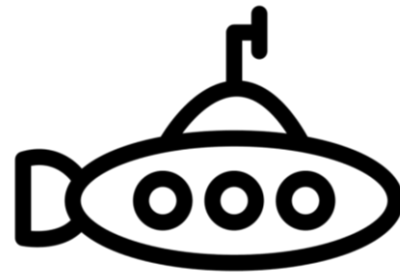
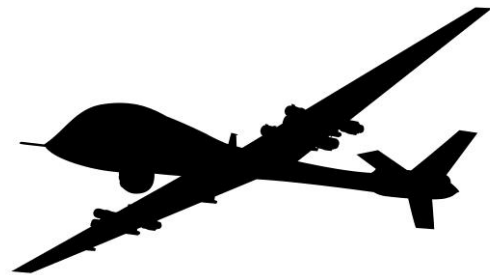
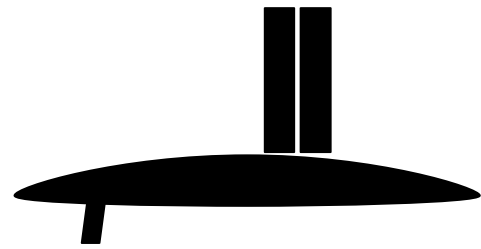
OCEAN

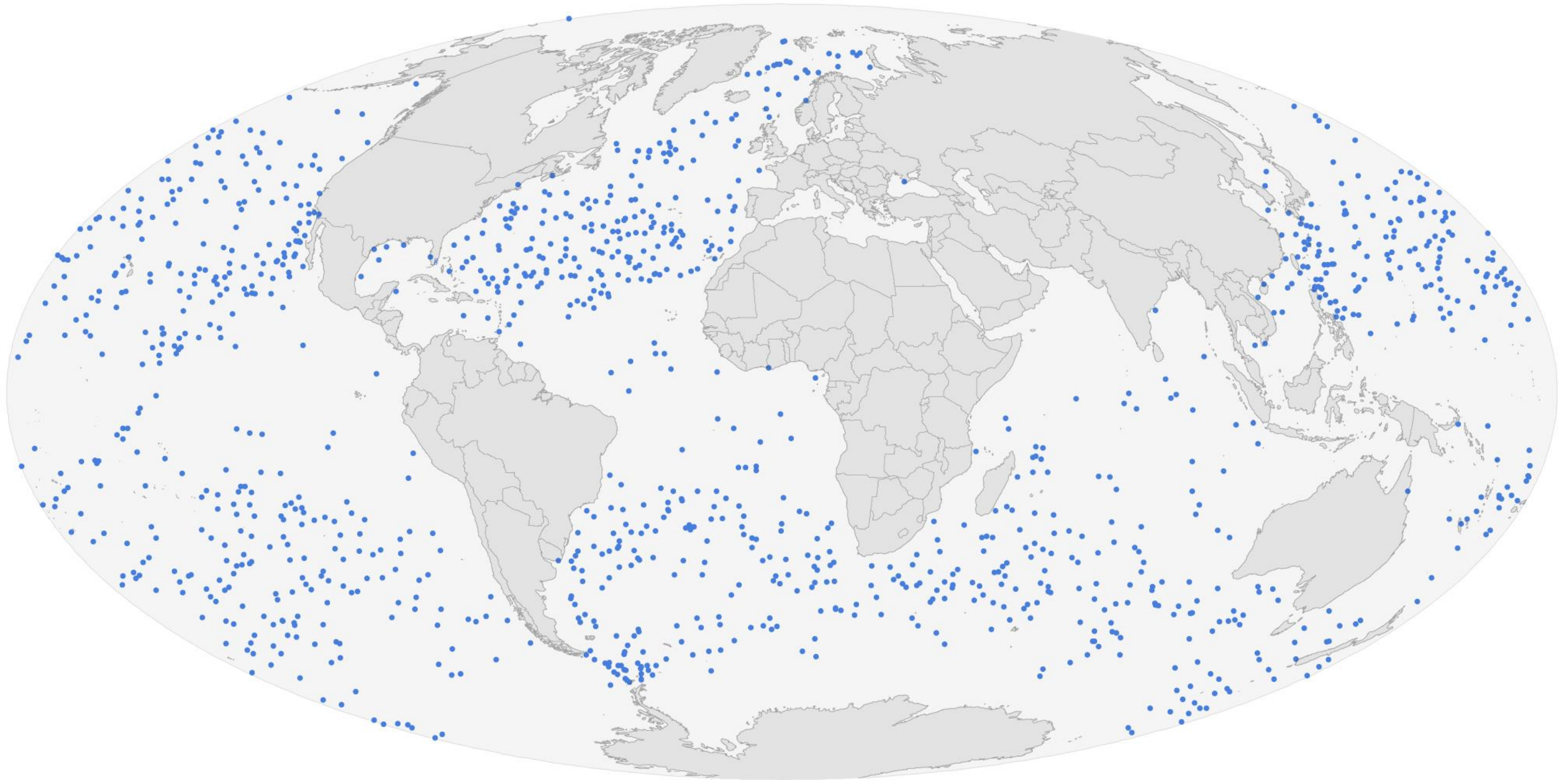
EXPLORATION

there's no shortage of it.

