



ALI NED

CONSTRUCTION - PULP AND PAPER - WOODWORKING - TEXTILE - BIO-CHEMICALS

Stakeholder engagement

Patrick Reumerman (BTG)
Reumerman@btgworld.com



Funded by the
European Union

This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement N° 101059430

ALIGNED Stakeholder engagement

- **Objectives:**

- Communicate, disseminate results, gather feedback and getting buy-in from a network of relevant stakeholders on the methodologic and sector-specific work of ALIGNED
- “Open science” - active stakeholder engagement throughout the project to sound out on and guide methodology development

- **Activities**

- Developing and maintaining a Stakeholder Network
- Two series of sector- specific surveys and workshops – one at the start of the project and one at the end
- Three Methodology Workshops (beginning, middle and end of project)

Join our stakeholder network!

Scan the QR or click on the link on the chat!
Or find it later on the ALIGNED website (alignedproject.eu)

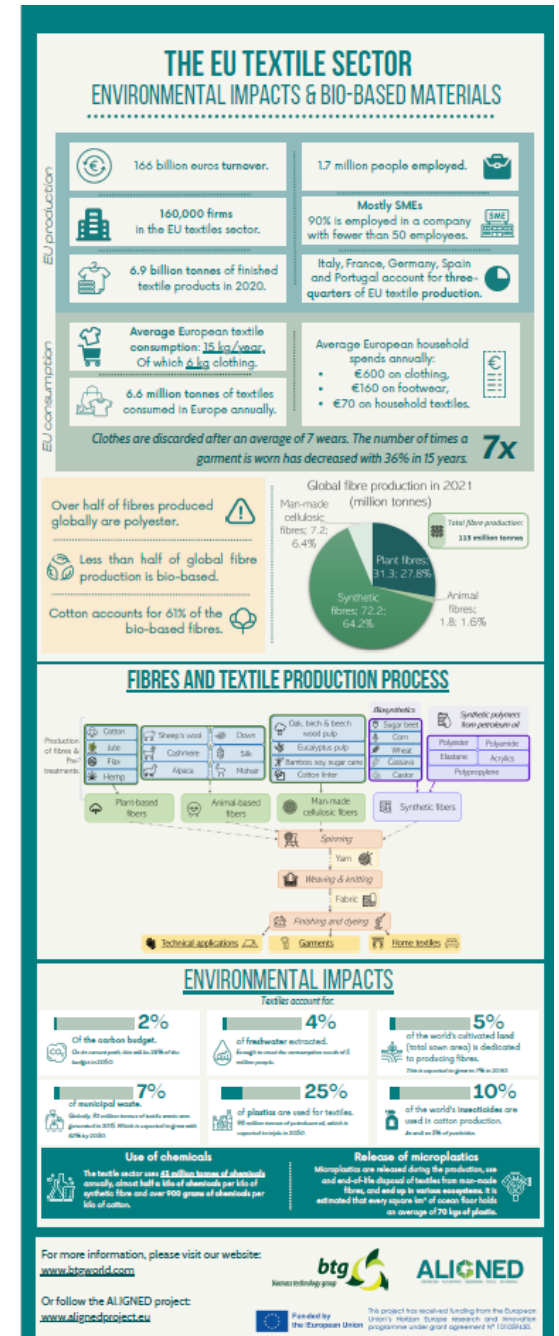


- **First round of Consultations and Workshops:**

- Feedback was requested on “sector overviews” – overviews on the specific industrial bio-based sectors and the environmental impacts
- Additionally, information was sought on how the sector environmental impacts were measured and what role the stakeholders saw for ALIGNED.

- **Results of the first round of Consultations and Workshops:**

- **Significant environmental impacts** were mentioned. Of these GWP, waste generation, energy use, toxicity of chemicals, and loss of biodiversity were rated as the most important, though there were differences between sectors; e.g. in the textile sector toxicity of process chemicals was considered more of an issue than compared to other sectors such as construction and woodworking
- There were **many environmental assessment methods** in use, of which Life Cycle Assessment, and derivatives from that such as the Environmental Product Declarations (EPD) were for all sectors considered to be the most important



• Results of the first round of Consultations and Workshops (cont.):

- Life Cycle Assessments were judged to be **integral, comprehensive, facts-based, and systematic**
- Despite that, many **issues** with the use of LCA were mentioned (e.g. Lack of harmonisation, Inconsistency and lack of background data, data reliability, Costly and time consuming, etc.)
- Many suggestions for **improvements** were made, such as Harmonisation of methodologies, More understandable and comparable LCA results, Consistent determination methods and uniform allocation principles, Clarity about biogenic carbon sequestration, Best practices in assessing biodiversity footprints, etc.

ALIGNED Pulp and Paper Sustainability Workshop

24th of May 2023
10.00 – 11.30, Online

Join us!

Sign up here!

OR



Cannot wait?
Get familiar with our findings!
Click the box below and read the draft sector overview.

Read the draft pulp and paper sector overview here!



