
Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

The second Version of the Plan for Dissemination and Exploitation

(including communication activities)

SUSTainable industrial DESIGN of TEXtile structures for composites (SustDesignTex)

Grant Agreement number: 101079009

Project acronym: SustDesignTex

Project title: Sustainable Industrial Design of Textile Structures for Composites

Funding Scheme: HORIZON-WIDERA-2021-ACCESS-03

Start date of the project: 01.10.2022

Duration: 36 months

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Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

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TUL		-

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Author(s):	Martyna Stawiana, Agata Poniecka, Marcin Barburski
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Abstract:	Dissemination and Communication Plan implementation and updating (M1-M36). Task Leader: TUL, all partners involved. The strategic plan for all dissemination and communication activities, outlined at the application stage, will be developed and detailed (M6). It will be implemented throughout the project and after the project's completion. The Plan will be subject to regular updates.

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

Table of contents

1. EXECUTIVE SUMMARY	4
1.1. DISSEMINATION OF RESULTS	6
2. SUMMARY OF THE SUSTDESIGNTEX PROJECT	6
3. OBJECTIVES AND APPROACH OF THE DISSEMINATION AND EXPLOITATION STRATEGY (INCLUDING COMMUNICATION ACTIVITIES)	7
3.1. TARGET AUDIENCE AND DESCRIPTION.....	8
3.2. KEY DISSEMINATION AND COMMUNICATION CHANNELS AND ACTIVITIES	9
4. DISSEMINATION AND COMMUNICATION POLICY AND RULES AND SUPPORT OF THE EU	10
4.1. QUALITY OF INFORMATION — DISCLAIMER	15
4.2. OPEN SCIENCE	15
4.2.1. <i>Open science: research data management</i>	16
5. SUSTDESIGNTEX VISUAL GUIDELINES.....	17
5.1. NAME	17
5.2. LOGO AND VISUAL GUIDELINES	17
6. COMMUNICATION TOOLS AND ACTIONS.....	19
6.1. SUSTDESIGNTEX WEBSITE.....	19
6.2. SOCIAL MEDIA	20
6.3. COMMUNICATION MATERIALS.....	26
6.4 SCIENTIFIC PUBLICATIONS.....	33
7. EXPLOITATION STRATEGY	33

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

1. Executive Summary

Dissemination and Communication Plan implementation and updating (M1-M36). Task Leader: TUL, all partners involved. The strategic plan for all dissemination and communication activities, outlined at the application stage, will be developed and detailed (M6). It will be implemented throughout the project and after the project’s completion. The Plan will be a subject to regular update.

The Plan addresses among others, the following aspects:

Target audiences, with the aim to build up a multi-stakeholder’s network. A stakeholders’ database set up with the contributions of all the consortium partners, will be used for specific dissemination and communication to relevant stakeholders:

1. Academia (including PhD students and consortium) is a key group to address the specific challenge of networking gaps and deficiencies between the research institutions;
2. Local authorities (Lodz Voivodeship, Lodz Marshal Office, Lodz City Government) support the development of innovations in the field of textiles including “Modern textile and fashion industry (including design)” as one of s3 of the Lodz Region;
3. Industry (mainly SME) in the field of automotive and aeronautical enterprises; the main companies, that will be involved: Bowi-styl; Gedeon; Moratex; Tricomed; Łukasiewicz Research Network – Textile Institute; Łukasiewicz Research Network – Institute of Biopolymers and Chemical Fibres; Łukasiewicz Research Network – Institute of Leather Industry; Texpl; Dywilan; Baltex; Wigolen; MDH; Rymatex; Pabiantex; Sempertrans; Corning; Glassfiber Krosno; Krosglass; Technotex; Saertex – MILAR; Miejskie Przedsiębiorstwo Wodociągów I Kanalizacji; Hydro Extrusion Poland; AWP Nordic Products; Brownin; BSH; Delia Cosmetics Distribution; DELL Products; LUMILEDS; Łódzka Specjalna Strefa Ekonomiczna; MIRBUD; MITMAR; Ceramika Paradyż; Pietrucha; Rossmann; VEOLIA; Wielton; Związek Przedsiębiorców Przemysłu Mody Lewiatan; Gedeon; Top Secret; Teofilów; Recte-Komes; Marilyn; Polexim; WOLA; Ariadna; TZMO; Ogólnopolska Izba Branży Skórzanej; Oh!Zuza; Vanilla night&day; Deni Cler; BOWI-STYL; Biliński; Kastor; Air Force Institute of Technology; Royal Star; Eurotech; NDH Sprzęt Medyczny; NFM Group; Malco Company; Summit Polska; MST Company; Comprenum; JAKUSZ Company; AIRBUS; SCANWAY; THALES; LOT AMS; STER COM; ODBAS; Lublin Airport; 5TX Surf company.
4. Stakeholder associations defend the interests of various stakeholders and are active in policy formulation;
5. Society at the local, national and European levels which needs implementation of Sustainable Development goals.

The above database is constantly updated.

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

Key messages – mission, vision and subject of the dissemination. At the very beginning of the project a set of key messages will be developed to meet three main goals: increased visibility of TUL as a research excellence unit in the textile reinforcement composites; enhanced visibility of the TUL's reputation, attractiveness and networking channels; increased society understanding, awareness and acceptance of TRC products.

Dissemination activities under the SustDesignTex project have significantly increased the visibility of TUL as a entity dedicated to research excellence in the field of textile reinforcement composites. This enabled TUL to submit applications for subsequent projects. All associated with the faculty of project coordinator Marcin Barburski, including 3 under his management.

This will have a significant impact in the future on the better visibility of TUL's reputation, its attractiveness and networking channels.

An initial set of dissemination channels:

1. Website, which will include both private and public areas, for project partners, and the wider community (professionals, academics, the general public and SMEs or industry) respectively.
2. Social media: LinkedIn, Facebook and Twitter to get wide visibility within research and innovation community as well as society.
3. Project press releases, presentations, videos and newsletters: a set of digital and tangible materials will be employed to stimulate awareness of the SustDesignTex project in a unified and attractive way. These tools will be constantly updated to reflect the project's progress, achievements, intermediate and final results.
4. Open access to publications and high cited journals will be a key for the wide dissemination of its results and for the EU society. Among the journals to be targeted are: “Composites Science and Technology”, “Composites” Part A, “Applied Science and Manufacturing”, “Textile Research Journal”, “Fibres and Textile Eastern Europe”, “Journal of Industrial Textile” and others from the list of Journal Citation Reports.
5. Organization and attendance of conferences and fairs. Organization of two Conferences InnovaTex – international conferences (composite sessions) in the 1st year of the project and an international one (Future of the textile reinforcement composites) will be held in the 3rd year of the project. Participation will include presentations, workshops and panels at conferences, events or exhibitions. An initial list of conferences includes Techtextil23, ADDITC23, JEC24, ITMA25, ESAFORM26, ECCM27, ICCM28 and AUTEX29. The presence of the SustDesignTex members at conferences will expose both the achievements and research potential for cooperation. Participation at the COMPOSITES EUROPE30 fair, which as Europe's leading trade fair in the largest market, puts on display the entire manufacturing process from raw materials to semi-finished goods to finished components.
6. Business Forums – Organization of 2 events designed to meet the needs of industry and reduce communication and cooperation gaps between the industry and academia. A strategy

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

of common activities will be developed with the support of local authorities and policy makers.

7. Organization of workshops, trainings and a Summer School – in order to validate and disseminate the results of the project, two workshops will be organized by TUL for the consortium members within the lifetime of the project. All partners will be involved in the organization of the Joint Summer School “Excellence in Science”.
8. Different published materials – E-Catalogue of technologies, services or patents offered by TUL for SMEs and industry, will be promoted at the project events (conferences) to which all relevant stakeholders representing the target groups described above will be invited.
9. Collaborating with other projects - to enhance the visibility of the SustDesignTex project and exchange good practices on managing Twinning projects, collaboration with organizations realizing twinning projects will be established.

1.1. Dissemination of results

The beneficiaries must disseminate their results as soon as feasible, in a publicly available format, subject to any restrictions due to the protection of intellectual property, security rules or legitimate interests. A beneficiary that intends to disseminate its results must give at least 15 days advance notice to the other beneficiaries (unless agreed otherwise), together with sufficient information on the results it will disseminate.

Any other beneficiary may object within (unless agreed otherwise) 15 days of receiving notification, if it can show that its legitimate interests in relation to the results or background would be significantly harmed. In such cases, the results may not be disseminated unless appropriate steps are taken to safeguard those interests.

