



Oil Spill Recovery

*... with sustainable technologies
working together*

Ocean, waterway & harbor Oil Spill Recovery

*... with sustainable technologies
working together*

Tech 1 - XBOOM

- Contains and prevents escape of oil spill and contamination

Compact & easily deployed



Light weight and easy to handle



XBOOM - Rapid deployment “Fence”



Via PWC or large vessel
deploys **100** feet in **15** minutes



.... or from shore



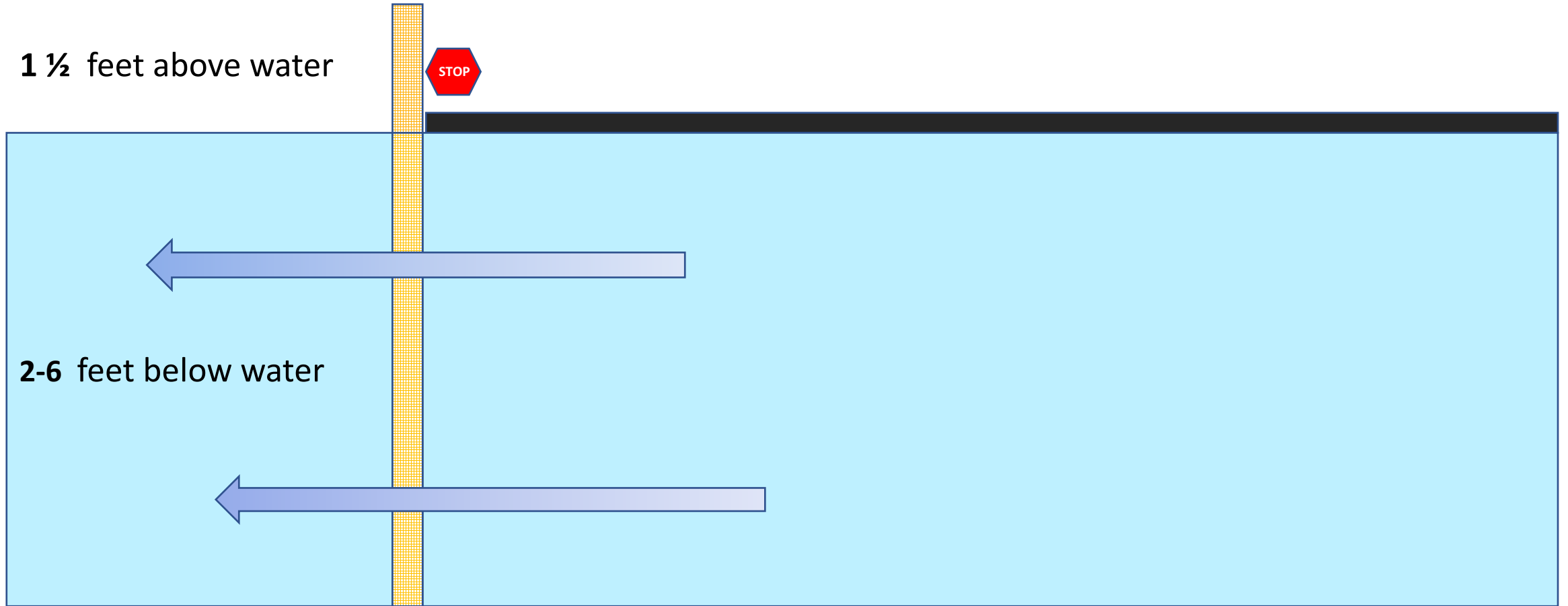
River flow pick-up - Canada



River flow pick-up - Canada



Water Flows Through / Oil is Stopped



Water Flows Through
/ Oil is Stopped



... easy to gather and pick up residues



Water flows through /
Oil is stopped



XBOOM tow / flow rate

- Industry Standard Boom - .5 to .7 knots.
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- **XBOOM 4' – 2.0 knots**

- **XBOOM 8' – 7.0 knots**

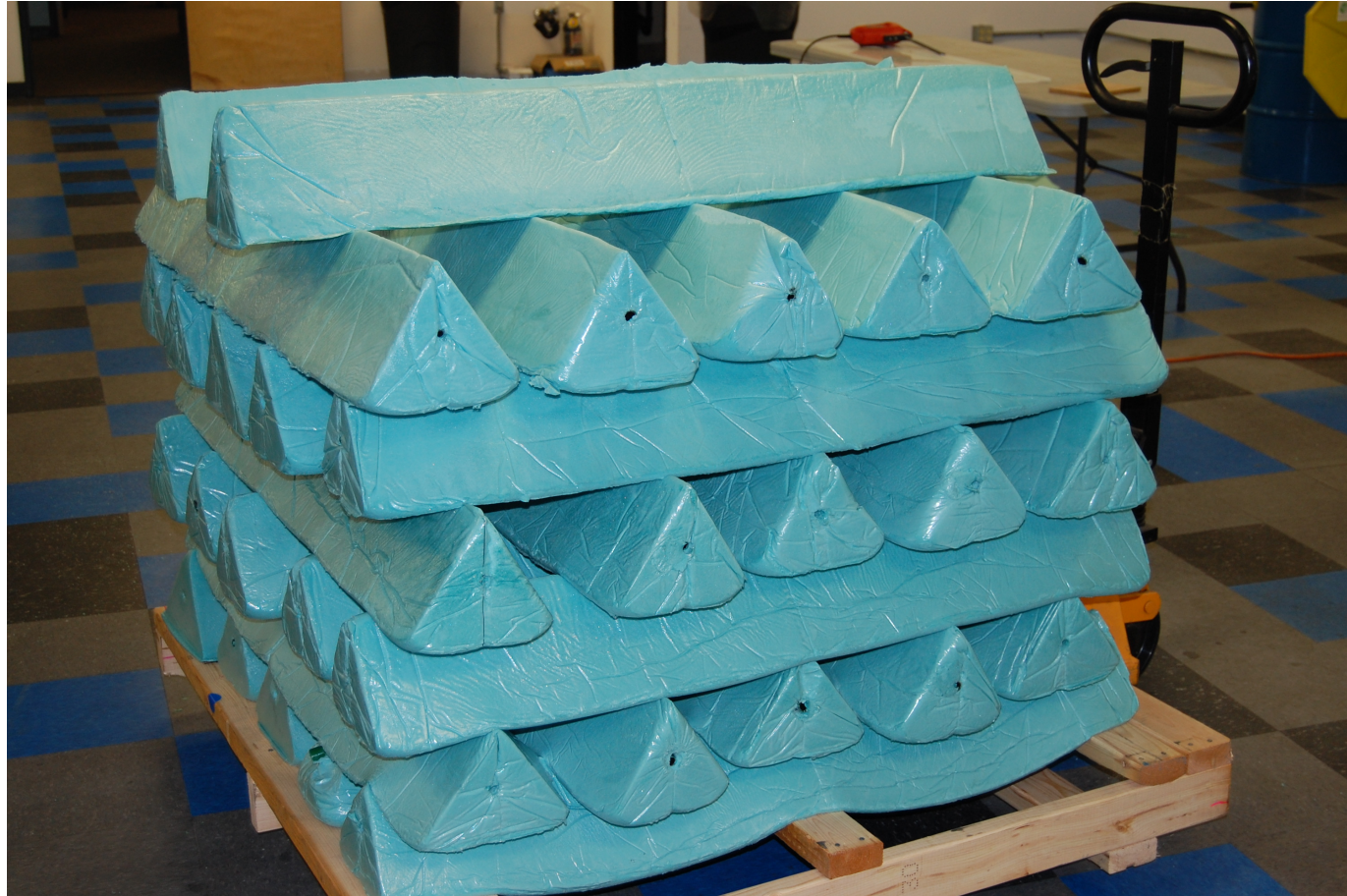
Tech 2 – Airtech Foam

- Absorbtion and no-leak containment
- Delivering measureable recovery



ADVANCED INNOVATIVE RECOVERY TECHNOLOGIES, INC.

