

## FINAL WORKSHOP - COMMUNION PROJECT

Net-shape joining technology to manufacture 3D multi-materials components based on metal alloys and thermoplastic composites

18 JULY  
2019

Barcelona



### SUMMARY

The main objective of the **European project ComMUnion** has been to develop a novel solution for the manufacture of multi-material 3D components, metal/thermoplastic carbon fibre composite in a productive manner and streamlining the cost, dealing with the whole value chain.

The **purpose** of this Workshop is to **present the final results achieved**. Among the results obtained it is found a new multi-stage robotic solution with flexible and high performance surface conditioning cell and a multi-scale modelling system. ComMUnion has showed, also, the possibilities of recycling/reuse of the components and achieve a completely automated multi-material 3D connection technology for its application in automotive and aeronautics. The system developed in the project will reduce by 20% the consumption of critical and high cost materials.

### ADDRESSED TO

Addressed to professionals, companies, technology providers, clusters and research institutes in the automotive and aeronautical sector.

### PLACE

#### **GESTAMP R&D Barcelona**

Poligono Industrial Can Estella

Passatge Edison, 4

08635 Sant Esteve Sesrovires (Barcelona)

### DATE AND SCHEDULE

Date: 18<sup>th</sup> of July 2019

Schedule: from 09.20 to 14.30 hours

### REGISTRATION

Free Registration. **Limited seating.**

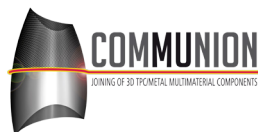
To formalise the registration, please, fill out the form and send it to [eventos@aimen.es](mailto:eventos@aimen.es) **before the 24<sup>th</sup> of June.**

**On the 4<sup>th</sup> of July, the registration will be confirmed** to the attendants.

## PROVISIONAL AGENDA

09.00 to 09.20 h	<b>Welcome coffee &amp; Registration of attendees</b>
09.20 to 09.30 h	<b>Opening</b> Ricardo Molina. <i>AUTOTECH (GESTAMP)</i>
09.30 to 09.45 h	<b>ComMUnion at a glance</b> Pilar Rey. <i>AIMEN Technology Centre</i>
09.45 to 10.00 h	<b>New materials and joining processes for automotive sector</b> Ricardo Molina. <i>AUTOTECH (GESTAMP)</i>
10.00 to 10.15 h	<b>Advanced multi-material structures for aeronautic Industry</b> Pedro Bonillo. <i>ACITURRI</i>
	<b>Communion supply chain technologies</b>
10.15 to 10.25 h	<b>Texturing/Cleaning process</b> Steffen Wagner. <i>LUNOVU</i>
10.25 to 10.35 h	<b>Tape placement process</b> Roel Baas. <i>AFPT</i>
10.35 to 10.45 h	<b>Temperature close loop control with IR cameras</b> Carlos Fernández. <i>NIT</i>
10.45 to 10.55 h	<b>Quality diagnosis system</b> Carmen Pérez. <i>TECNATOM</i>
10.55 to 11.05 h	<b>VCSELS heat assisted system</b> Armand Pruijmboom. <i>PHILIPS</i>
11.05 to 11.15 h	<b>CAX solutions</b> Jean Claude Morel. <i>MISSLER</i>
11.15 to 11.25 h	<b>Multi-material &amp; Multi-scale simulation</b> Sebastian Müller. <i>ESI</i>
11.25 to 11.35	<b>Industrial cell integration</b> Rui Cancela. <i>MOTOFIL</i>
11.35 to 12.30 h	<b>Lunch</b>
13.00 to 14.00 h	<b>Demonstration of prototype ComMUnion production cell</b>
14.00 to 14.30 h	Q&A/Discussion/Closing

## ORGANISES:



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