2. Summary of the SustDesignTex project

The SustDesignTex project general objective is to enhance networking activities and establish long-term strategic partnership between TUL (Faculty of Materials Technology and Textile Design), top-class leading counterparts at the EU level - 3 famous Universities, and the Polish company active in the field of the project results' implementation. The general objective will be gained via building on the huge potential of networking for excellence through knowledge transfer in industrial design of innovative textile structures for composites, based on the joint implementation of a research microproject and a preliminary exchange of the best practice between TUL and the partners due to a set of coordination and support activities organized around the microproject. TUL, ITA, HB and UZ researchers will get acquainted with the real research interests and conditions of each other, train their skills and transfer knowledge on the new methodologies and equipment during short-term visits, expert visits, lectures, training sessions, joint research work, conferences and conducting of a joint research micro-project designing and assessing new Textile Reinforcement Composites (TRC). TUL also will get a huge institutional advancement in research management and administration, research

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

project preparation, management and coordination, and develop the skills of its Early Stage Researchers via the Strengthening TUL research management marathon, roundtables, workshops and the Joint Summer School for TUL ESRs. The Industry-Research Dialog Platform and the Joint Research and Innovation Road Map launched in the project will create conditions for constant joint work with industrial partners and support gaining the goals of the Lodz Region Smart Specialization Strategy. The TUL team will acquire expertise in industrial design, processing textile structures and TRC from outstanding partners and become a Centre of Excellence in the optimization of innovative TRCs.

3. Objectives and approach of the dissemination and exploitation strategy (including communication activities)

The Plan for dissemination and exploitation is an important part of the Horizon Europe projects in which all partners must participate. Communicating European projects should aim at how research and innovation are contributing to an “Innovation Union”. This plan is divided into two complementary activities:

- Dissemination and communication activities are oriented to show the attractiveness of the results achieved and their impact towards a target audience composed of key stakeholders already identified, consumers, journalists and the general public.
- Exploitation actions will establish the main pillars for a future market uptake plan of the most promising and mature results generated in the project. The exploitation strategy will identify technical choices towards the most promising directions, thus maximizing the opportunities for innovation and business.

In this manner, the aim of the SustDesignTex Plan for dissemination and exploitation is to promulgate findings and innovation to key stakeholders to create value within the target communities and initiatives in the EU. In other words, Dissemination and Exploitation concerns the whole of the project because it is a way of raising awareness for the achievements targeted to the external audience, the scientific community and the potential business users of the products and services developed. It is needed to emphasize that the organizations directly or indirectly involved in the project, count on unquestionable positioning and capacity to influence and integrate internal dissemination strategies, by involving complementary research and communication/marketing/business units to increase the impact of the project. The consortium will ensure that the dissemination materials prepared for the promotion of the research results and benefits do not compromise the interests of the industrial stakeholders prior to disclosure. In this matter, the dissemination approach will be designed and tailored according to the nature of each partner. The findings from the SustDesignTex project will also be tailored to the specific audiences and provide a basis for fostering public support for the development of sustainable, environmentally-friendly and healthy technologies. All aimed to help

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

maximize the impact of R&I actions. The Dissemination and Exploitation strategy of SustDesignTex will combine on-line and off-line channels and tools, and reinforcing different highlights focused on the stakeholders. In this way, the combination of different actions will reinforce the message and allow to reach our audiences.

Activities carried out in the project include showing the attractiveness of the results achieved and their impact on the group of recipients. Innovations and results are disseminated to key stakeholders to create value in target communities and initiatives in the EU. Awareness of achievements addressed to external recipients, the scientific community and potential business users of developed products and services is raised. Research units and communication/marketing/business units are involved to increase the impact of the project. The findings from the SustDesignTex project are also tailored to the specific audiences and provide a basis for fostering public support for the development of sustainable, environmentally-friendly and healthy technologies. The Dissemination and Exploitation strategy of SustDesignTex combine on-line and off-line channels and tools, and reinforcing different highlights focused on the stakeholders.

3.1. Target audience and description

The identification of target audiences of SustDesignTex project is crucial in order to customise the messages and dissemination & communication activities to every different group. Each group of stakeholders have different points of interest and demands regarding the project. According to this strategy, messages must be shaped and delivered in an effective manner. Therefore, dissemination and communication channels and activities described in this Plan will be clearly focused on them and the messages will be adapted. The following audience and stakeholders of the sector have been identified before the starting of the project and they will be considered at the European, national and regional level. During its development, partners will be asked to report about contacts, networking and activities established with these groups: Table 1. Target groups:

Table 1. Target groups

Target Groups	Communication Channels/Aim
Researchers and Academics: (Relevant research institutions)	Channels: Web and social media; Scientific journals, conferences. Aim: R&D cooperation.
Policy Makers and Standardization Bodies: European, National and Regional Policy-makers (Governments, Ministries, Agencies, Councils, etc.), lawyers, certifiers.	Channels: Web and social media; Policy Workshops in Brussels; Specialised communication channels (EU Community, etc.). Aim: Project involvement; Policy dissemination.

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

Industry	Channels: Web and social media; Press releases; Scientific journals, specialised conferences; Industry events (market fairs); dedicated workshops; specialised communication channels. Aim: Project involvement and commercial exploitation.
Consumers & Prossumers: Citizens, Owner associations, Householders, Tenants.	Channels: Web and social media; Press releases; Dedicated workshops Aim: Project involvement; General awareness.
Students: Educational training and communication actions addressed.	Channels: Web and social media; Training sessions; Student internships; Doctorate projects Aim: Promote scientific and technological vocations and formation of high-level scientists and engineers in composites technology.
General Audience	Channels: Web and social media; Press releases. Aim: General awareness.

3.2. Key Dissemination and Communication Channels and Activities

Table 2. Dissemination and Communication Channels and Activities

Actions	Description
Project website and positioning	Providing information about the project and the results, showcasing project's news and acting as a communication channel with the stakeholders and the project media hub.
Social Media Channels	Facebook account - information, general domain news and communicating directly with parties, influencers and key actors. Twitter account - community group to gather all interested stakeholders. LinkedIn - community group to gather all interested stakeholders.
Logo and presentations	HQ professional logo, visual guide, and professional presentation templates (Word for deliverables, power point, press releases, etc. for all partners).
Supporting Communication Material	Posters/Banners/Rollups which will present the project's concept; Flyers/Leaflets that will

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

	contain general project information, best practices and ad-hoc information for events.
TUL Open Day	Open-day events will be organized at different institutions involved in the project. During these events, the general public will have the opportunity to visit the research facilities, and attend presentations prepared by researchers involved in the project. Local schools will also be contacted to promote the participation of students in the Open Days.
Joint events, workshops, round tables & networking with other projects	Events organised/co-organised by the project inviting experts, researchers, clients and industry audience. Events where the project will be invited to present its work and vision. All events will have a presence on the website and the most important will be communicated via Twitter.

4. Dissemination and Communication Policy and Rules and Support of the EU

Unless otherwise agreed with the granting authority, communication activities of the beneficiaries related to the action (including media relations, conferences, seminars, information material, such as brochures, leaflets, posters, presentations, etc., in electronic form, via traditional or social media, etc.), dissemination activities and any infrastructure, equipment, vehicles, supplies or major result funded by the grant must acknowledge EU support and display the European flag (emblem) and funding statement (translated into local languages, where appropriate):

[eu-emblem-rules_en.pdf \(europa.eu\)](#)



Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

Association of the EU emblem with the funding statement

Horizontal option



Positive version
(CMYK or digital impression process)



Negative version



Monochrome reproduction
(Specific print process on clothing and merchandise or with Pantone)

If only black or white is available.



If only one Pantone colour is available (Reflex Blue is used as an example here).



Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

Association of the EU emblem with the funding statement

Vertical option



Positive version
(CMYK or digital impression process)



**Funded by
the European Union**



**Co-funded by
the European Union**

Negative version



**Funded by
the European Union**



**Co-funded by
the European Union**

Monochrome reproduction

(Specific print process on clothing and merchandise or with Pantone)

If only black or white is available.



**Funded by
the European Union**



**Funded by
the European Union**



**Funded by
the European Union**



**Funded by
the European Union**

If only one Pantone colour is available (Reflex Blue is used as an example here).



**Funded by
the European Union**

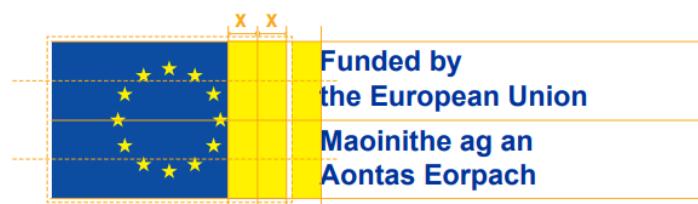
Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

Association of the EU emblem with the funding statement

Bilingual option

In some cases, using a multilingual version can be necessary. Therefore, a bilingual version is possible. To keep its integrity, adding a third language with the EU emblem is not allowed. In that case, we advice that the logo be replicated in the necessary languages.



