



EUROPEAN COMPANY DATABASE FOR SMART TEXTILES AND ADVANCED MATERIALS

Deliverable n°: XY

***European company Database
for smart textiles and materials***

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FOREWORD

This database is a comprehensive data collection material of EU companies, active in the fields of smart textiles and smart materials production. Companies are organized by Classification of technical textiles.

In this database, micro to large companies, startups and incubator projects are collected and presented.

By designing this database, we offer young people information regarding their fields of interest.

Database offers a well-organized, structured overview of EU textile companies active in the fields of smart textiles, smart technology and advanced textile materials as also EU based manufacturers of raw materials, components and services to support ideas in smart textile fields.

The companies in this database are organized based on their specific line of work due to established Classification of technical textiles.

To clearly define the fields of work in which the company is active, pictograms were developed and are provided at the head of the table describing each company. To better understand the meaning of each pictogram, a list of definitions is provided at the beginning of this document.

Each table is equipped with relevant information about the company so the reader can grasp important information right away. Information such as where the company is located, website, logo, brief description of company products and technology used are provided in each table.

To ease the search through the textile database, this booklet is provided with a table at the very beginning where all the company names and fields of work are provided with the page number so the reader can quickly browse through the booklet.

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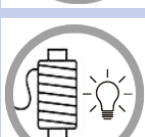




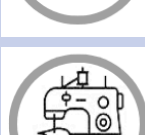



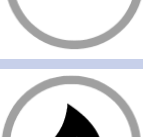
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Introduction

For easier navigating through the database, pictograms were made for easier and more visualized depictions of fields in which companies are active.

Table 1: Pictograms and their explanation

	Knitting		Textile sensors
	Yarn production		Textile temperature sensors
	Smart Yarns		Medical Textiles
	Fabric Production		Textile design
	Non-wovens		Laminated materials
	Sewing		Workwear garments
	Pattern making		Outdoor textiles
	Weaving		Flame retardant

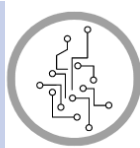
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Footwear



Printed electronics



Coatings

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LIST OF COMPANIES, LINE OF WORK AND PAGE NUMBER


COMPANY NAME	LINE OF WORK	PAGE NUMBER
Born GmbH Germany	Sporttech	7
Clim8	Sporttech	8
Schoeller	Sporttech	9
Prevent&Deloza	Sporttech	10
GoodPRO	Protech	11
Teijin Aramid	Protech	12
Wearin	Protech	13
WarmX	Protech	14
Interactive Wear	Protech	15
Albiro	Protech	16
Holik International	Protech	17
pykrs	Protech	18
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Nuada	Medtech	20
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Printed Electronics	Printed electronics	23
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SPORTTECH

In this chapter, companies that classify and are active in the SPORTTECH fields are presented.

Each table is equipped with pictograms, depicting lines of work where companies are active in, country where company is located, description of available products and technologies as well as web site and a brief company description.

Table 2: Company Born

HACKTEX		SPORTTECH	
COMPANY NAME		Born GmbH Germany	
<div><div></div><div></div><div></div><div></div><div></div></div>			
COMPANY TYPE AND SIZE			
COUNTRY			
		Germany	
PRODUCTS AVAILABLE		Innovative technical textiles, tailor-made “wearables” with integrated sensors, electrodes or stimulators, intelligent yarns and high-end electronics, medical textiles, fashionable knitwear, design, development, and sales of trendsetting fashion collections.	
TECHNOLOGY AVAILABLE		Modern flat and circular knitting machines, modern HF welding and thermal printing machines, textiles for electrical muscle stimulation, intelligent yarns and high-end electronics	
WEB PAGE		https://born-germany.de/en/home/	
COMPANY DESCRIPTION		Family-run, integrated textile company since it was founded in 1991. Using the most modern textile and knitting machines, they develop and produce trendsetting, innovative textile products. Focusing on medical textiles such as orthopaedic human and veterinary bandage systems. Born GmbH owns various patents in the smart textiles field and is constantly refining them in collaboration with customers, leading technical universities and technical colleges.	