Airtech Non-Toxic Smart Foam Absorbs Oil



Rapid Deployment

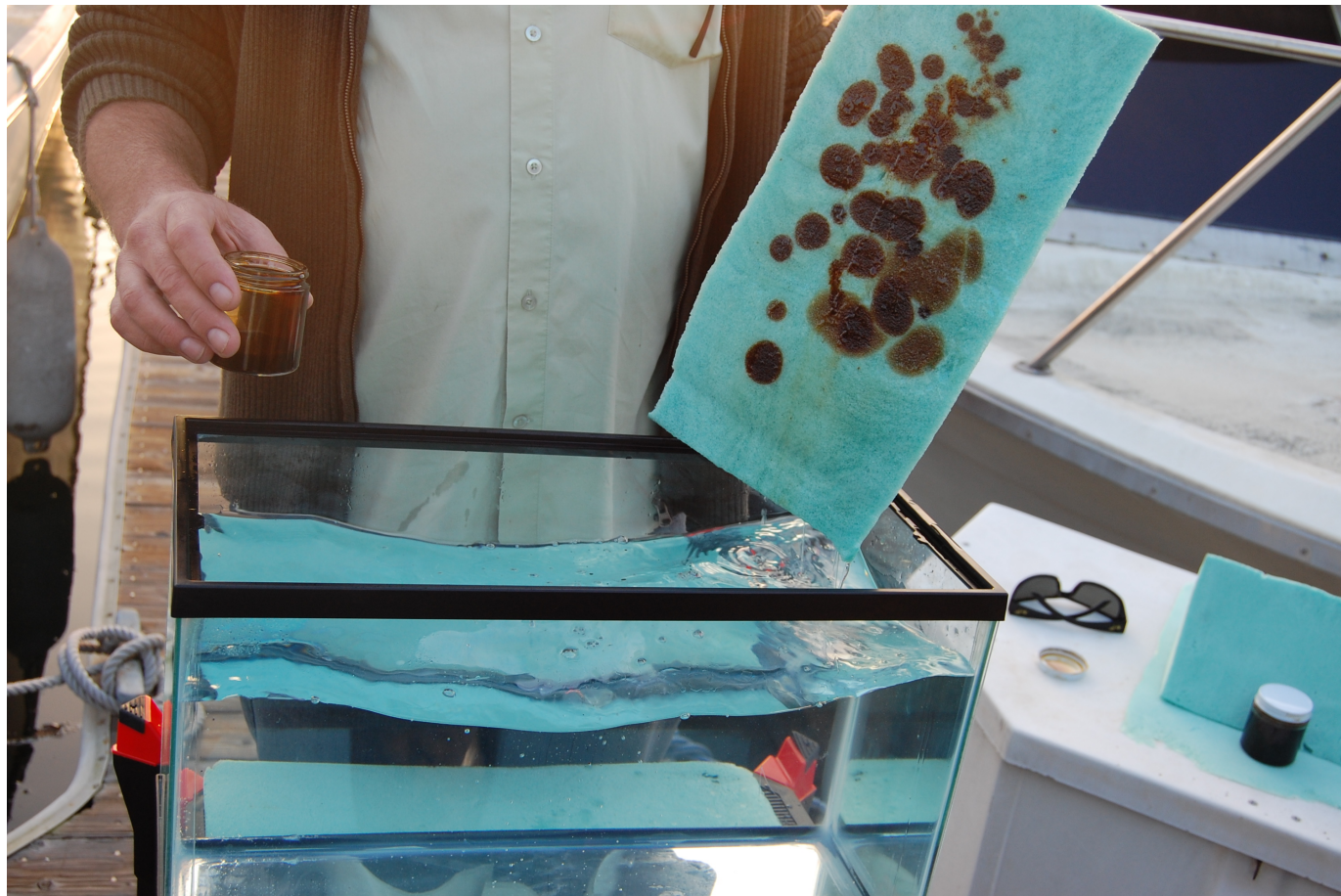
Deploys 100 feet in 5 minutes



Customized solutions



Complete oil pick-up and recovery



Complete oil pick-up and recovery and Quickly



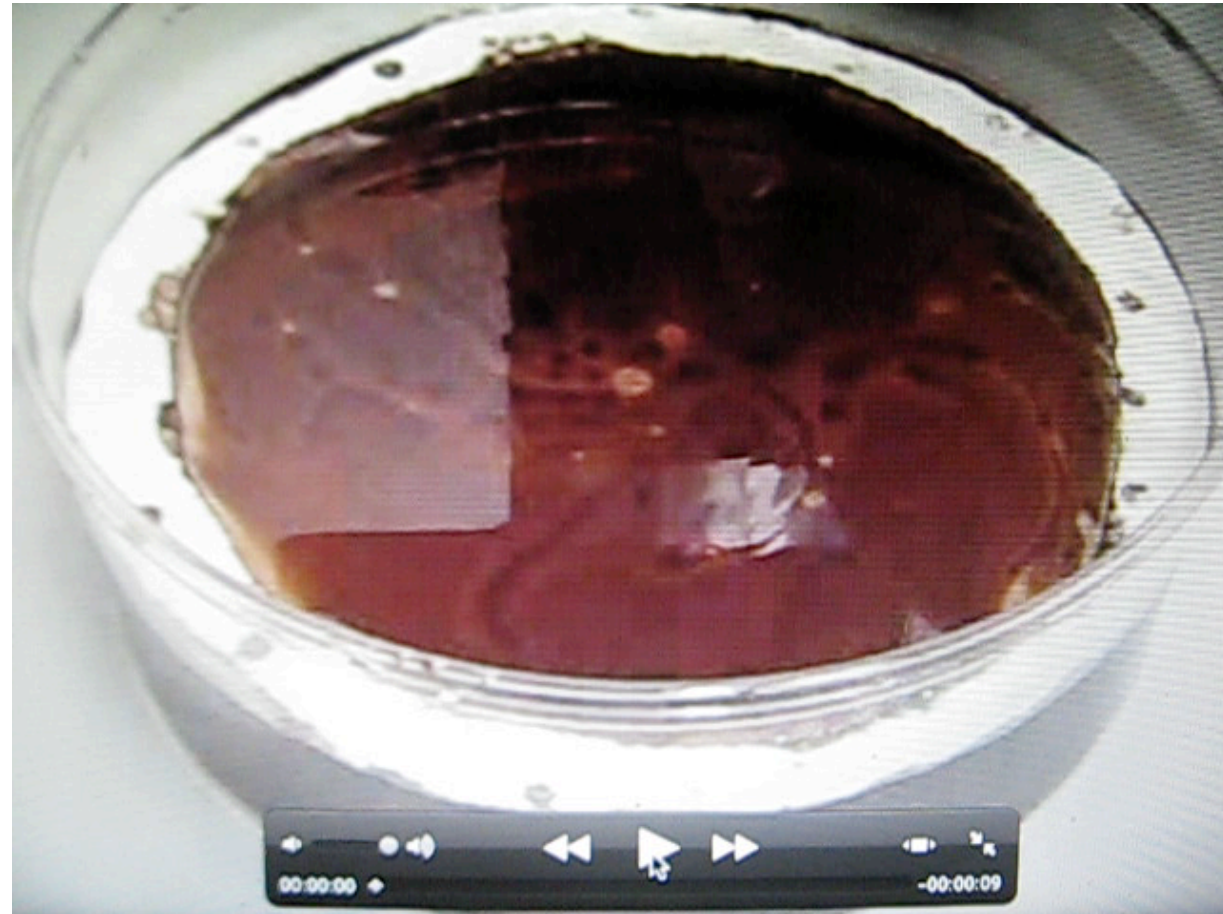
Airtech adsorbtion rate

- 10 to 14 times weight

Tech 3 – Accell

- Herding agent for collection

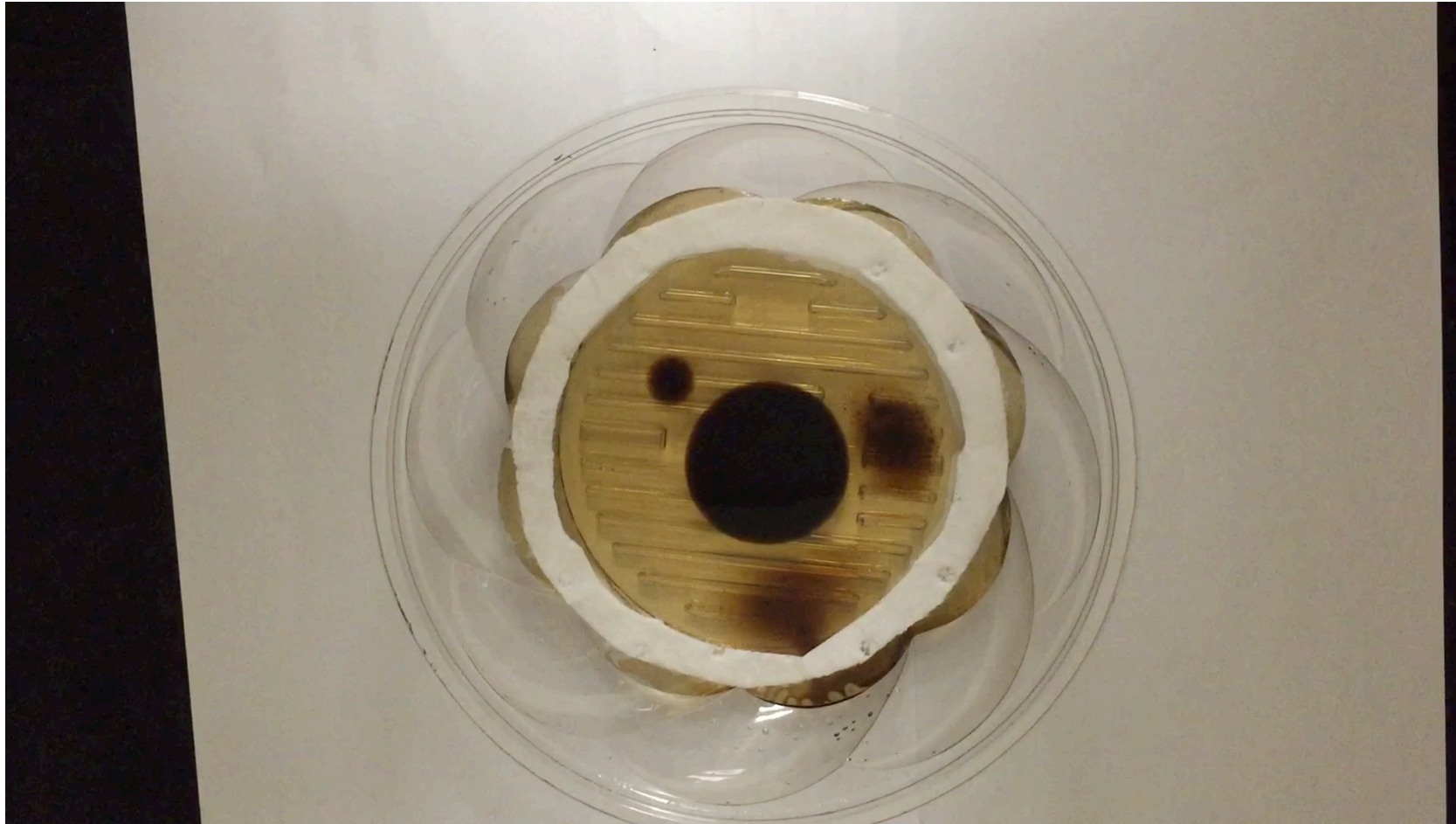
Accell – Herding on Texas Light