Examples



**Funded by
the European Union**
**Maoinithe ag an
Aontas Eorpach**



**Funded by
the European Union**
**Maoinithe ag an
Aontas Eorpach**



**Gefinancierd door
de Europese Unie**
**Financé par
l'Union européenne**



**Gefinancierd door
de Europese Unie**
**Financé par
l'Union européenne**

It is not recommended to use a bilingual version when the EU emblem is small. The minimum height of the EU emblem for this specific version must be 2 cm.

For specific items, like pens, the bilingual version is not allowed.



Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

Colours



EU corporate blue
C: 100 | M: 80 | Y: 0 | K: 0
R: 0 | G: 51 | B: 153
#003399

Yellow 100%
C: 0 | M: 0 | Y: 100 | K: 0
R: 255 | G: 204 | B: 0
#FFCC00

Font

The font used here to create the funding statement is Arial (bold). It offers a simple and neutral style and is available for all EU languages. Arial is one of the pre-installed fonts by Microsoft and Adobe software, so it is easily accessible for everyone. The other recommended fonts are Auto, Calibri, Garamond, Tahoma, Trebuchet, Ubuntu and Verdana.

ARIAL

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

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Protection area

The protection area must remain free of competing texts, logos, images or any other visual element that could compromise its good legibility.



Minimum size

The minimum height of the EU emblem must be 1 cm.

For specific items, like pens, the emblem can be reproduced in a smaller size.



When using the EU funding statement in a small size, we highly recommend using the horizontal version.

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

The emblem must remain distinct and separate and cannot be modified by adding other visual marks, brands or text. Apart from the emblem, no other visual identity or logo may be used to highlight the EU support. When displayed in association with other logos (e.g. of beneficiaries or sponsors), the emblem must be displayed at least as prominently and visibly as the other logos. For the purposes of their obligations under this Article, the beneficiaries may use the emblem without first obtaining approval from the granting authority. This does not, however, give them the right to exclusive use. Moreover, they may not appropriate the emblem or any similar trademark or logo, either by registration or by any other means.

4.1. Quality of information — Disclaimer

Any communication or dissemination activity related to the action must use factually accurate information. Moreover, it must indicate the following disclaimer (translated into local languages where appropriate):

“Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or [name of the granting authority]. Neither the European Union nor the granting authority can be held responsible for them.”

4.2. Open Science

The beneficiaries must ensure open access to peer-reviewed scientific publications relating to their results. In particular, they must ensure that:

- at the latest at the time of publication, a machine-readable electronic copy of the published version or the final peer-reviewed manuscript accepted for publication, is deposited in a trusted repository for scientific publications
- immediate open access is provided to the deposited publication via the repository, under the latest available version of the Creative Commons Attribution International Public Licence (CC BY) or a licence with equivalent rights; for monographs and other long-text formats, the licence may exclude commercial uses and derivative works (e.g. CC BY-NC, CC BY-ND) and
- information is given via the repository about any research output or any other tools and instruments needed to validate the conclusions of the scientific publication.

Beneficiaries (or authors) must retain sufficient intellectual property rights to comply with the open access requirements.

Metadata of deposited publications must be open under a Creative Common Public Domain Dedication (CC 0) or equivalent, in line with the fair principles (in particular machineactionable) and provide information at least about the following: publication (author(s), title, date of publication,

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

publication venue); Horizon Europe or Euratom funding; grant project name, acronym and number; licensing terms; persistent identifiers for the publication, the authors involved in the action and, if possible, for their organisations and the grant. Where applicable, the metadata must include persistent identifiers for any research output or any other tools and instruments needed to validate the conclusions of the publication.

Only publication fees in full open access venues for peer-reviewed scientific publications are eligible for reimbursement.

4.2.1. Open science: research data management

The beneficiaries must manage the digital research data generated in the action ('data') responsibly, in line with the fair principles and by taking all of the following actions:

- establish a data management plan ('DMP') (and regularly update it)
- as soon as possible and within the deadlines set out in the DMP, deposit the data in a trusted repository; if required in the call conditions, this repository must be federated in the EOSC in compliance with EOSC requirements
- as soon as possible and within the deadlines set out in the DMP, ensure open access — via the repository — to the deposited data, under the latest available version of the Creative Commons Attribution International Public License (CC BY) or Creative Commons Public Domain Dedication (CC 0) or a licence with equivalent rights, following the principle 'as open as possible as closed as necessary', unless providing open access would in particular:

a) be against the beneficiary's legitimate interests, including regarding commercial exploitation, or

b) be contrary to any other constraints, in particular the EU competitive interests or the beneficiary's obligations under this Agreement; if open access is not provided (to some or all data), this must be justified in the DMP

- provide information via the repository about any research output or any other tools and instruments needed to re-use or validate the data.

Metadata of deposited data must be open under a Creative Common Public Domain Dedication (CC 0) or equivalent (to the extent legitimate interests or constraints are safeguarded), in line with the FAIR principles (in particular machine-actionable) and provide information at least about the following: datasets (description, date of deposit, author(s), venue and embargo); Horizon Europe or Euratom funding; grant project name, acronym and number; licensing terms; persistent identifiers for the dataset, the authors involved in the action, and, if possible, for their organisations and the grant. Where applicable, the metadata must include persistent identifiers for related publications and other research outputs.

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

5. SustDesignTex visual guidelines

The first communication action developed after the starting of the project was to create a recognisable brand of SustDesignTex reflecting the main goals of the initiative and offering to the audience/stakeholders a clear identification of the values and messages.

5.1. Name

SustDesignTex is the branding name of the project which means: “Sustainable Industrial Design of Textile Structures for Composites”. The full title should be included in brackets when it is firstly mentioned in a document, then it will be used its abbreviation/acronym.

5.2. Logo and visual guidelines

The inspiration for designing the logo was the structure of textile products (woven fabric) as well as nature and natural materials. The color scheme of the sign refers to nature - the symbol of the fabric weave is light green, but the black typographic part retains its legibility despite the use of two types of fonts: Museo Sans 500 and The Bold Font. The SUSTDESIGNTEX logo itself is an abbreviation of the full name of the project: „Sustainable Industrial Design of Textile Structures for Composites”.



ABCDEFGHIJKLMNOPRSTUWZ

THE BOLD FONT

ABCDEFGHIJKLMNOPRSTUWZ
abcdefghijklmnoprstuwz

Museo Sans 500



CMYK: 20%, 0%, 60%, 0%
RGB: 219, 226, 133
DBE285



CMYK: 0%, 0%, 0%, 100%
RGB: 43, 42, 41
2B2A29



Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union



Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

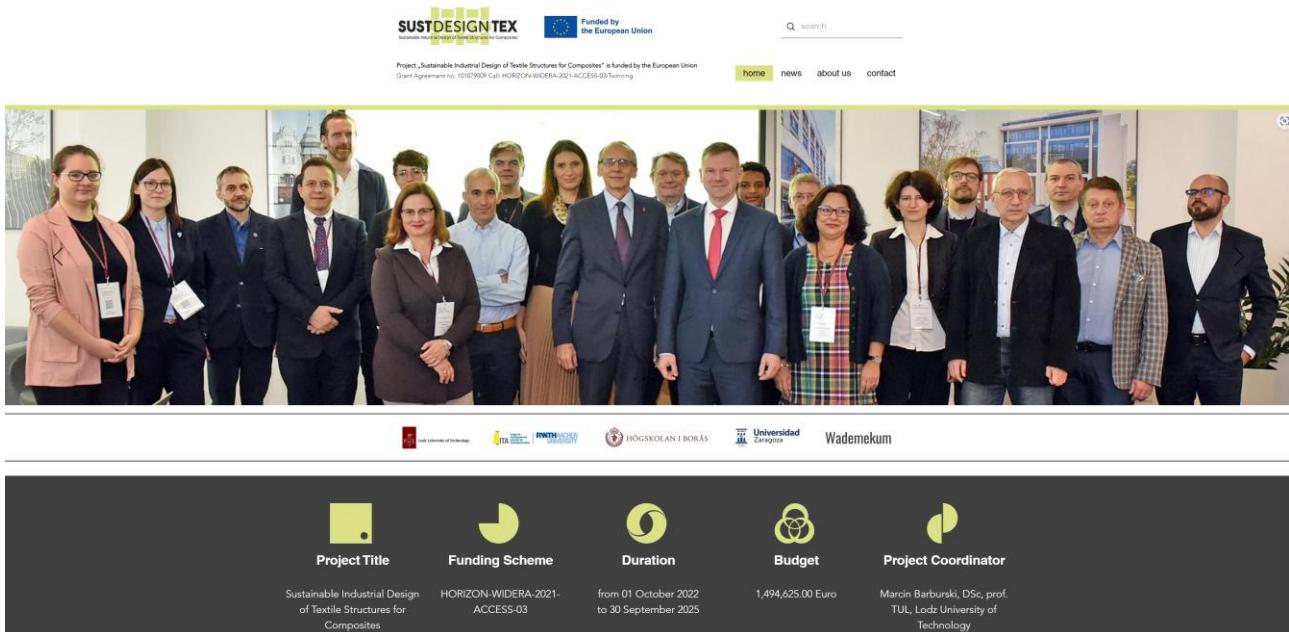
6. Communication tools and actions

With the main aim of attracting and establishing a SustDesignTex community around our general public, the Digital Marketing Strategy has been established with three tree pillars:

6.1. SustDesignTex website

SustDesignTex website <https://www.sustdesigntex.eu/> - targeting the general public, and also containing specific sections with dedicated content, the website will be continuously updated with project general information, brochures, news, deliverables, publications, consortium information, and complementary content to provide visitors a broad idea of the project concept and the progress of the activities.

