



RESET

Interreg Europe



European Union
European Regional
Development Fund

Action Plan

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Action Plan

Title:

Supporting the Saxon Textile and Clothing Sector by Innovation and Know-how Transfer

Policy context:

ERDF Regional Operational Programme of the Saxony Region from 2014 - 2020: **Policy instrument to strengthen the applied research at universities and other research institutions of Saxony.**

RIS3 Strategy (Research and Innovation Strategy for Smart Specialisation): **Directed onto the interfaces between traditional, innovative branches, Key Enabling Technologies (KET) and future subjects with a high growth potential**

Central Innovation Programme for SMEs (ZIM):

German funding programme for SMEs and co-operating research institutions, focussed on the development of new products, technical services and better production processes

Background for the Action Plan

Basis is the key indicator for STFI within RESET project:

Four research projects between R&D centres & enterprises

Based on the thematic subjects of the RESET project, STFI used the following project activities to find new research ideas to initiate new R&D projects:

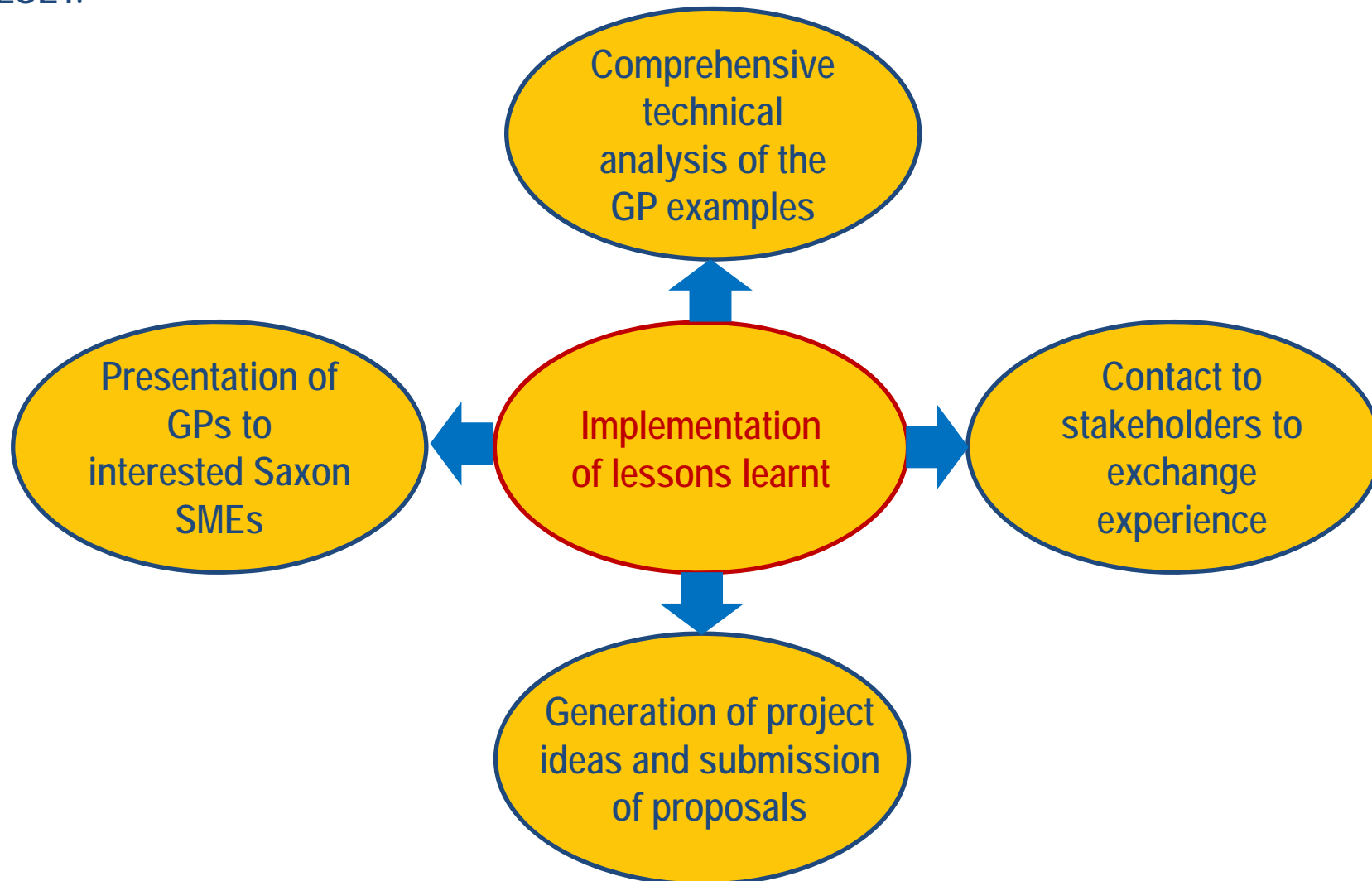
- Interregional learning process with Seminars/Workshops on Key topics where Good Practices (GP) were presented by the project partners
- Staff exchange (to deepen knowledge) / transforming learning into actions

Key topics:

- **Recycling**
- Water consumption and energy saving
- New sustainable chemistry
- **Smart textiles**
- Eco-creativity
- **New materials and new applications**


How the Action Plan was implemented

The **main output of the Action Plan** is the generation, submission and funding of **new research projects** which could be derived from the Good Practice examples presented within RESET.