Accell - Herding on Ventura

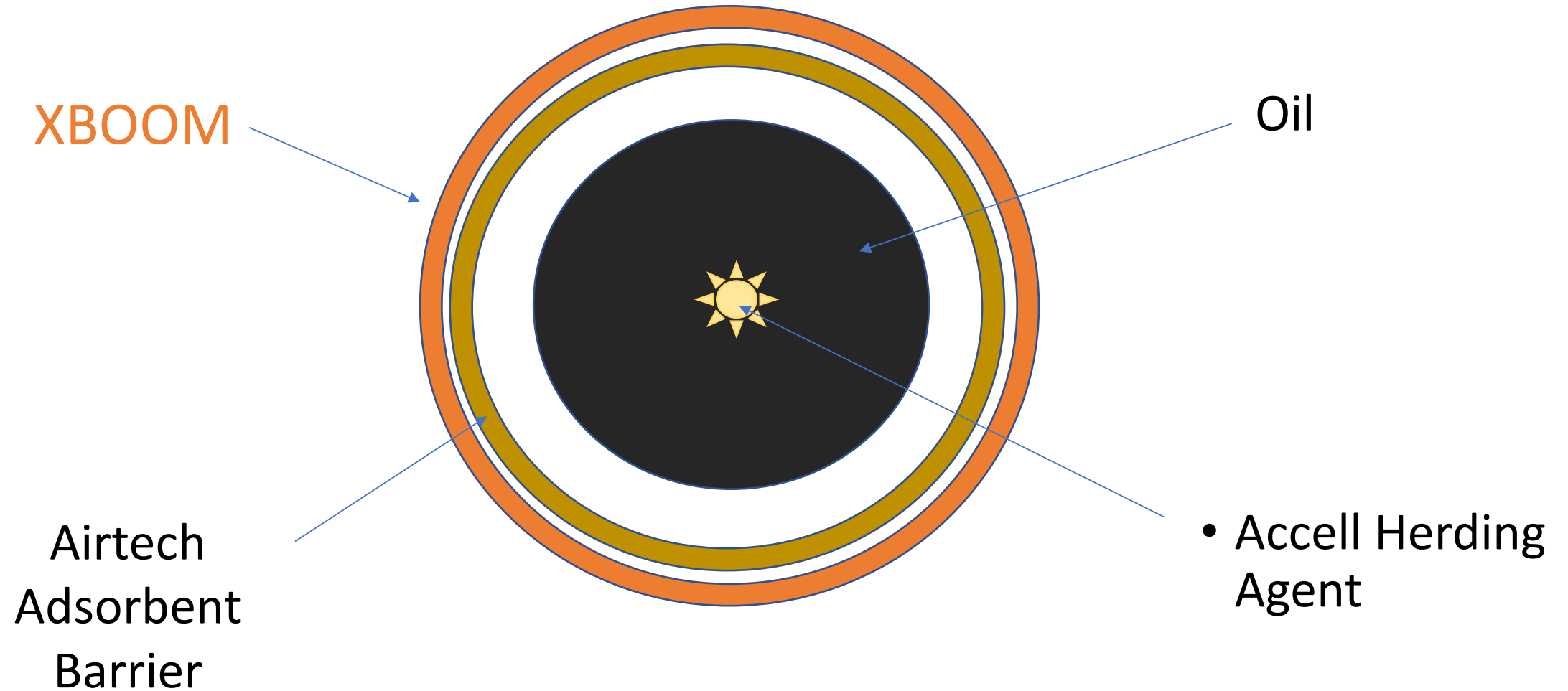


Accell - Herding on China Heavy

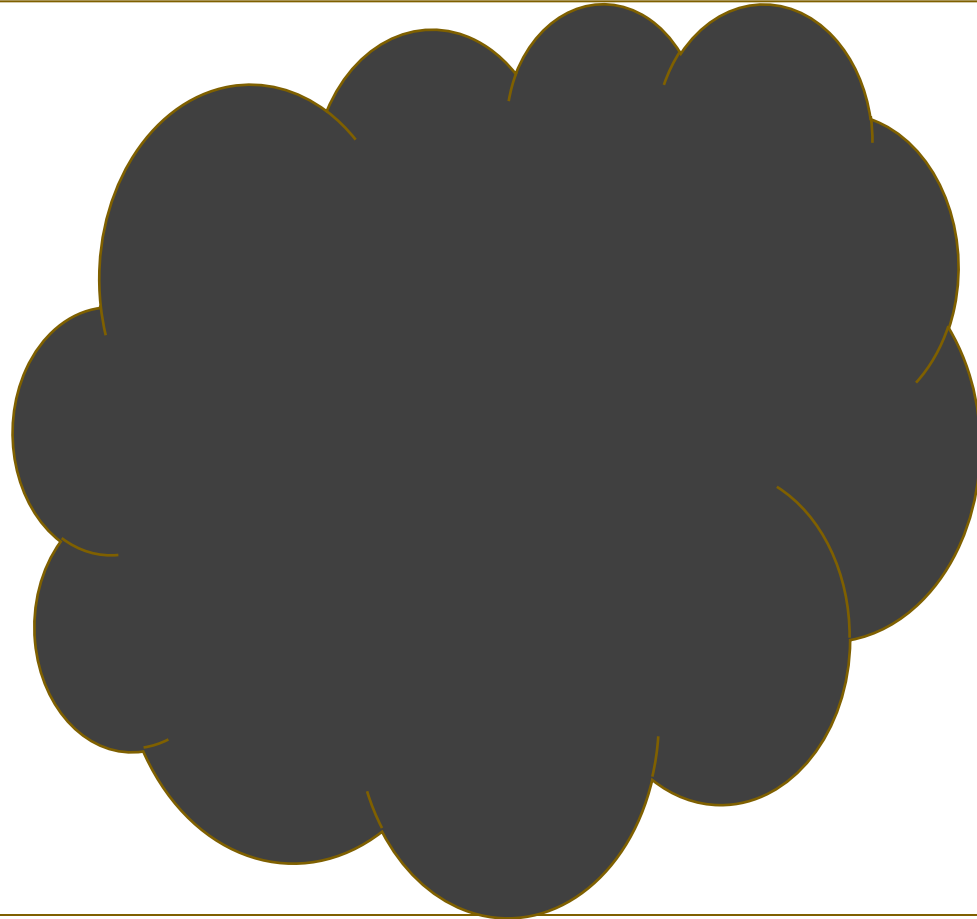


How these technologies work together
to delivers a complete
oil spill solution

New technologies working together

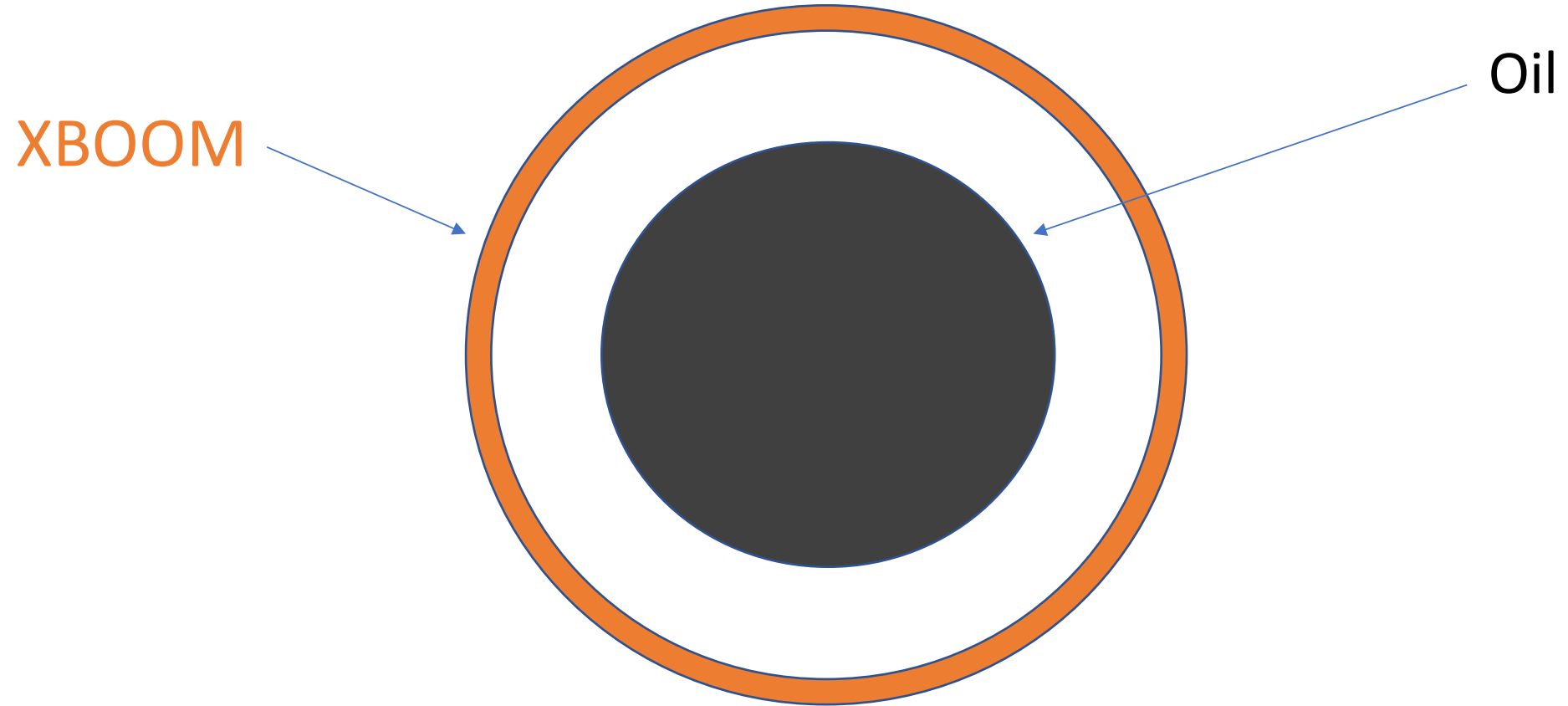


Oil in open water



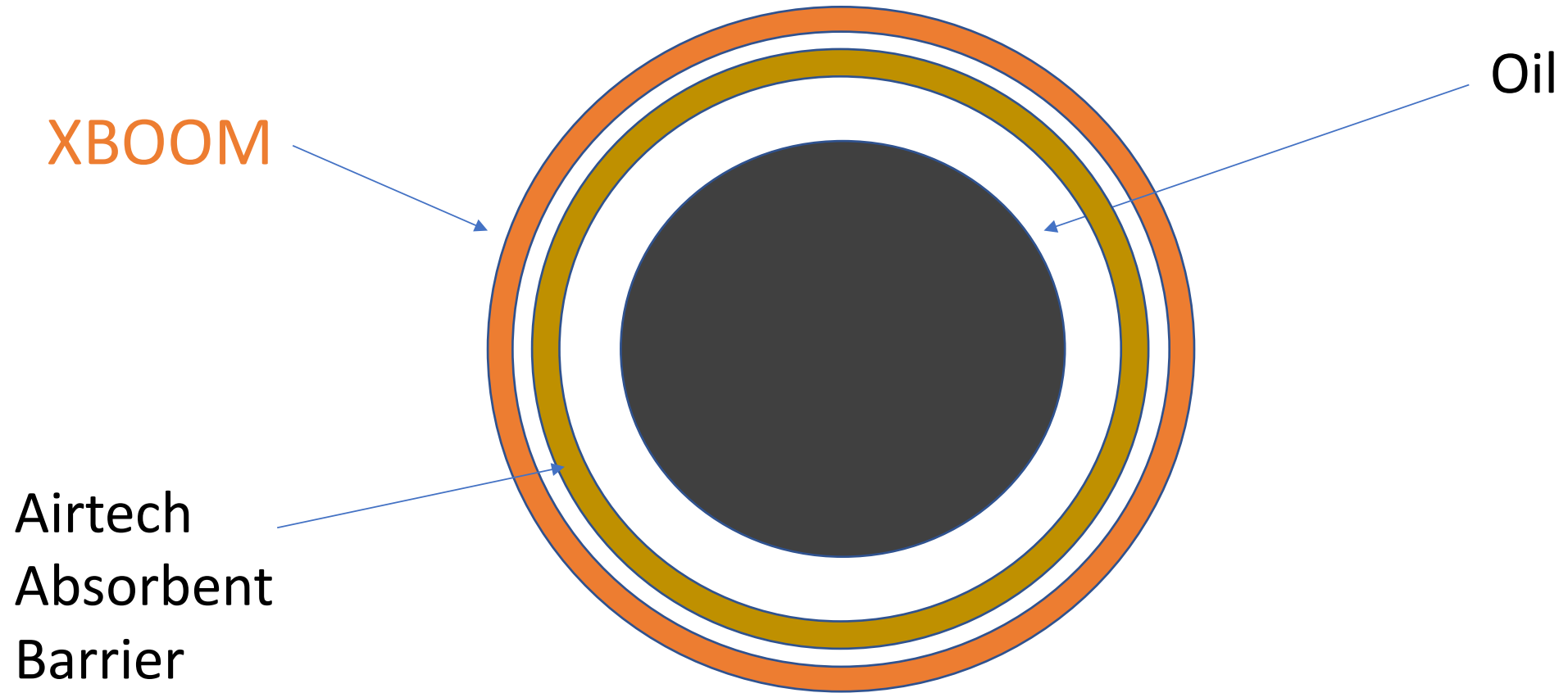
Step 1

Surround and contain *with* **XBOOM**



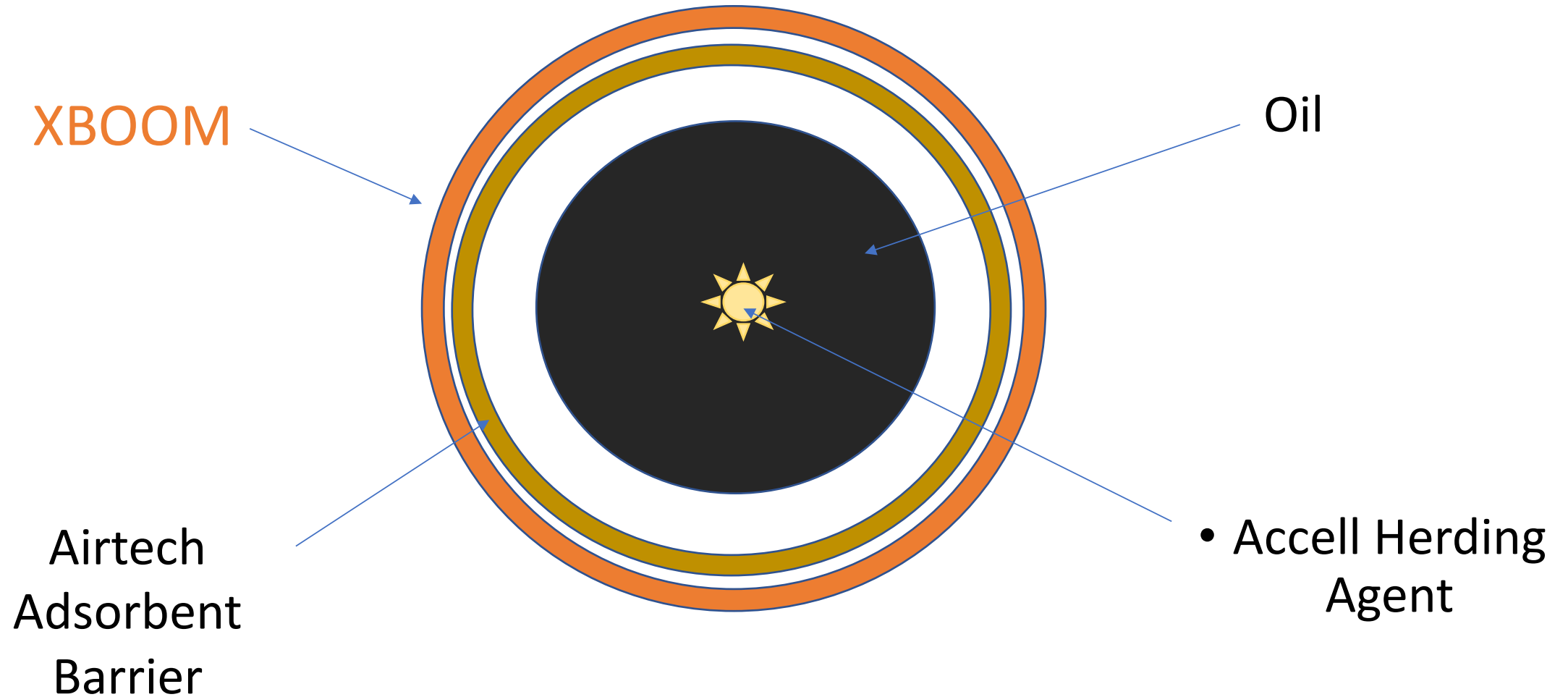
Step 2