The main website (7/03/2023) looks:

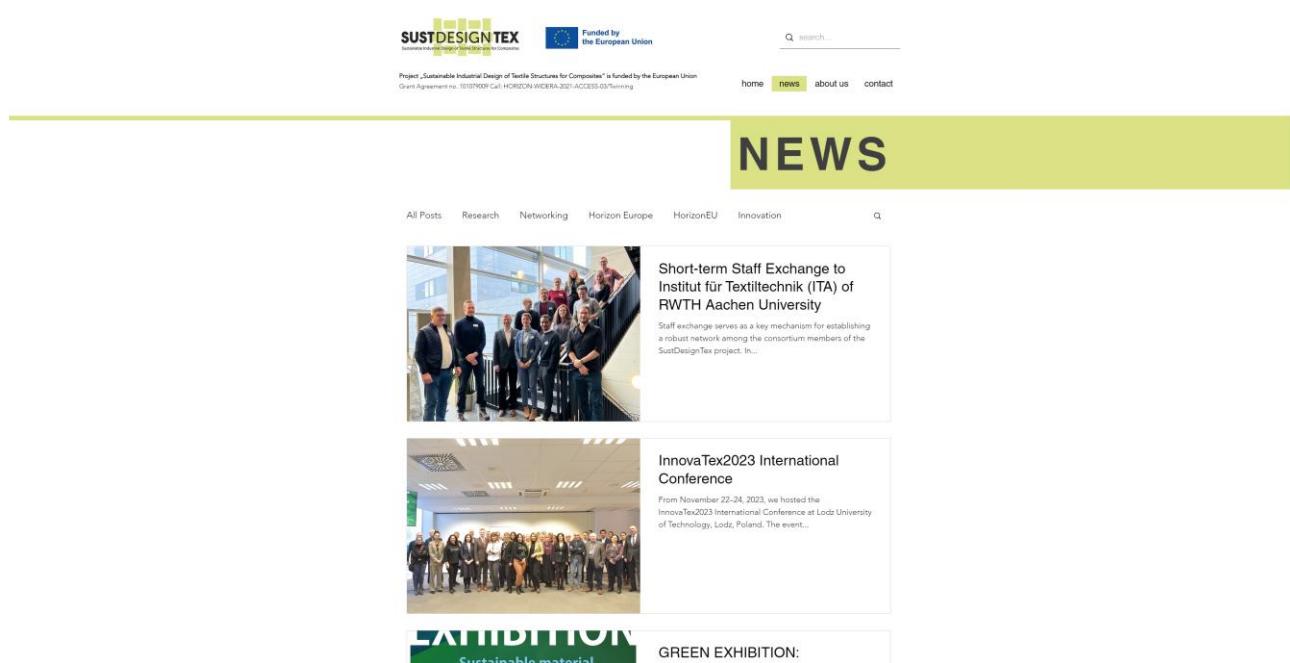


 Project Title	 Funding Scheme	 Duration	 Budget	 Project Coordinator
Sustainable Industrial Design of Textile Structures for Composites	HORIZON-WIDERA-2021-ACCESS-03	from 01 October 2022 to 30 September 2025	1,494,625.00 Euro	Marcin Barburski, DSc, prof. TUL, Lodz University of Technology

The main website (27/02/2024) looks:

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union



6.2. Social media

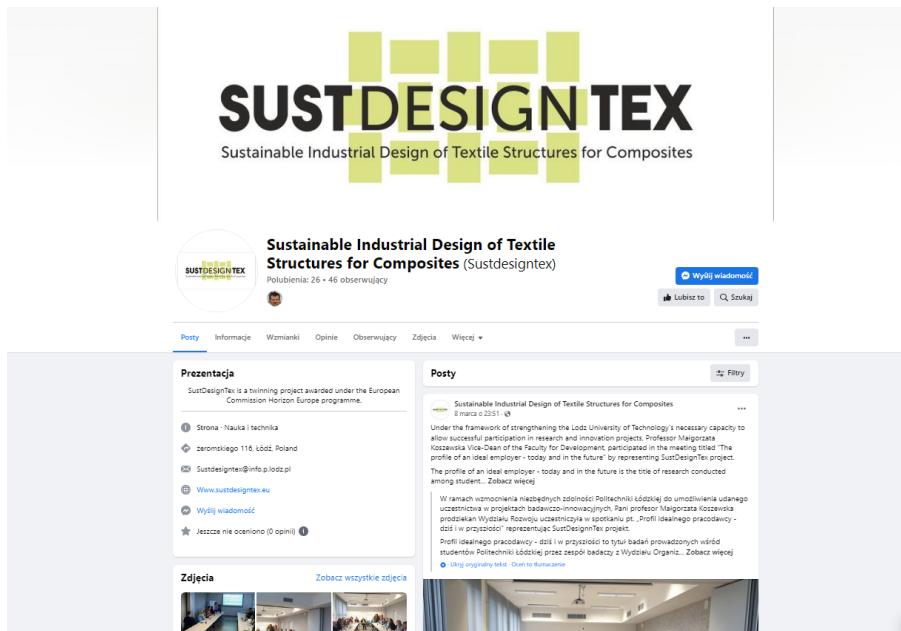
Social Media and newsletters to share the advances about the project included on the website and attract visitors and users. This will also be used as a tool to interact and listen to the comments of the stakeholders of the project.

Multiple profiles in different social networks have been created to communicate the project activities and disseminate the outcomes of the project to different audiences:

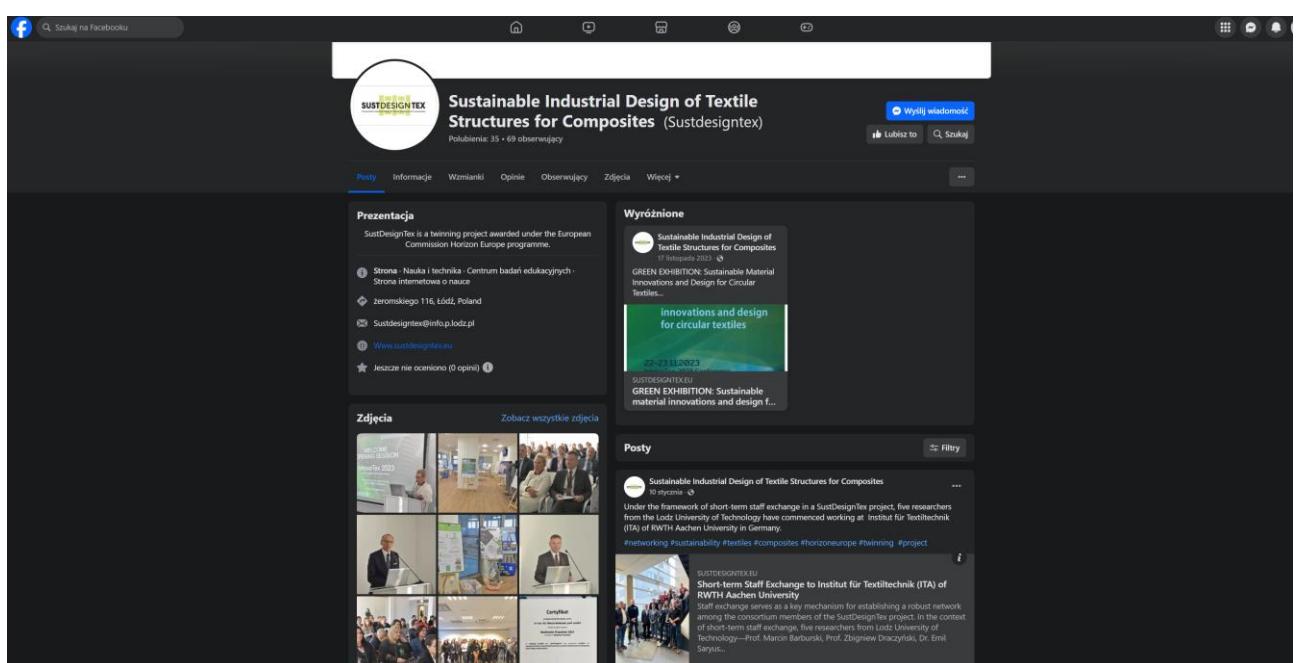
Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