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Table 3: : Company Clim8













		SPORTTECH		
COMPANY NAME		Clim8		
				
COMPANY TYPE AND SIZE				
COUNTRY		France		
PRODUCTS AVAILABLE		Motorcycle, outdoor, workwear gloves and mid-layer sweatshirts with integrated heating system, body temperature sensors, impact and self-regulating heating systems.		
TECHNOLOGY AVAILABLE		Intelligent heating with artificial intelligence embedded in the core8 products. Automatic on-body detection system. Seamless heating elements, smart battery system with intelligent battery usage.		
WEB PAGE		https://myclim8.com/		
COMPANY DESCRIPTION		A premium wearable technology and special ingredient brand with deep roots in science, data and textile provides a personalized and automated thermo-regulation experience. A multi-disciplinary team of experts from a wide range of fields, including Doctors, Engineers and Specialists in Thermophysiology and Human Comfort, IoT, Electronics, Textile Design and Manufacturing.		

Table 4: Company Schoeller

		SPORTTECH	
COMPANY NAME		Schoeller	
			
COMPANY TYPE AND SIZE			
COUNTRY		Switzerland	
PRODUCTS AVAILABLE		Functional textiles (Outdoor, sports, Lifestyle, Cosmopolitan), Protective textiles (Motorcycle, Multinorm, Police and military, Circular Workwear), Knitted textiles (absorption, insulation, protection, protection plus), Technical Textiles	
TECHNOLOGY AVAILABLE		Flame protection with the aid of pyroshell™ technology. Wind and rain protection with c_change™ membrane, ideal moisture management with 3XDRY® technology, maximum abrasion resistance with cerspace™ technology. For special units, a suppressed thermal signature – integrated into the specific local camouflage print – with camoshield™ technology. Etc.	
WEB PAGE		https://www.schoeller-textiles.com/en/	
COMPANY DESCRIPTION		The globally-operating company specializes in the sustainable development and production of innovative textiles and textile technologies, which are leaders in niche markets worldwide.	

Table 5: Company Prevent&Deloza

	SPORTTECH				
COMPANY NAME	Prevent&Deloza				
					
COMPANY TYPE AND SIZE					
COUNTRY	Slovenia				prevent  deloza
PRODUCTS AVAILABLE	<p>Tactical and hunting, flameretardant, medical clothes gear.</p> <p>FireCat gear is sensor-equipped suit for work in dangerous environments. It includes a built-in sensor, an alarm, a first aid plan and a black box. The sensors warn the user about the potential danger as well as inform the central base about the situation, thus ensuring safer conditions in the field.</p> <p>KINSHIRT is a kinesiological assistant and a next-generation active, smart shirt, which enables the user to gain valuable insight into the most efficient way to perform individual exercises and reach optimal results, based on data, which is gathered by textile-integrated super sensitive sensors.</p>				
TECHNOLOGY AVAILABLE	Textile integrated sensors, sending analysed data directly to the Mobile App via Bluetooth. Factors of breathing frequency, cadence, arms/legs acceleration, and the mobile app interprets the results in a precise visual graphic				
WEB PAGE	https://www.prevent-deloz.si/sl/				
COMPANY DESCRIPTION	Leading the way in the most innovating protective garment out there. Products meet the standards, do their job flawlessly and look good doing it.				

PROTECH

In this chapter, companies that classify and are active in the PROTECH fields are presented.

Each table is equipped with pictograms, depicting lines of work where companies are active in, country where company is located, description of available products and technologies as well as web site and a brief company description.

Table 6: Company GoodPro

		PROTECH	
COMPANY NAME		GoodPRO	
			
COMPANY TYPE AND SIZE			
COUNTRY		Czech Republic	
PRODUCTS AVAILABLE		Non-flammable suits, gloves, underwear, curtains and covers. Aluminised suits, protective helmets, shields and hoods.	
TECHNOLOGY AVAILABLE		Production and development of personal protective equipment against heat risks, smart garments for firefighters with new level of active protection. Integrated, sophisticated electronic systems. Smart garments with active protection, providing warnings about possible danger situation and communication with the commander of the intervention.	
WEB PAGE		https://www.prevent-delozas.si/si/	
COMPANY DESCRIPTION		Protection wear combining latest technology with outstanding comfort.	