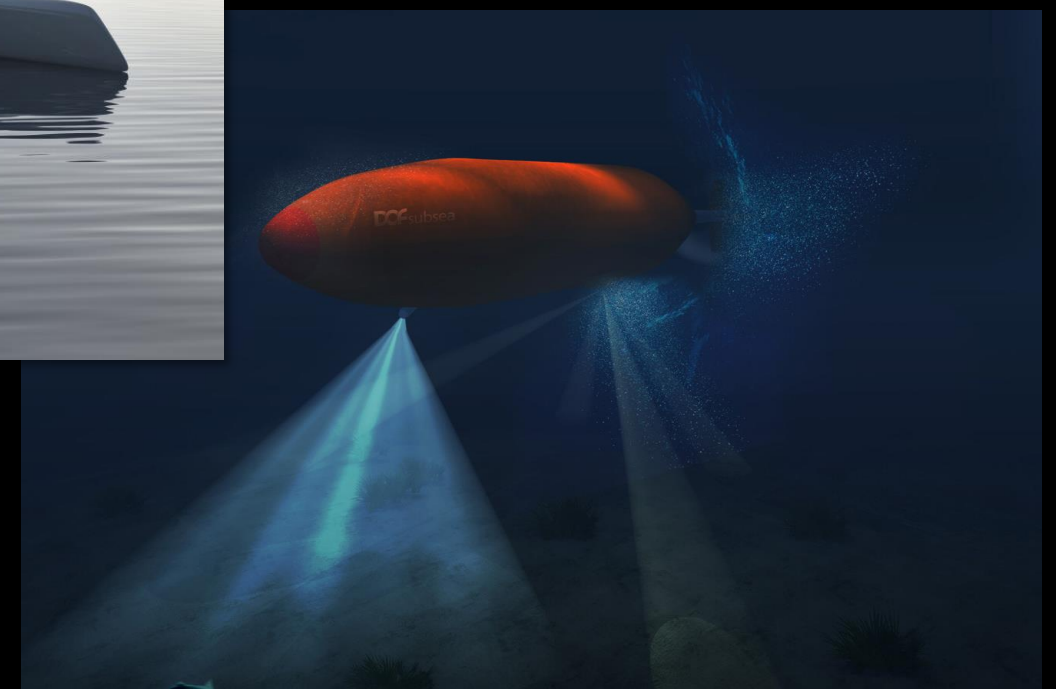
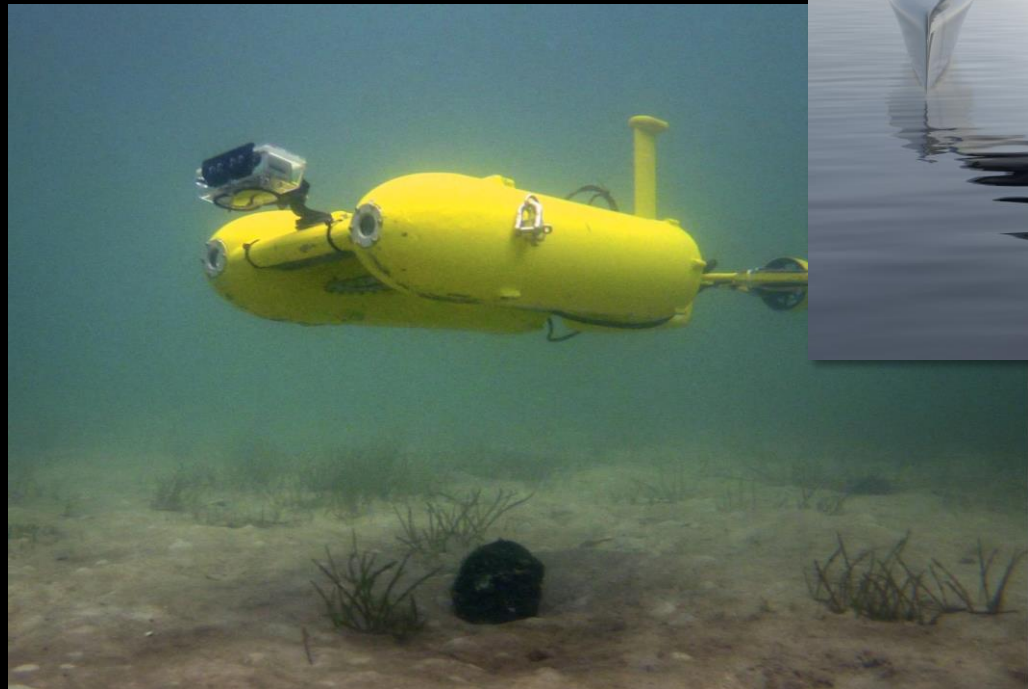