1. Facebook - <https://www.facebook.com/SustDesignTex>



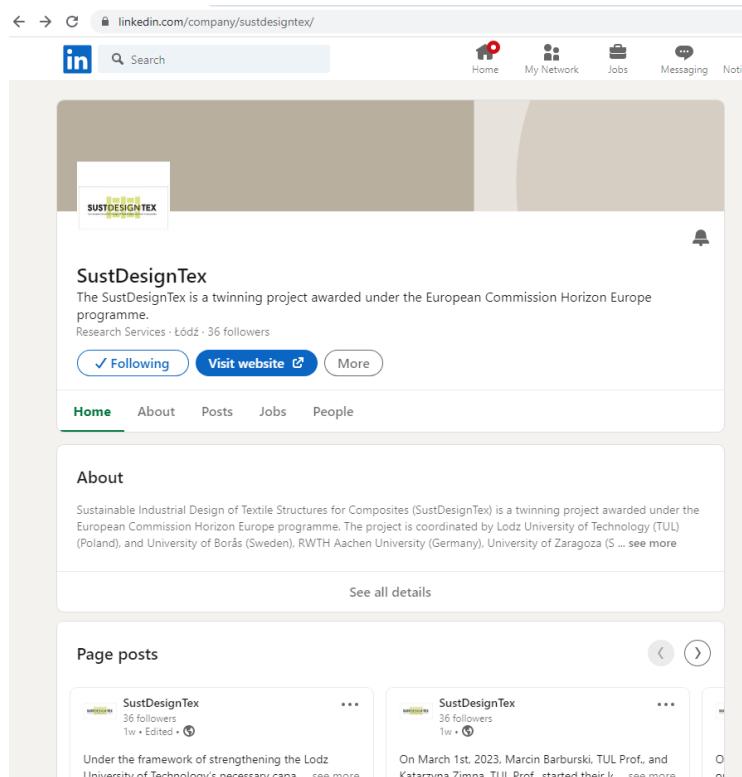
The Facebook website (27/02/2024) looks:



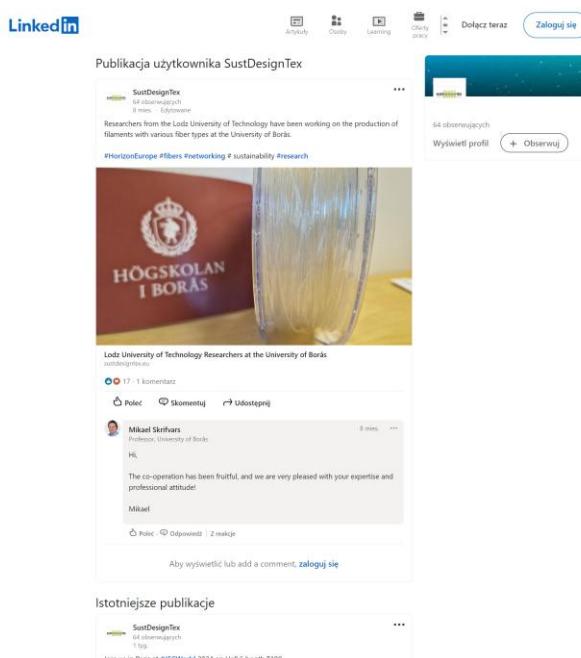
- LinkedIn - <https://www.linkedin.com/company/sustdesigntex/>

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union



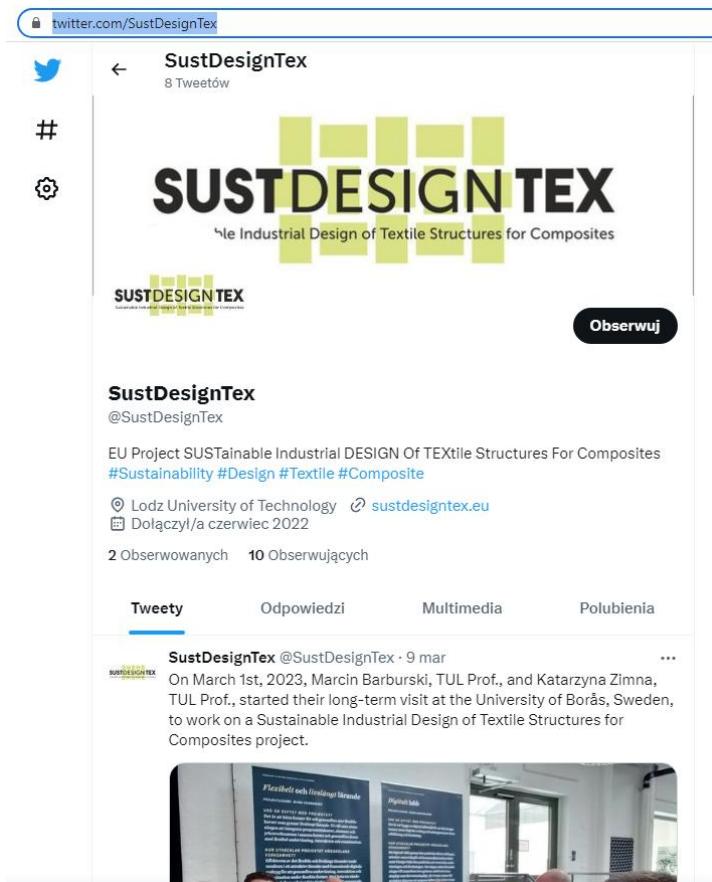
The LinkedIn website (27/02/2024) looks:



Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

- Twitter - <https://twitter.com/SustDesignTex>.



twitter.com/SustDesignTex

SustDesignTex
8 Tweetów

#

SustDesignTex
Sustainable Industrial Design of Textile Structures for Composites

SUSTDESIGN TEX

Obserwuj

SustDesignTex
@SustDesignTex

EU Project SUSTainable Industrial DESIGN Of TEXtile Structures For Composites
#Sustainability #Design #Textile #Composite

Łódź University of Technology sustdesigntex.eu
Dolączyl/a czerwiec 2022

2 Obserwowanych 10 Obserwujących

Tweety Odpowiedzi Multimedia Polubienia

SustDesignTex @SustDesignTex · 9 mar
On March 1st, 2023, Marcin Barbuski, TUL Prof., and Katarzyna Zimna, TUL Prof., started their long-term visit at the University of Borås, Sweden, to work on a Sustainable Industrial Design of Textile Structures for Composites project.

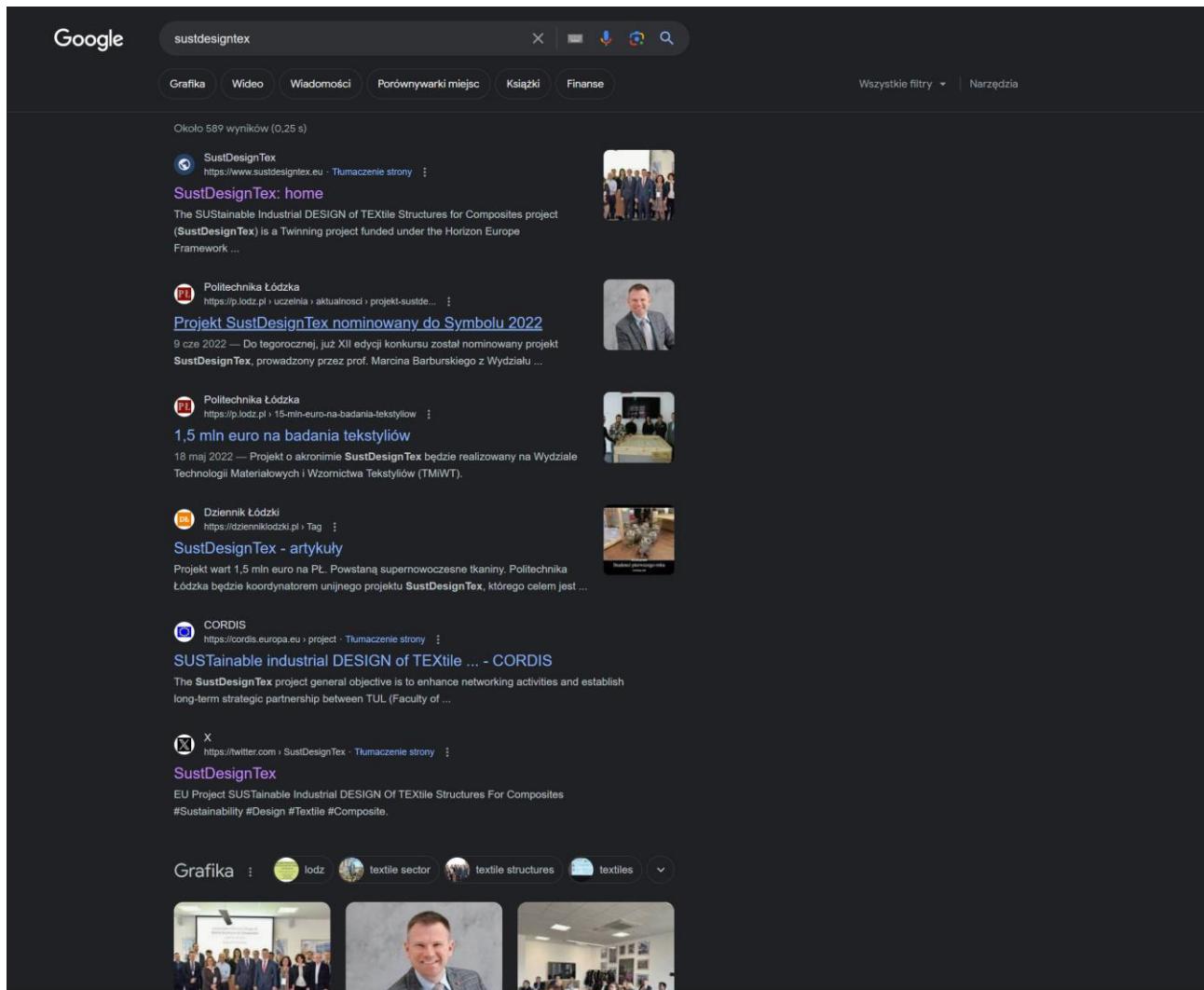
[Photo of a presentation board with text in German and English]

