

FOILS BENEFITS

Significant improved navigation conditions for crew on board. Underwater wings are used to lift the boat 20 cm above the water surface.





SUBSTANTIAL REDUCTION OF FATIGUE & INJURIES



ENHANCED COGNITIVE BENEFITS



ENHANCED PERFORMANCE

- +20% average speed
- -20% to -35% fuel consumption depending on the payload and sea state
- Increased operating range at sea by at least 20%

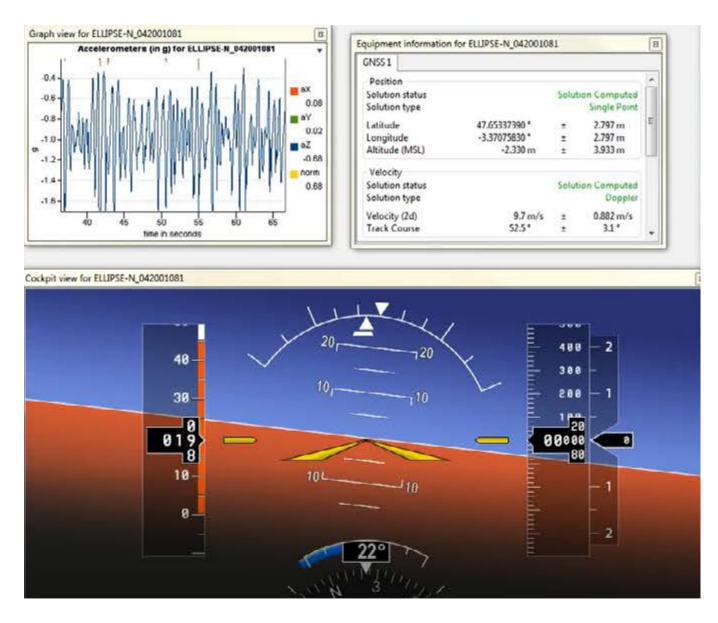


SEA-KEEPING PERFORMANCE & EFFICIENCY EVEN IN ROUGH CONDITIONS

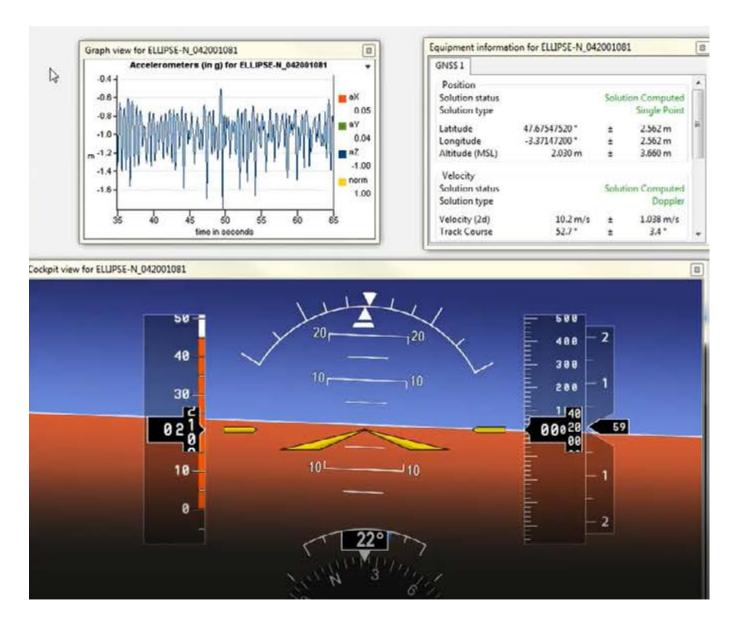
- Quiet running & discretion (less drag, less waves, less noise)
- Safety on board in the most demanding conditions during missions
- Increased stability: shooting during navigation (guns, missiles guidance, ...), better data acquisition for USV

