



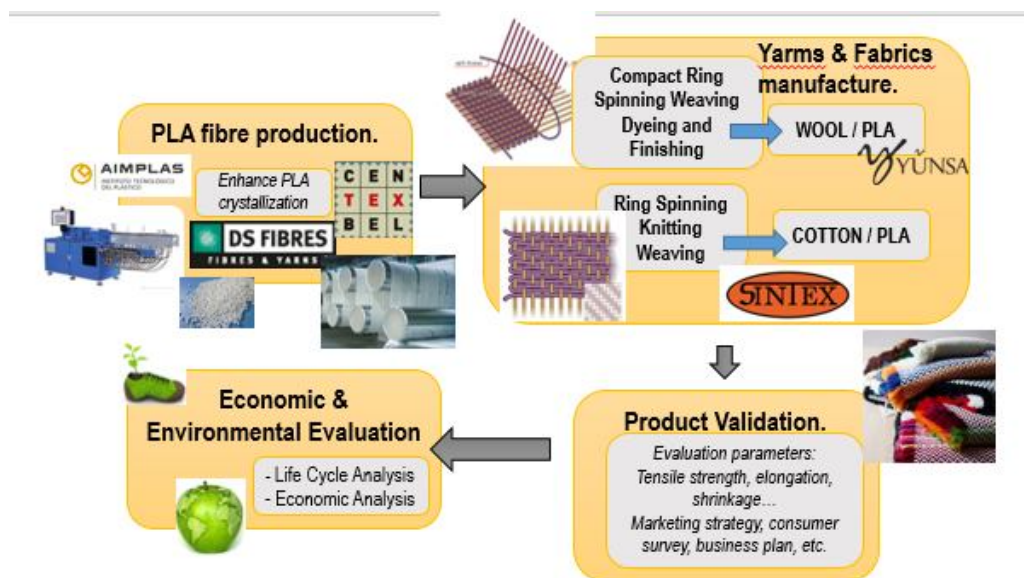
FIBFAB

NEWSLETTER

Issue 1 – July 2017

What is FIBFAB project about?

FIBFAB will improve the performance of PLA based fibres (there are no commercial PLA grades with enough thermal and mechanical resistance with a competitive price to be used in textile applications) by adapting its processability and functionality, maintaining biodegradability properties, to reach the same process speed as the current materials (PES).



Overview of the partners and their role in the project

Objectives and advantages

FIBFAB project aims to industrialize and successfully launch the production of biodegradable and sustainable polylactic acid (PLA) based fabrics (wool/PLA and cotton/PLA) for the applications in casual, protective and workwear clothing, and to overcome the current limitations of PLA fibres as a real alternative to current fabrics (wool and cotton combined with polyester fibres).

- To obtain a final clothing product 100% bio-based and biodegradable that meets the mechanical performance requirements of the textile sector.
- To improve the thermal resistance of PLA fibres (target > 100°C).
- To improve extrusion process for PLA fibres (fine fibres less than 3 dtex, friction control in ring spinning process) to be able to spin PLA blend fibres at high speeds.
- To reduce the market dependence of Asian countries and improve the competitiveness of the textile sector by creating a new concept of clothing that fits the expectations of customers with high ecological awareness.

FIBFAB - Progress so far and what's next

FIBFAB is a 24 months project which started on 1st of January 2017. Since the project started the consortium has been working on the development of new bio-based and biodegradable fibres (PLA/cotton and PLA/wool) for clothing applications.

This work will allow the team to select the most efficient materials and lead onto the development of the final garments 100% biodegradable.

Since the official start of FIBFAB, the project partners have already met twice.

○ *Project Meetings*

The project consortium met for the first time in Valencia, Spain last 31st of January at AIMPLAS facilities. During the meeting, partners could plan their activities for the upcoming months and visit the host infrastructures, more than 20 pilot plants with different transformation processes of plastic materials as well as internationally accredited laboratories that comply with the requirements of the ISO 17025 standard.

The second meeting took place the 15th of June and was hosted by CENTEXBEL. The meeting also included a tour of CENTEXBEL facilities, showing pilot extrusion lines for yarn, monofilament/tape and bicomponent extrusion, pilot lines for coating and finishing of yarns and textiles, and equipment for characterisation of fibres and yarns. The project partners discussed the performed activities since the beginning of the project and planned the following ones.

