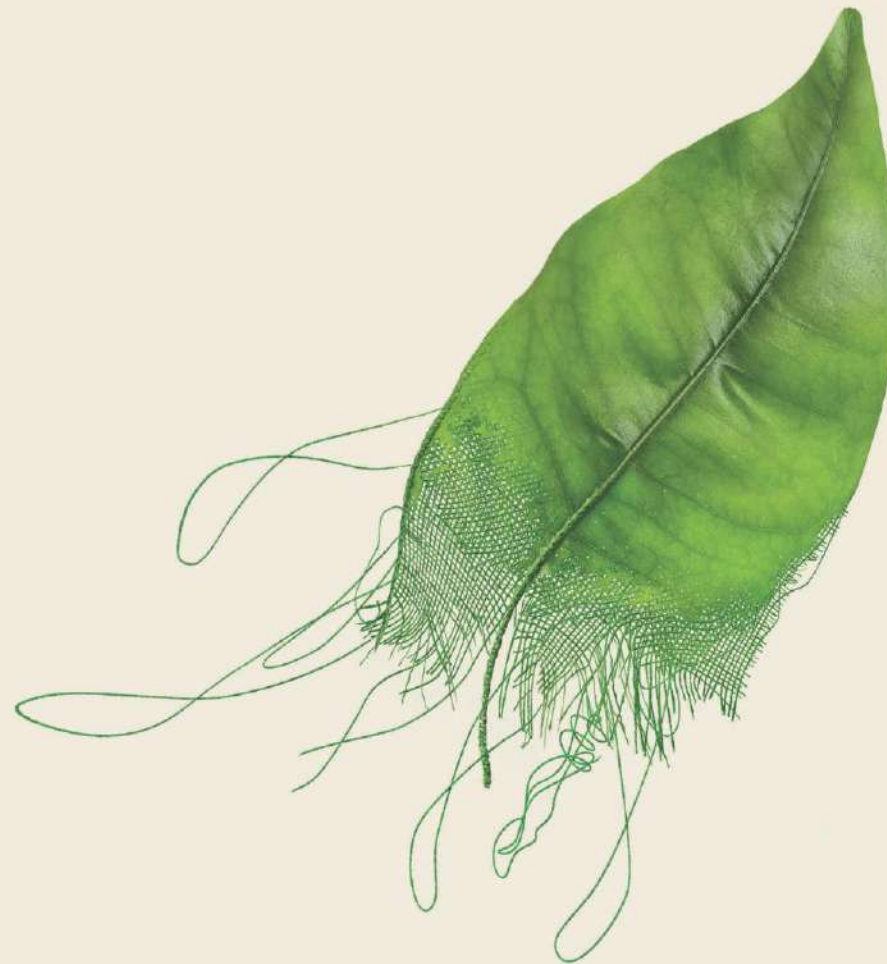


4th EDITION
VENICE SUSTAINABLE FASHION FORUM
OCTOBER 23rd AND 24th, 2025
VENICE, FONDAZIONE GIORGIO CINI

PRESENTATION BY STEFANO CAROSIO



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MODA FEDERAZIONE
TESSILE E MODA

 **The European House**
Ambrosetti

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VENETO EST**
Area Metropolitana
Venezia Padova Rovigo Treviso

VENICE
SUSTAINABLE
fashion

WITH THE CONTRIBUTION OF
 **CAMERA DI COMMERCIO
VENEZIA ROVIGO**

WITH THE PATRONAGE OF
 **VSF**
VENICE SUSTAINABLE FASHION
FORUM
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BORGOMASTRO
BORGOMASTRO