Joining the pulp and paper sustainability workshop is a great opportunity to get acquainted with the ALIGNED project, to give your opinion and help us shape the project and give fitting recommendations about environmental assessments, more specifically on Life Cycle Assessments (LCA), that apply to the whole pulp and paper sector.

Agenda

10.00 – 10.05	Welcome and practical issues
10.05 – 10.20	Introduction of the project
10.20 – 10.35	Presentation of the sector overview
10.35 – 11.20	Interactive discussion on environmental sustainability in the sector
11.20 – 11.30	Wrap-up

ALIGNED is an EU Horizon Europe project that aims at harmonizing, simplifying, and advancing the use of Life Cycle Assessment (LCA) and collaborate with industries and representatives from five bio-based sectors: construction, woodworking, textiles, pulp and paper, and bio-chemicals.



This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No. 101059430.



- **Second round of Consultations and Workshops (ongoing):**

- The ALIGNED methods were presented as applied in a sector-specific case study, and feedback was requested on the applicability of these – and other ALIGNED methods

- **First impressions of the second round of Consultations and Workshops:**

- **General positivity** about the new methods, with “dynamic carbon accounting” and “prospective LCA” named often
- **PEF more prominent** in the second round than before, showing willingness to change
- **Allocation method** – attributional or consequential - showed the largest differences of opinion between sectors

Your input is valuable—let's shape the future of sustainable bio-chemicals together!

7 MAY 2025 | 10:00 - 11:30 (CET)

**ALIGNED 2ND
BIO-BASED CHEMICALS
SUSTAINABILITY WORKSHOP**



This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement N° 101059430.

ALIGNED
SUSTAINABLE • PARTNER • WORKING • TOGETHER



Funded by the
European Union

This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement N° 101059430

• Methodology workshops

- Not sector-specific, but with more attention on the methodological development in ALIGNED
- Held in interactive format
- 3 workshops, each containing a general, a method-specific and an interactive part.

• Some results of the Methodology workshops

- **Quite some interest** from the various stakeholders
- **“Applicability”** was seen as the most important factor for the development of the ALIGNED methods (more than “scientific soundness” and “relevance”)
- As ways to improve applicability, there was a lot of interest in **“detailed guidance”** (more than e.g. “provision of pre-calculated data”, or a “tiered approach”. Problems that were foreseen related to data availability, compatibility and (perceived lack of) expertise
- **To broaden the appeal** of the methods, stakeholder suggestions were to integrate it in commercial software, and/or to standardize the formats and terminology.

Problem: is the supply of biomass constrained?

“Wood needed for future timber constructions can come from **increasing forest harvest** from managed forest plantations and natural forests, **redirecting existing wood uses**, or **establishing new forest plantations**” (Mishra et al. 2019)

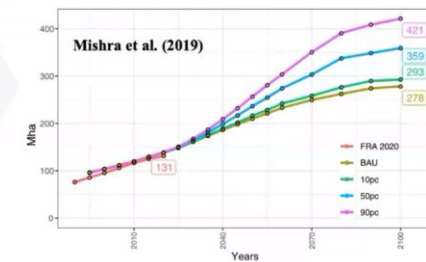


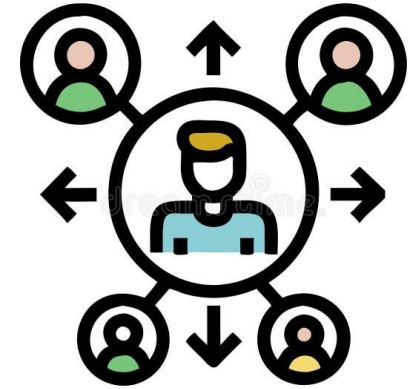
Fig. 1 | Evolution of the global forest plantation area between 1995 and 2100 in an SSP2 world. Business-as-usual (BAU) scenario is compared to the 10%, 50%, and 90% (10 pc, 50 pc, 90 pc) engineered wood demand scenarios where 10%, 50%, or 90% of the new urban population will live in wooden buildings, respectively.

Mishra, A., Humpenöder, F., Christini, G., Reyer, C.P.O., Beese, F., Bodinik, B.L., Schellerhuber, H.L., Lotze-Campen, H., Popp, A., 2022. Land use change and



- **First observations on the ALIGNED stakeholder interaction**

- Many stakeholders were engaged, though possibly the target group outreach was skewed towards the research/scientific community
- The combination of a sector-specific surveys and workshops to gather feedback worked complimentary: in-depth commentary versus interaction
- The ‘open science’ approach - as practiced - appeared to work well with respect to the applicability, dissemination and communication aspects. It is less clear if it resulted in methodological adjustments



THANK YOU
AND SEE YOU SOON

GET CONNECTED



@ALIGNED_HE



ALIGNED project



www.alignedproject.eu

Patrick Reumerman

BTG Biomass Technology Group
Reumerman@btgworld.com



Funded by the European Union Horizon Europe research and innovation programme under grant agreement N° 101059430, Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.

