



Requirements for a Digital Materials and Product Passport (DMPP) for Composites

A joint workshop of the CU Working Group Sustainability and the DigiPass project

On February 18, 2025, 1:00 pm – 5:00 pm

Location: REGUS Stuttgart, Königstraße 10C, 70173 Stuttgart

Moderation: Dr. Bastian Brenken, CU

In this workshop, organized by the DigiPass project consortium as well as the CU working group “Sustainability”, we want to collect and put together requirements from industry and academia for a Digital Materials and Product Passport (DMPP) for Composites. By many, the DMPP concept is seen as an essential tool to carry information along the value chain to enhance and simplify the circularity of products, e.g., through simpler reuse or recycling. In addition, a better availability of information can foster the overall innovation process. With the entry into force of the Ecodesign for Sustainable Products Regulation (ESPR) of the European Commission in July 2024, the topic has gained a lot of visibility and momentum. The DigiPass project as a coordination and support action project (CSA) is an important building block in the design of its implementation to define the details and specifics of a digital product passport for the composites industry.

In this light, this workshop is an important instrument to collect the requirements and demands of industry towards a DMPP. How should a DMPP look like from an industry point of view? Which information can be included, which must be protected? How can the relevant IP be protected efficiently? Who should operate a DMPP?

Join us on February 18 in Stuttgart to bring in your thoughts and requirements and help us define the relevant concepts and shape future regulations!

CU in Stuttgart!

Agenda	Workshop “Requirements for a Digital Materials and Product Passport (DMPP) for Composites”, 18.02.2024
12:30 pm	Registration and Networking with Coffee
1:00 pm	Welcome and News from Composites United e. V. Dr. Bastian Brenken, Composites United e. V.
1:10 pm	Introduction of the DigiPass project Dr. Natalia Konchakova, Hereon
1:20 pm	ESPR and DMPP for Composites – A Status Quo Dr. Bastian Brenken, Composites United e. V.
1:40 pm	Workshop – Introduction
1:50 pm	Workshop – Requirements for a Digital Materials and Product Passport (DMPP) for Composites – Part 1 Covered Aspects: <ol style="list-style-type: none">1) Required data and data collection<ol style="list-style-type: none">a. What key information (material, part, assembly, etc.) need to be considered for a Composites DMPP?b. Which information can be shared, which information will not be shared?c. How should data be obtained for a DMPP?2) Standards and Ontologies/Taxonomies in data handling<ol style="list-style-type: none">a. How do you store relevant data? How is it stored in your company/institute?



- b. Which data formats do you prefer?
- c. Do standards exist? Which ones are favorable?
- d. Which ontologies/taxonomies are you aware of? Which ones are you using?

We will discuss in the format “World Café” with 2 moderators for each topic

2:50 pm **Coffee Break with Networking**

3:10 pm **Workshop – Requirements for a Digital Materials and Product Passport (DMPP) for Composites – Part 2**

- 3) IP protection and data management
 - a. How can IP be secured in a proper way (e.g., NDAs, Standardized certification procedures for access, etc.)?
 - b. Plan ESPR: Decentralized with Back-up. What do you think? Where should the data be stored (Central vs. Distributed)?
 - c. Data management: How should data be documented? How should it be accessed by players along the value chain (e.g., access through secured platforms or similar)?
- 4) Utilization / IT-Infrastructure and Commercialization / Business Models
 - a. How can an exploitation instrument (e.g., a platform) of the Composites DMPP be run economically sustainable?
 - b. How are data providers/data consumers be treated (e.g., compensation for provision of data)?
 - c. Who should run it (a company, an authority, etc.)?

4:10 pm **Coffee Break with Networking**

4:30 pm **Presentation of the results & further Q&A**
Moderators of all groups

4:55 pm **Wrap up and Next Steps**

5:00 pm **End of Event**

In the evening, you can join a get-together event at 6:30 pm with a cozy dinner in the “Alte Kanzlei” in Stuttgart. This dinner serves as pre-networking event for the **“6. FACHTAGUNG COMPOSITE RECYCLING & LCA”** on February 19, see below. The dinner will be at your own expense. If you are interested to join, please contact Bastian Brenken (bastian.brenken@composites-United.com) until **Friday, Feb. 14, 2025**.

On February 19 in Stuttgart:

**„6. FACHTAGUNG COMPOSITE RECYCLING & LCA“
@LOOK21 in Stuttgart**

<https://composites-United.com/events/6-fachtagung-composite-recycling-lca/>