MEDIA PARTNER
 **25**
YEARS
CNBC
 **TV
MODA**

DIAMOND PARTNERS

 **alperia**



 **GT** GreenbergTraurig

 **UniCredit**

 **UniSalute**
SPECIALISTI NELLE ASSICURAZIONI SALUTE

PLATINUM PARTNERS

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ANYTHING CAN BE CHANGED

 **ACIAMT**
ITALIAN TEXTILE MACHINERY

 **Bemberg**
by Anelli Kael

 **CENTROCOT**
Innovation experience

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SEZIONE LINO

 **GUESS**

 **LEAF**
SAFETY, ETHICAL
and Fair Foundation

 **physis**
SUSTAINABILITY FOR GROUP

 **The House of
Lyrria**

 **PATTERN**
GROUP

 **Surge**



Connecting space and textile sectors for a sustainable future

The Future of Tradition Through Innovative Solutions

Stefano Carosio

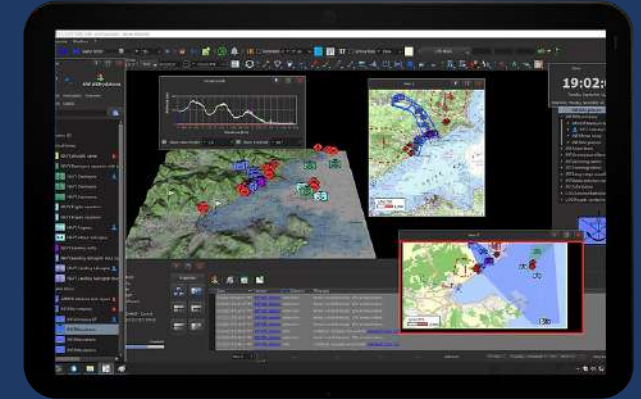
Executive Director

Venice Sustainable Fashion Forum, 24 October 2025

Engineering services empowered by innovation

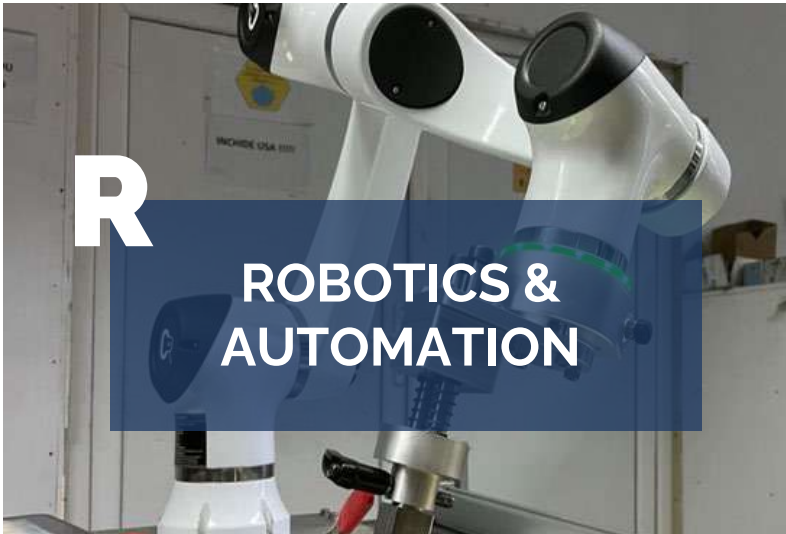
T&E

ENGINEERING, TECHNOLOGY & MANAGEMENT



R

ROBOTICS & AUTOMATION



D

DIGITAL SOLUTIONS & AI



S

ENERGY & SUSTAINABILITY



Our team, our power

115
PEOPLE

36
YEARS AVERAGE AGE



Space tech transfer at Stam, 28 years of hands-on experience

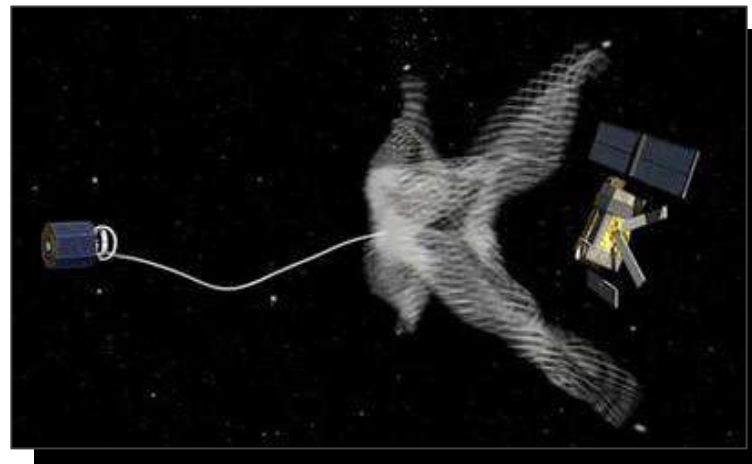
DAMAS - Digital
Innovation Hub for
AutoMotive and
AeroSpace



