

CLUSTER TÊXTIL

tecnologia e moda

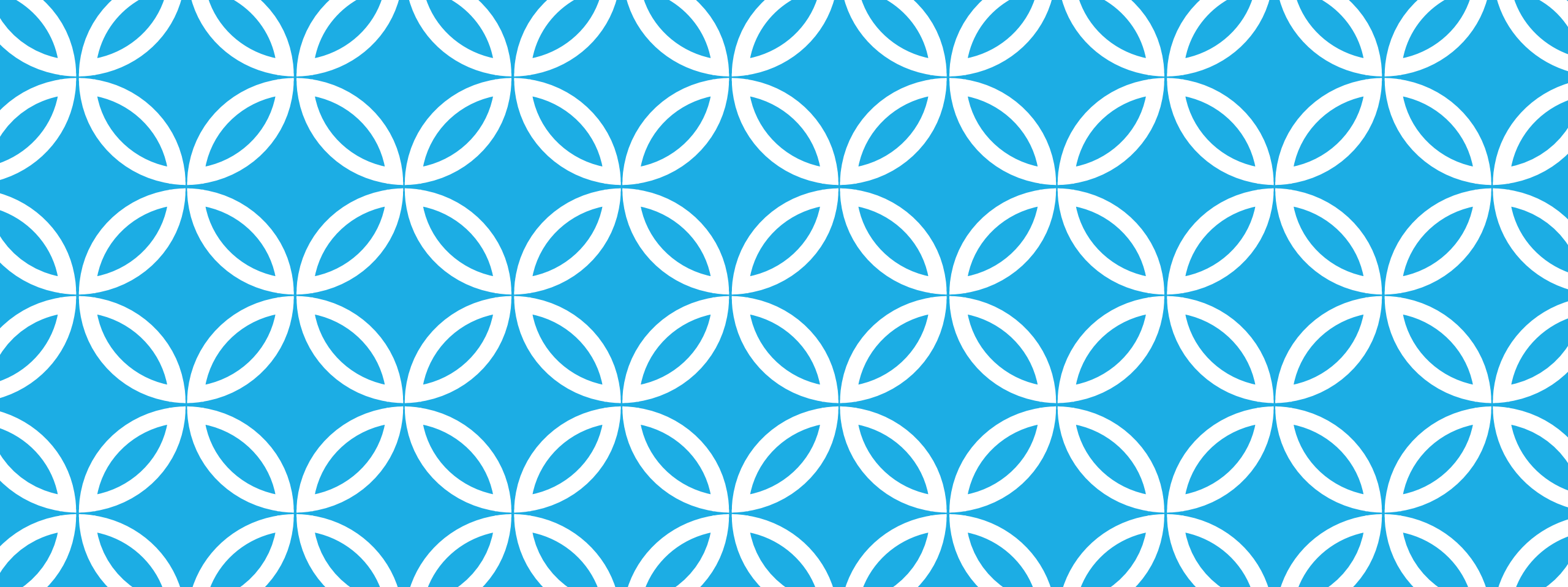
context

PORTUGUESE TEXTILE CLUSTER

SIG V. Sports
3rd of April 2019, Porto



UNIÃO EUROPEIA
Fundo Europeu
de Desenvolvimento Regional



1. THE CLUSTER

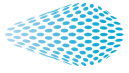


OUR MISSION

- ❖ To enhance the endogenous capacity of the consolidated economic aggregate around the textile business;
- ❖ To increase business competitiveness through co-operative innovation.

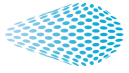
OUR JOB

To promote and facilitate an integrated and sustainable development of economic aggregate involving textiles, clothing and technical textiles.



