

WTS Energy

People for Oil, Gas and New Energy. Globally.

Technology to make well monitoring truly simple.

Tom Krikke – Commercial Director @ HiberHilo



Established 2020

Focus Well monitoring technology

Headquarters Amsterdam, the Netherlands

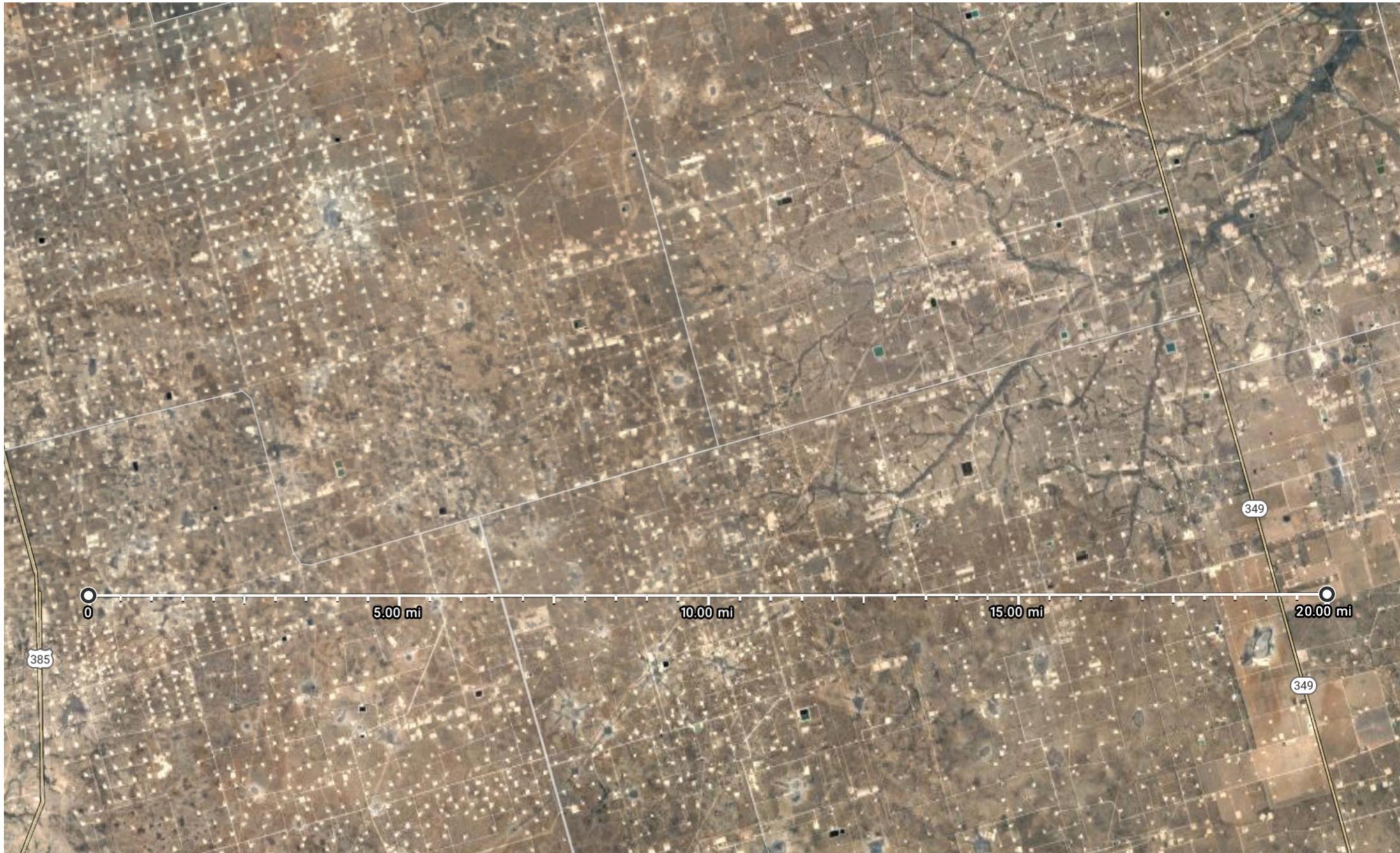
Offices Americas, Europe, Africa, Middle East, APAC



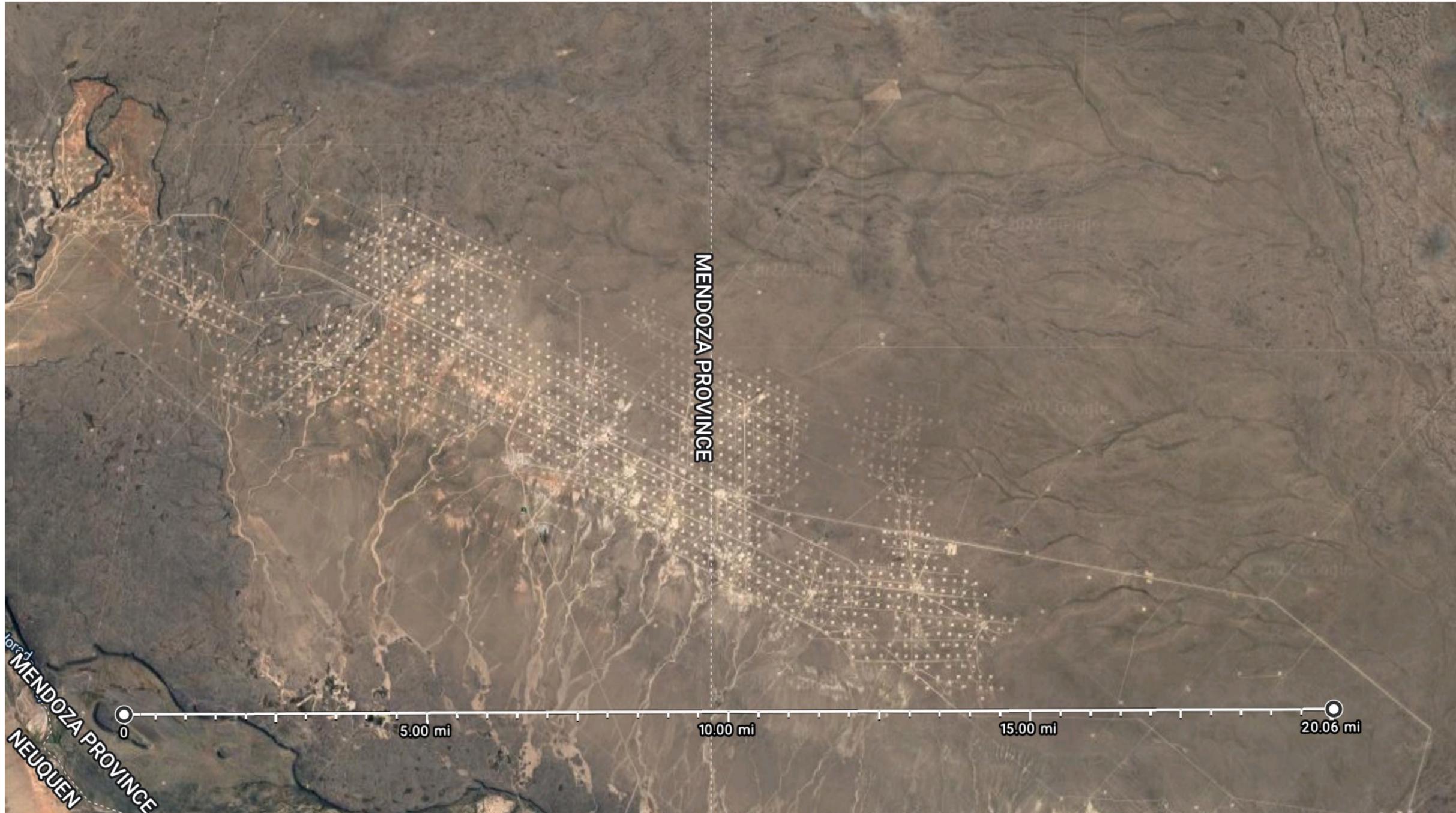
There are 4 million wells in the world.