The Twitter website (27/02/2024) looks:

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

Google results (27/02/2024):



Google search results for "sustdesigntex" on 27/02/2024. The search bar shows "sustdesigntex". The results are as follows:

- SustDesignTex** <https://www.sustdesigntex.eu> Tłumaczenie strony
- SustDesignTex: home**
The SUStainable INDUSTRIAL DESIGN of TEXTile Structures for Composites project (SustDesignTex) is a Twinning project funded under the Horizon Europe Framework ...
- Politechnika Łódzka** <https://p.lodz.pl> uczelnia, aktualności, projekt-sustide...
- Projekt SustDesignTex nominowany do Symbolu 2022**
9 cze 2022 — Do tegorocznej, już XII edycji konkursu został nominowany projekt SustDesignTex, prowadzony przez prof. Marcina Barburskiego z Wydziału ...
- Politechnika Łódzka** <https://p.lodz.pl> 15-mln-euro-na-badania-tekstyliow
- 1,5 mln euro na badania tekstyliów**
18 maj 2022 — Projekt o akronimie SustDesignTex będzie realizowany na Wydziale Technologii Materiałowych i Wzornictwa Tekstyliów (TMiWT).
- Dziennik Łódzki** <https://dzienniklodzki.pl> Tag
- SustDesignTex - artykuły**
Projekt wart 1,5 mln euro na Pt. Powstaną supernowoczesne tkaniny. Politechnika Łódzka będzie koordynatorem unijnego projektu SustDesignTex, którego celem jest ...
- CORDIS** <https://cordis.europa.eu> project Tłumaczenie strony
- SUSTainable industrial DESIGN of TEXTile ... - CORDIS**
The SustDesignTex project general objective is to enhance networking activities and establish long-term strategic partnership between TUL (Faculty of ...)
- SustDesignTex** <https://twitter.com> SustDesignTex - Tłumaczenie strony
- EU Project SUStainable Industrial DESIGN OF TEXTile Structures For Composites**
#Sustainability #Design #Textile #Composite.

Below the search results, there are filters: Grafika, lodz, textile sector, textile structures, textiles.

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

Google search results for "sustdesigntex":

- Horizon Europe NCP Portal**
https://horizonopenncpportal.eu › default › files PDF
sustainable-industrial-design-of-textile-structures-for- ...
13 wrz 2022 — The **SustDesignTex** Twinning project general objective is to establish long-term strategic partnership between TUL (Faculty of Materials ...
7 stron
- Facebook**
https://www.facebook.com › SustDesignTex
Sustainable Industrial Design of Textile Structures for ...
Sustainable Industrial Design of Textile Structures for Composites, Łódź, Poland. 35 likes. **SustDesignTex** is a twinning project awarded under the ...
- wademekum.com**
https://wademekum.com › current-projects
Current projects - Wademekum
The **SustDesignTex** Twinning project general objective is to establish longterm strategic partnership between TUL (Faculty of Materials Technology and Textile ...
- LinkedIn**
https://www.linkedin.com › posts › malgorzata-koszewsk...
Małgorzata Koszewska
4 cze 2023 — On May 23, 2023, as part of the **SustDesignTex** project, a meeting took place aimed at exchanging best practices in university management.
- Młodzi w Łodzi**
https://mlodzilodz.pl › Ogólne
Naukowcy i projekt przyszłości z Politechniki Łódzkiej
24 paź 2023 — W ten sposób została doceniona jego praca jako koordynatora międzynarodowego projektu **SustDesignTex** („Zrównoważone wzornictwo przemysłowe ...
- Docer**
https://docer.pl › doc
2022 10 27 SustDesignTex Marcin Barburski
11 sie 2023 — 2022 10 27 **SustDesignTex** Marcin Barburski - dokument [*.pdf] 1 Sustainable Industrial Design of Textile Structures for Composites ...
- LinkedIn**
https://www.linkedin.com › posts › Tłumaczenie strony
SustDesignTex on LinkedIn: #jecworld
14 lut 2024 — Wir als ITA Technologietransfer GmbH sind gemeinsam mit dem ITA Institut für Textiltechnik der RWTH Aachen University und unseren Co-Ausstellen ...
- Młodzi w Łodzi**
https://mlodzilodz.pl › Ogólne
...

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

The statistics of project's social media platforms from 01/10/2022 to 02/02/2024

SM Platforms	People reached	No. of followers	No. of Posts	No. of countries reached
Facebook	13,483	69	26	-
LinkedIn	3,298	63	18	-
Twitter	598	12	20	-
Website	3,429	-	16	49
Total	20,808	144	80	49

6.3. Communication materials

Unless otherwise agreed with the granting authority, the beneficiaries must promote the action and its results by providing targeted information to multiple audiences (including the media and the public), in accordance with Annex 1 of the GA and in a strategic, coherent and effective manner. Before engaging in a communication or dissemination activity expected to have a major media impact, the beneficiaries must inform the granting authority. Brochures, posters, videos, scientific publications, press material, newsletters, press releases, presentations, etc., will be prepared to promote the SustDesignTex results. These materials will follow quality standards and will be distributed in the regular dissemination activities scheduled in the project. All materials will be produced in English; translations to other European languages may be performed by interested beneficiaries. Dissemination material will be available to download in the internal management platform of the project.

- a. Communication materials (roll-up- in progress)
- b. Media relations
- c. Events

Table 3. List of events

Name of the event	Partner attending	Estimated date	Link
Publication in the “Zycie uczelni” Journal	TUL	19.05.2022	https://www.zu.p.lodz.pl/1-5-miliona-euro-na-badania-tekstyliow

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

Presentation on Research Week event	TUL	16.03.2023	
STRENGTHENING TUL NECESSARY CAPACITY TO ALLOW SUCCESSFUL PARTICIPATION IN R&I PROJECTS - MEETING WITH THE INDUSTRY	TUL, HB, RWTH, UNIZAR, WAD	13.10.2022 25.01.2023 22.02.2023	
Presentation on Structure and Structural Mechanics of Textiles „STRUTEX“ Conference, Czech Republic	TUL	30.11.- 02.10.2022	http://strutex.ft.tul.cz/2022/Home/home.html
Online presentation on “Meneger’s Academy” event	TUL	27.10.2022	
Presentation on International Textile, Clothing & Design Conference Magic World of Textiles, Croatia 2022	TUL	02-05.10.2022	http://itcdc.ttf.unizg.hr/
Article in newspaper “Dziennik Łódzki”	TUL, HB, RWTH, UNIZAR, WAD	19.05.2022	
Presentation on Fashion and Innovative Textiles Conference	TUL	25.10.2023	
Barburski M. “SUSTainable industrial DESIGN of TEXTile structures for composites” Meet & Exchange Workshop on Widening Package in Horizon Europe 2 September 2022 online presentation and forum	TUL	02.09.2022	
Participation in Focus group of EPIBOOST - BOOSTing excellence in environmental EPIgenetics (GA no. 101078991; funded by the European Union within the call HORIZON-WIDERA-2021-ACCESS-03 - Twinning)	TUL		

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

Past events:



Short-term Staff Exchange to Institut für Textiltechnik (ITA) of RWTH Aachen University

Staff exchange serves as a key mechanism for establishing a robust network among the consortium members of the SustDesignTex project. In...



InnovaTex2023 International Conference

From November 22–24, 2023, we hosted the
InnovaTex2023 International Conference at Lodz University
of Technology, Lodz, Poland. The event...



