

# PROTECTION CAPSULE

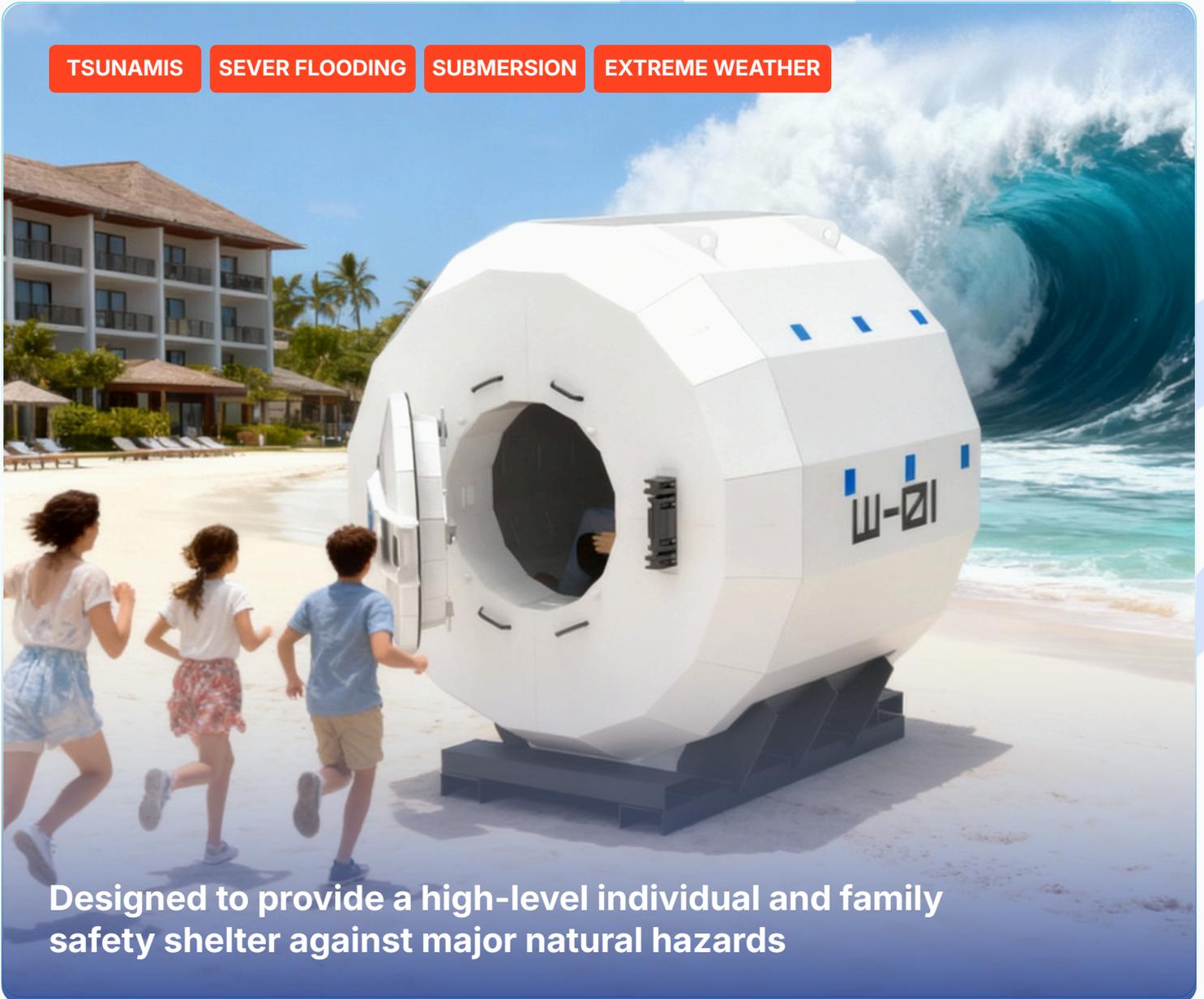
EXTREME FLOOD HAZARD SHELTER

TSUNAMIS

SEVER FLOODING

SUBMERSION

EXTREME WEATHER



Designed to provide a high-level individual and family safety shelter against major natural hazards

The current version is designed to accommodate 2 adults and 2 children, with an architecture allowing future evolutions (extended capacity and collective versions).



**SHELTERING**

Rapid deployment



**BUOYANCY**

Controlled float



**RESISTANCE**

High mechanical



RAPID SHELTER



GPS AND LIFEGUARDS ALERT



FLOOD RESISTANCE

## MAIN STRUCTURE

- **Double-shell Aluminum 5083**  
Outer shell: 4 mm  
Inner shell: 4 mm
- **Marine-grade alloy**  
Corrosion resistance  
Mechanical resilience  
Saline/Humid environment ready

## SAFETY & SURVIVAL

- **Ventilation & Oxygenation**  
6 ventilation channels (10 cm<sup>2</sup> each)  
Water ingress prevention design  
Fully sealed mode for submersion
- **Internal Air Volume: ~2.5 m<sup>3</sup>**  
~3 hours autonomy (no supply)  
Optional oxygen cylinder extends autonomy

## ACCESS & SECURITY

- **Main Access Door**  
Lockable from inside
- **Emergency Window**  
12 mm polycarbonate  
Anti-intrusion grille
- **Lightning Protection**  
Diverts electrical discharges safely

## LOGISTICS & TRANSPORT

Lifepods can be easily and rapidly deployed and comply with these transport modes



## REINFORCEMENTS

- **Welded Transverse Reinforcements**  
Increases global rigidity  
Impact & compression resistance
- **Reinforced Lower Section**  
Double thickness Aluminum 5083  
Protection against rocks & debris

## THERMAL & BUOYANCY

- **Multi-functional Insulating Foam**  
Thermal insulation  
Fire resistance  
Buoyancy contribution
- **External Thermal Coating**  
Reduces heat transfer  
Solar radiation protection

## INTERIOR LAYOUT AND EQUIPMENT

### Standard Equip :

- Seats equipped with safety harnesses
- Protective helmets for each occupant
- Air filtration system
- Chemical toilet (Ensures hygiene during prolonged confinement)

### Optional :

- Food rations and drinking water (up to 2 weeks autonomy)
- GPS tracking beacon
- Inflatable emergency raft

The architecture is designed to allow **integration of third-party systems** such as communications, tracking, situational awareness and remote monitoring solutions.

Photos non contractuelles. Les visuels sont fournis à titre illustratif.