The Permian Basin.



Argentina.



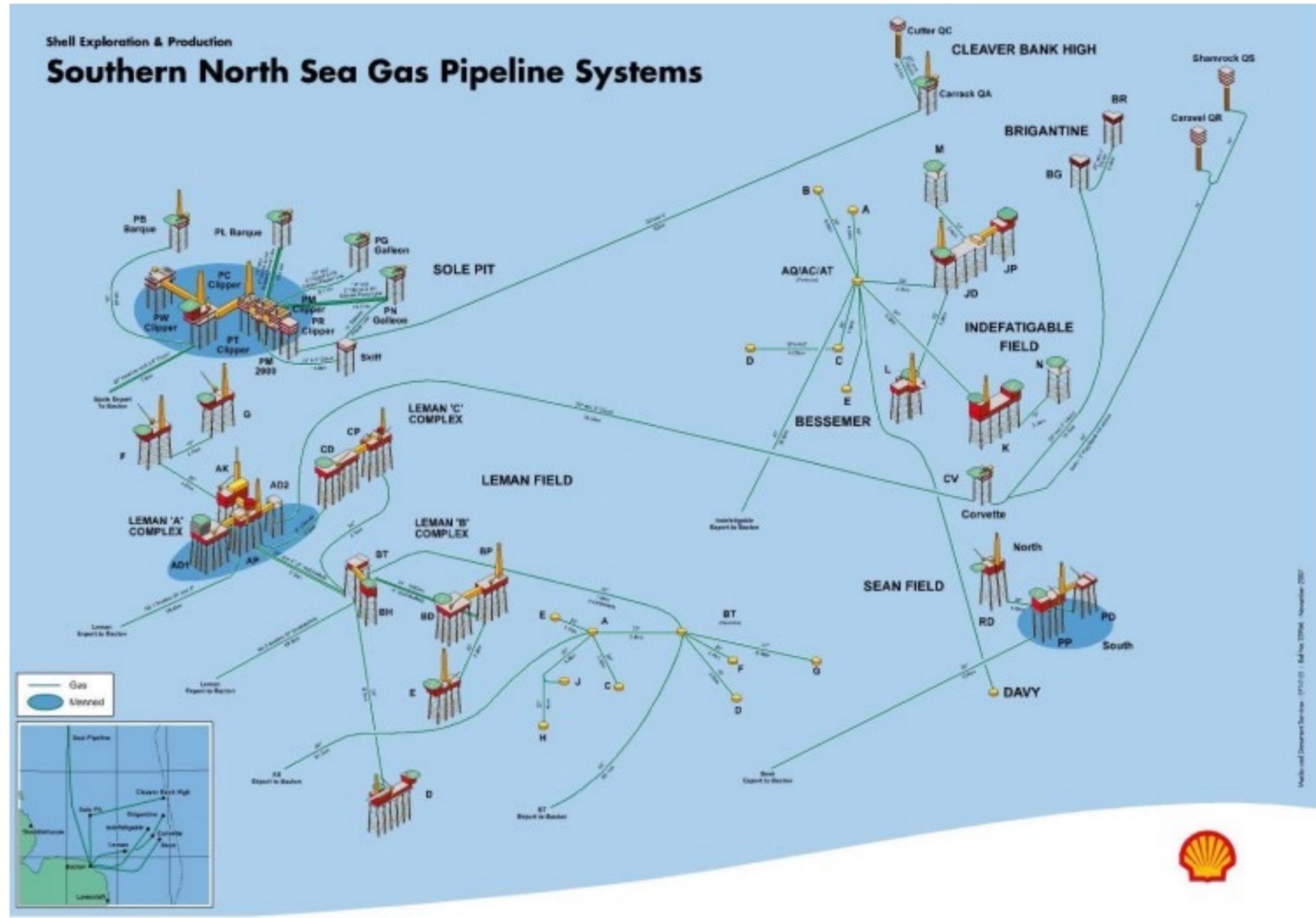
The highlands of Papua New Guinea.



The Niger Delta.



The North Sea.



Every field is different, but one thing stays the same:

Data at the well level drives safety, production, and environmental impact.



90% of wells in the world are still monitored manually.