Table 7: Company Teijin








		PROTECH			
COMPANY NAME		Teijin Aramid			
					
COMPANY TYPE AND SIZE				 <i>Human Chemistry, Human Solutions</i>	
COUNTRY		Netherlands			
PRODUCTS AVAILABLE		Ballistic vests, automotive breaks, civile engineering products, composites, conveyor belts, cur-protection products, elastomer reinforcements, engineering plastics, flexible flowlines and umbilicals, friction paper, heat and flame resistant garments, helmets, kiteboarding, mooring lines, motorcycling, optical fibre cables, parachute cords, ropes and cables, sailing, sealing materials, thermoplastic pipes, tires, yachting.			
TECHNOLOGY AVAILABLE		Twaron, Teijinconex, Endumax, Technora			
WEB PAGE		https://www.teijinaramid.com/en/products/twaron/index.html			
COMPANY DESCRIPTION		World's number one aramid producer with a near-50% market share. A company with customers in 74 countries, that has helped break records, send spacecraft to Mars, and drive progress in Formula One.			

Table 8: Company Wearin









		PROTECH	
COMPANY NAME		Wearin	
 			
COMPANY AND SIZE	TYPE	Tech spin-off	
COUNTRY	Switzerland		
PRODUCTS AVAILABLE	Modular, plug-and-play sensors in protective vests for connected miners, logistic workers, construction workers. Rugged, modular sensors adapted to each mission for defence personnel, Modular, integrated sensors for safer agents and officers, Modular, integrated sensors for safer first responders.		
TECHNOLOGY AVAILABLE	Real-time insights for improved mission outcomes, intelligent IoT platform that generates real-time insights by capturing in-mission data from connected sensors and devices. With automatic alerts and a digital platform to visualize key data, Wearin’ helps detect and prevent health and safety risks, improve live coordination, and enable remote guidance.		
WEB PAGE	https://wearin.tech/		
COMPANY DESCRIPTION	Company connecting and protecting people in high-risk situations with intelligent IoT solutions that make missions safer and smarter.		

Table 9: Company WarmX

		PROTECH	
COMPANY NAME		WarmX	
			
COMPANY AND SIZE	TYPE		
COUNTRY		Germany	
PRODUCTS AVAILABLE	Heating underwear for leisure, motorcycling, riding, and hunting.		
TECHNOLOGY AVAILABLE	Product development, hard and software development especially adjusted to textile needs,		
WEB PAGE	https://www.warmx.de		
COMPANY DESCRIPTION	Manufacturer of heated underwear gained reputation amongst developers of smart textiles. Patented warmX-technology can be employed in a wide range of applications.		

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Table 10: Company Interactive Wear

		PROTECH		
COMPANY NAME		Interactive Wear		
				
COMPANY TYPE AND SIZE				
COUNTRY				Germany
PRODUCTS AVAILABLE		<p>conductive textiles to develop and produce lightweight, flexible but robust systems, collaborating with research institutes and specialists for embroidery, weaving and trims to provide components for apparel and interior designers.</p> <p>Electronics integrated into flexible environments, especially garments and other textile products.</p> <p>Providing components and techniques to merge electronics with textiles, resulting in smart systems and products. Provide new concepts of multimodal user interaction, comprising textile products as smart interface, the integrated electronics for data acquisition and control, application software for data analysis and mobile applications for complex user interaction</p>		
TECHNOLOGY AVAILABLE		Product development, Consulting and engineering, components and systems,		
WEB PAGE		http://www.interactive-wear.de/		
COMPANY DESCRIPTION		<p>Company develops and produces electronic systems designed for textile integration and wearable systems enabling customers to digitize, interconnect and innovate their products. Company focus covers heating, light, sense and feedback solutions. Utilizing technologies such as flexible conductive textiles, connectivity components and modular electronics platforms. Distributed software architecture includes</p>		

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real-time embedded systems, application software and mobile applications.

Table 11: Company Albiro




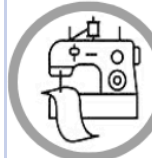
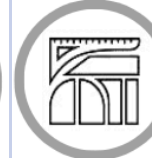

		PROTECH	
COMPANY NAME		Albiro	
			
COMPANY TYPE AND SIZE			
COUNTRY		Austria	
PRODUCTS AVAILABLE		ALBIRO sells individual solutions. This is because the clothing must "grow" with the requirements and, in accordance with legal standards.	
TECHNOLOGY AVAILABLE			
WEB PAGE		https://www.albiro.at/service.html	
COMPANY DESCRIPTION		ALBIRO WORKWEAR ensures that the employees of a company are well dressed, represent their company stylishly and feel comfortable in their individual work clothes. From farmer to craftsman. Corporate fashion must be individual, highly functional and technically mature as well as adapted to the company's standards.	