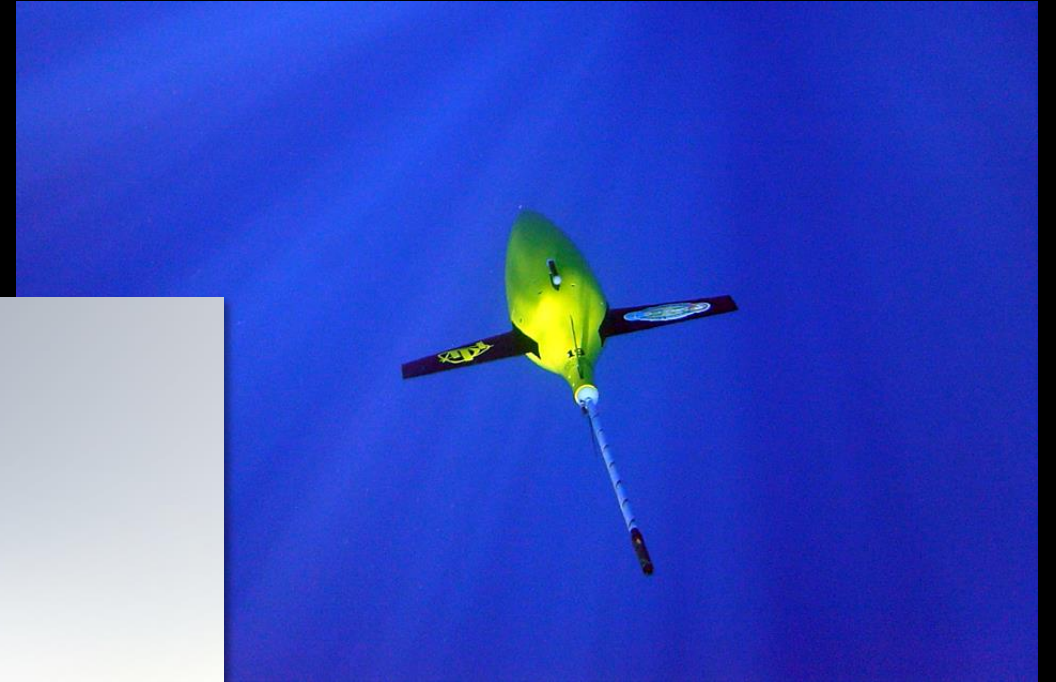
DATA