Place Airtech Adsorbent inside XBOOM



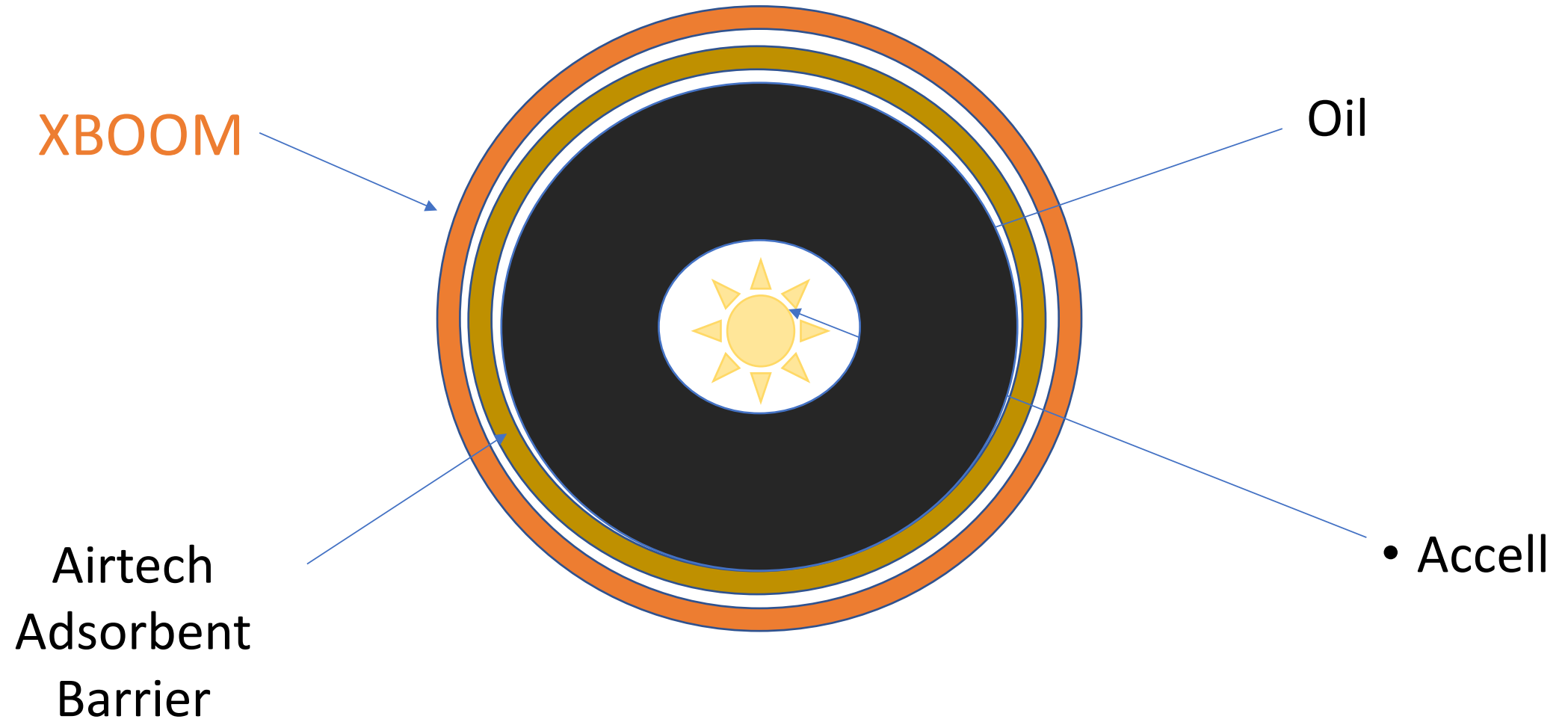
Step 3

Spray Accell herding agent at center of oil



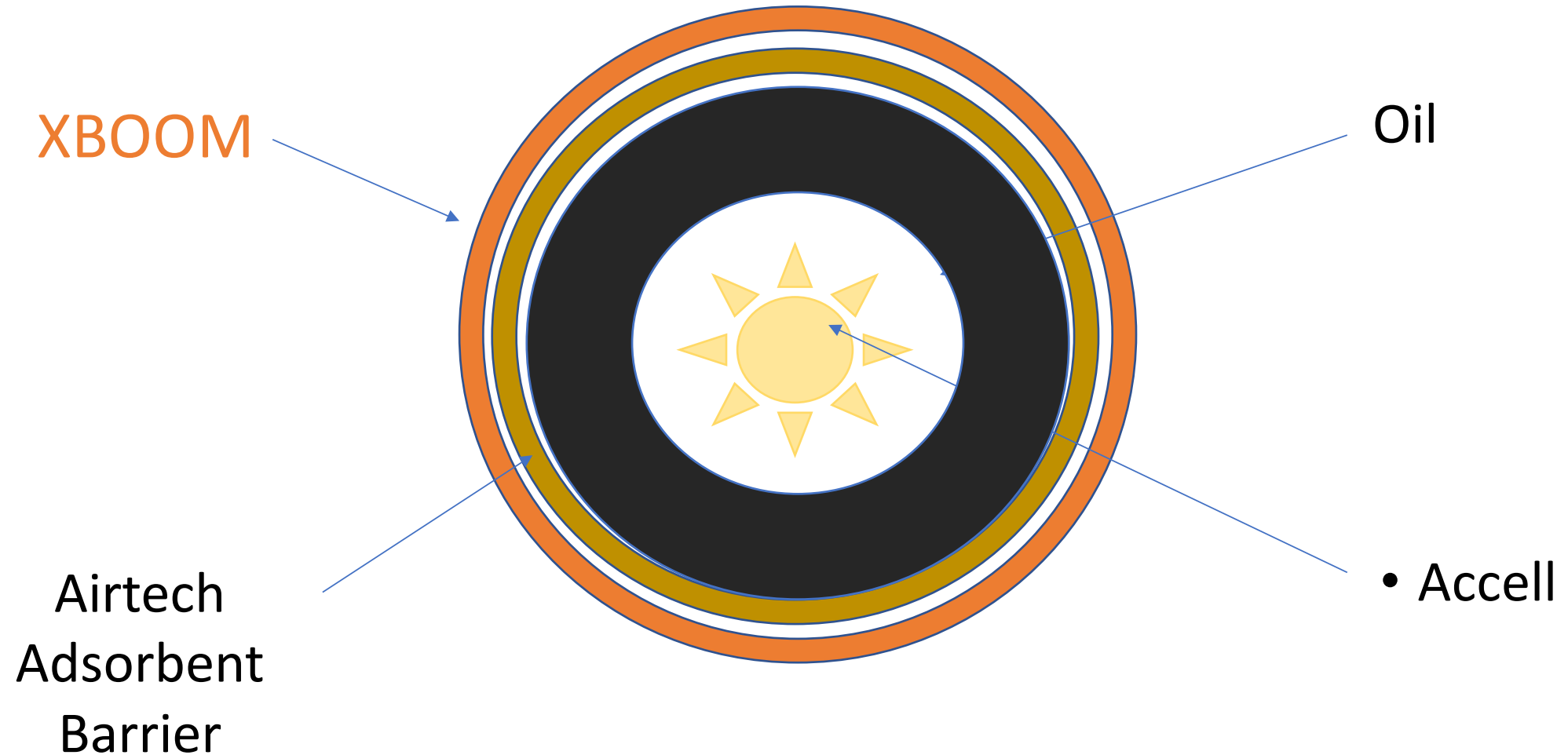
Step 3

... to herd oil into Airtech adsorbent barrier



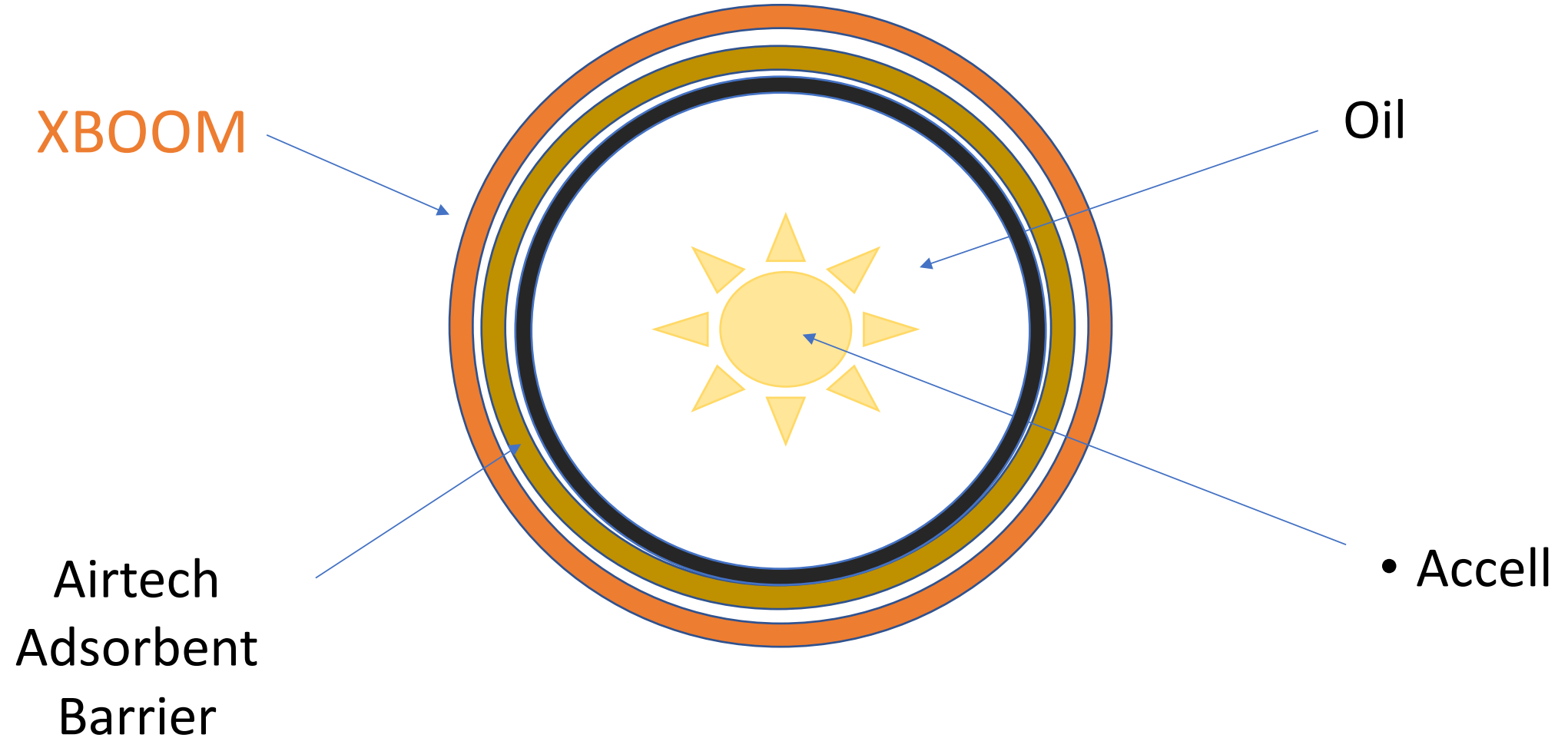
Step 3

... to herd oil into Airtech adsorbent barrier



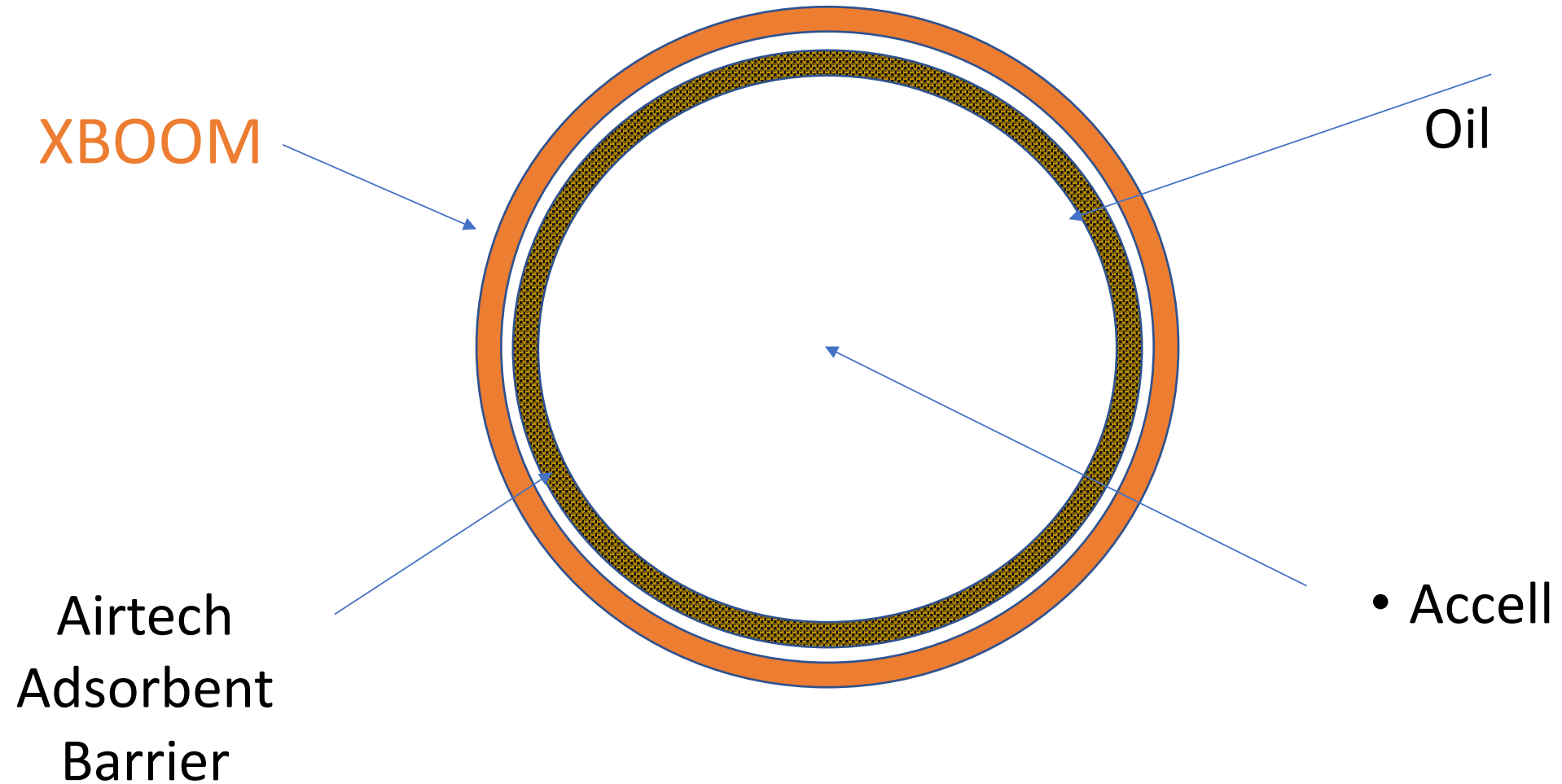
Step 3

... to herd oil into Airtech absorbent barrier



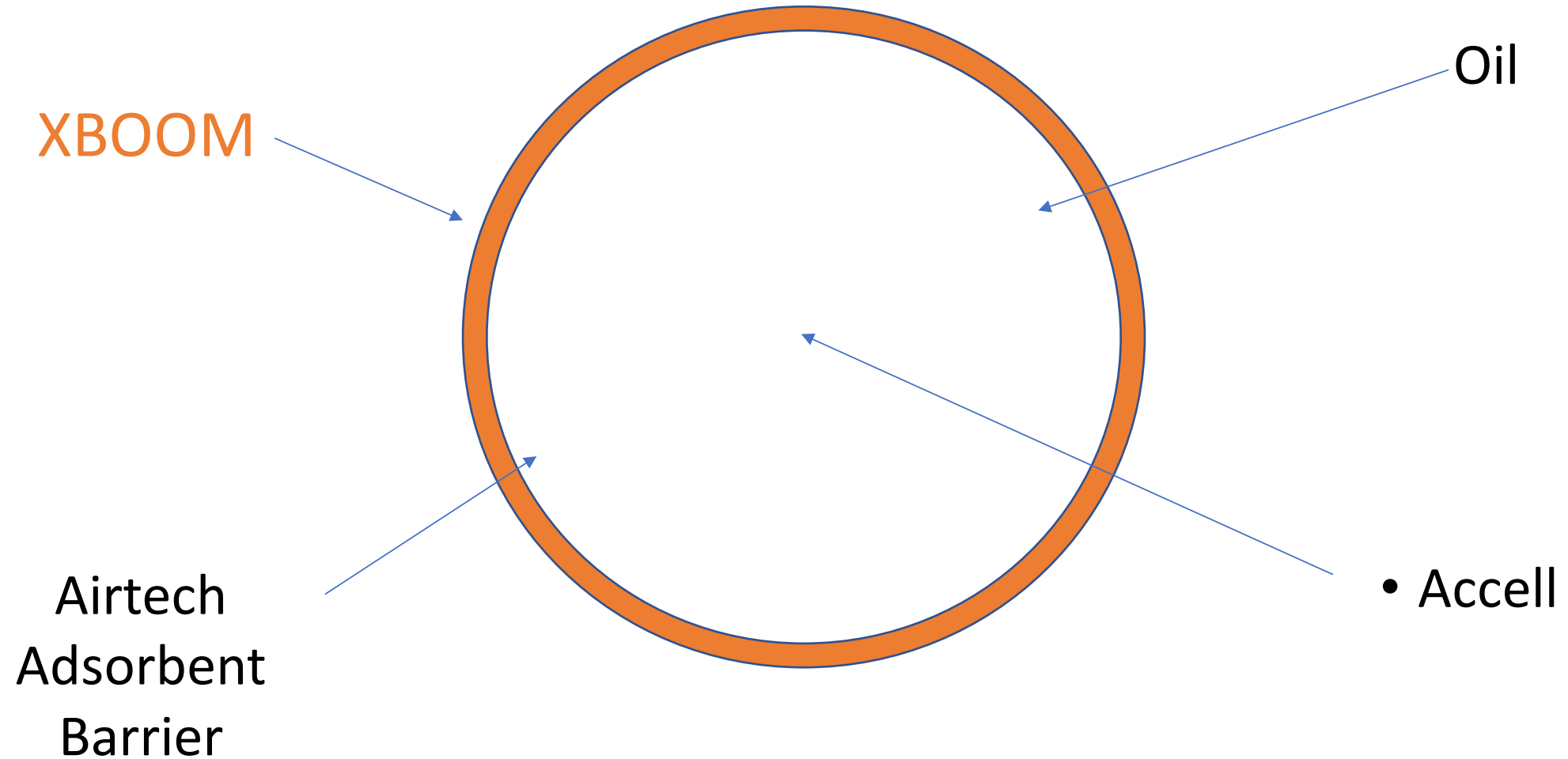