NEW WELLS
NEARBY WELLS
PROLIFIC WELLS



OLD WELLS



WELLS THAT PRODUCE
LITTLE



WELLS TO BE
ABANDONED



REMOTE ONSHORE WELLS



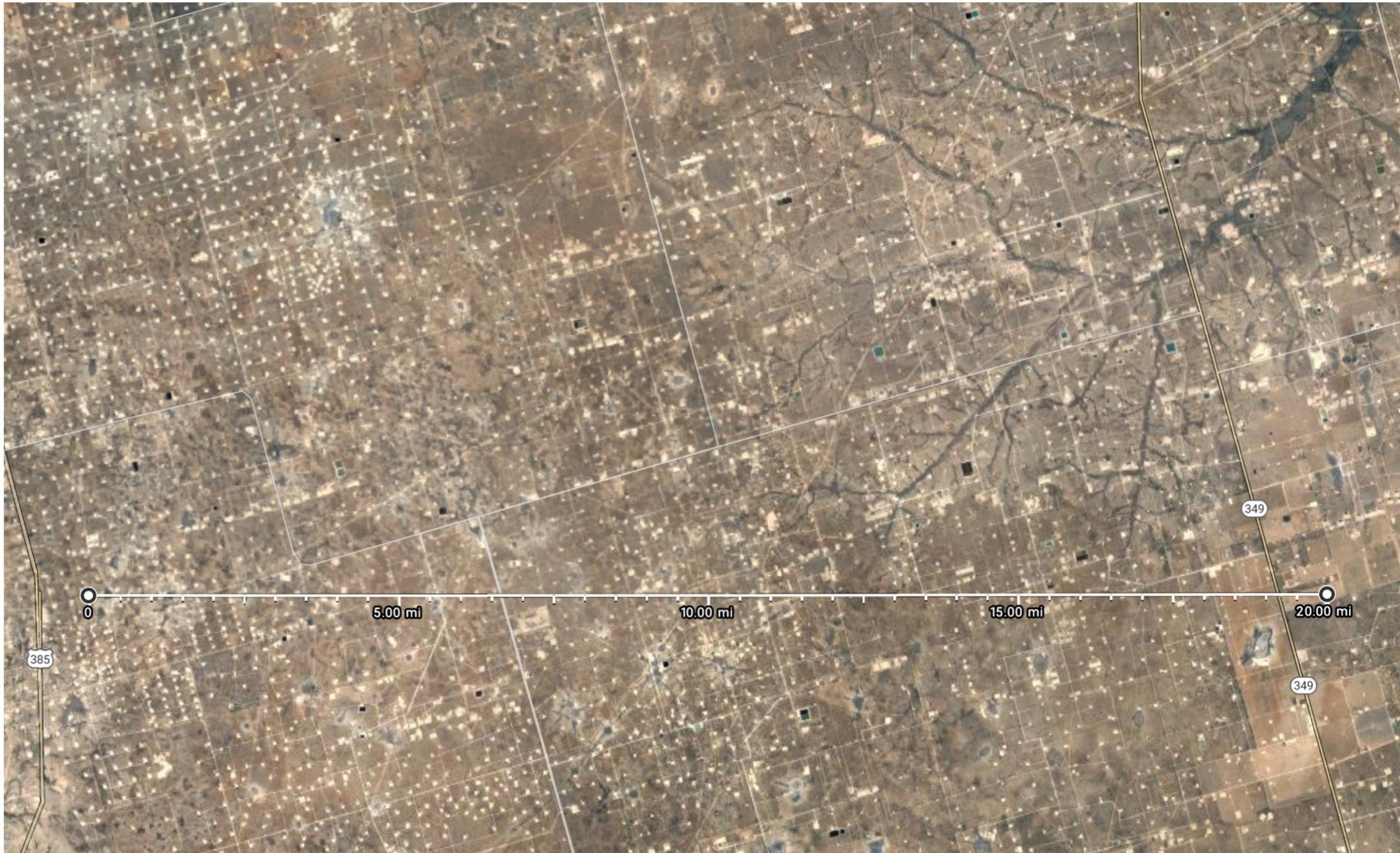
UNMANNED SATELLITE
PLATFORMS



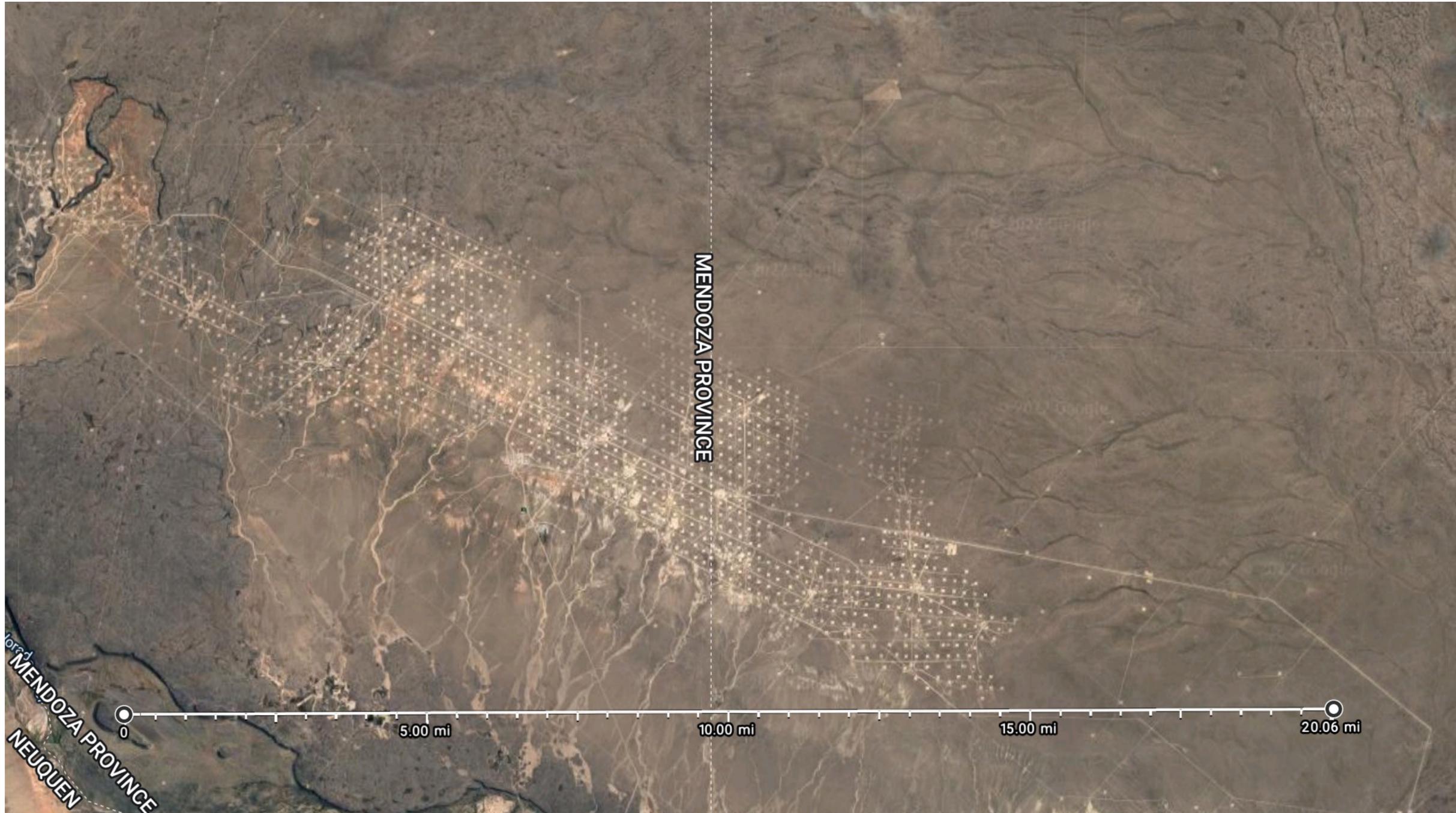
INJECTOR / DISPOSAL
WELLS



The Permian Basin.