During the next 6 months, the consortium will continue to work on the development and selection of materials and complete the initial material evaluation work and new fibres characterization.

○ *Project website and twitter*

The project website is already running since last March. It contains all relevant information on the project and its partners. It will publish the main results as well as topic events and news. The website also serves as a gate to the upcoming social media activities of the project.

○ **FIBFAB dissemination activities**

The project partners have been doing different dissemination activities in the last months. FIBFAB has been presented in different events, being the most prominent the following:

- Poster shown at the VI International Seminar Biopolymers and Sustainable Composites (Valencia 1&2 March 2017)



- AIMPLAS presented the project at Sost_CDTI (21th March, Brussels) as a success story of FTI program.
- International R&D Collaboration Summit&Fair in Turkey by YÜNSA
- Techtexil 2017 (09-12 May 2017). SINTEX, CENTEXBEL and YÜNSA had a stand at the fair and had the opportunity to promote the project.
- Sabancı Golden Collar Awards 2016 Innovation Category
Every year Sabancı Golden Collar Awards is arranged to reward best projects of Sabancı Companies. Yunsa got award with FIBFAB project at Innovation Category.



○ **Upcoming events**

- AIMPLAS will participate in the **9th Central European Conference** which will be held at the Faculty of Textile Engineering, Technical University of Liberec from 11th to 13th September 2017.
- CENTEXBEL will be present at the **DORNBIRN-MFC 2017** (from 13th till 15th September 2017)
- YUNSA will have a desk at the following events where the project will be presented to current and potential customers:
 - **LONDON TEXTILE FAIR 2017** (19-20 July 2017)
 - **Premier Vision 2017** (19-21 September 2017)
 - **Munich Fabric Start 2017** (5-7 September 2017)



Stay in Touch with FIBFAB

You can stay up to date with the FIBFAB project or contact the consortium directly via:



fibfab@aimplas.es



<http://www.fibfab-project.eu/>



@fibfabproject

About Horizon 2020 – Fast Track to Innovation Programme

This project has received funding from the European Union's Horizon 2020 Fast Track Innovation Pilot programme (H2020-FTIPilot-2016-1) under grant agreement No 737882.

The FTI pilot is the only fully-bottom-up measure in Horizon 2020 promoting close-to-the-market innovation activities that is open to all types of participants. FIBFAB project is one of the 15 funded projects of a total of 280 projects proposals that were submitted in the fifth round of the scheme.

FIBFAB Partners

AIMPLAS' fields of work are related to technological research and development on thermoplastic and thermosetting plastic materials & products, its transformation processes and their recyclability and sustainability. www.aimplas.es

Centexbel (CTB) is the Belgian scientific and technical centre for the textile industry, located in the heart of the Belgian textile industry with strong links to the majority of the textile companies. CTB offers a complete range of standardized testing, it is a notified body for protective clothing and can deliver CE marking and testing. CTB is also involved in standardization committees and offers technological advice and training to companies in Belgium and abroad. www.centexbel.be

DS Fibres is one of the subsidiaries of the DS Textile Platform Group. This family owned, vertically integrated international production group has its headquarters located in Belgium Dendermonde. Since long time "Sustainability" is one of the key issues in the company's mission statements. www.dstextileplatform.com

Yünsa Yünlü Sanayi ve Ticaret A.Ş. Established in 1973, Yünsa ranks among the world's top five producers of worsted fabric, with its sales and operational excellence, flexibility in production and product innovation, cost reduction oriented approach, vision and its experience in industry. Yünsa is Turkey's and Europe's largest worsted wool fabric producer and exporter. www.yunsa.com.tr/en/

SINTEX is equipped with a sampling warper and loom enabling to manufacture small amounts of standard or special materials into various kinds of woven fabrics. The major part of SINTEX product portfolio is dedicated to sport knits and functional clothing with specific properties. SINTEX also produce a broad range of protection textiles such as heat resistant, fireproof, antistatic, and antibacterial. It also produces ringspun yarns mainly based on aramid and POP. www.sintex.cz/en/



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