Table 12: Company Holik












			PROTECH			
COMPANY NAME			Holik International			
  						
COMPANY AND SIZE		TYPE				
COUNTRY		Czech Republic				
PRODUCTS AVAILABLE		Production and development of firefighting and rescue, defence gloves and footwear and medical equipment.				
TECHNOLOGY AVAILABLE		Holik is using Poron XRD, D30 Impact protection material, Impacton-impact knuckle, Nomex, Kevlar, PBI, Porelle PU FR, Porelle PTFE, Ceramic, NANO, Explorer Sole, YUMA, TOPAZ bimicro materials. Regarding the technology, SensPro, RFID and NFC Chips are used				
WEB PAGE		https://en.holik-international.cz/				
COMPANY DESCRIPTION		Engaged in the production and development of gloves, footwear and medical devices. These fields are built on the combination of traditional and proven processes complemented by modern technologies.				

Table 13: Company Pykres

		PROTECH	
COMPANY NAME		Pykrs	
			
COMPANY AND SIZE	TYPE		
COUNTRY	Spain		
PRODUCTS AVAILABLE	Smart jackets with integrated lights, monitors for fall detection, Heating system and an SOS alert.		
TECHNOLOGY AVAILABLE	Pykrs jacket has integrated sensors for fall detection, GPS position and SOS alert system, has integrated light panels which makes the user three times more visible, has a long lasting battery and is waterproof. All the features of the jacket can be controlled via smartphone application.		
WEB PAGE	https://en.holik-international.cz/		
COMPANY DESCRIPTION	Outdoor company focused on developing, manufacturing and marketing sustainable, functional and smart jackets with a technological base		

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MEDTECH

In this chapter, companies that classify and are active in the MEDTECH fields are presented.

Table 14: Company Bioservo










	MEDTECH	
COMPANY NAME	Bioservo	
   		
COMPANY TYPE AND SIZE		
COUNTRY	Sweden	
PRODUCTS AVAILABLE	Sensor and cutting edge technology integrated in special gloves to offer muscle and strength support to people which muscular system is in need of extra help and support.	
TECHNOLOGY AVAILABLE	<p>Ironhand is the world's first active soft exoskeleton for the hand. The system consists of a glove, covering all five fingers, and a power pack worn in a backpack or hip-carry, using sensors located on the palm and on the fingers.</p> <p>Carbonhand is a revolutionary aid that gives back power to people with impaired hand function. Pressure sensors and advanced technology ensure the glove adds power in cases where the user's own muscles are inadequate. Pressure sensors in the fingers sense when the user needs support.</p>	
WEB PAGE	https://www.bioservo.com/	
COMPANY DESCRIPTION	World-leading company within soft muscle strengthening systems that enhance natural grasp strength and improve quality of life. Solutions provide support to people in need of extra strength, endurance or reduction of effort.	

Table 15: Company Nuada

		MEDTECH			
COMPANY NAME		Nuada			
					
COMPANY AND SIZE					
COUNTRY				Portugal	
PRODUCTS AVAILABLE		Hand functions support gloves that provide confident grip when hand functions are impaired due to ageing processes, injuries and illness.			
TECHNOLOGY AVAILABLE		Innovative hand function support system which uses thin, breathable, flexible and smart textiles to provide a light, non-intrusive, safe and small glove, to be used on an everyday basis. For people with Musculo-skeletal disorders, injuries, and work related repetitive movements that result in health problems.			
WEB PAGE		https://nuada.pt/			
COMPANY DESCRIPTION		NUADA is empowering everyday tasks of the weaker hands. Talking about an orchestrated daily care that allows active people, who find themselves less resourceful, to regain autonomy and reconnect with the world around them.			

PRINTED ELECTRONICS

In this chapter companies, active in printed electronics are presented.