Argentina.



The highlands of Papua New Guinea.



The Niger Delta.



Well monitoring technology has been around for decades. Why are 90% of wells not connected?



Traditional technologies are too expensive and complex.

Case: Well integrity @ Supermajor.

Location

South China Sea, Malaysia. One NUI.

Assignment

Well integrity monitoring.

When?

December 2021.

Challenge

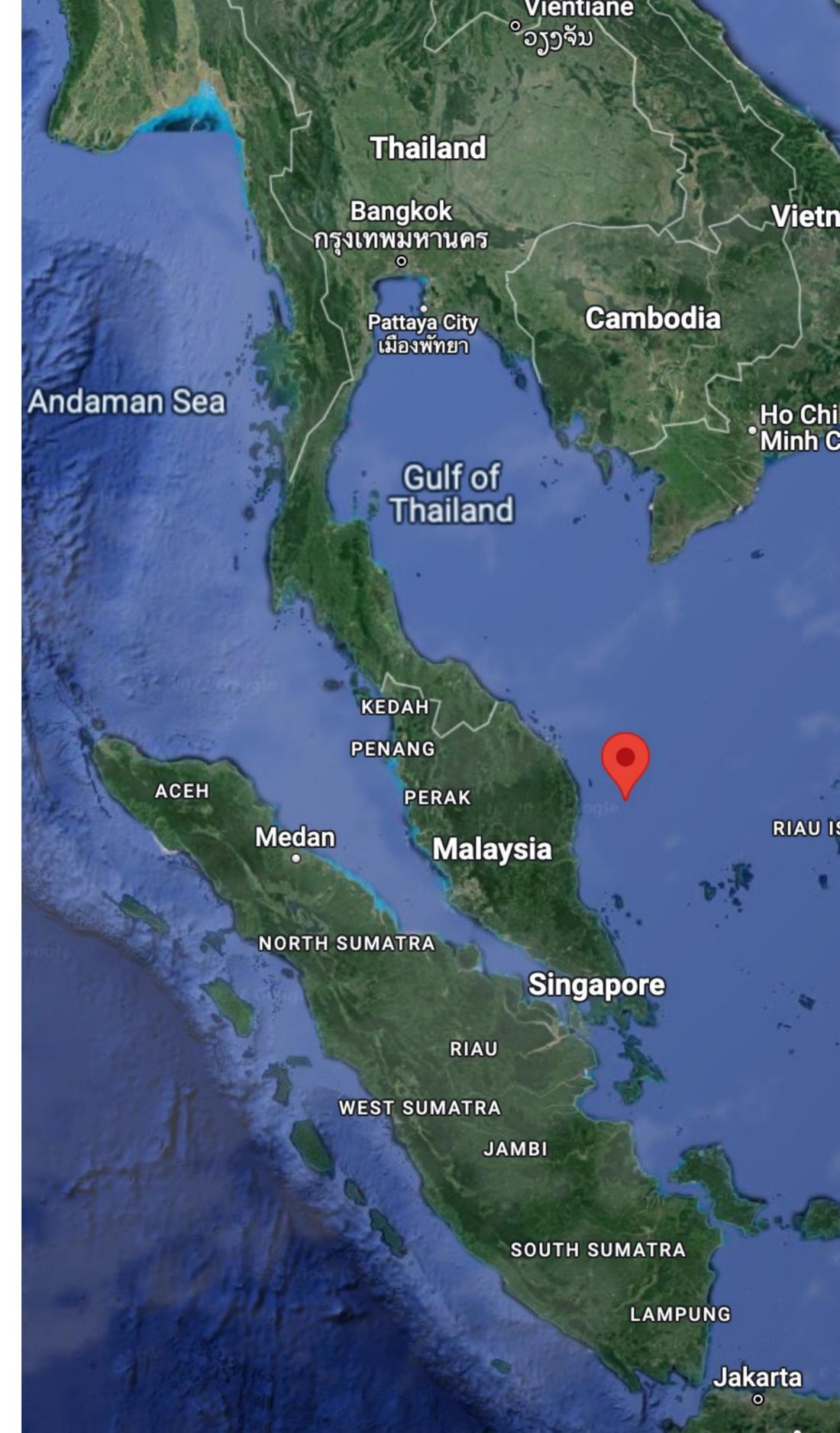
The wells in question had sustained casing pressure issues.

Why were these wells not connected?

Capacity: No time and money for months-long installation.

Power: No power source on the platform.

Connectivity: No connectivity on the platform.



Case: Monitoring before P&A @ Shell.

Location

UK, North Sea. Two NUIs built in the late 60s / early 70s.

Assignment

Full platform decommissioning, including P&A of wells.

When?

April 2021.

Challenge

Annulus monitoring needed 12-18 months before P&A.

Why were these wells not connected?

Budget: These wells did not produce.

Power: Unreliable power source on the platforms.

Connectivity: Unreliable connectivity on the platforms.



Case: Production monitoring @ ENI.

Location

Sicily, Italy. Nine artificial lift wells.

Assignment

Production monitoring, downtime reduction.

When?

December 2021.

Challenge

Flow meter installed, but not connected.

Why were these wells not connected?