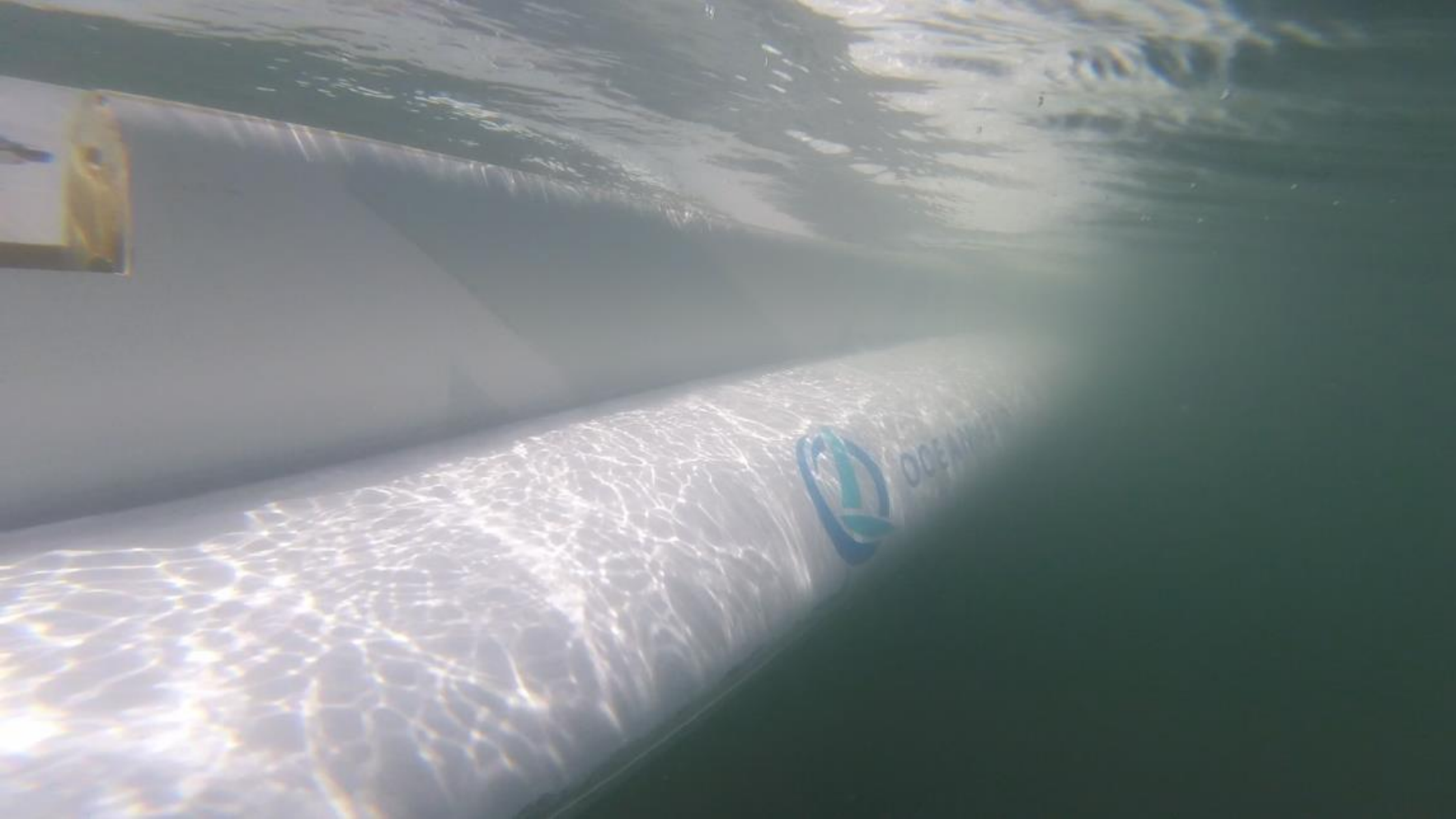




Map of locations for drifters as of April, 2013.









AUTONOMY
really means
AUTOMATIC



THE TREND IN TECHNOLOGY
IS
automation of processing streaming
data to information.



The rate at which we can collect data
far outpaces our
ability to process it.

