



Veiligheidsdag
Veilig samen
werken in
de keten



Gebruik van nieuwe technieken om risico's in de keten te verlagen

Workshop 5



WORLD CLASS
MAINTENANCE



Network for Smart Maintenance

Veiligheidsdag 22 juni 2023

♦ sitemech
services

EX
ROBOTICS



Rijksinstituut voor Volksgezondheid
en Milieu
Ministerie van Volksgezondheid,
Welzijn en Sport

Gebruik van nieuwe technieken om
risico's in de keten te verlagen

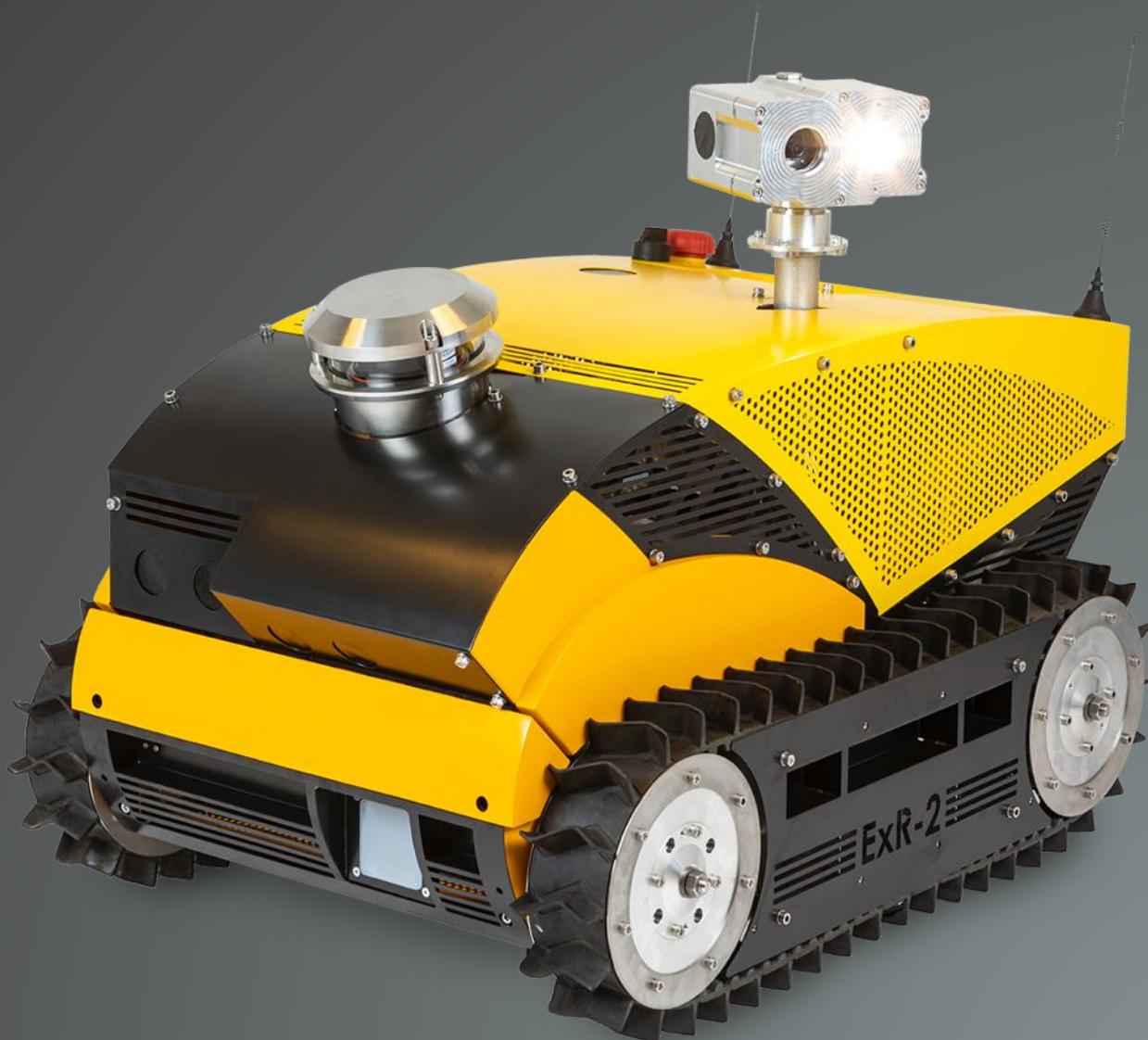


Ir. Paul van Kempen
Operational Director

ExRobotics



Wat is er beschikbaar?
Waar raakt het veiligheid?
Successen en bottlenecks?



The use case, how to operator Harsh and explosive environment?