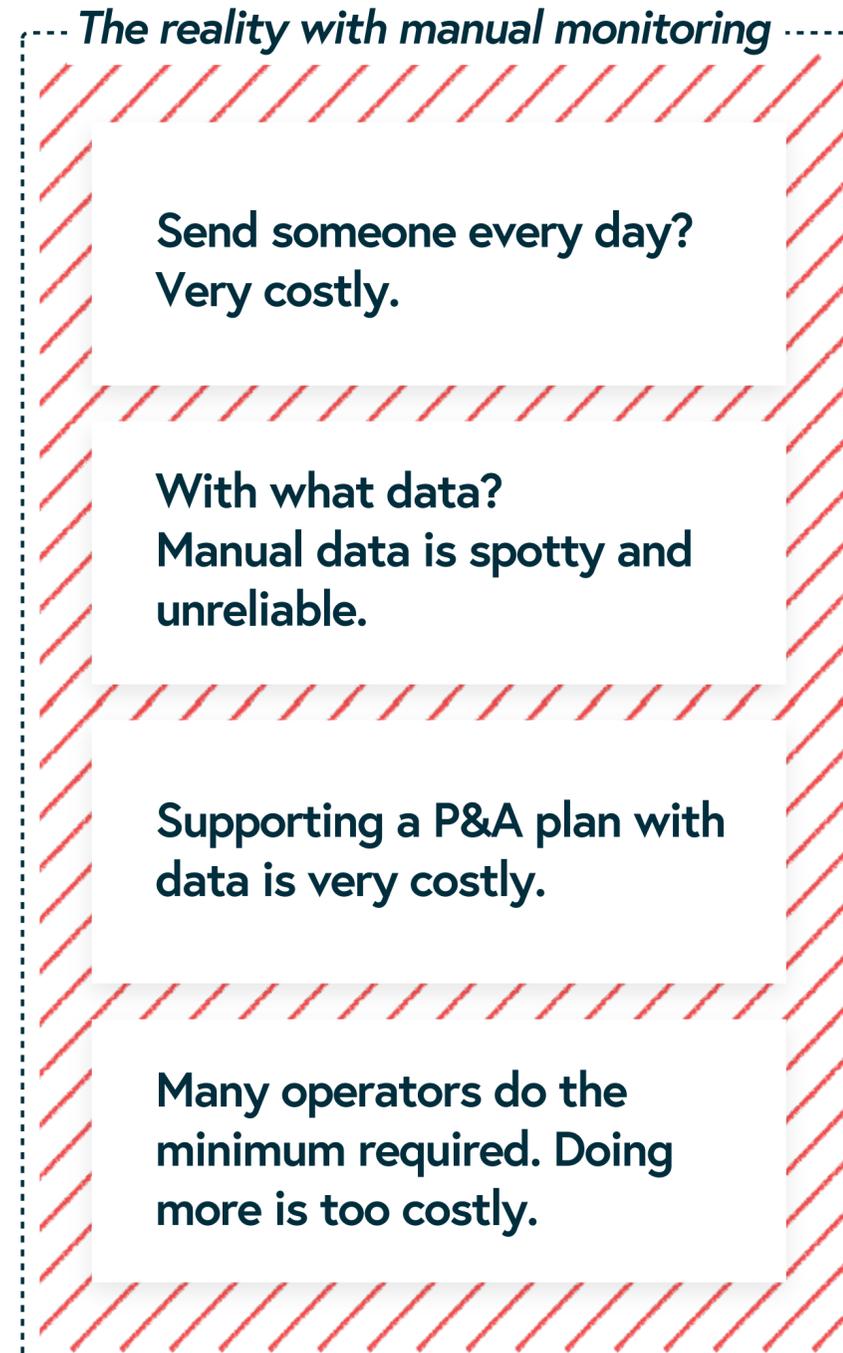
Budget: These wells produced very little.

Age: These wells were at the end of their lifetime.

Connectivity: Unreliable connectivity at the well.



90% unconnected means: manual monitoring.



Remote well monitoring seems like a given, but that is not the case.

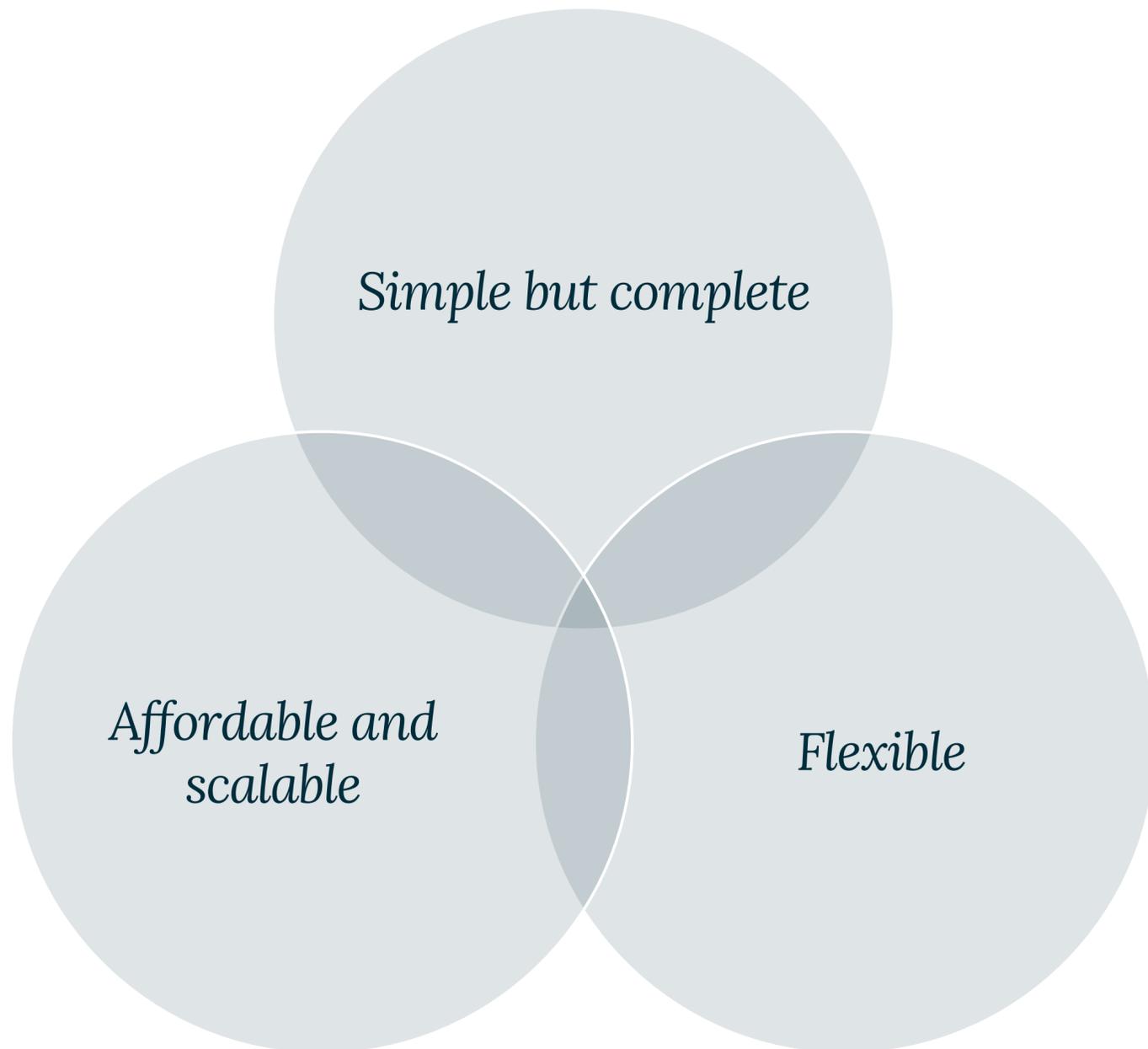
A big part of the industry is flying blind - unable to improve safety, reduce downtime, or optimize operations.

