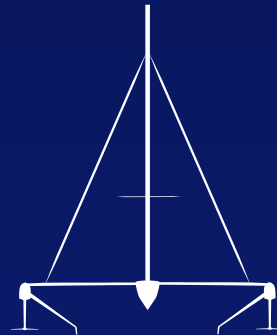
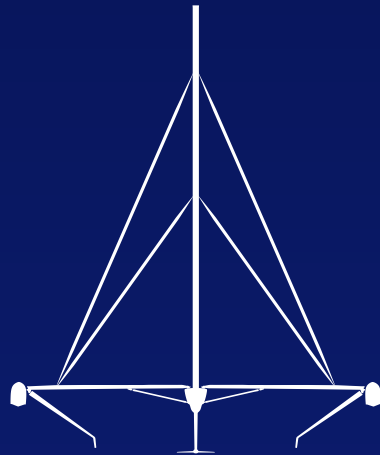


THE HIGH SPEED

ADVENTURE

THAT SPEEDS UP INNOVATION



L'HYDROPTERE 2.0

A CUTTING EDGE TEAM



Gabriel Terrasse
CEO, Team Leader



Eric Rambaud
Technical Director



Tina Roberts (US)
Partner, CEO WELSH Group



Loïc Mazas
Steering of R&D projects



Antonin Verdon
Communication
Manager



James Espey (US)
US Boat Captain



Alain Porte
Aeronautical design



Damien Grolleau
Innovation strategy consulting and
implementation of R&D projects



Sandira Calviac
Strategy and business
development



Loïc Dere
Naval Architect



Françoise Heilmann
Aerospace Engineer



Aurélien Merzeau
IT Manager

2 ICONIC R&D PLATFORMS



L'HYDROPTÈRE

Current world's fastest open sea sailing yacht

Length: 18.28 m (60')

Beam: 24 m (78.7')

Official top speed: **55.5** knots (+102 km/h)

Launching: 6 to 9 months to go



L'HYDROPTÈRE.CH

2014-2023 fastest Switzerland sailing yacht

Length: 12.5 m (40')

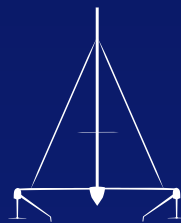
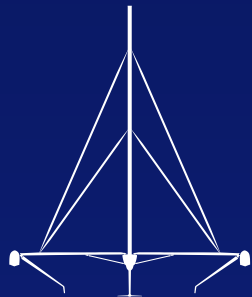
Beam: 10.40 m (34')

Sails at x2.7 wind speed

Launching: September 2023

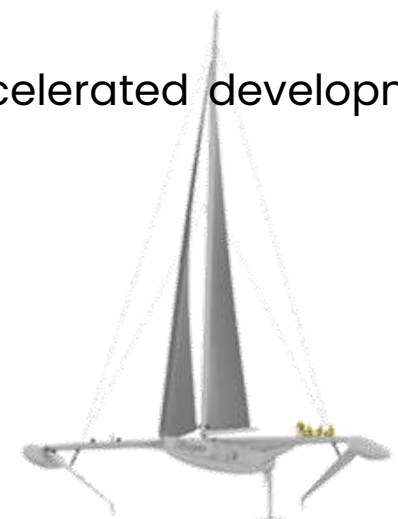
OUR ACTIVITIES

- **R&D hosting services**
- **Internal collaborative R&D projects**
- **Communication & incentives**

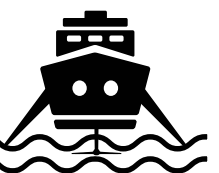
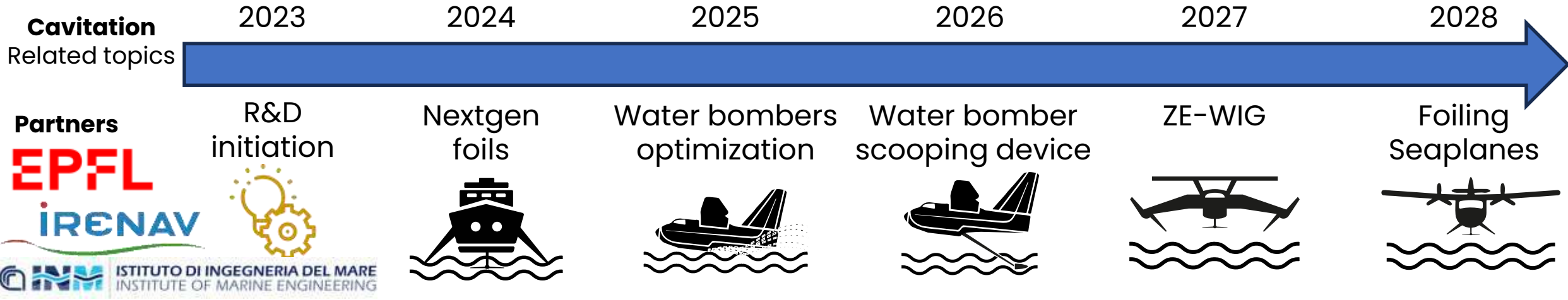