Technical
Capability

Human
Capacity

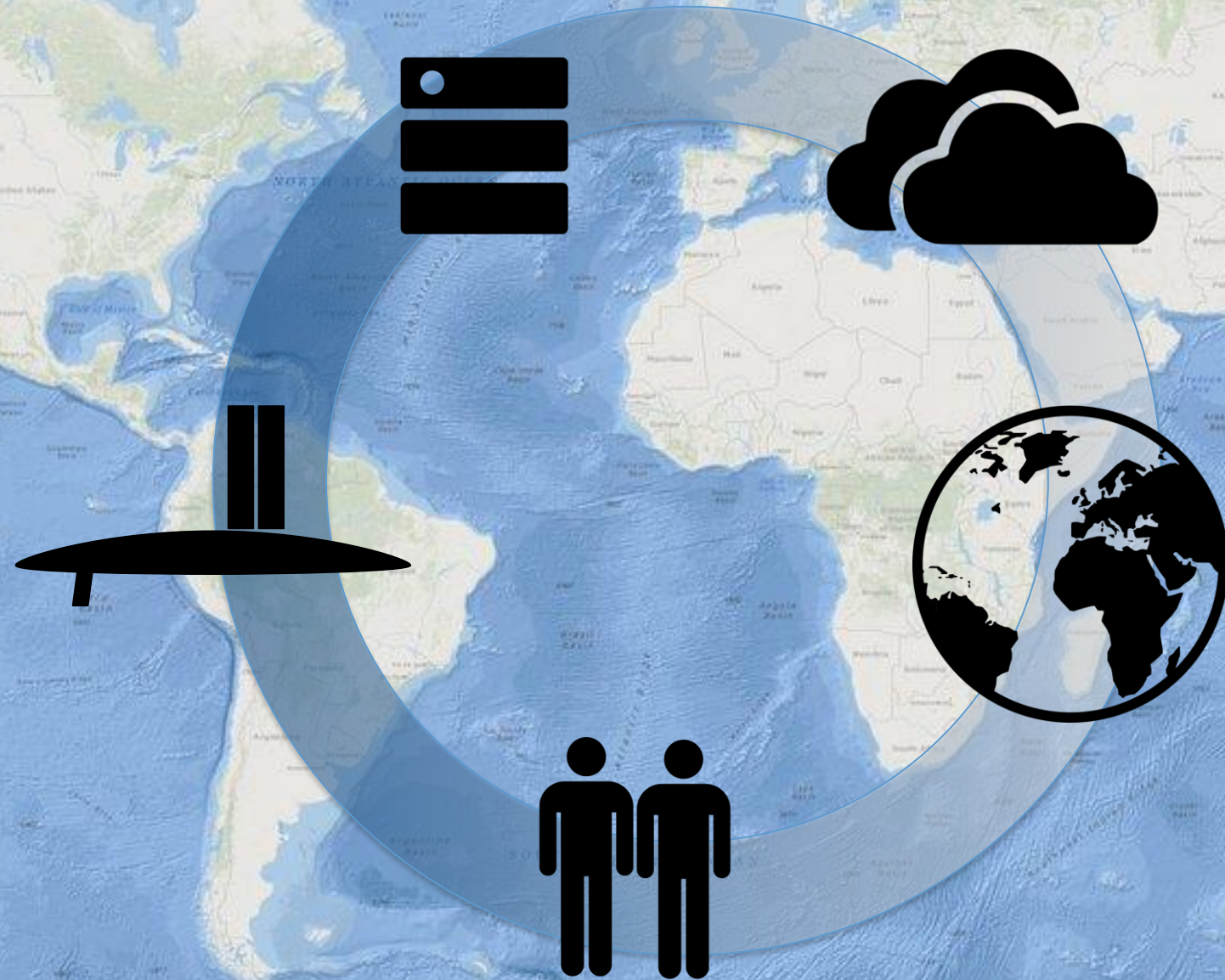
TODAY

Linear Paradigm



FUTURE

Autonomous Paradigm



Not here to talk about data.