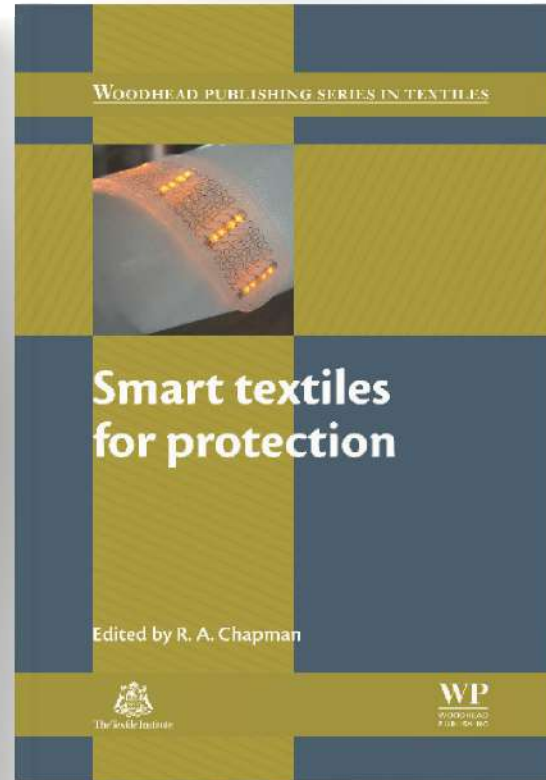
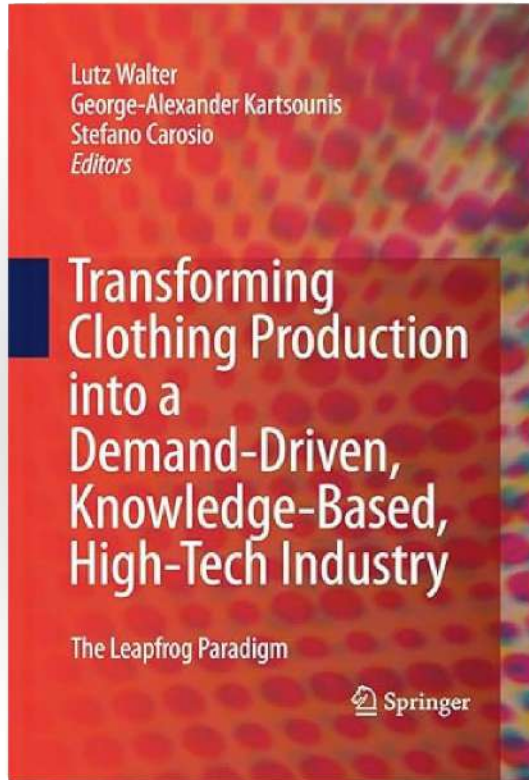
From **circular
economy** on **Earth**
to **life support
systems** in space