Step 4

...Airtech absorbs all oil



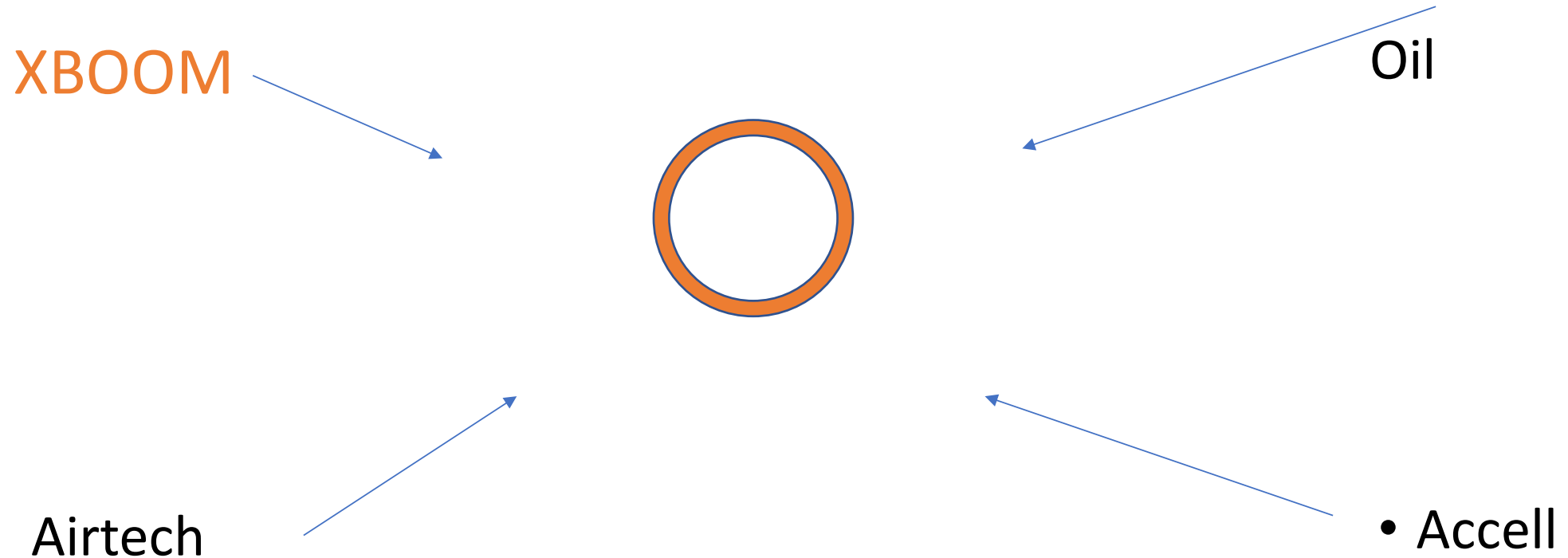
Step 5

... ships pick up Airtech barrier with oil



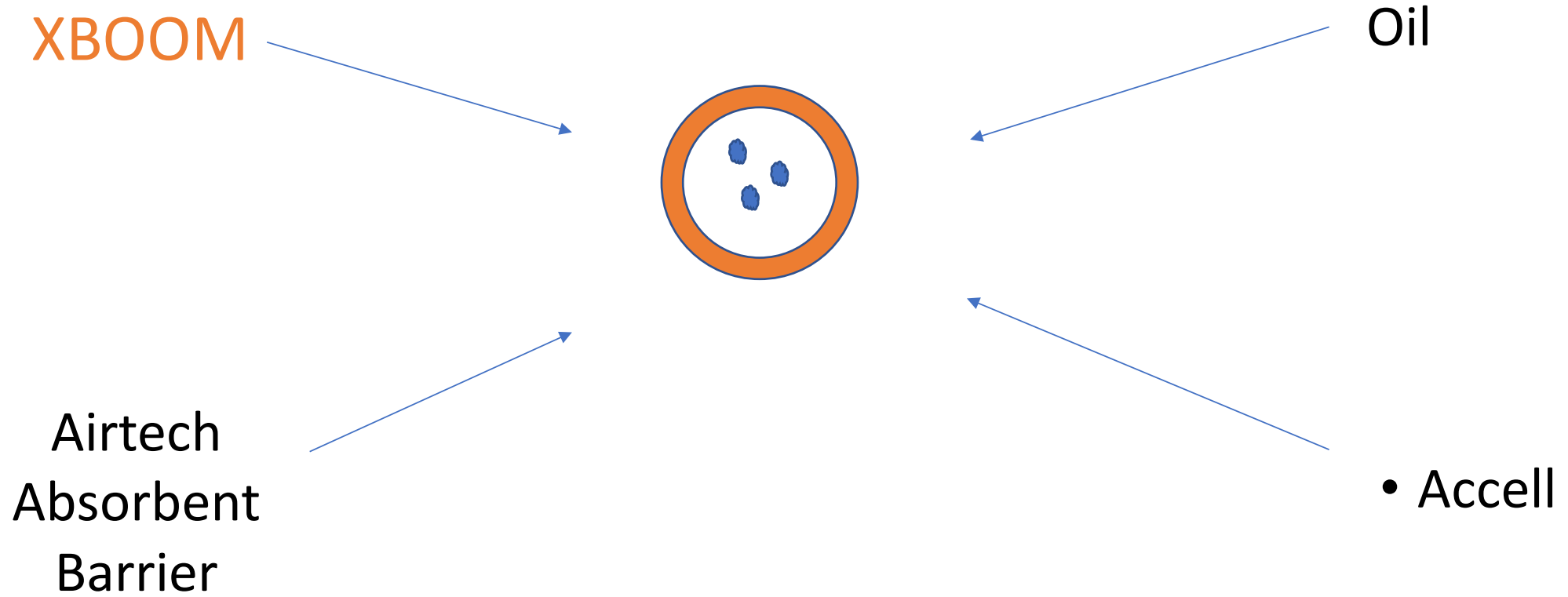
Step 6

... draw in XBOOM to gather any remnants



Step 6

... reel in XBOOM to gather any remnants



Step 7

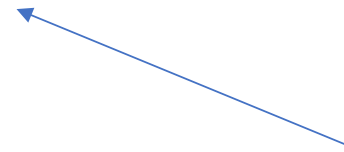
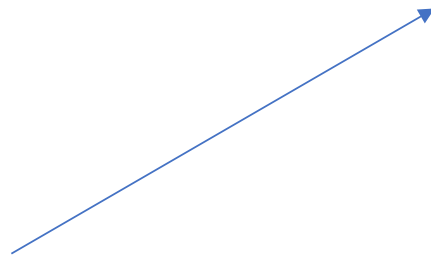
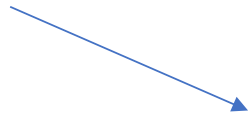
... pick up oil residue with Airtech chips and the XBOOM