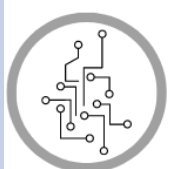

Table 11: Company Innovation Lab

		PRINTED ELECTRONICS	
COMPANY NAME		Innovation Lab GmbH	
			
COMPANY TYPE AND SIZE			
COUNTRY		Germany	
PRODUCTS AVAILABLE		<p>Force-sensitive Matrices, BaMoS - The Innovative Battery Monitoring Solution for Automotive Applications, SensorMatrixLAB, Power in any shape you can imagine: TAeTTOOz®.</p> <p>Services available: Adjustment of the layout and specifications of existing sensor technologies according to requirements, development of novel sensor technologies and sensor systems, design, development and production of hardware and software components. Embedding of sensors into hardware, software and cloud systems, data analysis using machine learning algorithms</p> <p>Prototyping.</p>	
TECHNOLOGY AVAILABLE		Printed Organic Electronics, Printed Organic Sensors.	
WEB PAGE		https://www.innovationlab.de/en/printed-electronics/about-us/innovationlab/	
COMPANY DESCRIPTION		Expert for printed and organic electronics with a focus on flexible printed pressure sensors.	

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Table 162: Company Elnatas

		PRINTED ELECTRONICS	
COMPANY NAME		Elantas Europe	
<div></div>			
COMPANY AND SIZE			
COUNTRY		Germany	
PRODUCTS AVAILABLE		Wire enamels, Impregnating materials, castin and potting materials, flexible electrical insulation materials, Materials for electronic protection, materials for tool and composites, speciality, and industrial coatings, printed electronic products.	
TECHNOLOGY AVAILABLE		Coatings for applications in various market segments like non-stick coating, floor and anti-friction coatings. High-performing range of enamels for the use as magnet wire coatings, chemistries related to impregnation materials, supplies product solutions designed for use with application processes including room temperature hot polymerization, manual or through dosing systems, printing of electronic parts makes it possible to eliminate electro mechanical switches and knobs, etc., integrate into 3D surfaces, combine decoration and functionality, and embed LED and backlight.	
WEB PAGE		https://www.elantas.com/	
COMPANY DESCRIPTION		Leading manufacturer of insulating and protective materials with focus on the global electrical and electronics industry. Portfolio of wire enamels, impregnating resins and varnishes, casting and potting resins, flexible electrical insulation materials, materials for electronic protection, specialty industrial coatings, products for printed electronics as well as a wide range of tooling and composite materials	

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Table 17: Company Pel Limited



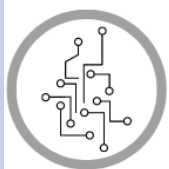


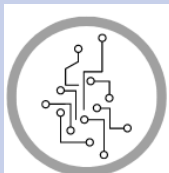

		PRINTED ELECTRONICS	
COMPANY NAME		Printed Electronics	
<div></div>			
COMPANY AND SIZE			
COUNTRY			
		United Kingdom	
PRODUCTS AVAILABLE		Pel uv cure system for dimatix dmp, El. Controller, wearables – fabric circuits, Fabric LED screen, Printed sensors,	
TECHNOLOGY AVAILABLE		Experts in embedding electronics where electronics are not normally expected. medical, antennas, sensors, displays and printed batteries. Integrating elements with paper, plastic film, fabrics, ceramics, metals, and even large 3D physical objects. Supply training, product and process development for companies, universities and research organisations all around the world	
WEB PAGE		https://www.printedelectronics.com/	
COMPANY DESCRIPTION		Experts in functional printing, material deposition, inkjet and digital technologies.	

Table 18: Company Sensing Tex



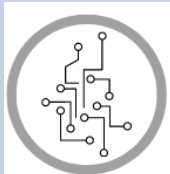

		PRINTED ELECTRONICS	
COMPANY NAME		Sensing Tex	
			
COMPANY TYPE AND SIZE			
COUNTRY		Spain	
PRODUCTS AVAILABLE		Smart sensing mats, sensing wear ans luminous tex, as also supporting ideas,	
TECHNOLOGY AVAILABLE		Patented mapping sensors technology to make smart sensing mats. The technology can be applied by using completely standard weaving, printing, lamination and impregnation techniques which maintain the original properties of the material such as the flexibility, elasticity, comfort and the possibility to be washed.	
WEB PAGE		https://sensingtex.com/	
COMPANY DESCRIPTION		Based on patented technology of Stretchable Circuits, company whose services have a large international presence around the Globe.	