INCREASED STABILITY & SEA-KEEPING PERFORMANCE

Data comparison of a navigation on Airshark 7.65 - Sea state 2 - Facing sea



WITHOUT FOILS



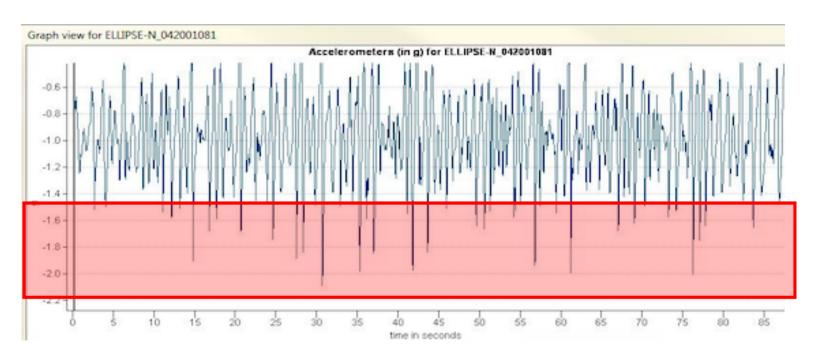
WITH FOILS

IMPACT COUNTING METHOD

Testimonial of a Special Forces Pilot following a navigation with waves of about 1.2m/1.4m at 30-35 kts:

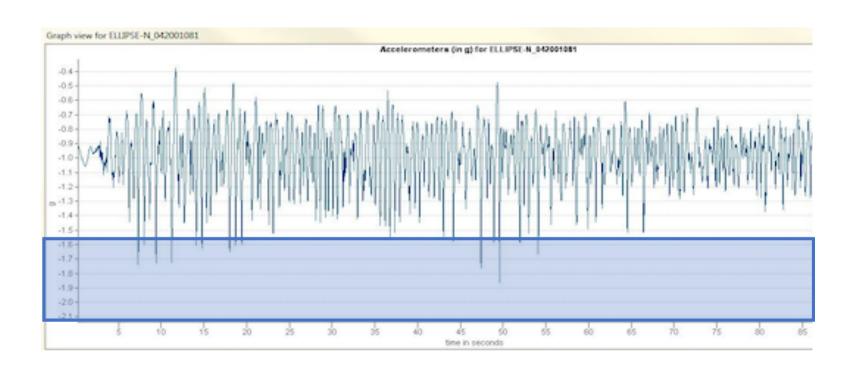
"Incredible sensations with your systems! I'm very impressed." (Oct.-2020)

Facing Sea - Level 2 measures campain:



RETRACTED FOILS: 21 CHOCS - MAX 2 G

- Vertical accelerations
- Shocks over 1,6 G
- 20 knots
- 90 second run cut





WITH FOILS: 7 CHOCS - MAX 1,8 G

- Shocks reduction by 67%
- G reduction by 10%

SEA STATE	2	3	4
COMFORT	+++	++	+

PROJECT 2020: E-FlyCO, AN ASSAULT FLYING RIB





PROJECT CARRIED OUT WITH THE FRENCH SPECIAL FORCES





- SUITABLE FOR VIOLENT ASSAULTS
 - Hull & deck flush
 - Fully retractable foils
 - Hydraulic raising/lowering of the front foils
 - Hydro-electric regulation of the rear foils





