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“High-performance Carbon-based composites with Smart properties for Advanced Sensing Applications”



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Working Group	WG 2
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1 Introduction to the deliverable content

Working group 2 is expected to be a strong connection between industry and academia and its activities will focus on the identification of existing gaps in common industrial processes along with the main challenges that the industrial partners are currently facing towards technology advancements and the launch new smart products to the market.

Another important role of WG2 is related to find innovative ways to involve and connect academia and industrial partners to practical sessions, where end-users and scientists/researchers can meet to discuss and identify commercial market gaps and industrial challenges that need to be tackled. The present deliverable deals with the description of the activities organized for M12 and M24 deadlines in terms of Practical sessions. In the following the activities will be described in detail.

2 Practical sessions between academia and industry (M12)

The first year of Cost Action was characterized by the pandemic Covid Crisis and no possibility of organizing physical meeting between partners was possible. WG2 gave its contribution to the first Summer school that was organized and that was full online event. In this occasion, a virtual factory tour was organized thanks to video and live discussion bringing academia members together with students inside of Dallara premises. We are aware of the fact that this situation can not be considered a real practical session, but it demonstrate the idea to carry on this activity despite distances and difficulties.

3 Practical sessions between academia and industry (M24)

As far as the second year is concerned, part of the period was still influenced by a relative difficulty in moving of the project partners, however WG5, together with WG2 organised a Training school which was held in Politecnico di Torino (Polito) and Dallara Automobili, Italy, 13-16/6/2022. Also WG4 and WG6 gave a important contribution to this event

In this situation Academic professors together with company researchers met and discussed some activities related to the Cost Action, and Industrial researchers gave their perspective during some lessons dealing with:

- Fatigue in composites: an industrial approach
- Lab activities in an industrial context

Considering the great success of the event with 30 in person participants and several online ones, the organization of practical sessions/workshop after or during a training event can be considered a good opportunity to join together both physically and virtually researcher from both environments.

In the next months a meeting with the other WGs, in particular WG3-4-5 and with Wg1 and 8 is planned in order to define the future steps for M36 and 48 practical sessions.



Figure 1: A lesson held during the training event in Dallara



Figure 2: A moment of discussion during the event in June 2022.



Figure 3: Group photo after the end of the training school.