XBOOM

Oil

Airtech

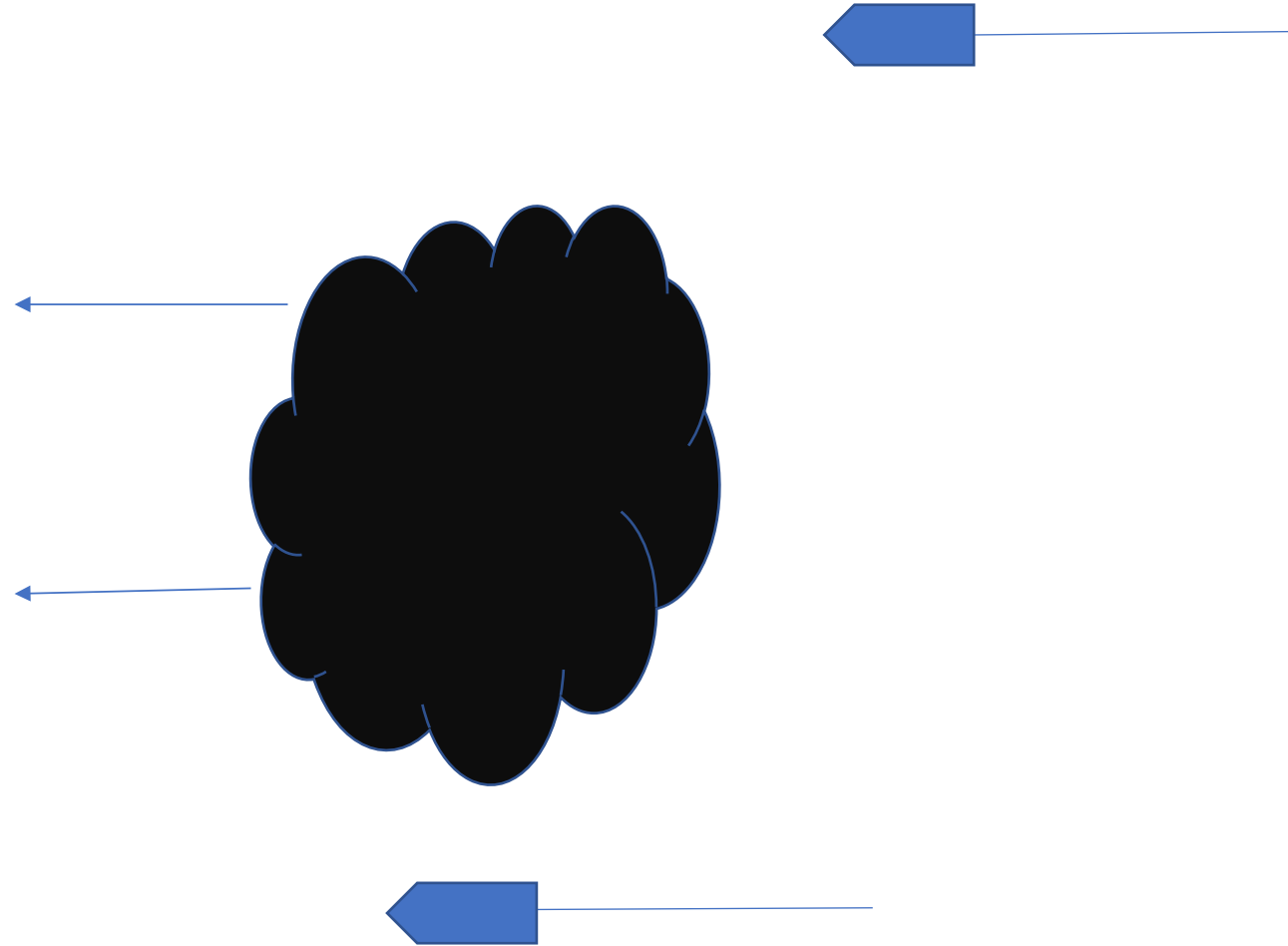
• Accell



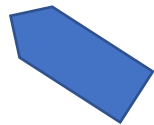
Clear water again



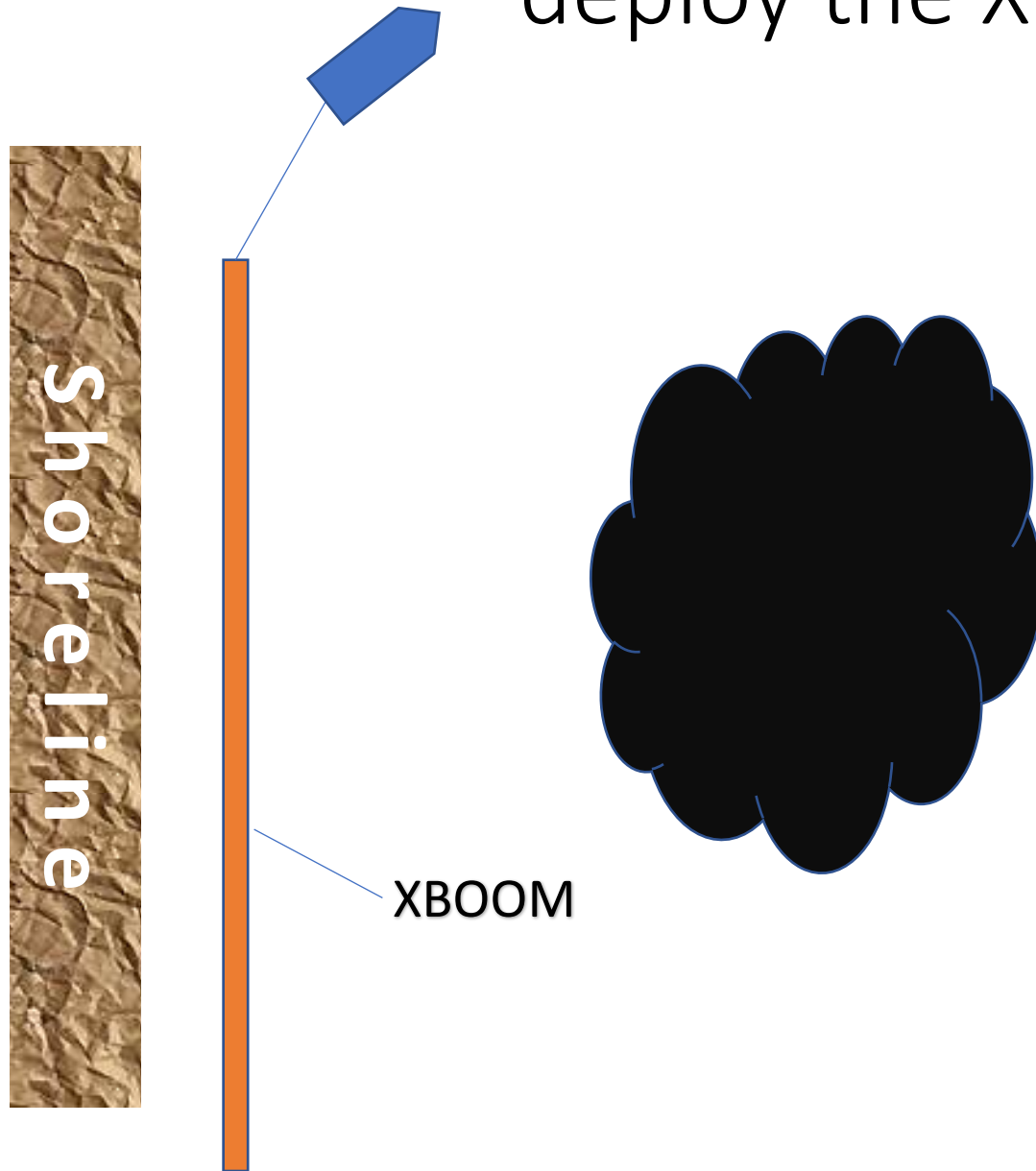
... to protect the shoreline or banks



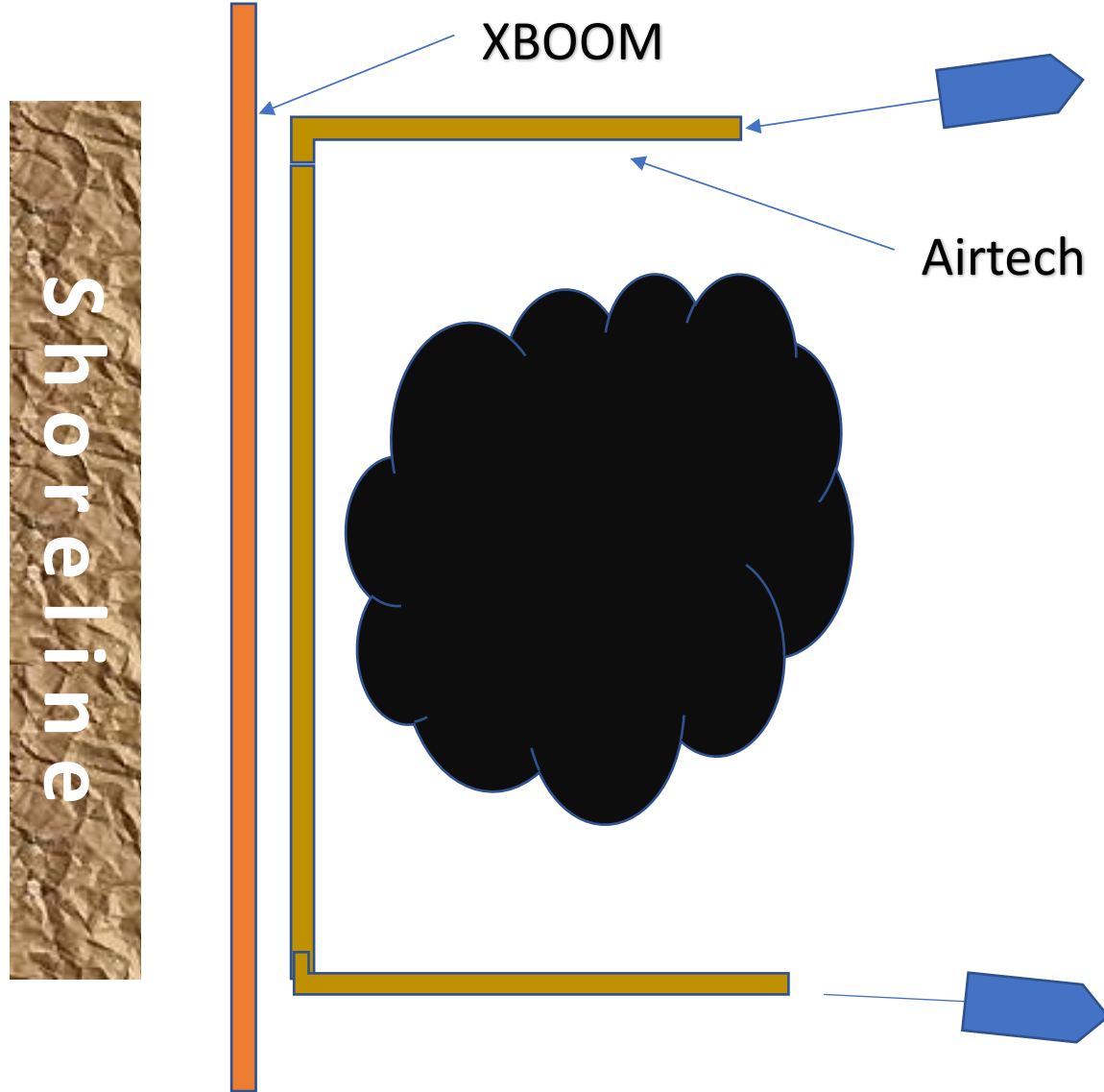
... to protect the shoreline or banks



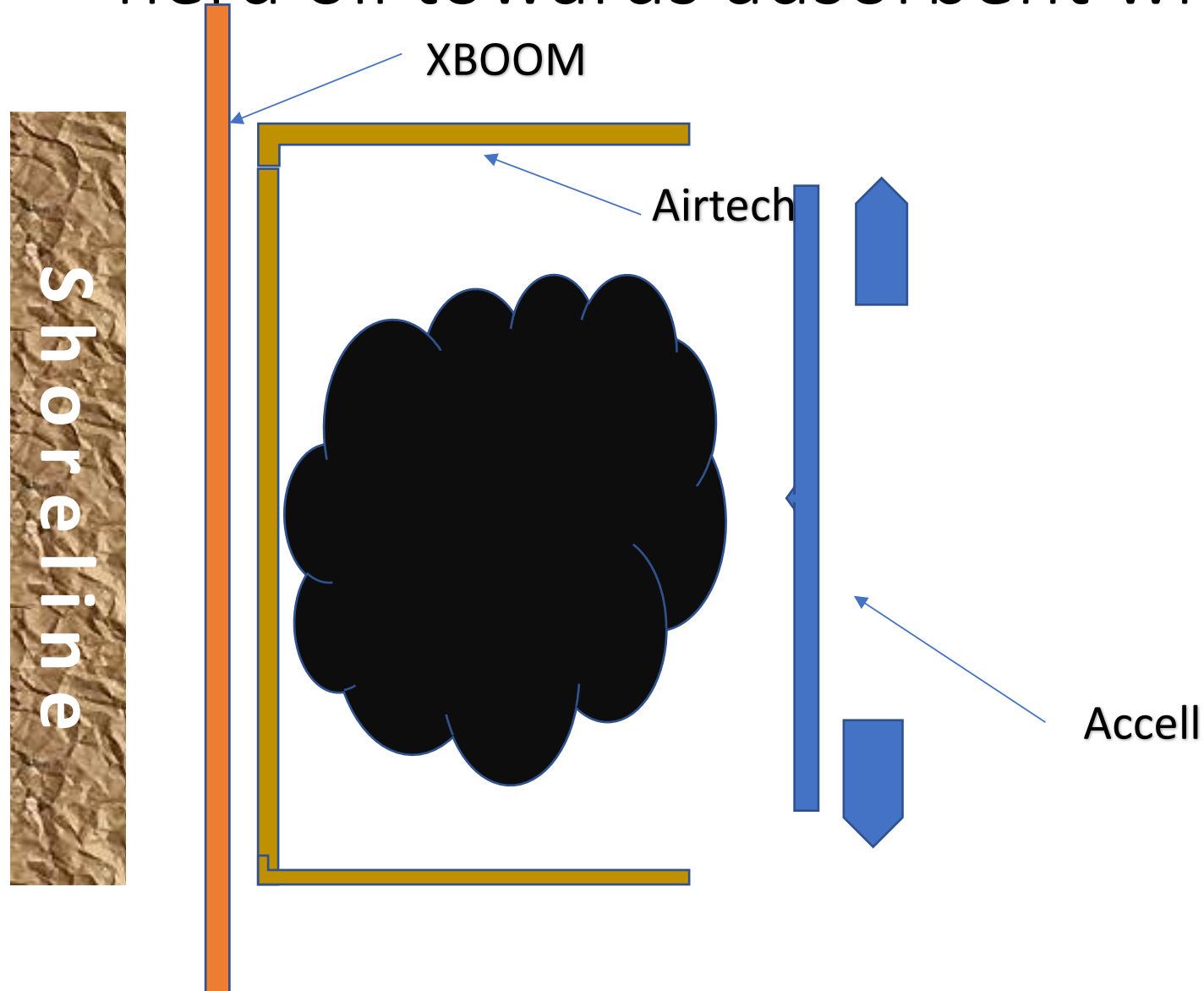
... to protect the shoreline or banks
deploy the XBOOM



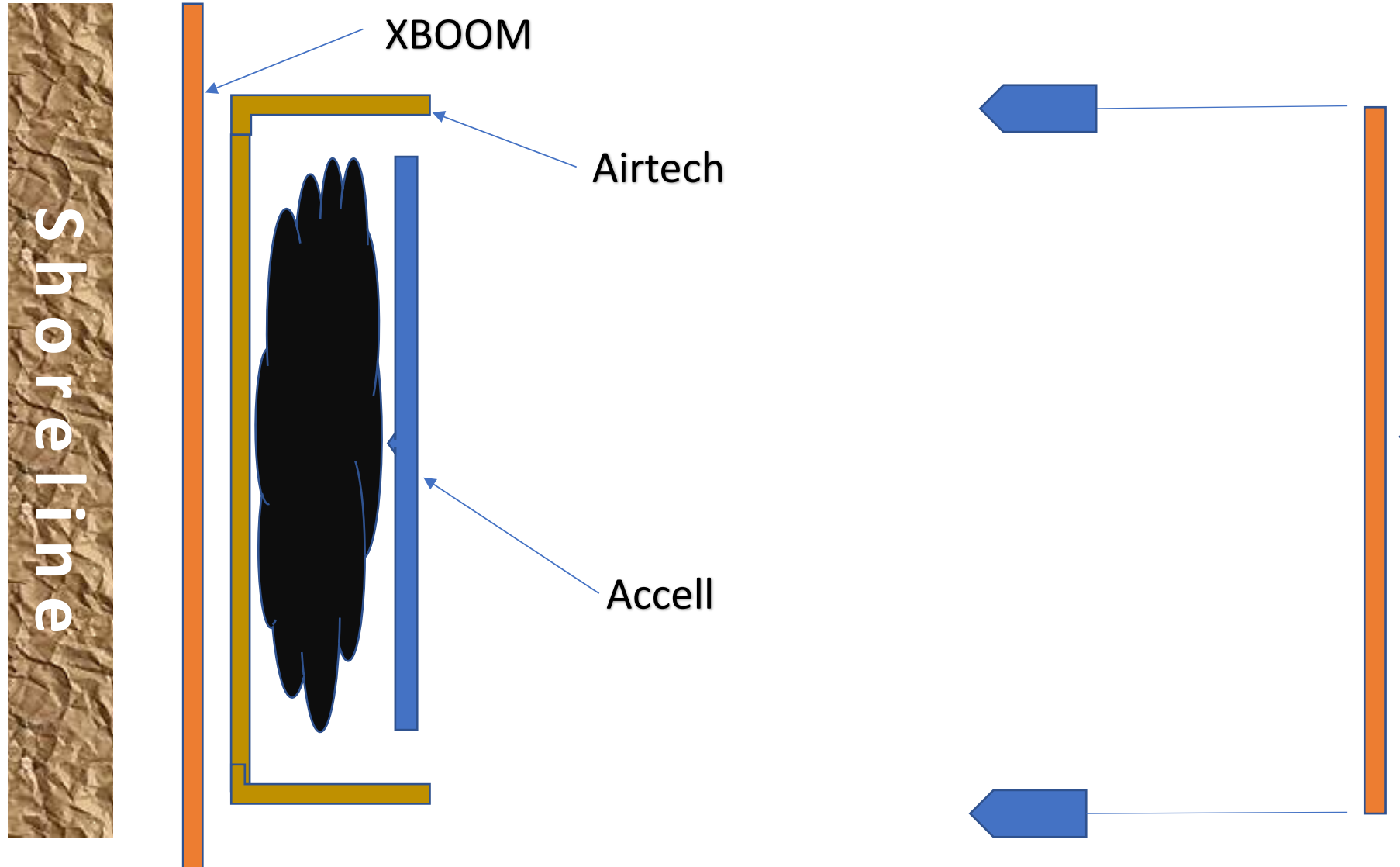
... to protect the shoreline or banks
... deploy the Airtech Barrier



