



CELLULA  ROBOTICS
Inspect and Detect to Protect

Agenda

Who We Are

- Experience and Expertise
- Our Mission

The Challenge For Ports

- The Threat

Critical Underwater Infrastructure

- Pipelines and Cables
- Waterfront Facilities
- Response and Recovery

Summary and Discussion

- Q and A; Actions

About us

- Headquartered in Burnaby, British Columbia
- Specializing in cutting-edge Autonomous Underwater Vehicles and marine robotic solutions.
- Over 80 skilled professionals across Canada, the US and the UK



OUR MISSION

To change the paradigm of subsea survey, science and security through modular, long range autonomous platforms.

Experience and Expertise



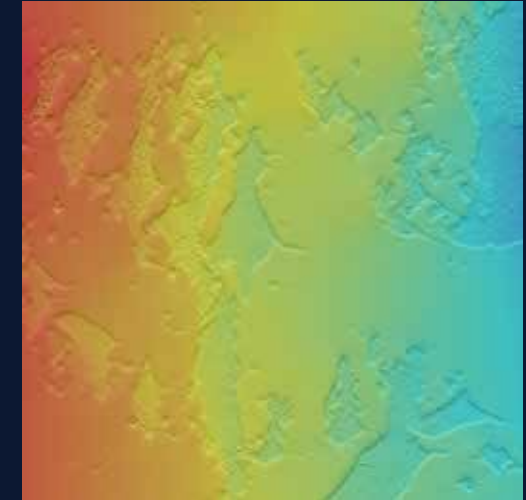
300 years

Cellula Robotics' senior team has more than 300 cumulative years of experience and expertise in developing, delivering and operating underwater robots.



Extreme environments

Our team has designed and delivered autonomous subsea systems for complex mission types in different environments.



Success across segments

We have been responsible for some of the most commercially successful and complex AUVs delivered across defence, commercial and scientific sectors.

What we do

Systems to Detect, Inspect, and Protect



The Threat

Summary

- “Ports are battlespaces. Harbours – often assumed to be sanctuaries – are in fact chokepoints where disruption can yield enormous strategic value.”

[Edward Salo, PhD](#), Professor of History and Chair of the History Department at Arkansas State University.



The Threat



Critical National Infrastructure

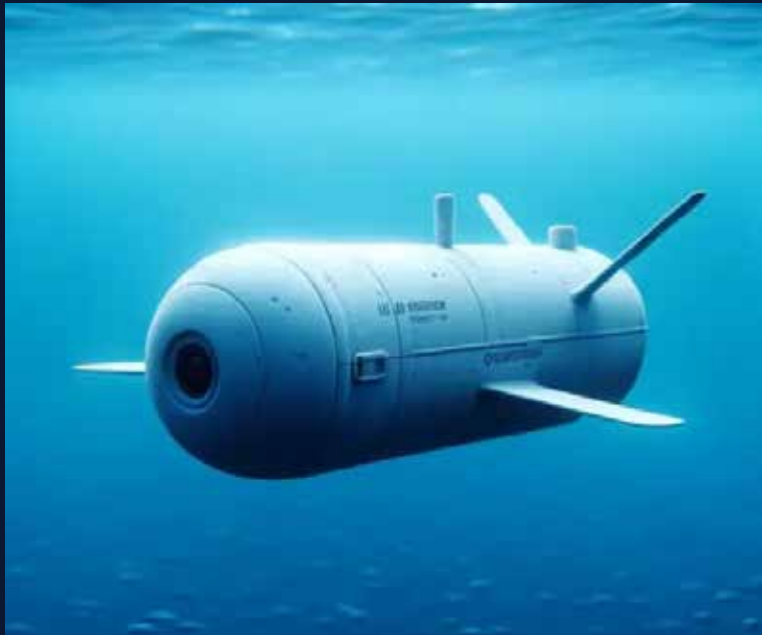


Use Cases: **Three** Challenges

Intruders

Long linear assets (cables, pipelines)

Fixed targets (energy islands, offshore oil platforms)