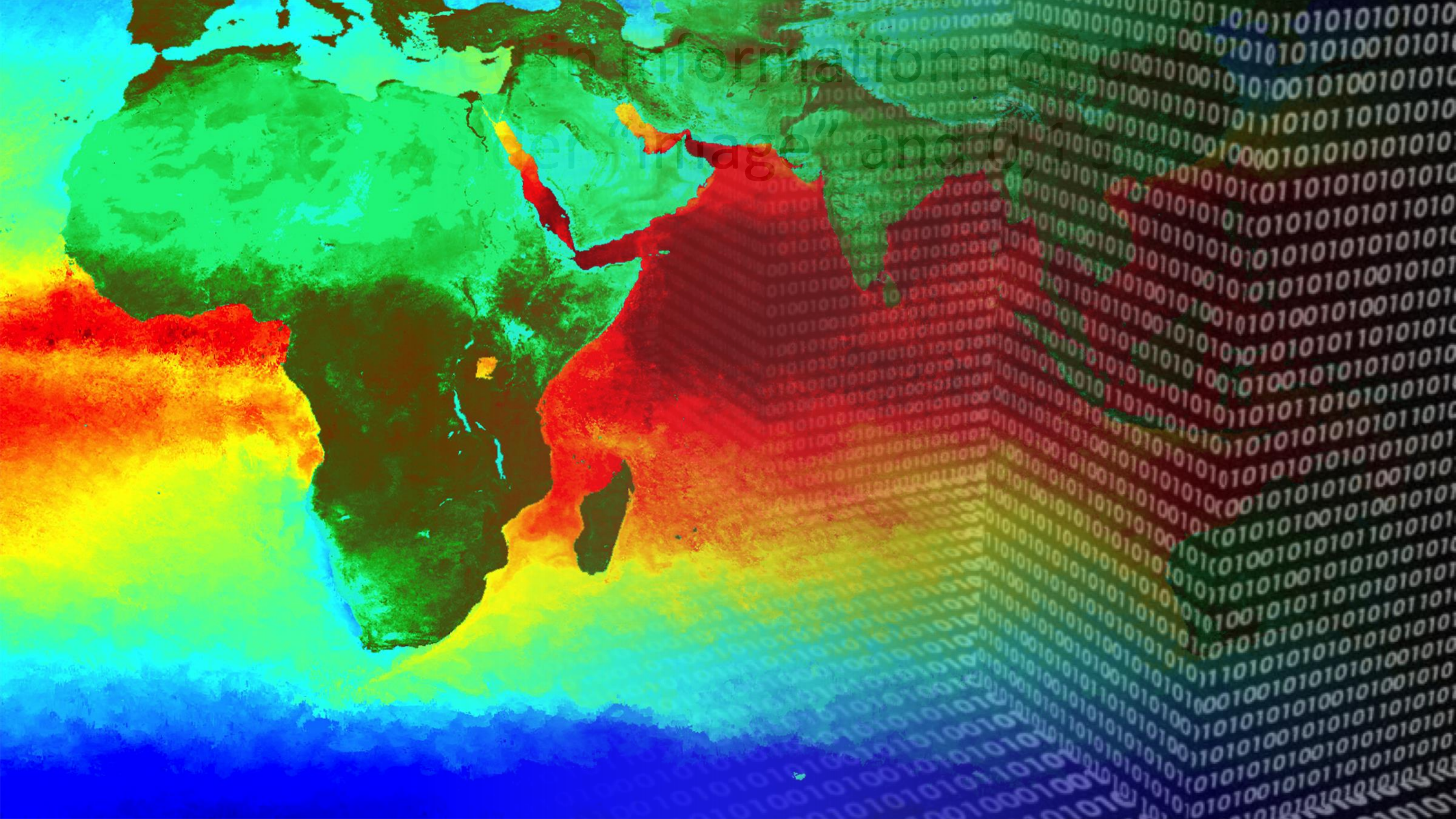


DocuSign



BrainTree





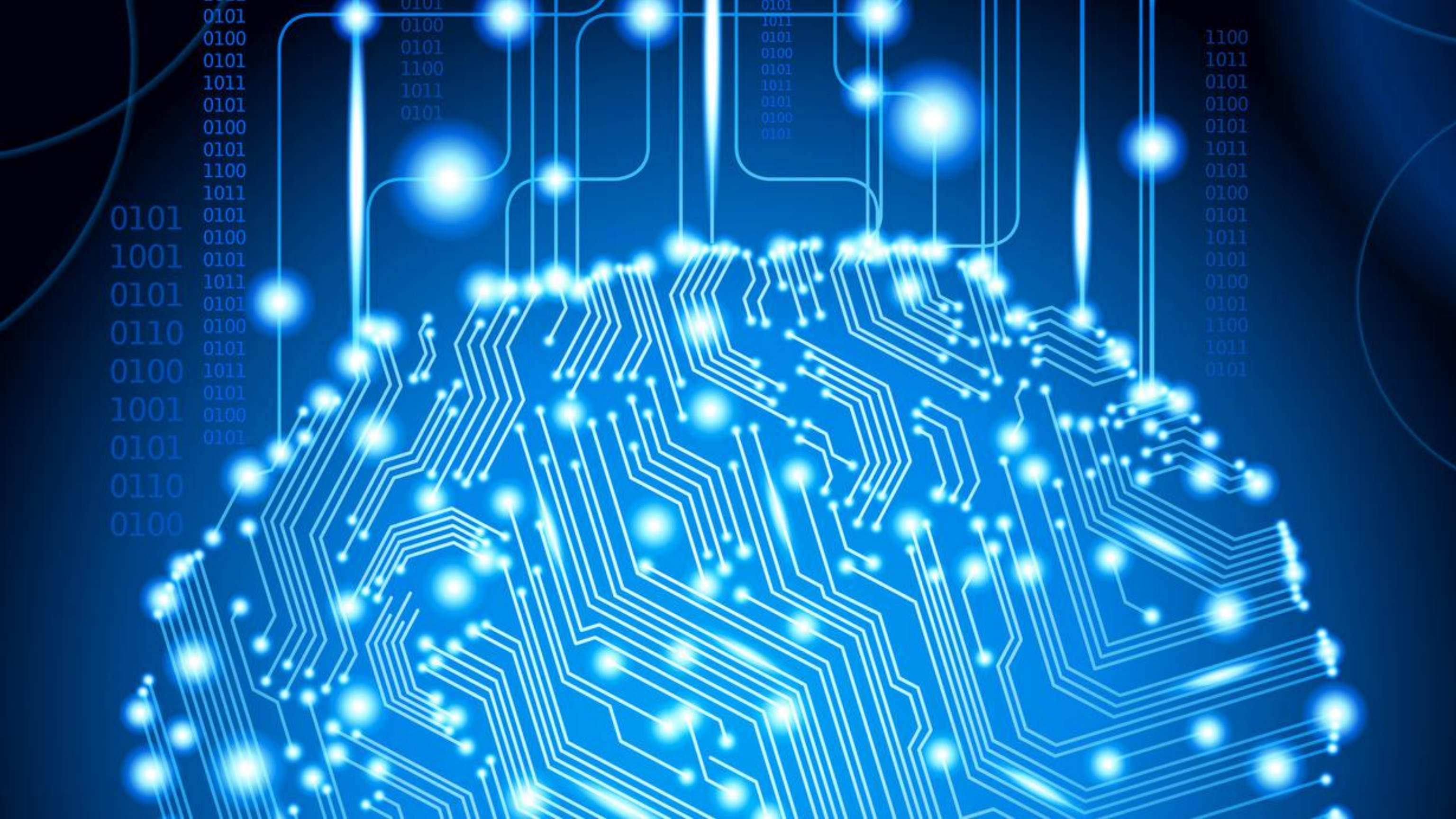
the next generation will seek

ANSWERS

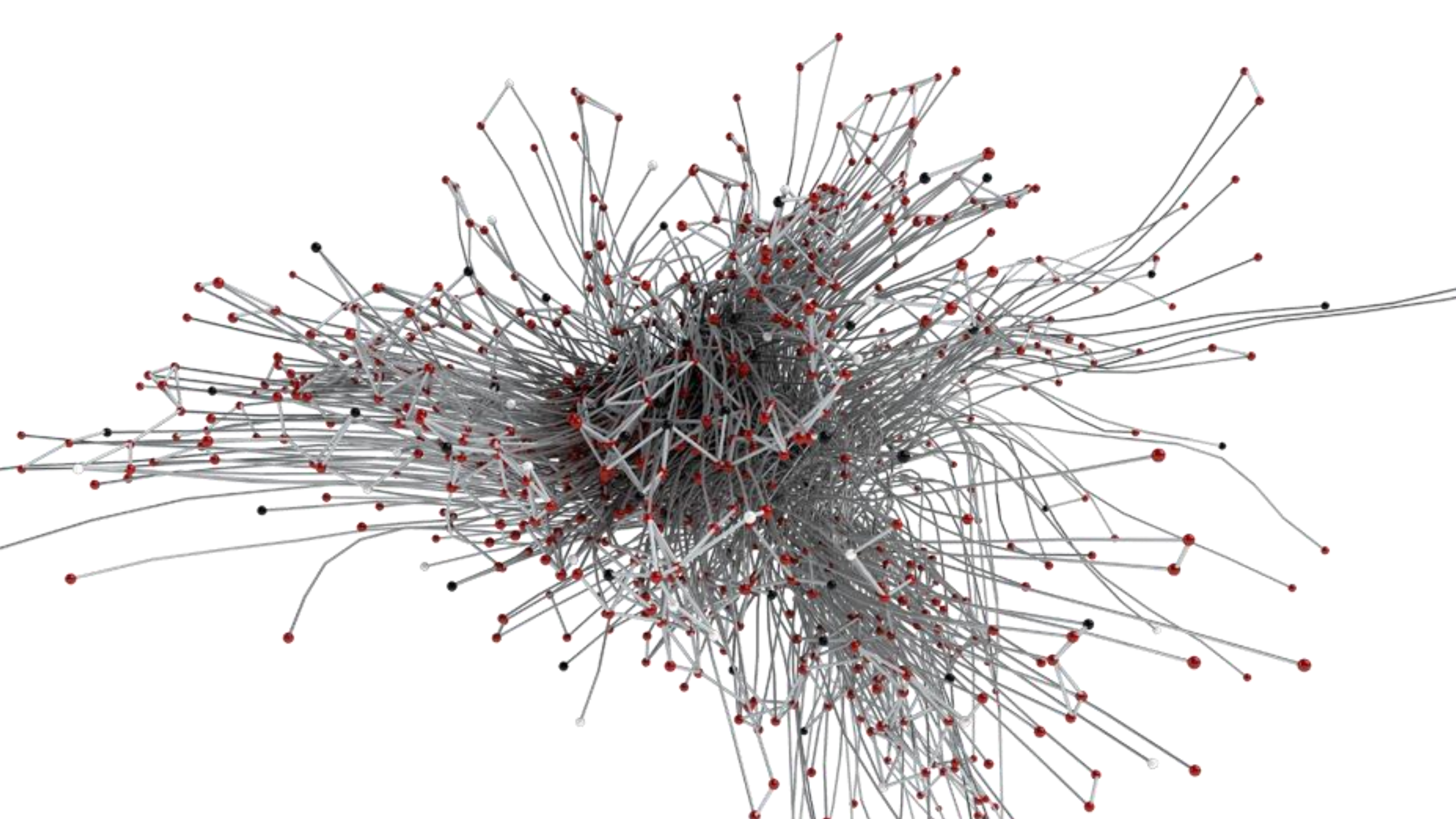
TO

QUESTIONS

we can achieve this



2029





Product Centricity
Closed data policies
Manual Processing
Proprietary formats
Data silos
Workstation based processing
Mailing hard drives
Complexity
FTP
Inertia
Licensed Software

Let's move away
from...

towards this...

Digital Data Science

SaaS Models

Trigger Processing

Swarm Intelligence

Services

Community Standards

Cloud Deployments

Open Source Development

Data sharing

Data centrality

Simplified Modeling

Automation

TOPICAL

TEMPORAL

SPATIAL



“Hey Siri,
what are some good lunch options near
here?” - You

“Hi Roxy,
ocean temperature over the Bahamian Reef
is up 0.3 degrees over last year.” - Siri

95% of the Earth's

OCEANS

remain unexplored

THANK YOU



OCEAN EXPLORATION DATA
AND THE NEXT GENERATION

Timothy Kearns

tim@oceanaero.us

[@JimmyNoTyres](#)