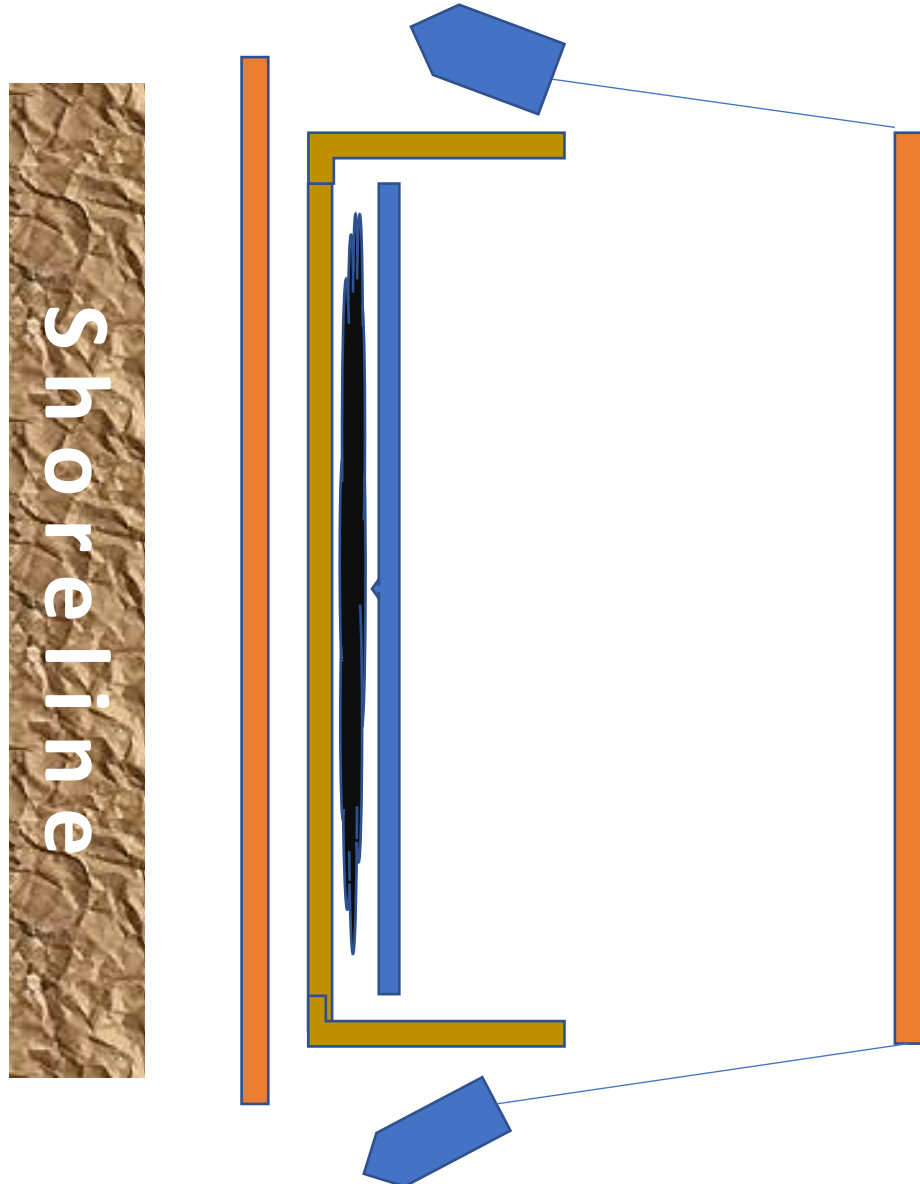
... to protect the shoreline or banks
herd oil towards adsorbent with Accell



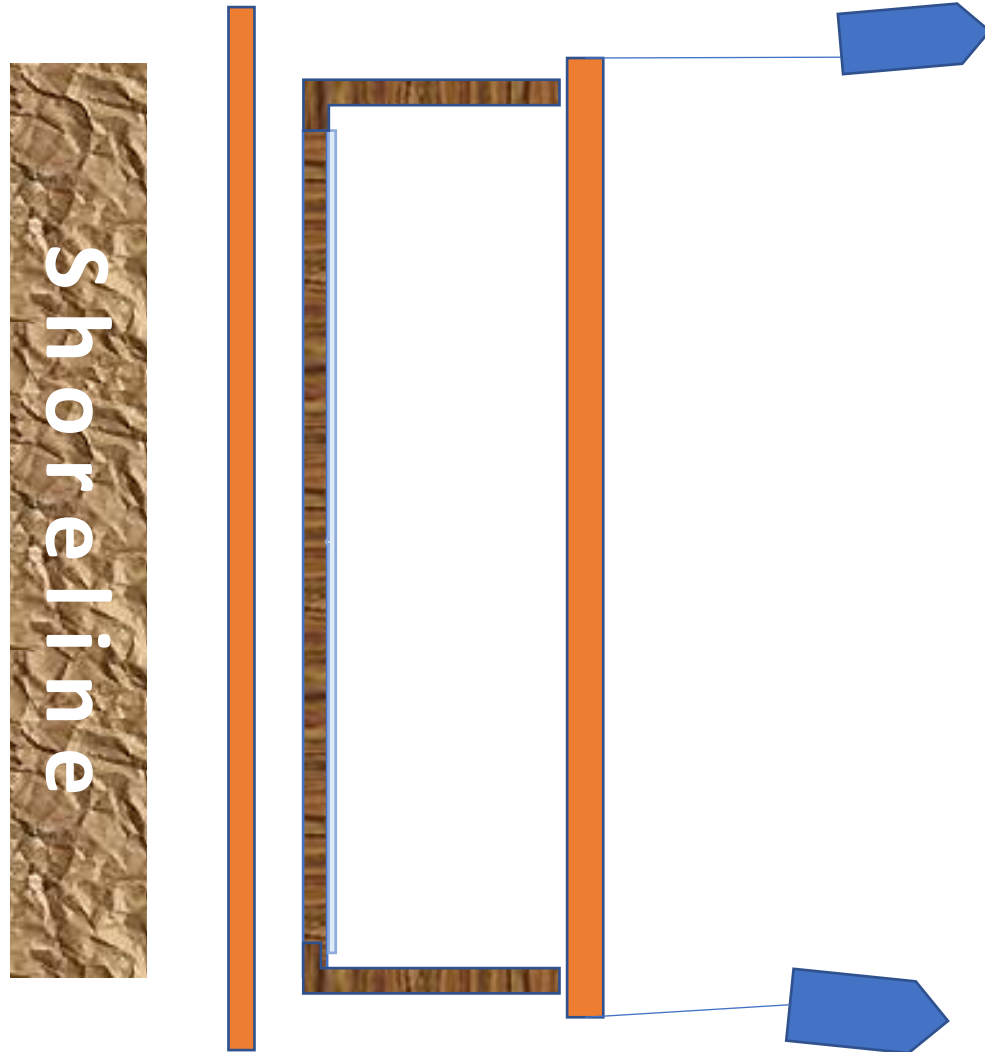
... to protect the shoreline or banks
as herd oil with Accell deploy 2nd XBOOM



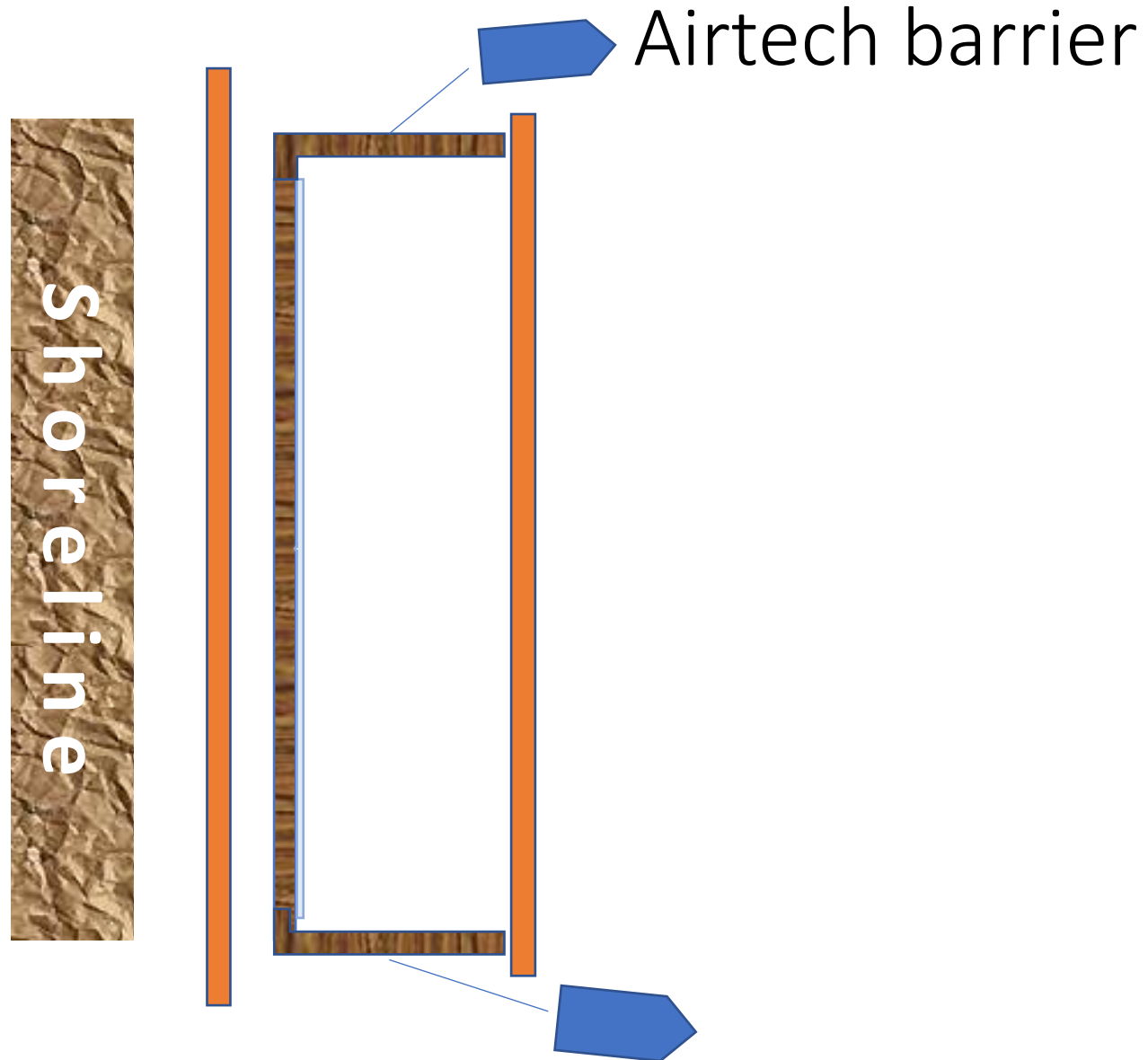
... to protect the shoreline or banks close
in area with XBOOM



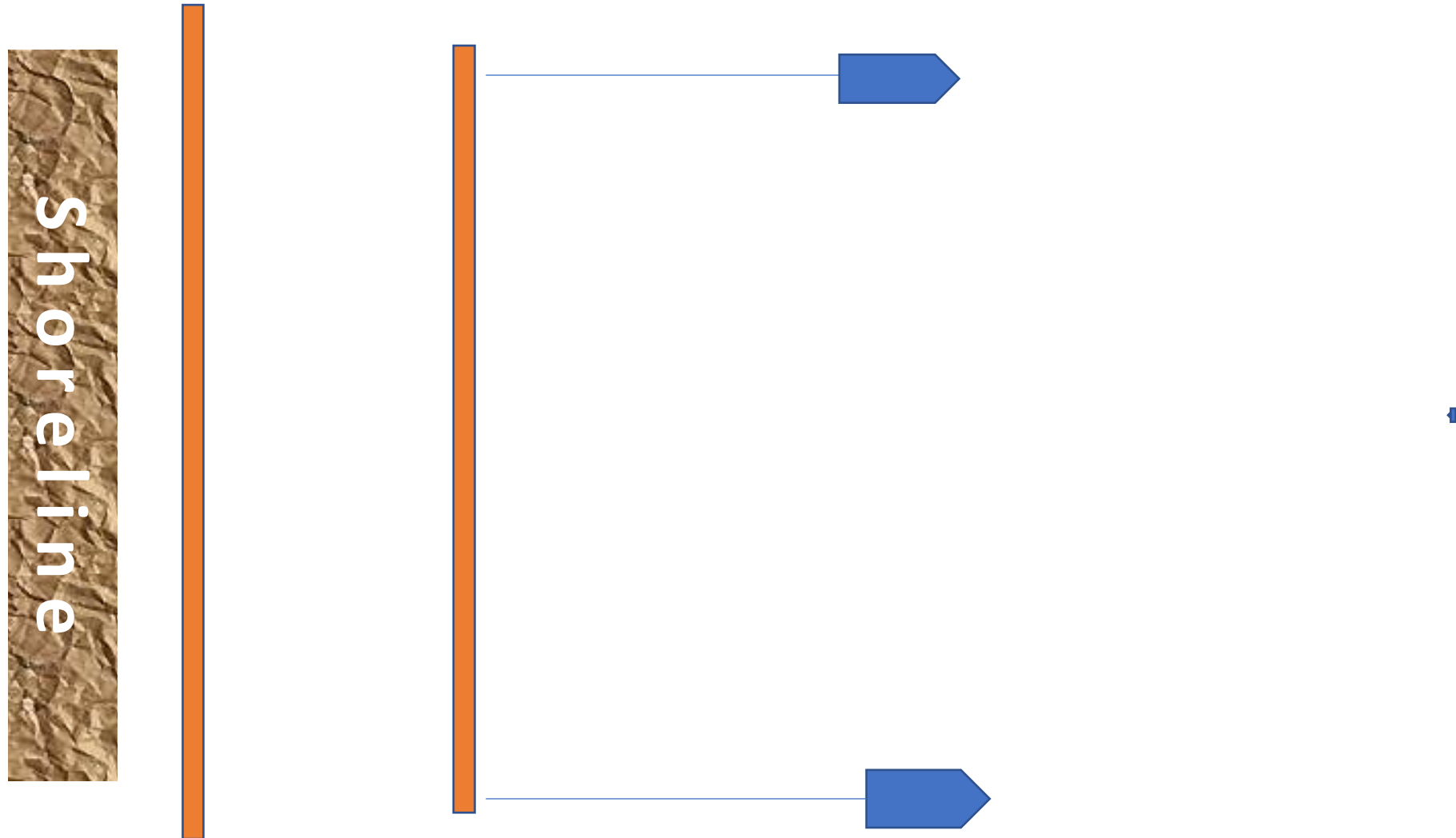
... to protect the shoreline or banks close
in area with XBOOM