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Table 19: Company Quad Industries

		PRINTED ELECTRONICS	
COMPANY NAME		Quad Industries	
<div></div>			
COMPANY TYPE AND SIZE		Belgium	
COUNTRY			
PRODUCTS AVAILABLE		Flexible printed electronics, Electric heating technologies, the Positive Temperature Coefficient flexible heaters, medical monitoring solutions such as medical skin patches, wearable skin patches,	
TECHNOLOGY AVAILABLE		Quad Industries is active in many areas, including the automotive sector, industry, home appliances and medical environments. They have expanded their activities in the fields of printed electronics even further, providing sectors with innovative, flexible sensor solutions.	
WEB PAGE		https://www.quad-ind.com/contact/	
COMPANY DESCRIPTION		Quad Industries has been at the forefront of printed electronics for over 25 years. Making a reliable partner for the development and manufacturing of user interfaces, control panels and flexible sensors for various mark, focusing on R&D, Engineering, prototyping and manufacturing.	

List of Europ based industrial textile application elements producers

In this chapter EU based producers of textile elements, components for further use in smart textile manufacturing are presented.

Polisilk, Spain: Produces Biobased and degradable yarns, long-lasting antibacterial polypropylene multifilaments, bicomponent yarns, Polypropylene multifilament yarns with higher temperature resistance etc.

Web: <http://www.polisilk.com/>

E.Cima, Spain: Produces technical Fabrics, 3D and spacer fabrics, polar textiles, meshes and nets.

Web: <https://ecima.com/en/>

Gerster Tectex, Germany: Technical textiles such as woven and braided hoses and high-strength tapes, Composite materials such as knitted and weaved multiaxial ribbons, tapes, Smart Textiles such as light emitting and heating fabrics.

Web: <https://gerster-techtex.com/en/>

GenTherm, Germany: Active in three fields: In automotive it produces automotive seat comfort and seat climate regulation systems, in medicinal field it produces temperature regulation systems for patients and in field of electronics they offer assembly and manufacturing solutions for electronic components and optimizations of battery life spans.

Web: <https://gentherm.com/en/locations>

Embro, Germany: Active in fields such as technical embroidery offering flexible heating elements and systems, Functional medical textiles, Textile sensors, Textile Conductive tapes, Fibre reinforced textiles

Web: <https://embro-tech.com/en/products-services/flexible-electronics/>

Kufner, Germany: Active in technical textiles for Automotive, Aviation, Furniture, Garments, Medical, Flameretardent textiles

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Web: <https://kufner.com/>

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Technology providers for all specified application fields

List of EU based tech provides who offer support in electronical and component material in the field of smart textiles and smart technology.

COMPANY	COUNTRY	PRODUCTS	TECHNOLOGY
ITP-GmbH	Germany	Intelligent textile products, elastic conductive tape, heating tape, sensor yarns, cable tapes	Flexible area light, Elastic Heat, Textile speaker,
SATAB	France		
ApplyCon	Czech republic	Wearable Electronics and Smart Textiles, Design and Complex Engineering, Connector Technologies and Cable Assemblies,	https://www.applycon.cz/
Fibernamics	Portugal		https://www.fibrenamics.com/en
ComSensus	Slovenia	Hard-wear and Soft-Wear developers helping corporations and entrepreneurs develop digitalization solutions for various industries	https://www.comsensus.eu/
Vulpes Electronics	Germany	The Vulpés products and services consist of three coordinated and modularly structured development strands: the system, product and component development.	www.vulpes-electronics.net
V-trion	Austria	With leading edge research in the field of smart textiles the V-trion textile research	https://www.v-trion.com/

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		GmbH has achieved an international reputation and promote the branch.	
Styriatronic	Austria	Innovative technical products from customers product ideas in fields of smart textiles. They offer collaboratin with customer from first idea all the way to its readiness for launch.	https://www.styriatronic.com/en/how-we-work
Knitronix	Italy	Knitronix produces flexible sensors using smart fabrics. Sensors can detect tactile pressure, temperature and the presence of liquids.	https://www.knitronix.com

Conclusions

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