GREEN EXHIBITION: Sustainable material innovations and design for circular textiles

InnovaTex 2023 Conference Zatoka Sportu Center,
Rector's Loge, Lodz University of Technology 22-
23.11.2023 International exhibition of...

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union



Participation in Seminars

Professor Marcin Barburski, a coordinator of the SustDesignTex project, recently delivered two impactful seminars addressing critical...

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

Participation in the Conference

From June 19th to 21st, 2023, we had the great pleasure of participating in an inspiring scientific conference, ICNF 2023, the 6th International Conference on Natural Fibers, in Madeira, Portugal.



The conference focused on the latest scientific achievements and innovative solutions in the field of natural fibers. There were many interesting presentations and discussions on the latest research and discoveries. The conference was also an excellent opportunity to establish new contacts.

Conference attendees had the chance to learn about our project, SustDesignTex, thanks to a poster presentation titled "Sustainable Industrial Design of Textile Structures for Composites Project," prepared by Agata Poniecka and Marcin Barburski.



Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

Details of Article and Conference Paper Publications

Link to the documentation								
1	Seminar	Akademia Menadżera Horyzontu Europa II Edycja. Projekt Widzenie Polski w konkursie Biotechnologies and Biomedical Engineering (PCBBE)	Sustainable Industrial Design of Textile Structures for Composites	Marcin Barburski	Krajowy Punkt Kontaktowy	19.10.2023		Akademia Menadżera Horyzontu Europa II Edycja. Projekt Widzenie
2	Conference		Textiles in lightweight composite structures	Marcin Barburski	Łódź University of Technology	26.09.2023		
3	Seminar	Green transformation of the industry in the light of the EU Directive on a strategy for sustainable textile products in a circular economy	“Sustainable industrial design of textile structures for composites”		Association of Polish Textile Makers	26.09.2023		Seminarium SWP 26.09.2023.docx
4	Conference	32 INGEGRAF 2023	Bicycle handlebar design with high damping factor using natural composites	DAVID RANZ - MARCOS OCHOA - JAVIER ABAD - RAMON MIRALBES AND MARCIN	Universidad de Cádiz	21-23.06.2023	https://www.congresointegrat.es/en/	32 INGEGRAF 2023
			BARBURSKI					
5	Other		Weź udział w konkursie TWINNING finansowanym ze środków Programu Ramowego Uni Europejskiej.	Julitta Grzywa (Kierownik Anteny /Działenkarz), Marcin Barburski, dr Karina Baranowska, główna specjalista operacyjna z Działu Krajowego Punktu Kontaktowego NCIBR, odpowiedzialna za obszar WIDERA, Maria Słachta, lokalna eksperta Horyzontalnego Punktu Kontaktowego Polska Wschodnia, Biuro Bialystok na Politechnice Białostockiej.	Radio Akademia	19.06.2023 godz. 16.15 oraz 22.00	https://www.radioakademia.com/RADIO_AKADEMIA_87_7FM/www/CSB&_udzial%5B82%5D-w-konkursie-twintingu-finansowanym-ze-%25249000-rodku%253B&programu-ramowego-uni-europejskiej/	Radio Akademia 19.06.2023.pdf
6	Seminar	ITA Innovation Day Sustainability and Thermoplastic Composites	SustDesignTex: An Approach to connect Researchers	Rebecca Emmerich	ITA	18.04.2023		ITA 18.04.2023.jpg
7	Fairs	JEC WORLD Paris 2023	ITA. Natural fiber processing	Rebecca Emmerich, Christoph Greb	JEC WORLD	26.04.2023	https://www.jeccomposites.com/events/jec-world-2023/	JEC WORLD 2023 Paris.jpg
8	Seminar	Research Week 2023. Experience and good practices in HE grants	Zrównoważone wzornictwo przemysłowe struktur tekstylnych dla kompozytów	Marcin Barburski, Katarzyna Grabowska	Łódź University of Technology	16.03.2023		Research Week 2023
9	Conference	ITC&DC - INTERNATIONAL TEXTILE, CLOTHING & DESIGN CONFERENCE	Sustainable Industrial Design of Textile Structures for Composites	Marcin Barburski	University of Zagreb	02-05.10.2022	http://itcdc.ttf.unizg.hr/	ITC&DC - INTERNATIONAL TEXTILE, CLOTHING & DESIGN CONFERENCE
10	Conference	Konferencja Sektorowej Rady ds. Kompetencji MODA I INNOWACJYNE TEKSTYLA	Ścieżka karier - co czeka absolwentów edukacji zawodowej na uczelni wyższej? -	Monika Malinowska-Olszowy	PIOTR Związek Pracodawców Przemysłu Odzieżowego i Tekstylnego	25.10.2022		Konferencja Sektorowej Rady ds. Kompetencji MODA I INNOWACJYNE TEKSTYLA.pdf
11	Conference	23rd International Conference STRUTEX, Liberec, Czech Republic	Sustainable Industrial Design of Textile Structures for Composites	Marcin Barburski	Faculty of Textile Engineering TU Liberec	30.11.-02.12.2022		STRUTEX Czechy 2022
12	Seminar	WP 6. Spotkanie z przemysłem		Monika Malinowska-Olszowy	Łódź University of Technology	15.12.2022		WP 6. Spotkanie z przemysłem 15.12.2022
13	Seminar	WP 6. Spotkanie z przemysłem			Łódź University of Technology	13.10.2022		WP 6. Spotkanie z przemysłem 13.10.2022
14	Seminar	WP 6. Spotkanie z przemysłem			Łódź University of Technology	25.01.2023		WP 6. Spotkanie z przemysłem 25.01.2023 - aerodynamika
15	Seminar	WP 6. Spotkanie z przemysłem		Małgorzata Koszewska	Łódź University of Technology	22.02.2023		WP 6. Spotkanie z przemysłem 22.02.2023
16	Conference	LightCon 2023	A sustainable Design of a Composite Parts - A holistic Approach SustDesignTex	Rebecca Emmerich	Deutsche Messe	14.06.2023	https://www.messe.de/en/	LightCon 2023
17	Seminar	Horizon4Poland'23	Closed sessions dedicated to EIT Health Partnerships and their impact on Pan-European collaboration	Agnieszka Michałowska-Dutkiewicz		22.11.2023		Horizon4Poland'23.pdf
18	Conference	ICNF 2023	ANALYSIS OF THE EFFECT OF EMBROIDERY DENSITY ON THE STRENGTH OF THE COMPOSITE CONTAINING TECHNICAL EMBROIDERY MADE OF FLAX FIBERS AS REINFORCEMENT	Agata Poniecka, Marcin Barburski, Adam Puszkarz	Universidade do Minho	19-21.06.2023	https://www.icnf2023.fibrenamics.com/	ICNF 2023 Madera
19	Conference	ICNF 2024	SUSTAINABLE INDUSTRIAL DESIGN OF TEXTILE STRUCTURES FOR COMPOSITES PROJECT	Agata Poniecka, Marcin Barburski	Universidade do Minho	19-21.06.2024	https://www.icnf2023.fibrenamics.com/	ICNF 2023 Madera
20	Seminar	Hot Topics in Science and Technology	„Sustainable fire-resistant composite”	Marcin Barburski	Łódź University of Technology	14.09.2023		WP 6. Spotkanie z przemysłem, Hot Topics Science and Technology, 14.09.2023
21	Seminar	XIII PCBBE 2023	Textiles in lightweight composite structures	Marcin Barburski	Łódź University of Technology	26.09.2023		XIII PCBBE 2023.pdf
22	Seminar	Meet & Exchange Workshop on Widening Package in HorizonEurope,	Sustainable Industrial Design of Textile Structures for Composites	Marcin Barburski		02.09.2022		Meet & Exchange Workshop 02.09.2022.pdf

Another dissemination and communication activities:

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

New projects		
Title	Call	Submission date
Sustainable TRansition of textile & clothing sector towards climate Neutrality Goals	Open Call Collection OC-2023-1	25.10.2023
MicroPlastGuard - Mitigating Microplastics Pollution through Advanced Baltic Cooperation	SI Baltic Sea Neighbourhood Programme - Cooperation projects	13.02.2024
CIRCULAR BIO UPCYCLING FOR INCLUSION	Horizon CL6 – CircBio-02-5-two-stage: Circular design of bio-based processes and products	22.02.2024
Sustainable Solutions for Reducing Microplastics/Synthetic Fibers release and Mitigating Water Pollution in Fashion	Call 2024 Round 1 KA2	05.03.2024
Using residue agro-waste hemp for composite structures	Daina 3	15.03.2024
EXTENDED PRODUCER RESPONSIBILITY AND OPEN RECYCLING LOOP WITH 3D PRINTING TECHNOLOGY	HORIZON-CL6-2024-CircBio-01-2	22.02.2024
Coated polyester textile waste circular solutions: innovations in bio-based recycling process and reuse	HORIZON-CL6-2024-CIRCBIO-02	22.02.2024

