..for a sustainable development of the fashion industry

"We put a piece of our soul in each style we make"

Caterina Ailiesei
A creative Romanian company set up in 2003

Experienced producer of the entire range of women apparel, specialized in short series and customized clothing

Regular supplier on a CMT basis for more than 50 mid and high fashion labels in EU

Located in the most important economic center of the NE Region (Moldavia) – Iasi

Member of the Romanian Textile Concept Cluster Bucharest and, also, of the European Technology Platform for the Future of Textiles and Clothing
Our expertise and services

- CA pattern design and grading
- Sampling and prototyping
- Materials sourcing
- Technical support for new products development
- Short series clothing based on CMT system
- Technical documentation and costing
- Providing garment dyeing, enzyme washing and bio-finishing treatments through collaboration with expert domestic companies
Katty Fashion is a member of the Ethical Fashion Forum – the industry body for sustainable fashion, representing over 10,000 members in more than 100 countries.

We are a small factory with the mind to continue to grow in a steady, sustainable manner to create and maintain long term, mutually beneficial relationships.

Since 2010, we are keen on developing an own eco-friendly and ethical project - the Concept of Eco-Chic Ethical Ladies Wear and Home Textiles: Creating highly fashionable collections by using eco-innovative and recyclable materials thus combining social responsibility of protecting the local ecosystem, ensuring fair working conditions and supplying community support with offering beautiful and healthy clothing and beneficial home textiles.
Participation in projects funded by EU programmes

- Industrial partner in the project **NeoCel - Novel processes for sustainable cellulose based materials** – approved for funding by H2020-BBI-JU-2015 programme

- Associate Enterprise in the project **TCBL – Textile and Clothing Business Labs** - [www.project-tcbl.com](http://www.project-tcbl.com) - funded by the European Union Horizon 2020 programme, that aims to transform the Textiles and Clothing industry, with the objective of bringing 5% of production capacity back to Europe by 2025.
Our local and regional collaborators

The North-East Regional Development Agency - a generator of economic and social development in the North-East Region of Romania

Romanian Textile Concept Bucharest - the biggest T&C cluster in Romania, where KF leading the Innovation Department

The Faculty of Textile, Leather and Industrial Management, Technical University Gh. Asachi of Iasi

Association for Community Support and Social Integration aiming socio-professional integration of people with disabilities

Community Organization involving in the sustainable development of social economy, environmental protection, education and civic responsibility at locally

The Technical College Ioan C. Ștefănescu Iași prepares new workers and technicians for Textile Industry
The Textile ETP is focused to ensure the long-term competitiveness of the European Textile and Clothing industry and to reinforce the position of Europe as a leading global player in the development and manufacturing of fibres, textiles, textile-based products and apparel.

The T&C industry is a crucial sector for the European economy representing in 2015, as per EURATEX data, 1.69 million direct jobs in 175,000 companies generating €169 billion of annual turnover and being for many regions across Europe among the top 3 regional providers of industrial employment and GDP. In Romania, this sector is still the second engine of the national exports.
EURATEX and Textile ETP have launched in last October a new initiative - **RegioTex** - to boost textile innovation across Europe.

The public launch of the **RegioTex** initiative was held on 13-14 April at the Committee of the Regions in Brussels, an event co-organized by the Textile ETP and EURATEX in the 11th annual public conference of the Textile ETP, attending over 100 participants from 23 regions across 19 EU countries.

**RegioTex** aims to establish an effective European collaboration and peer-to-peer learning between regional actors - stakeholders from the T&C and related industries, their research, technology and education providers as well as public authorities and agencies - through a joint effort to develop and implement strategies that will facilitate and accelerate the emerging industrial renewal in traditional manufacturing regions across Europe.
RegioTex has been driven during its preparatory phase, since October 2015, by 6 European development regions:

- Catalunya and Valencia (Spain)
- Nord-Pas de Calais (France)
- Norte (Portugal)
- Nord-Est (Romania)
- West-Vlaanderen (Belgium)

Presently, more than 10 other regions are in the process of getting affiliated with RegioTex that remains open for all EU regions interested to support the innovation in the T&C sector and related areas.
Our Expression of Interest

We are fully aware of the huge impact of the processing and consumption of textile and clothing on the environment and human health and, therefore, we totally agree with the new European approach of a sustainable, eco-friendly development of the Textile and Clothing Industry.