This is caused by technologies being too expensive and too complex. They're not built for 90% of the wells out there.



What does the ideal well monitoring technology look like?

What does the ideal well monitoring tech look like?



Simple but complete

Easy to install, wireless

Comprehensive set of parameters

Hardware, connectivity, software, service

Affordable and scalable

Also for non-producing wells: Cheaper than a trip

Independent of resource-heavy infrastructure

Flexible

Works anywhere, reliably

Movable from well to well if necessary

Able to scale up and down, reacting to prices





How do we address this at HiberHilo?

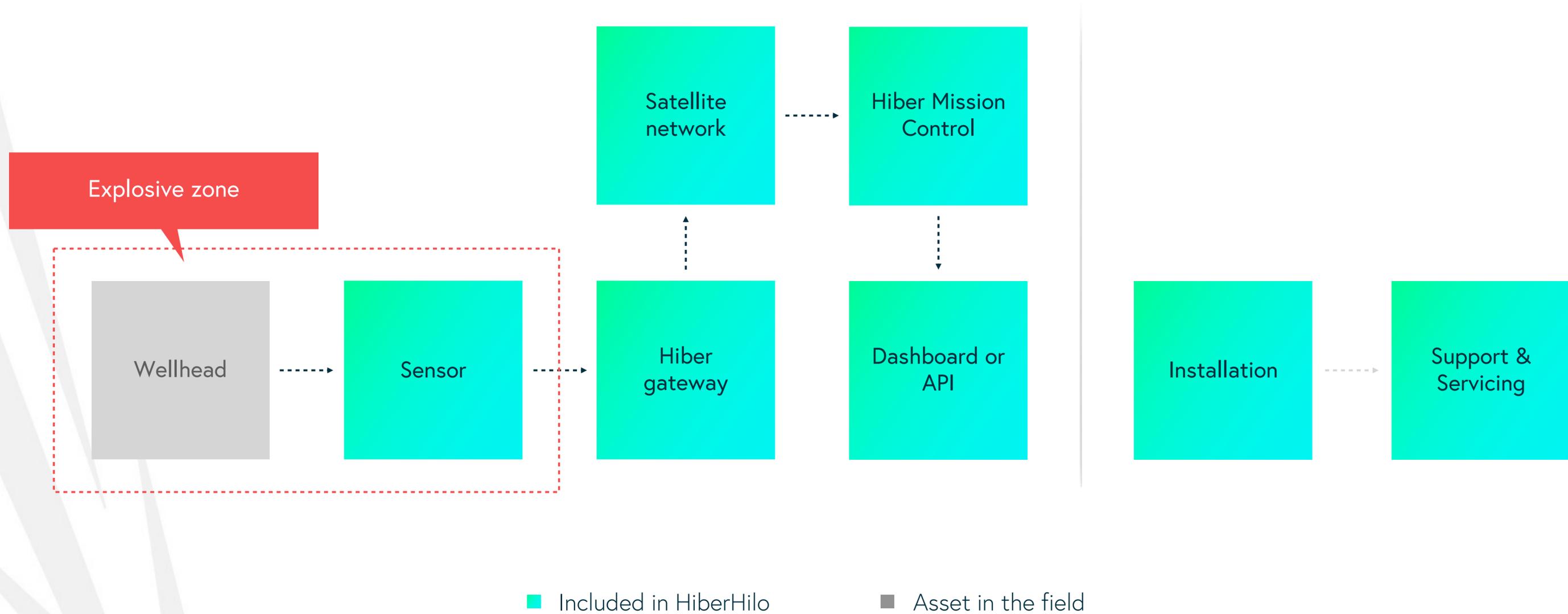
We strive to address each of these points.

How HiberHilo strives to address this challenge.

1. **Available worldwide**, no matter how remote.
2. **Affordable**, also off-grid.
3. **Simple** & easy to install.
 - **No local power needed**, fully battery and solar powered.
 - **Satellite-based and wireless.**
 - **Mobile & desktop dashboard included**, or an API.
 - **Highly secure.**
4. **All-in-one** subscription. No hidden costs, no CAPEX.
 - **Free replacement hardware.**
 - **Performance guarantee**, with refunds if not met.



How HiberHilo works.