Awards		
Name		
Naukowiec Przyszłości 2023. Forum Inteligentnego Rozwoju "Inicjatywa doskonałości - uczelnia badawcza"		
Nomination "Symbol Synergii Nauki i Biznesu 2022"		
Nomination "Lider Inteligentnego Rozwoju 2024"		

Others		
EPIBOOST - BOOSTing excellence in environmental EPIgenetics (GA n. 101078991), at the University of Aveiro, Portugal - Marcin Barburski as a Advisory Board Member	WP 6. Meeting Pietrucha+ITA+TUL	WP6. Meeting with industry 14.02.2023

d) Future conferences

Table 4. List of future events

Name of the event	Partner attending	Estimated date	Link
ICNF 2023 Conference – poster and oral presentation	TUL	19-21.06.2023	https://www.icnf2023.fibrenamics.com/
ITMA 2023 participation	TUL	08-14.06.2023	https://itma.com/exhibitors/composites
ADDITC23	ITA	30.11.-01.12.2023	https://www.aachen-dresden-denkendorf.de/itc/
LightCon 2023	ITA	13.-14.06.2023	https://www.lightcon.info/de/

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

JEC 2023	ITA	25.-27.04.2023	https://www.jec-world.events/
Summer School	ALL	6.-17.05.2024	

6.4 Scientific Publications

The Consortium as a whole acknowledges that providing Open access is mandatory in Horizon Europe when peer-reviewed scientific publications are produced. The Consortium as a whole is aware that the main requirement in Horizon Europe is for immediate open access through a trusted repository whether the publication is in open access venue or not. The journals, where the publications are planned, are fully open-access publishing venues (venues, in which the entire scholarly content is openly accessible to all) and hybrid venues. As for the “Composites Science and Technology”, the “Composites” Part A “Applied Science and Manufacturing” and the “Fibres and Textile Eastern Europe” journals, they are full open access publishing venues. The associated costs are allocated in the project budget under “Purchase Costs”. As for the “Textile Research Journal” and the “Journal of Industrial Textile”, they are hybrid venues, and publications in them will be funded by the beneficiaries’ institutions.

Publication information										
Type of PID (Repository)	PID (Publisher version of record)	PID of deposited publication	Type of publication	Link to publication	Title of scientific publications	Authors	Title of the journal equivalent	Publisher	Year of publication	Month of publication
DOI	https://doi.org/10.1093/oxfmat/ita017		Article in scientific journal	https://academic.oup.com/soom/s/article/3/1/ita017/7277208	Textile architecture for composite materials: back to basics	Amit Raval, Abhijit Majumdar, Vijay Kumar	Oxford Open Materials Science	Oxford University Press	2023	September
DOI	https://doi.org/10.1080/15376494.2023.2248122	DOI: 10.1080/15376494.2023.2248122	Article in scientific journal	https://www.tandfonline.com/doi/full/10.1080/15376494.2023.2248122?scroll=top&needAccess=true	Experimental determination for interlaminar tensile strength of reinforced epoxy composites with flax fibers for L-angle specimens	David José Pueyo, Jesús Cuartero, David Ranz & Marcin Barbuski	Mechanics of Advanced Materials and Structures	Taylor & Francis	2023	August
DOI	https://doi.org/10.3390/ma17030648	https://doi.org/10.3390/ma17030648	Article in scientific journal	https://www.mdpi.com/1996-1944/17/3/648	Numerical Modeling of the Thermal Insulating Properties of Space Suits	Michał Dziegielewski, Ryszard Korycki, Halina Szafranka, Marcin Barbuski	Materials	MDPI	2024	January

7. Exploitation strategy

The outcomes and the expected wider scientific, economic and societal effects of the project contributing to the expected impacts: The needs of the advancement of R&I skills, a collaborative research and a rapid translation of research results into industrial innovation needs in this field in Poland and in the Lodz Region will be met by the expected results. The outcomes expect to be achieved after successful dissemination and exploitation of project results to the target group(s):

- Scientific: participation of TUL researchers in international textile conferences and forums with poster presentations / oral presentations will increase by 25% annually (the baseline is 3 presentations); with scientific reports – by 10% (the baseline is 1 presentation) (Significant);

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Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

TUL will organise annually a national and an international textile conferences (now the number of conferences in average is 1 for 2 years) (High Scale); web-based and social network promotional platforms will continue their work; the Joint Research and the Innovation Road Map will be annually amended (Significant); the numbers of international partners of FMTTD will increase twice (the baseline is 12); the Strategic Post-Twinning Programme of Networking and Cooperation and the Work Plan of its implementation for the first five years after the project end will be implemented (Significant).

- Economic: the Science-Business Forums will be organized by TUL annually (now there is no tradition of their organization) (High Scale); trainings in new textile methodology for business and science community will be conducted annually (now there is no tradition of their organization) (Significant); the number of collaboration agreements with businesses will increase by 10% each year (the baseline is 0,75 agreement annually).
- Scientific: The network of the advanced European Universities and the Polish HEI will become a strong sustainable research partnership with shared infrastructure, equipment, research methodologies, research Roadmap and Work Plans; the advanced partners will develop their research with taking into account the research opportunities, infrastructure, equipment, skills and topical priorities of the other partners that will widen their possibilities (High Scale, Significant).
- Economic: the s3 Strategy of the Lodz Region and Poland will be implemented in a more efficient way (High Scale, Significant); the European TRC producers and users will get an opportunity to compete with the US and Chinese ones (High Scale, Significant). The industrial companies in Poland will get TRCs cheaper and more tailored according to their interests and needs (Significant). Societal: Gaining the maximum comfort of the final users in the fields where TRC are applied (High Scale).

The outcomes expect to be achieved after successful dissemination and exploitation of project results to the target group(s):

- Scientific: After the SustDesignTex project end TUL will apply for at least 2 international research project grants with the partners, participating in this consortium (the baseline is 0 grant application with these partners); the number of international research projects proposals, in which TUL participate as a partner, will increase by 50%, as a leader – by 10%, each TUL team participating in the international research projects or applying for them will include at least 1 ESR (the baseline is: participation as a partner in 10 projects, as a leader – in 6 applications) (Significant); FMTTD will have an annual lecture course or a set of workshops conducted by representatives of the foreign partners’; FMTTD will organize annually workshops for SMEs, correlated in time with an annual lecture course or a set of workshops

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Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

for TUL staff, conducted by representatives of the foreign partners (Significant); not less than five ERC applications will be submitted by the TUL researchers under the supervision and support of the ITA researchers during five years after the project end.

- Societal: The TUL Gender Equality Plan implementation will be analysed and GEP will be updated with the use of the Guidelines for the Gender Equality Plan Advancement at the end of the project; in five years the results of the updated GEP will be analysed and the new circle of the former advanced partners’ experience transmission and implementation will be conducted (High Scale).

The outcomes expect to be achieved after successful dissemination and exploitation of project results to the target group(s):

- Scientific: The number of PhD students, making their theses in TRC will increase by 50% in 5 years (the baseline is 6); the number of PhD students, graduating with a doctoral degree, will increase by 50% (the baseline is 2); Summer Schools and workshops for ESRs will be conducted annually (the baseline – 0) (High Scale); publications in peer reviewed journals will increase by 25% annually (the baseline is 1,45 article per researcher a year); the innovative products in TRC field will be presented to the public, and patent application in the textile field will be conducted not less than 3 times in 5 years after the project end (the baseline is 1 in 5 years) (High Scale, Significant); one Double Degree Master and one Double Degree PhD programmes in the field of innovative textile structures for composites industrial design will be developed by the consortium members (the baseline – 0 programmes); training in new textile methodology for business and science community will be conducted annually (now it is organized randomly) (High Scale).
- Economic: The optimization and reduction of costs for TRCs, advancement and constant monitoring of their reliability (Significant). Societal: The sustainable types of composites will prove their reliability and become more popular (High Scale).

The outcomes expect to be achieved after successful dissemination and exploitation of project results to the target group(s):

- Scientific: Sustainable Development and climate change issues, best practice in the recycling of TRC and ecological footprint issues are included in all the Master and PhD thesis at the FMTTD (Significant); manual on LCA tailored for different types of composites and their reinforcements published (High Scale).
- Economic: Sustainable Development and sustainable TRCs will become an indispensable part of the research activities planned in the Research Roadmap (High Scale, Significant). Societal:

Call: HORIZON-WIDERA-2021-ACCESS-03/Twinning

Project SustDesignTex (GA No. 101079009), title: „Sustainable Industrial Design of Textile Structures for Composites” funded by the European Union

Master, PhD students of FMTTD, ESRs will regard sustainability issue as their scientific mission inside their field of research (Significant).