We join the strategic vision of the ADR® Nord-Est of fostering the competitiveness, innovation and specialization of the regional T&C sector and building a sustainable, circular, competitive industrial hemp value chain in our region with cross-sectoral links at national and European level.

Therefore, together with our collaborators we are are going to set up
Vision: The development of textiles and clothing industry has to serve mankind making the production processes more ethical and reducing their negative impact on the environment, so do not compromise the future of the next generations.

Mission: Creating a structured environment to boost the building of a dynamic and competitive textile and clothing value chain of hemp in the NE Region, from agricultural fiber crops to finished products designed to fashion industry, medical or technical uses, through reviving the local industries already actives and supporting the setting up of new profitable companies.
Hemp – amazing resource for developing sustainable value chains

One of the oldest cultures of fibers in the world, hemp amazing plant can be processed almost entirely, in a large variety and flexible combination of products for a wide range of uses, also providing a sustainable and annually renewable source of energy and recyclable resources.
Hemp fibers: natural, extremely durable, UV and mould resistant

- woven or knitted fabrics for fashion industry
- home textiles
- protective clothing
- handbags and shoes
- ropes, cordage
- canvas for painting or tires
By-products uses

- Hemp short fibers serve as a raw material in the production of paper, bags and cloth for packaging.
- The automobile industry uses the hemp fibers for manufacturing parts such as door panels and dash boards.
- Composite materials like plastic, fiberboard, wallboard, roofing tiles, insulation, paneling, bricks and reinforced concrete can be made from the compressed inner short hemp fibers.
- The bulk of the woody stalks can be used for paper, animal bedding, oil absorbent, soil amendment, chemicals, plastics and eco-friendly fuels.
- The seeds of hemp provide quality fats, proteins and high nutritional value oils for nutrition and, also, used in healthcare products, cosmetics, paints, varnishes or lubricants.
Closing the loops...

Five possible hemp value chains for intra and inter-regional development have been identified by the North-East Regional Development Agency in collaboration with the Samenwerkingsverband Noord - Nederland.

Values chains are overlaying each other in the region and therefore forming each others environment.
Value chain 1

Regional seed production

Agro food (with high regional diversity)

Healthy feeding

Bio medicine

Upcycling rest material
(2nd harvest)

Fermentation to high caloric value fuel
(3rd harvest)

Regaining nutrients
Value chain 2

Consumer/company waste collection + harvesting landfills

Waste separation

Upcycling / recycling

Consumer grade production

Use of 'useless' rest material

Waste prevention (behaviour + education + smart factoring)

Water use reduction
Water collection and retention (including disposal)

Water use reduction
Behavior + education + smart factoring

Separation of:
- rain water
- grey water
- black water

Regaining nutrients

Sewage to fuels and biomaterials

Upgrading arable and natural land

Balancing local/regional climate effects
New materials and emerging technologies

Sustainable and integrative design (eco, think for recycle, modular)

Smart factory - Integrated Multiservice Platform – New business models (highly flexible, customisation, zero waste, low water use, renewable energy)

High quality live and sustainable products (prevention of 'use once' or not use at all)

Maintenance, repair, collection

Reduce, Re-use, Re-cycle, Up-cycle

Parts regaining

Regional branding

Consumer impact and perception

Value chain 4
Harvesting sustainable energy

Lowering energy consumption
(behaviour + education + smart factoring)

Smart energy infrastructure
(electricity and biofuels)

Regaining wasted energy (warmth/light)
Our challenge

Awareness and attract the interest of relevant stakeholders both at national and European levels for an effective partnership among technology providers, experts and SMEs in the field of textile industry to build a dynamic and competitive industrial value chain for hemp in the NE Region and across the Europe, from agricultural fiber crops to finished products designed to fashion industry, medical or technical uses.
Key partners we are seeking for:

- Textile education & research institutions, innovation agents and technology providers in EU that promote the development of high-tech and innovative textiles from hemp fibers

- Industrial partners active or interested in the target circular value chain: process equipment manufacturers, fibers and filament producers, fabric & non-woven producers, fashion and composite manufacturers
Waiting for sustainable build together, thank you for your kind attention.

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