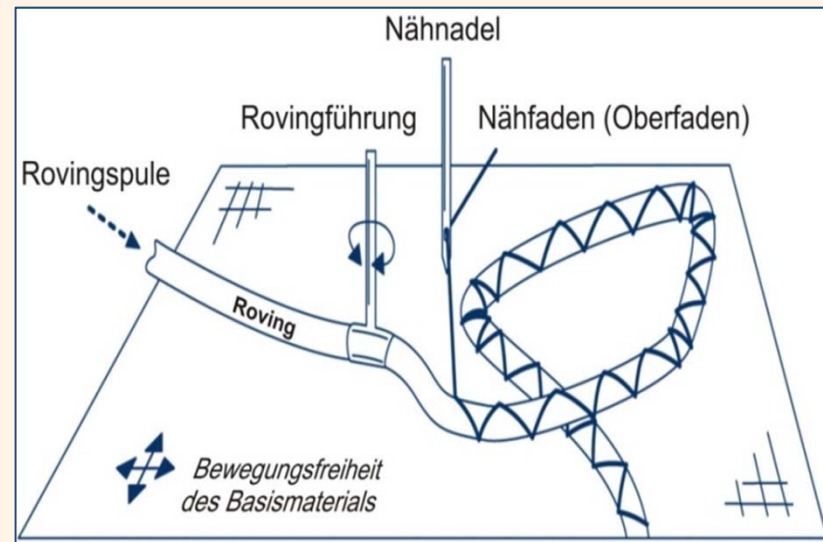


Results of the Action Plan

Initiation of new R&D projects funded by the Saxon ERDF

Title	Duration	Influenced by RESET thematic seminar
Development of a new technology to produce purpose-adapted reinforced nonwovens from recycled carbon fibres	2018-2020	Recycling in textiles and waste disposal 


Nonwovens made from recycled carbon fibres were used as substrate for technical embroidery in Tailored Fiber Placement (TFP). The nonwovens are manufactured partly or completely from recycled carbon fibres without any binders. Advantages in using rCF nonwovens as embroidery substrate is given through decreased material expenses, waste reduction and a better resource efficiency.



Principle of the positioning of rovings by means of TFP

Results of the Action Plan

Initiation of new R&D projects funded by the Saxon ERDF

Title	Duration	Influenced by RESET thematic seminar
Load bearing structures – Active areas with reactive structures for urban spaces	2018-2021	New materials and new applications 


Aim is the development of large-scale, multifunctional, modular, textile-based reactive structures for lightweight plane load-bearing structures for urban spaces. Currently, structures/fabrics are of static nature and not able to change/adapt their shape or geometry. Objective of the project is to develop a calculation model and different variants for implementation of thermally active and energetically closed structures.



Textile-based membrane structure

Results of the Action Plan

Implementation of R&D projects funded by other programmes

Title	Duration	Influenced by RESET thematic seminar
RE4TEX – New technologies for textile recycling (National cooperation network)	2019-2022	Recycling in textiles and waste disposal 

STFI decided to bundle research and development activities in the field of textile recycling in a joint cooperation network together with interested SMEs from the Saxon textile and clothing sector. Aim of RE4TEX is the optimization of existing and also the development of new innovative recycling techniques. In the focus are methods of design for recyclability and sustainable management in the recovery of raw materials from textile waste and their reutilization, closed materials cycles, the increase of recycling rates by means of innovative methods and a reduction of the waste amount during the production processes.



Results of the Action Plan

Implementation of R&D projects funded by other programmes

Title	Duration	Influenced by RESET thematic seminar
ReHaProtex - Regional network of innovation in health and rehabilitation textiles	2020-2022	New materials and new applications 

Aim is the establishment of a regional cooperation network of SMEs and research institutions using the complementary skills and experience and the development of joint R&D projects covering topics of interest for the health management sector. Following the know-how of the participating companies and existing market trends the main technological topics for R&D will be textiles for orthopedics and rehabilitation as well as smart textiles for the care sector.



Results of the Action Plan at a glance & outlook

Indicator	Number
New R&D projects (funded by ERDF)	4
New R&D projects/networks (funded by other programmes)	2
Cooperations with international and national partners to create new projects with SMEs in near future (in progress)	6
Continued dissemination activities for RESET	At all events where STFI is present

Territorial Impact of the Action Plan





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Thank you!

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Project smedia