DETECT



INSPECT

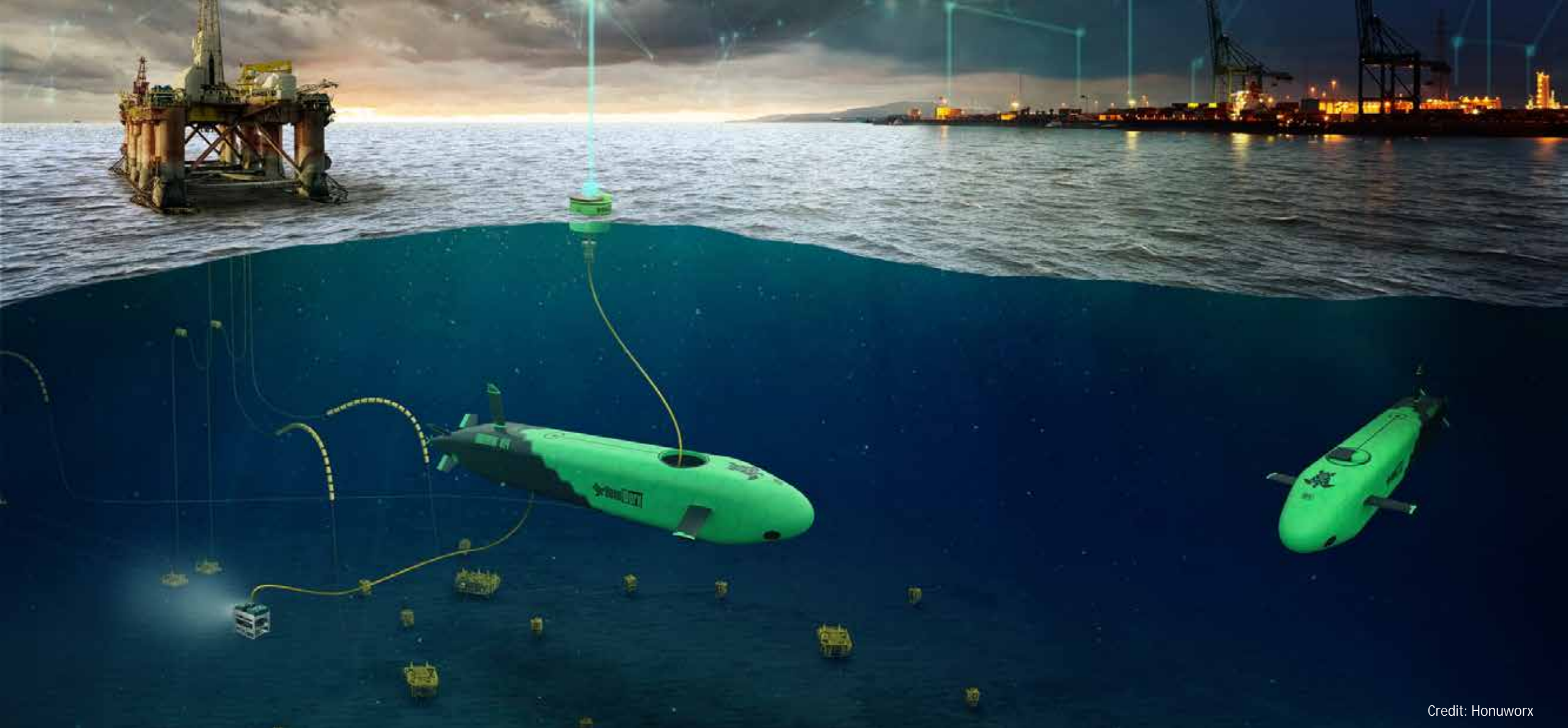


PROTECT



Inspect

Regular and routine surveys and inspections



Credit: Honuworx

Deploying Off-Platform Assets for **Inspection and Protection**



Credit: Honuworx

Deploying Off-Platform Assets for **Inspection and Protection**

Response and Recovery



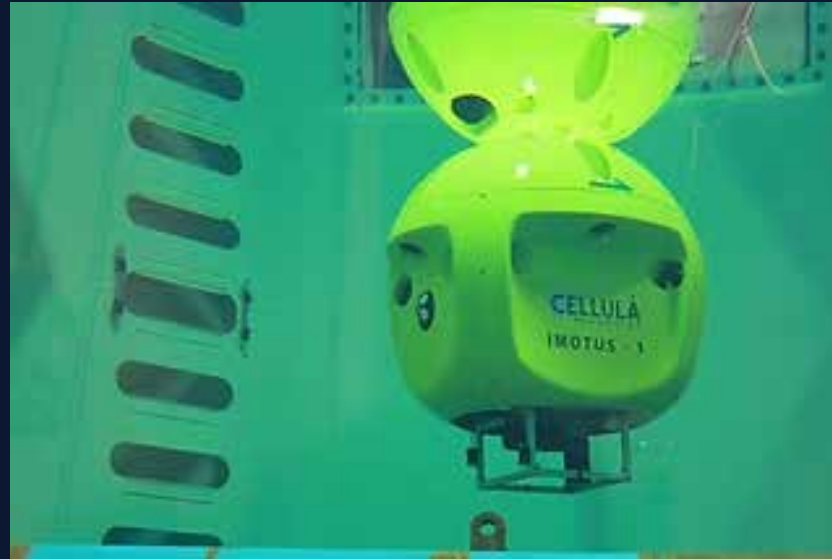
Hovering AUVs



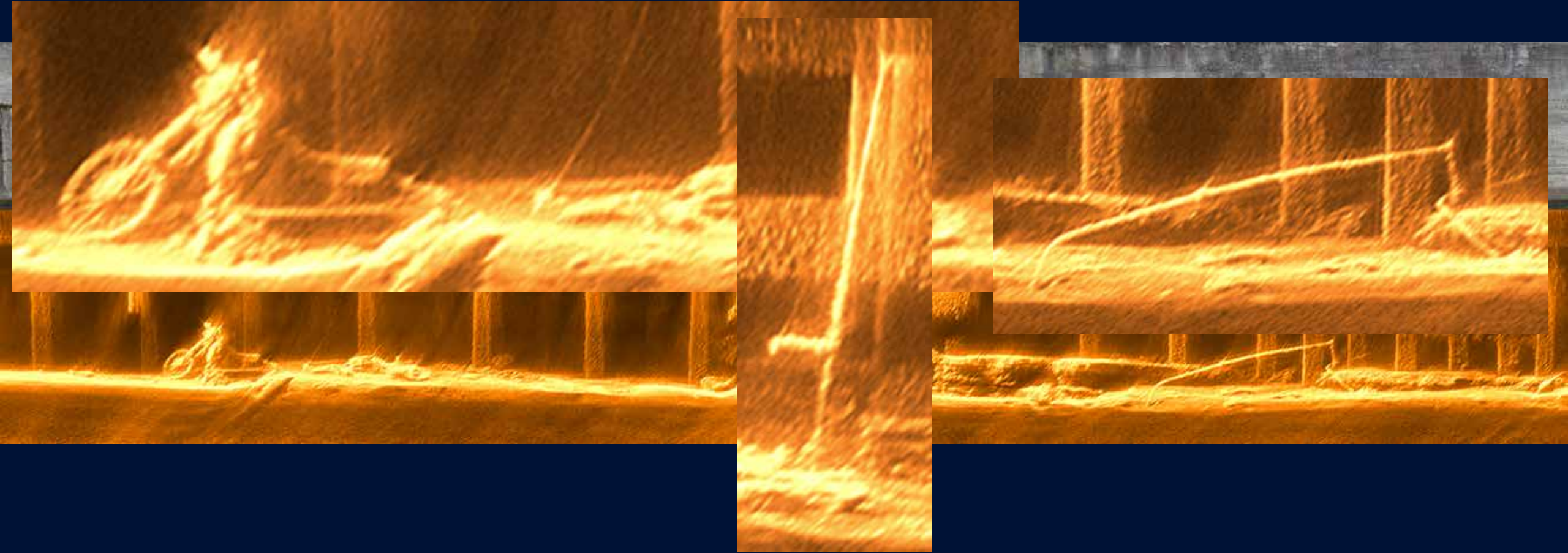
Diving to Measurement Depth



Detailed Inspection

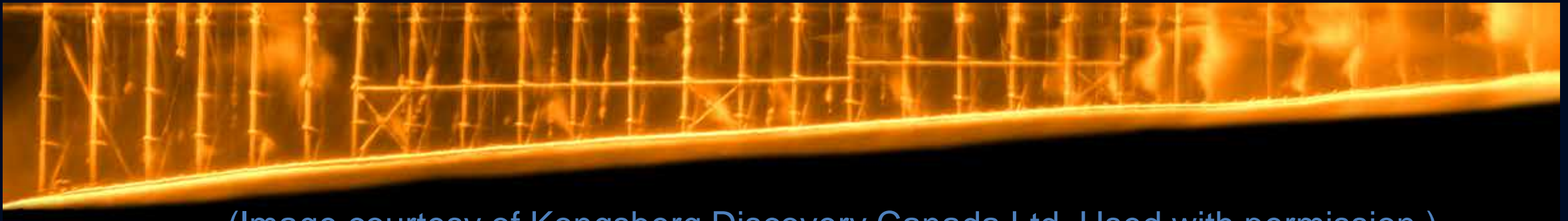
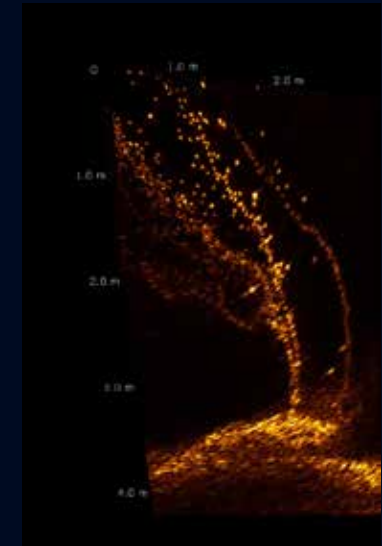


Hazard Identification



(Image courtesy of Kongsberg Discovery Canada Ltd. Used with permission.)

Bubble Curtain



(Image courtesy of Kongsberg Discovery Canada Ltd. Used with permission.)

Countering The Threat

Summary

- “Invest in affordable port defences: From underwater sensors to drone patrols, cost-effective solutions can offer early warning and deterrence.”

[Edward Salo, PhD](#), Professor of History and Chair of the History Department at Arkansas State University.



Inspect, Detect, Protect

Summary

- **Unique capabilities in AUVs**

- Long range hydrogen fuel cells
- Ability to hover
- True autonomy



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