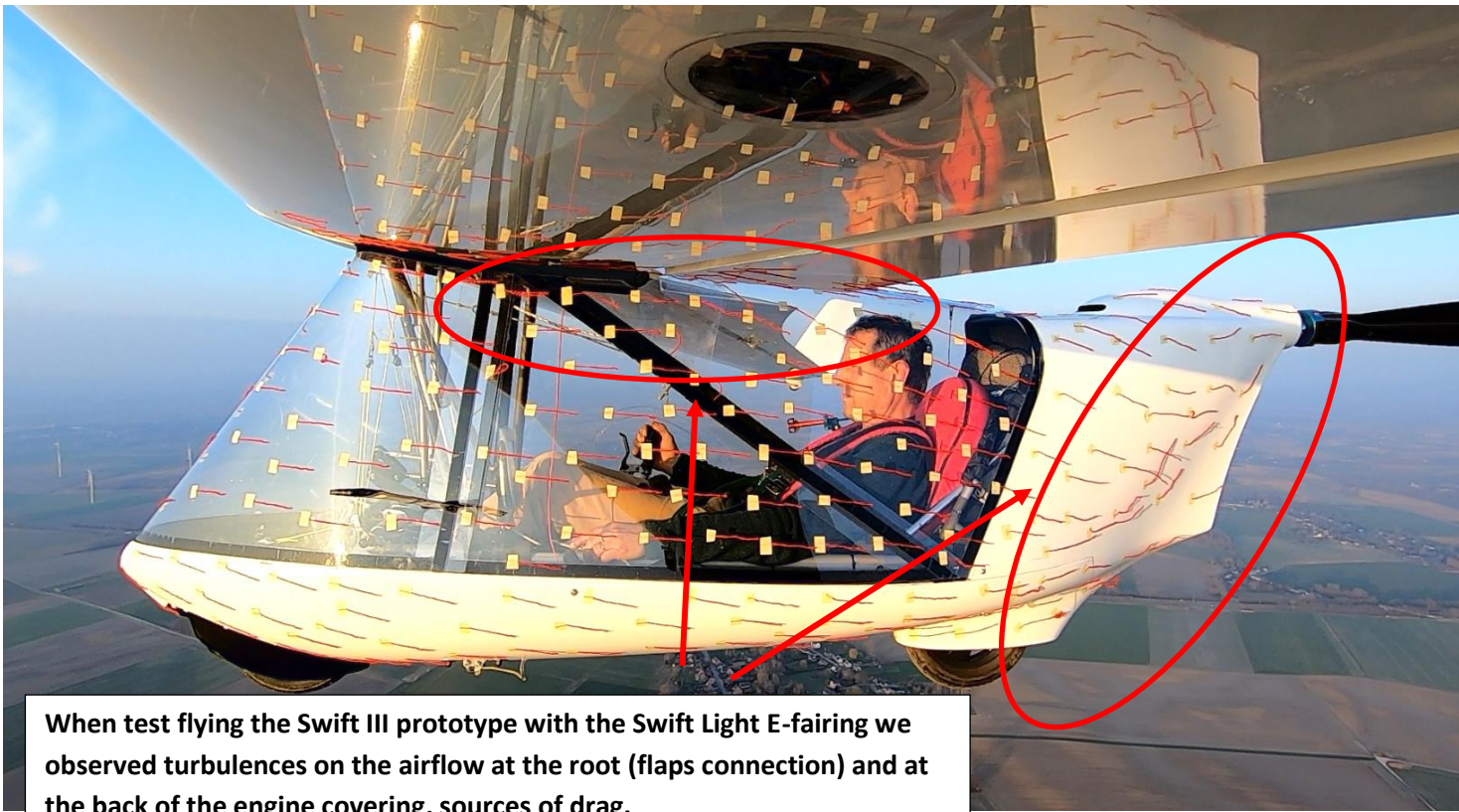


Swift III new cage & fuselage : test flights 28-29/01/2023

1. Comparison airflow Swift Light E fairing vs Swift III E fairing



When test flying the Swift III prototype with the Swift Light E-fairing we observed turbulences on the airflow at the root (flaps connection) and at the back of the engine covering, sources of drag.

A new shape was designed and validated under CFD analysis.

The CFD analysis predicts increasing in performances therefrom for about 10 % with clean airflows

Test flights performed with tufts on the fuselage shows that the new Swift III fuselage solves the problems 😊.

Expected performances are meet - especially at high speed !!!



Same clean airflow at 120 km/h 😊 😊 😊!



2. Some details about the new cage (prototype)

- Adjustable back support and rudder which allows pilot from 160 cm to 200 cm (tested !)



- Openable canopy



- Little 'ears' to close the gap between flaps and canopy



- Bended stick (highly ergonomic) to avoid side bubble.



- Double pedals – wheels and winglets - rudder (conventional sense!) .
Rem : wood on prototype will be replaced by composites



3. General observations:

- Comfortable, elegant and performant cockpit
- Easy to taxi on grass field.
- VERY strong landing gear!!!! Tested ...
- Accessible inflate inner tube.
- Easy dismount for front and back wheels
- Pilot from 160 cm to 200 cm

Cage and fuselage are validated.

Next step is to build the templates for cage production.

Production of the fuselage is ready to start