... to protect the shoreline or banks pick up oil-filled



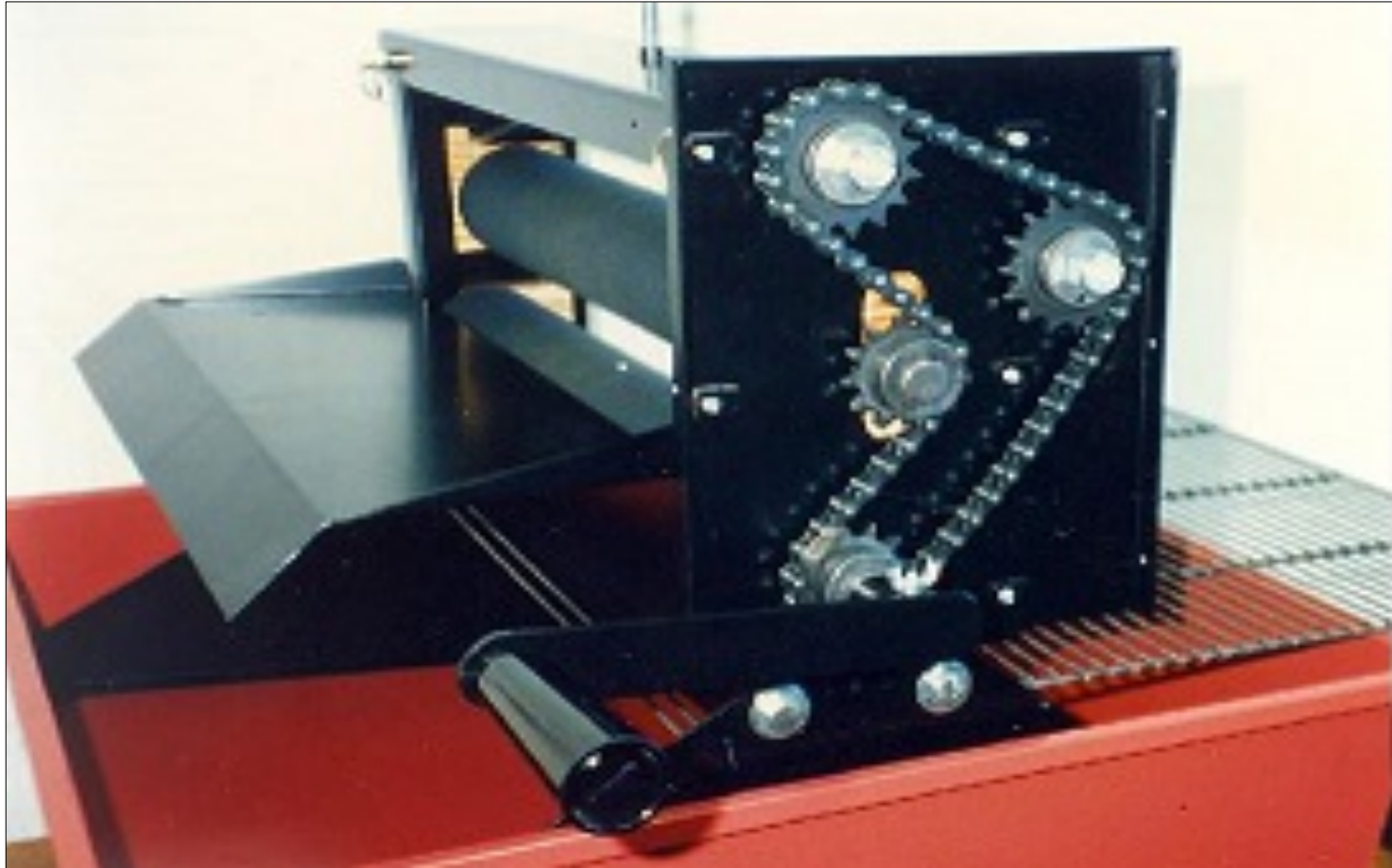
... to protect the shoreline or banks
re-deploy outer XBOOM leaving shoreline XBOOM



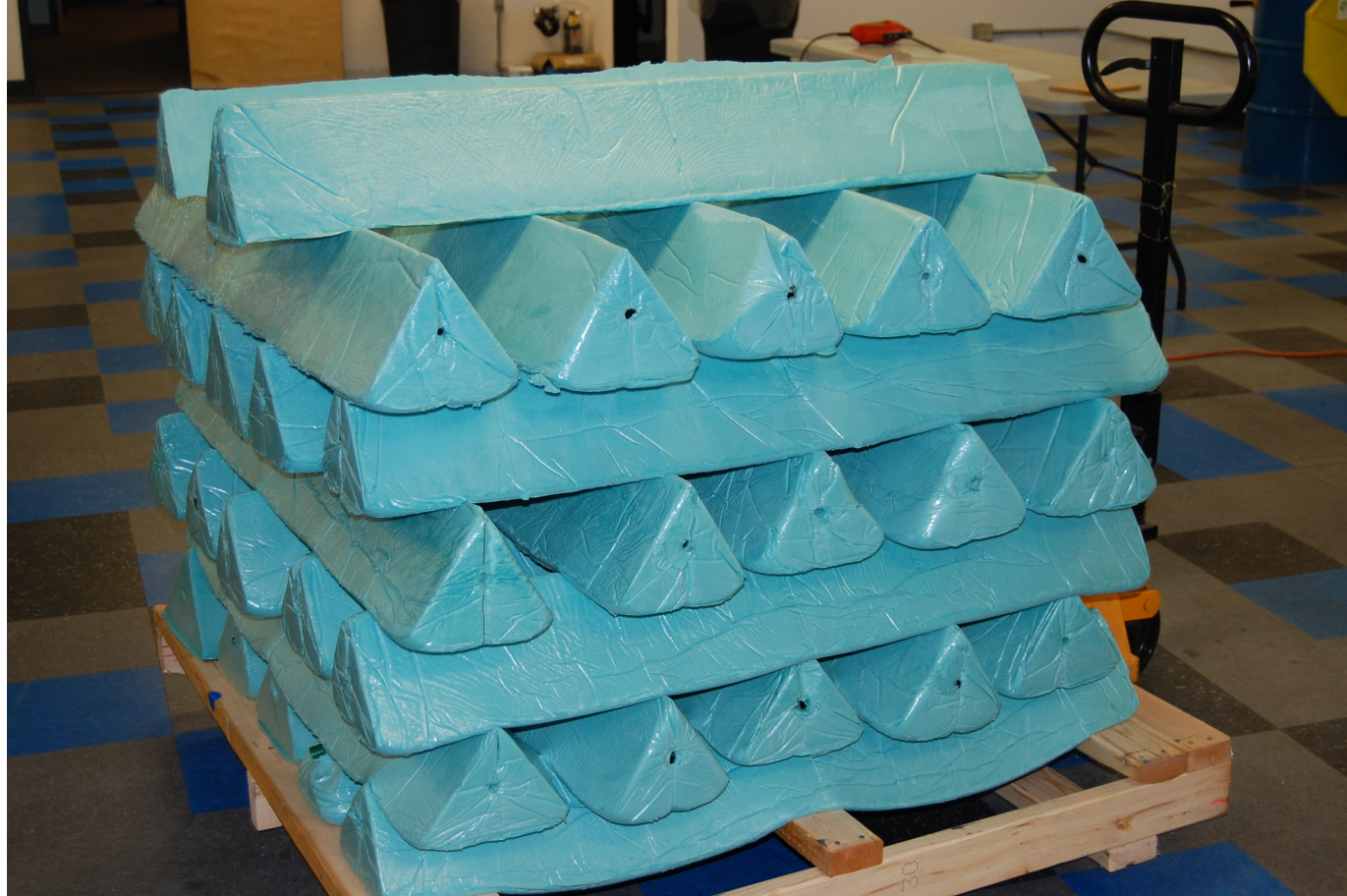
Clean XOM w Accell SWA for re-use on next event



Airtech Extractor – Saves 98% of oil



Clean 2% oil balance of Airtech material with
Accell SWA so
Airtech is ready for use on next event.



Safety of Accell[®]

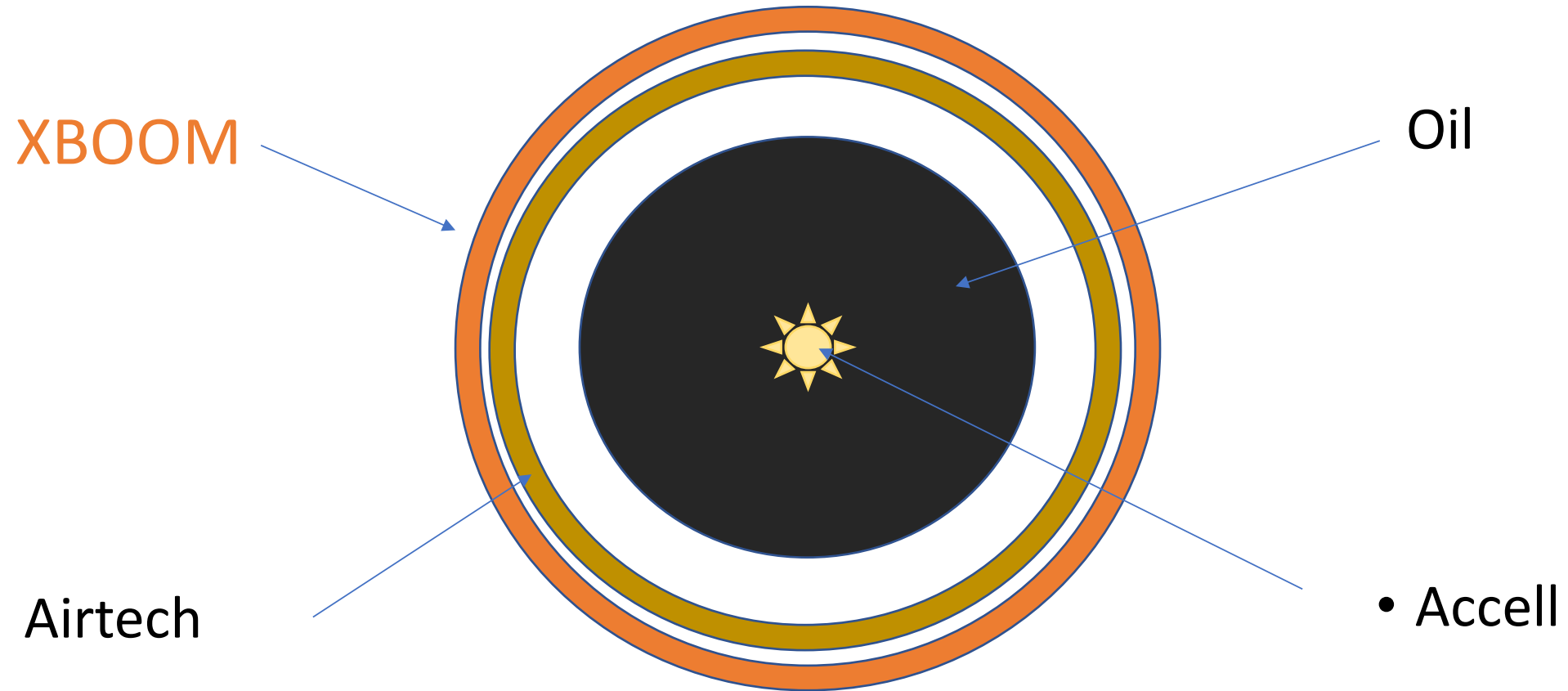
Product Biodegradation

- All Accell[®] products degrade...into natural elements

.....

- IMO requirement is:
60% degradation in 30 days
- Accell[®] levels is:
78% degradation in 10 days

new technologies working together



Rapid deployment of new technologies

Combine all technologies in a rapid deployment D.O.D.S unit that:

- 1 – Provides rapid containment and collection of oil
- 2 – Deploys rapidly from shore, ship or air vehicles
- 3 – Comes in multiple sizes for small to large spill events
- 4 – Delivers all technologies in a single package
- 5 – Is quickly and easily recoverable
- 6 – Is cleanable, and re-usable for subsequent incidents

D.O.D.S. deployment system

Comes in multiple sizes to meet deployment vehicle requirements and spill size and circumstances and is:

- Light weight/strong aluminum construction
- With floatation pontoons to match deployment weight
 - Deployment hooks to connect to vessel tethers
 - An Accell bladder and spray delivery system

Next up

Oil Spill Recovery in other areas

*... with sustainable technologies
working together ...*

These areas include areas ...

- *Shoreline beaches and cliffs*
 - *Rivers and waterways*
 - *Tidal estuaries*
- *Wetlands and marshes*
 - *Lakes and ponds*
 - *Harbors*
- *Shipside and docking areas*
- *Production water containments*