From
**space debris
removal** to the
security
of critical
infrastructures



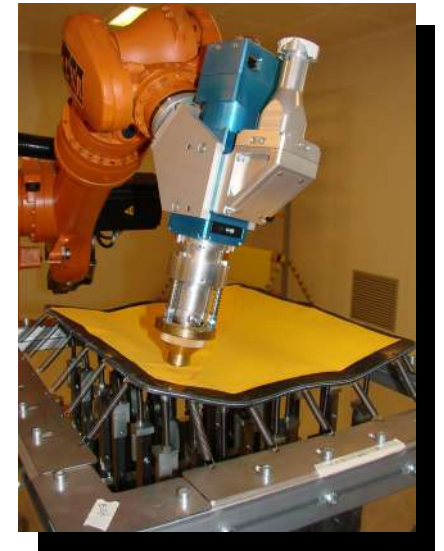
Down-to-earth in textile applications



Textile-reinforced materials with **shape memory** and **superelastic** fibres



Technologies and **automation** for textile and clothing processes

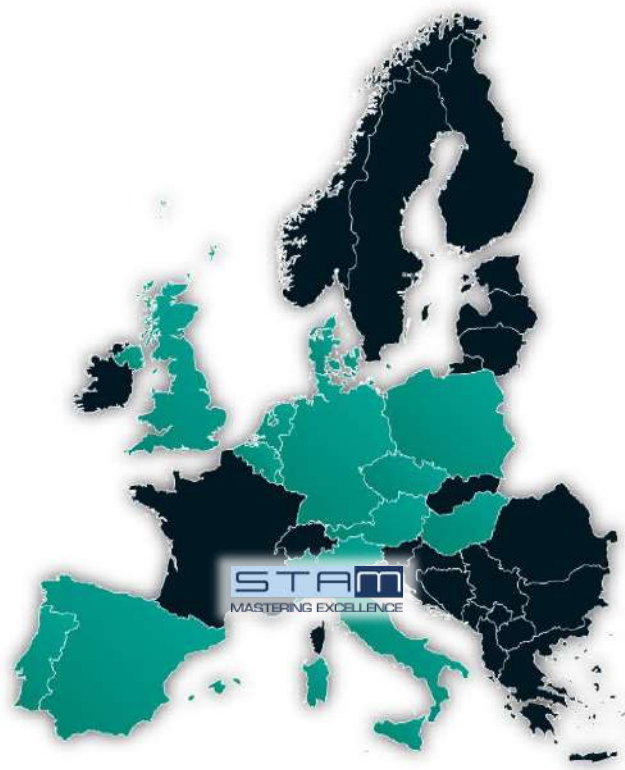


The ESA Tech Brokers Network

STAM is the **ESA Technology Broker** in Italy and is responsible for managing the ESA Spark Funding program in collaboration with the **Italian Space Agency**.

ESA TECHNOLOGY BROKER NETWORK

Participating States	
Austria	Luxembourg
Belgium	The Netherlands
Czech Republic	Poland
Denmark	Portugal
Germany	Spain
Hungary	United Kingdom
Italy	



- Creating Space Technology Spin-Offs
- Fostering Spin-In of Terrestrial Technologies
- Technology Scouting
- Solving Commercial R&D Challenges
- Providing Business Support to Develop Projects
- Technical Feasibility and Market Analysis
- ESA Spark Funding for Innovative Projects

Circular athletic tracks



EMSi Spacesuit



Winner of the **Compasso d'Oro™ 2024** award for its design.



Aerocellulose material



Image: courtesy of FREY ZEIN and ESA

Aerocellulose: Lightweight Warmth, Inspired by Space

At the heart of the jacket is aerocellulose, a material reminiscent of aerogels long used in spacecraft for thermal insulation. By incorporating aerocellulose, TerraDown manages to deliver impressive warmth without bulk. Unlike conventional down or synthetic fills, TerraDown is petrochemical-free, antibacterial, and vegan. Lightweight yet high performing, its monomaterial structure is designed for circularity and eco-friendly production. Applications go beyond jackets: from accessories to outdoor gear and even home textiles, TerraDown opens the door to a new era of sustainable insulation.



The aerocellulose

Currently, the material is not yet commercially available, but FreyZein is actively seeking joint development agreements with partners to explore new applications and bring the innovation to market.

New opportunities for tech transfer



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TECHNOLOGY
BROKER

Italy



Textile production monitored by a 'space eye'

24/09/2007 337 VIEWS 0 LIKES 204145 ID

DETAILS

RELATED

Until now all colour validation of textiles has been done manually. A camera developed under Europe's space programmes for Earth observation is now used to identify very accurately any colour faults in textile production. Using this space 'eye' for textile manufacture has improved the quality of textile production and lowered costs, by reducing significantly discarded material.

CREDIT

Coltex

LICENCE

[ESA Standard Licence](#)





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