LAUNCHING: DEC. 2020

FURTHER EXAMPLES OF FOILS APPLICATION



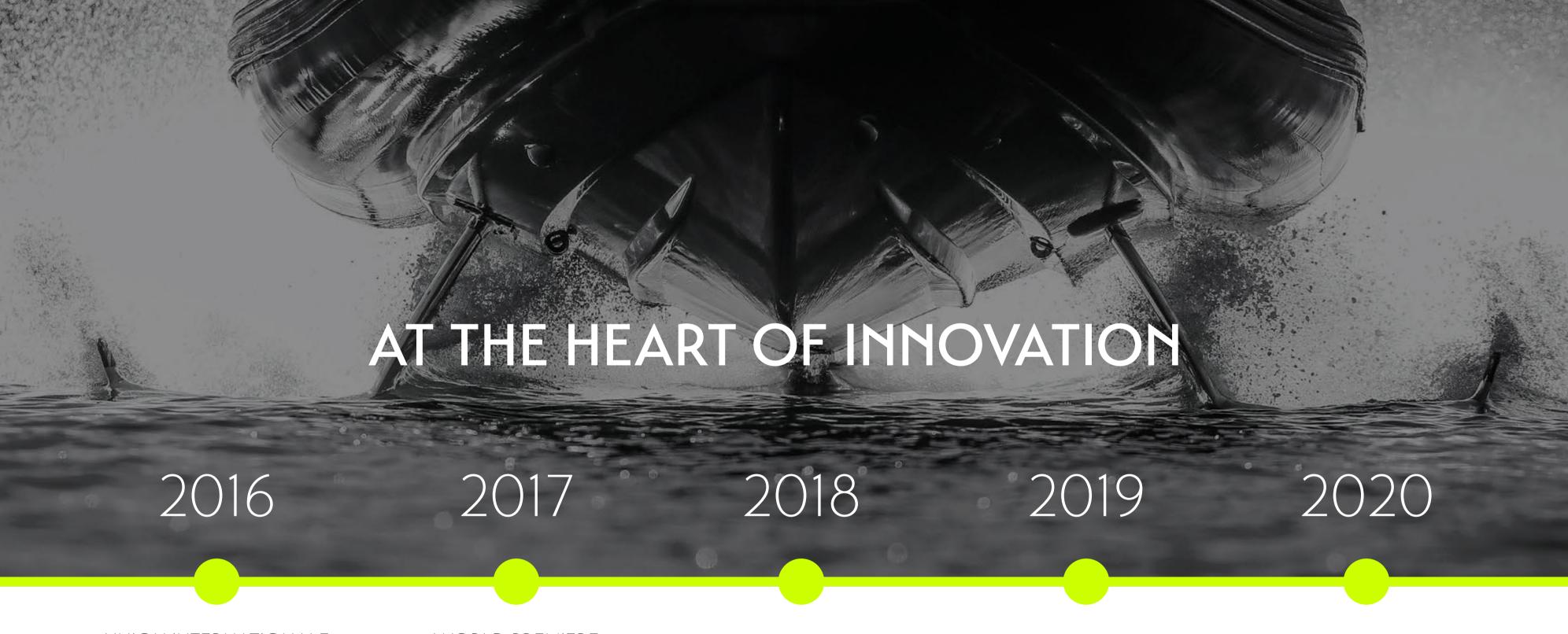




E-DIDP: TFV PROJECT Troop transportation Flying Vector
High Speed Flying boat 20M
Very stable to carry 16 soldiers at 400 NM



USV MOTHER PROJECT "SURCOUF"

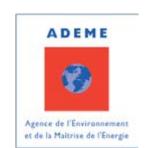


UNION INTERNATIONALE MOTONAUTIQUE "Special Green mention"

WORLD PREMIERE First Flying RIB



ADEME "French Government Green Agency"



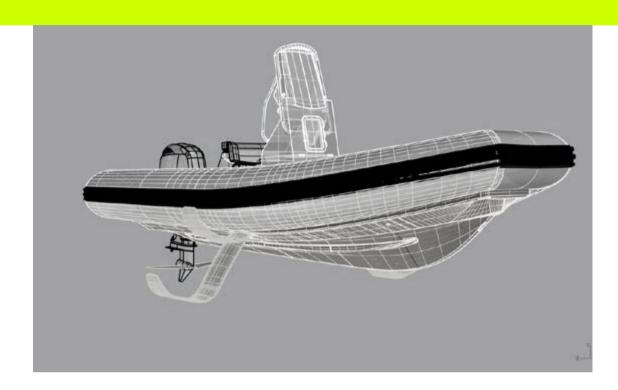
INNOVATION OF THE YEAR French Army - Special Forces

E-FLYCO PROJECT





TECHNICAL ANSWERS



FIELDS OF EXPERTISE

- Naval architecture
- Servo control engineering
- Composite manufacturing (classic or robot mode)
- Prototyping



DESIGN OFFICE

- Collaborating with boat builders
- Study and design
- Data analysis
- Simulations: VPP, CFD, FEA

EXPERT IN DESIGN & MANUFACTURING STABILIZATION SOLUTIONS FOR MOTORBOATS

OUR ACTIVITY

PROJECTS

RESEARCH AND INNOVATION

- OUR OFFER
 - Customized studies
 - R & D
 - Proof of concept and prototypes
 - Other projects
- ON SHOCK MITIGATION
 ON ALL TYPES OF BOATS
 - Custom measurements
 - Data analysis and debriefing



FLYING BOAT

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