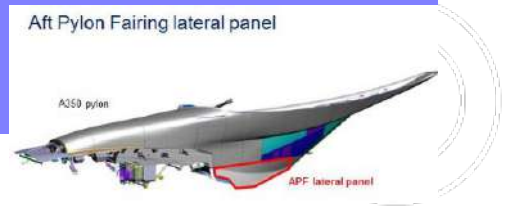
SET-UP IN PROGRESS COMPINNOV HT

COMPosite Materials INNOVation for High Temperatures

Q4 2020

Objectives: Metallic parts replacement by high temperature composites for aero structural applications.



€1.3 M

24 months

AIRBUS, SAFRAN, LAUAK, SPECIFIC POLYMERS

15 Delivrables

5 FTE

Principale Activities

- Development of resin raw materials
- Impregnation pilot for carbon UD tapes
- Scale-up with industrial prepregger

WP	Main Tasks	Profile	Ratio	Duration (months)	Duration: Year 1 / Year 2
0	Project Management	• Project Management	30%	24	
1	HT Resin Systems Analysis and Screening	• Composite Materials Engineer • Platform Tech. • Post-Doc	30% 20% 100%	24 24 12	Task 1.1 Task 1.2 – HT systems processing parameters Task 1.3 – HT systems mechanical/FST characterization
		Deliverables WP 1			D1.1 D1.2 D1.3
2	Carbon Tape Impregnation with HT Resin Systems and Consolidation	• Composite Materials Engineer • Composite Impregnation Specialist • Platform Tech. • Engineering Platform Engineer	70% 20% 80% 20%	24 24 24 24	Task 2.1 – CF screening and sizing Task 2.2 – Impregnation testing and scale-up assessment Task 2.3 – Consolidation and characterization
		Deliverables WP 2			D2.1 D2.2

Value Proposition

WP 1: HT Resin Systems Analysis and Screening

State of the art, resin system screening, REACh analysis

HT composites processing parameters assessment: physico-chemical analysis

Mechanical and FST characterization

WP 2: UD Carbon Tape Impregnation with HT Resin Systems and OoA consolidation

Carbon Fibers screening and Sizing

UD impregnation testing and scale-up assessment

Hand lay-up and Out of Autoclave consolidation

FRENCH INSTITUTES OF TECHNOLOGY