

COMET: K-Project

Textile Competence Centre Vorarlberg	
TCCV	
Main location	Dornbirn , Vorarlberg, A
Other locations	Innsbruck, Tirol, A; Wien, Wien A; Greiz, Thüringen, D; Wels, Oberösterreich, A; Hohenems, Vorarlberg, A;
Research programme	The overall vision of the TCCV is to conduct cutting-edge research in the field of smart textiles, (specific) textile-based composites and high-performance textile materials. Research endeavours will bundle the competencies of the textile manufacturers together with those of the scientists. A critical mass of expertise and research resources will be established in a physical research network structure centred in the region of Vorarlberg.
Planned realisation and outcomes	
An intersectoral research approach focusses on three research Areas. Area 1: research on textile reinforced composites will lead to scientific models of high performance products e.g. lightweight composites, aluminium textile hybrids. Area 2: Integration of sensors, adaptive materials, electrical devices in the textiles, miniaturisation and network formation will add new profiles as functional elements to the „Internet of Things“. Area 3: Molecular and micro composites through polymer coating, membrane formation, silicone based processes will lead to new high performance textiles e.g. sports textiles.	
History of establishment	The project developed from a series of FFG funded research projects
Selected company partners (max. 10)	Selected scientific partners (max. 5)
1. Kapsch AG, A	1.Univ. Innsbruck, Res. Inst. f. Textile Chemistry / T. Physics
2. Getzner Textil AG, A	2.TITV Textile Research Institute Thuringia/Vogtland, Greiz
3. Wolford AG, A	3. TCKT Transfercenter für Kunststofftechnik, Wels
4. Skinfit International, A	4. Univ. Innsbruck, Institute f. Sport Sciences
5. Schoeller Hard, A	5. Univ Innsbruck, Inst. f. Structural Eng. a. Material. Science
6. Alge Elastic, A	Selected international partners ¹ (max. 5)
7. Österr. Skiverband, A	1. Geobrigg AG, CH
8. Vorarlberger Stickereiwirtschaft, A	2. Kelheim Fibres, D
9. SAPA AG, A	3. Texmarket Srl., I
10. Fussenegger & Grabher GmbH, A	4. Pomoca, CH
	5.IDM Südtirol / Alto Adige, I
Start of the K-Project	01.04.2017 (4 years)
Number of personnel	12 (FTE) are involved (12 FTE are scientists)
Total costs	EUR 5,999,946.-
Leader of consortium:	Univ.Prof. Dr. Thomas Bechtold, Research Institute of Textile Chemistry and Textile Physics, Univ. Innsbruck, Head of Institute
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¹ Partners with headquarters outside Austria