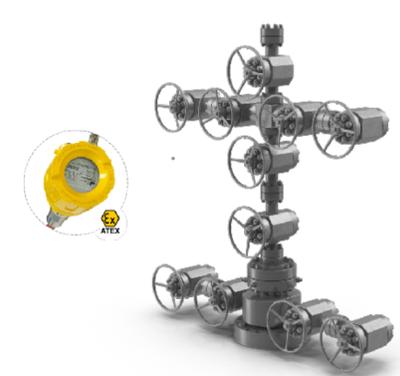
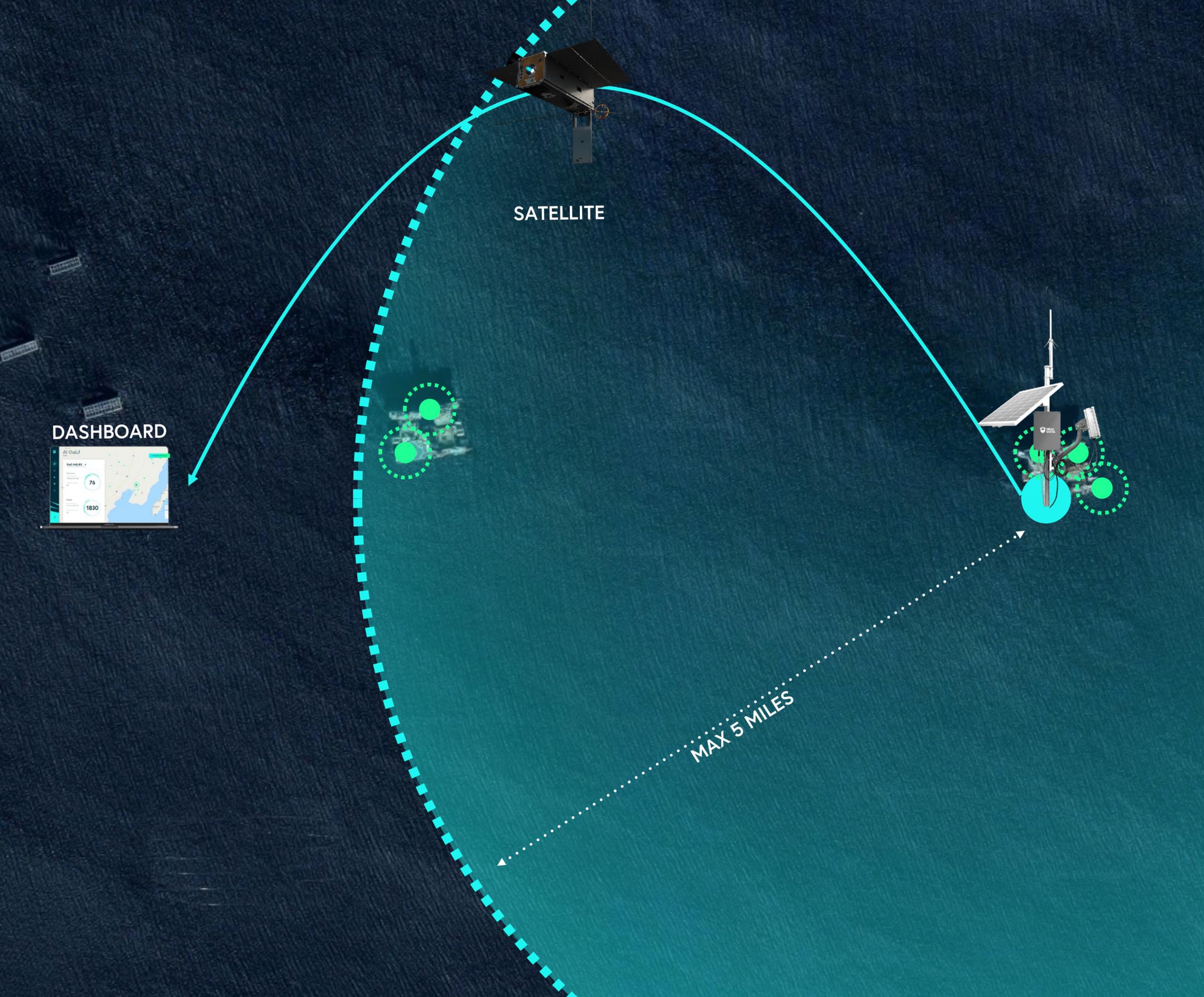
Case: Monitoring before P&A @ Shell.



Case: Downtime reduction @ Nigeria.



The setup offshore.

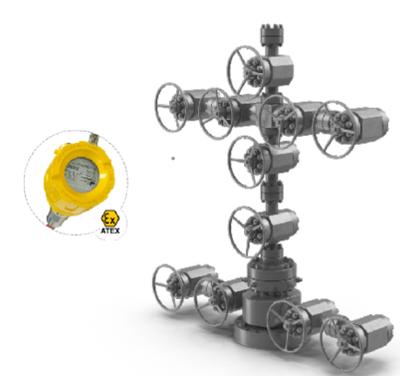
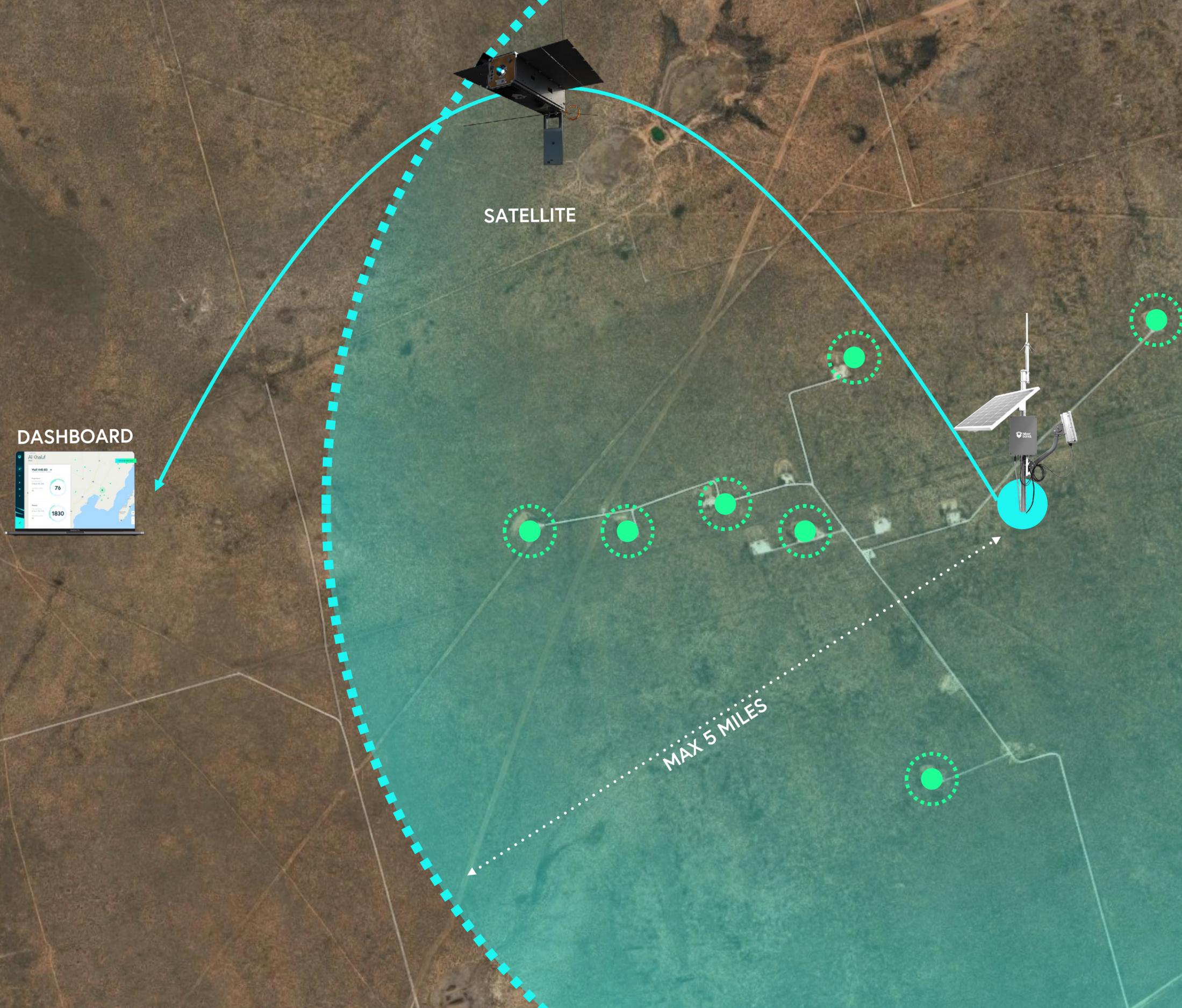


● WELLHEAD WITH SENSORS



● GATEWAY

The setup onshore.