Question of customer : Can you design a first responder robot to operate our unmanned production island? We have :

- Up to 20% H₂S in our crude oil
- Extreme temperatures
- Potential explosive environments



Current list of use cases



First responder

Defining dangerous/hazardous situations for emergency responders



Fugitive emissions

Detecting gas leaks into the environment



Digitalization

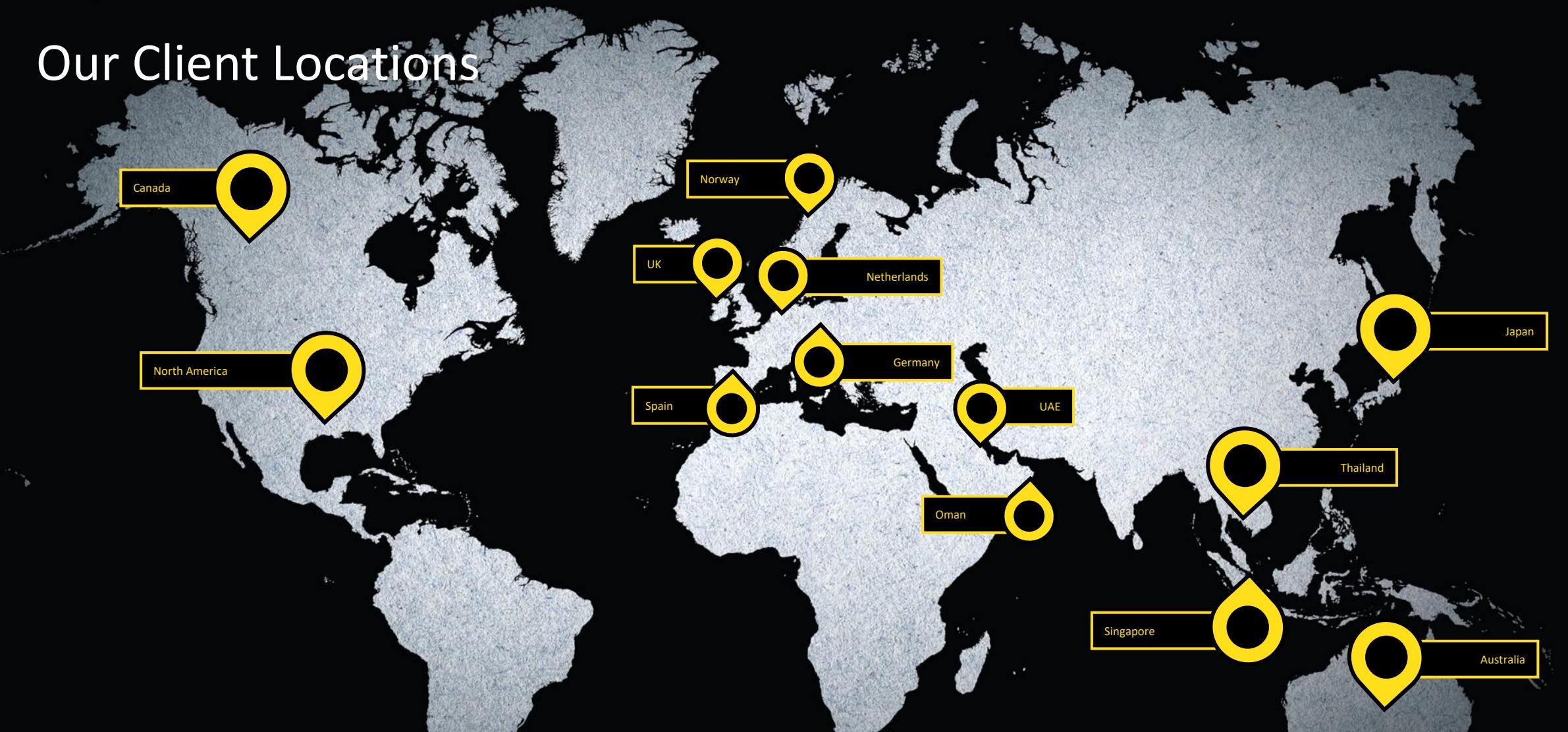
Autonomous data collection and digitalization.



De-manning

Performing monitoring/ reporting activities at unmanned facilities

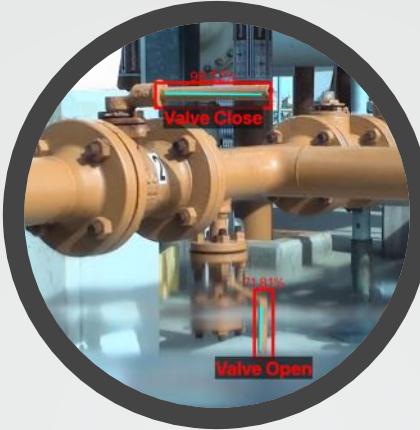
Our Client Locations



Our solution



- Ex zone 1 certified
- Fully autonomous
- Cloud based control



- Cloud based infrastructure
- 25/47 Skills in place to mimic human perception
- API to connect to user systems



- API to support customers
- Integrated with DCS suppliers
- Basic notification system

Step 1

Data collection

Step 2

Create insights

Step 3

Information delivery