

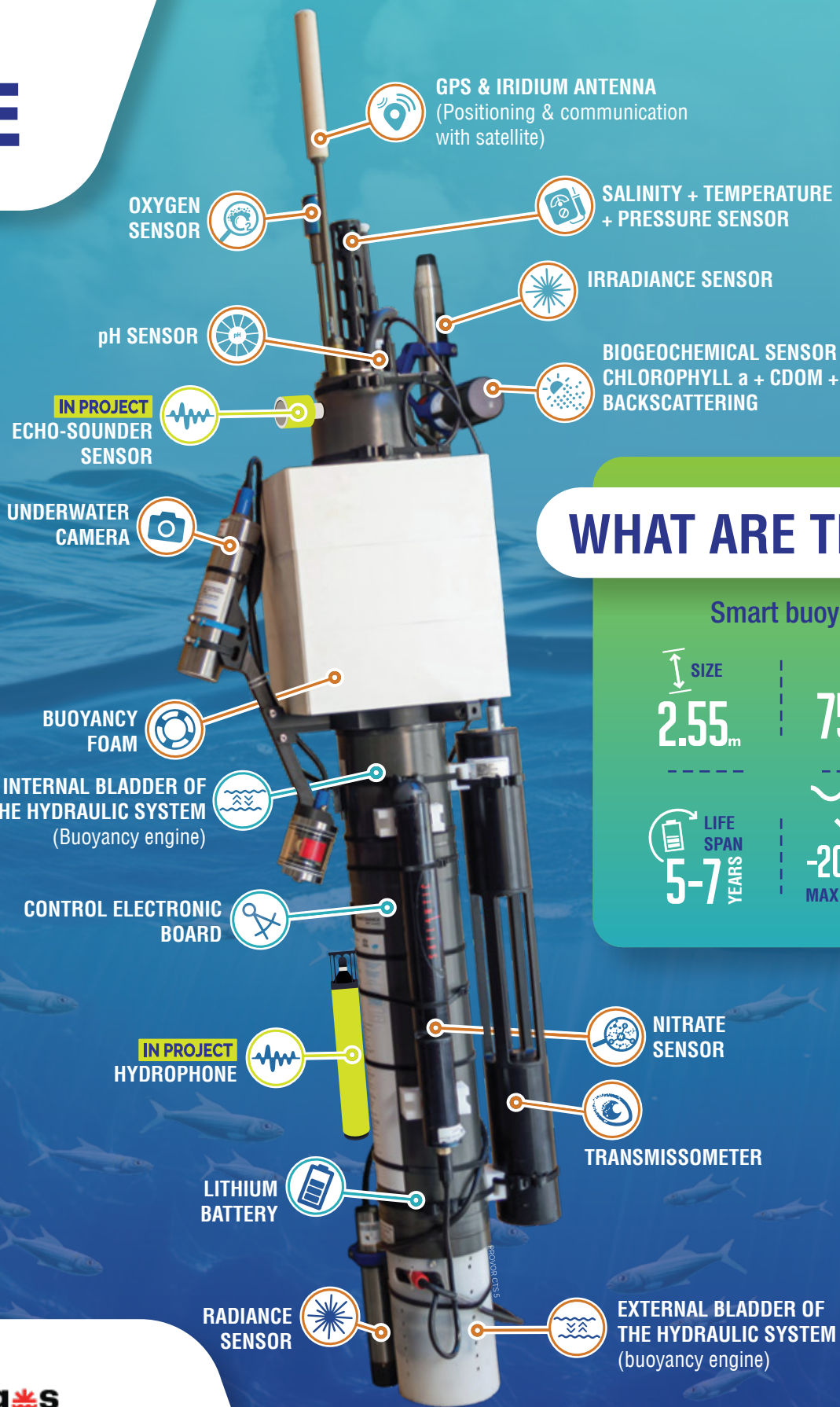
SMART BUOYS ARRIVE AT THE THERMAL DOME

Eight smart buoys will measure the physical, chemical, and ecological properties of the Thermal Dome's waters using 3D technology and advanced sensors.

This initiative establishes an observational framework to support governance and dynamic management of the high seas.

WHERE?

In international waters, in the core of the Thermal Dome. They will be located more than 200 miles off the Central American coast.

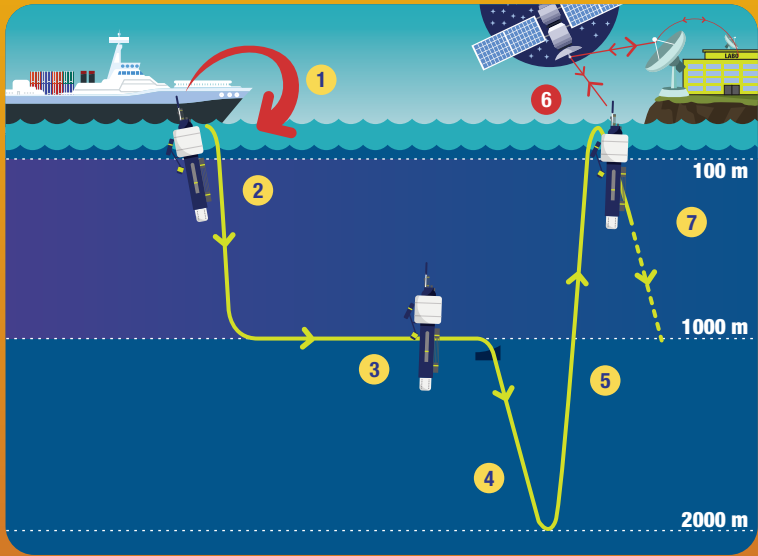


WHAT ARE THEY?

Smart buoys	
SIZE	75 kg
2.55 m	
LIFE SPAN	-2000 m
5-7 YEARS	MAX. DEPTH

HOW DOES IT WORK?

- 1 Deployment from a ship
- 2 Descent to 1000 m
- 3 Drifting at 1000 m for 9 days and sound recording
- 4 Descent to 2000 m
- 5 Ascent to the surface and activation of sensors for data collection: the stage when sensors measure the different properties
- 6 Data transmission to shore through satellite
- 7 The cycle begins again



THE THERMAL DOME

is one of the most affluent marine areas in the Pacific

Winds and marine currents cause cold waters loaded with nutrients to emerge from the depths to the surface, generating an oasis of high productivity.

It is a vital space for feeding, reproduction, and migration of diverse marine species that come to the site in search of organisms.

TEMPORAL PERSISTENCE OF THE THERMAL DOME