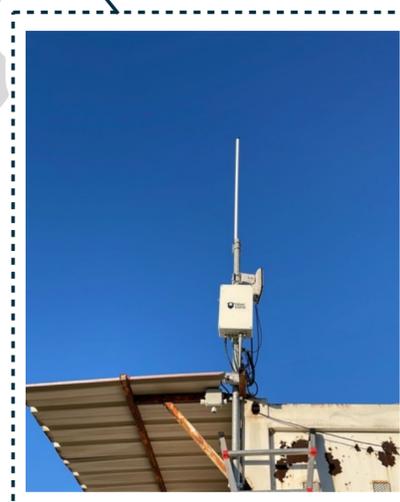
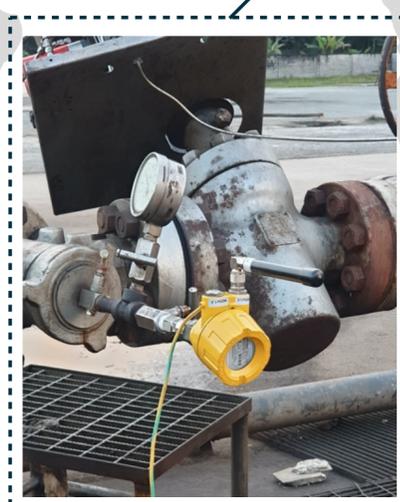
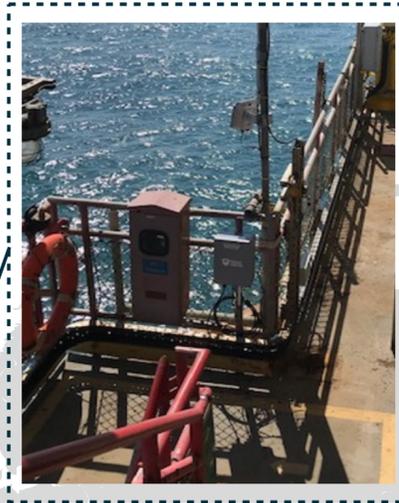


● WELLHEAD WITH SENSORS

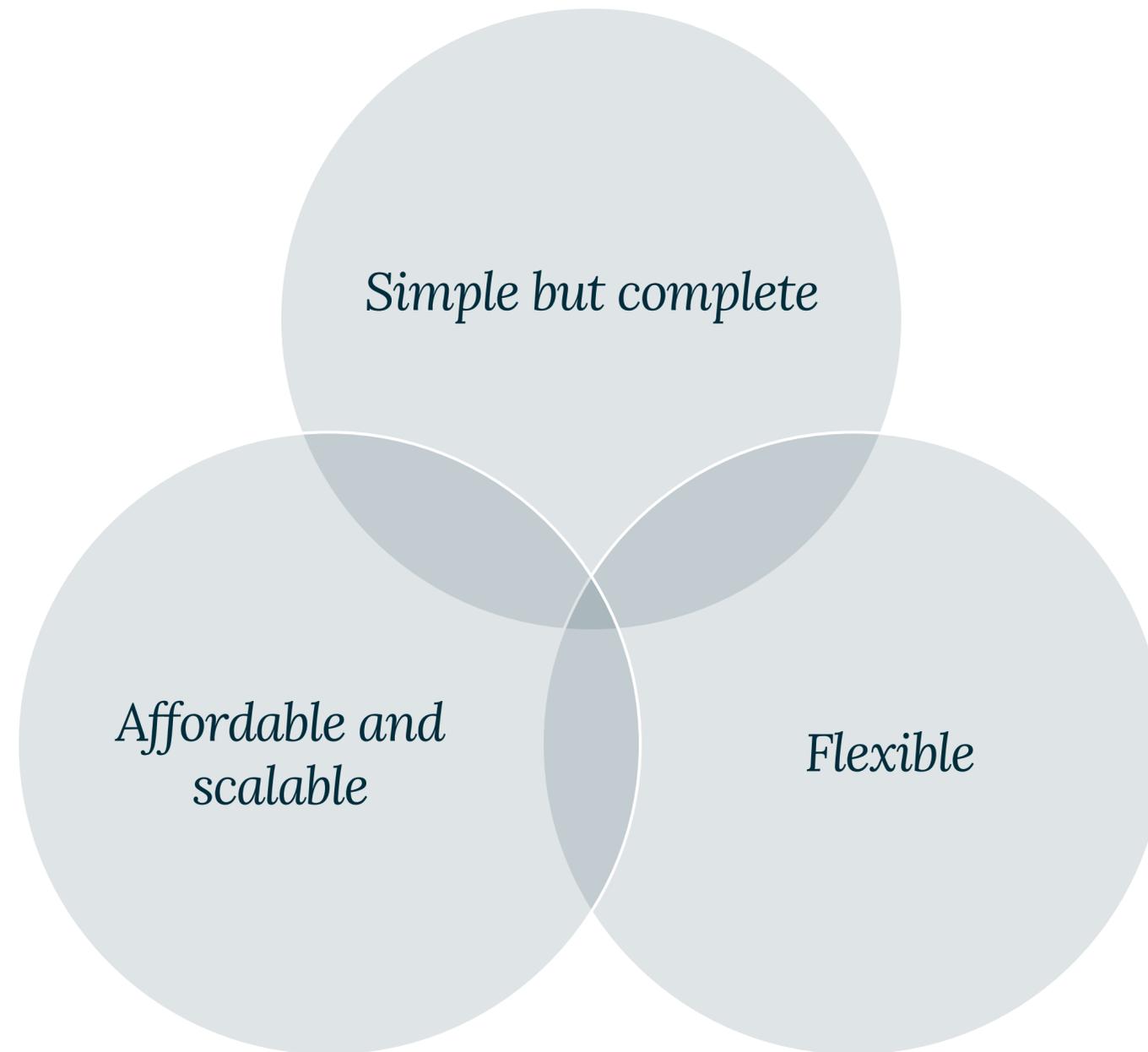


● GATEWAY

Significant global interest in just 1,5 years.



HiberHilo: Building the ideal well monitoring solution.





Thank you – Q&A.

Get in touch!

Email: tom@hiber.global