R&D HOSTING SERVICES

- L'HYDROPTERE 2.0 proposes a **business hosting R&D projects/experiments aboard its 2 hydrofoil boats.**
- *L'Hydroptère* and *L'Hydroptère.ch* operate at **very high speed** (leading to **extreme loads**) in a **challenging environment** (salted water, waves, wind, humidity).
- This makes our sailing yachts **ideal experimental testbeds for innovations** from a wide range of sectors (maritime, aeronautics, industry).
- Here are some examples of experiments/systems to onboard our boats:
 - Experimental **models to test for aerodynamics in water** at high Reynolds numbers.
 - **Mechanical** systems (instrumented and connected foil or appendage for monitoring; ball joints, seals or bearings for fatigue resistance under extreme stress conditions).
 - **Electronic** systems (sensors, monitoring devices) for testing ageing in hostile environment.
 - **Coatings, paints**, covering, etc. for accelerated ageing tests.
- An experiment taken from the **proof-of-concept stage (TRL 3)**, can have accelerated development onboard one of our boats to reach **higher TRL level (TRL 7-8)**.



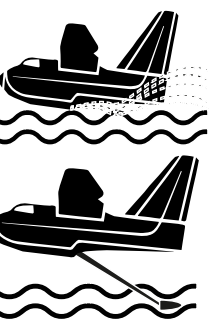
INTERNAL R&D ROADMAP: DUAL APPLICATIONS



Nextgen Foils

An innovative foil concept efficient from 10 to 80 knots (master cavitation inception & adaptive foil shape with morphing, kinematics)

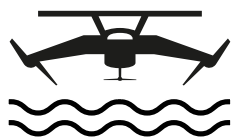
Fast patrol vessels (interceptors): higher performances, decreased URN and acoustic signature



Water Bomber Aircrafts Optimizations:

- 1/ Optimize amphibious aircrafts scooping system (60 y.o.)
- 2/ Device (pole) to scoop without landing compliant to non-amphibious waterbomber aircrafts (A400M, C130...)

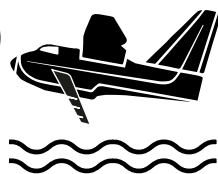
Improved firefighting efficiency & reduced energy consumption;
Improved safety (crew and aircraft)



Wing-In Ground Effect Aircrafts optimization

- 1/ Supplier of Foils for landing/taking-off on moderate seas
- 2/ Manufacturer of 0-emission WIG with Foils

Military freight & patrol & drones low-signature flight, low operating costs, high performances, zero emission



Seaplanes operating range improvement

Seaplanes foils supplier EASA FAA certified for landing/taking-off on moderate seas

Civil and Military seaplanes & drones

COMMUNICATION



L'HYDROPTERE 2.0

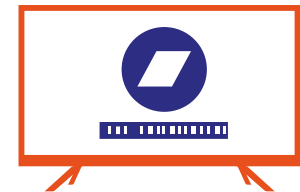
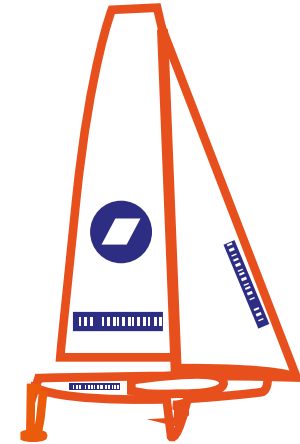
GET YOUR COLORS ON BOARD AND BENEFIT A GLOBAL VISIBILITY

Display your colors :

- On our boats (sails, hulls...)
- With our team (clothes, vehicles, lifestyle...)

Communication opportunities :

- Our TV, magazine, news papers appearances
- Our social media
- During our R&D navigations
- Prestigious events participation
- Exhibitions during popular events
- Embark employees, customers, prospects, VIP
- With optimizations : Racing (ex. Fastnet) & records attempts (ex. Mediterranean crossing...)



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