HOW

- ❖ Stimulating a strong coordination between the different actors;
- ❖ Stimulating the approach of the cluster to complementary and strategic value chains;
- ❖ Promoting the collaboration between members;
- ❖ Facilitating the cross-sectorial cooperation and promoting roadmapping and strategic thinking



THE STRATEGY

The **five strategic** areas for action:

- i. Human capital (Training & Education)
- ii. Research, Innovation and Sustainability
- iii. Design and Fashion
- iv. International projection
- v. Interclustering and Cross sectorial approach

THE GOVERNANCE

High Level Group (HLG): strategy definition

Special Interest Groups (SIG): roadmapping and “textile thinking”
in strategic thematic areas

Executive structure: implementation

THE SPECIAL INTEREST GROUPS (SIG)

“Think thank” around 9 strategic thematic areas

172 experts

25



Green Textiles Club

24



Defense & Protection

16



Human Capital

12



Habitat

24



Sports & Well-being

21



Design & Fashion

14



Mobility

21

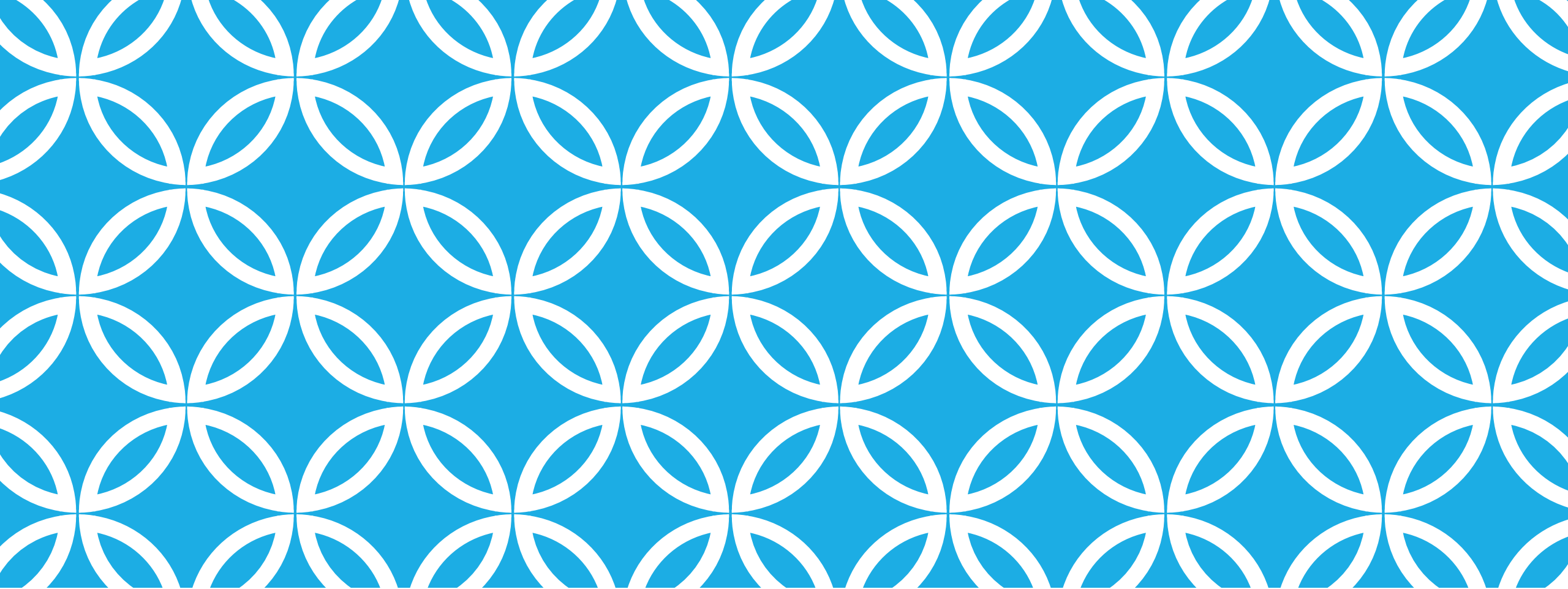


Digitalisation & Industry 4.0

15

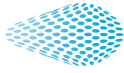


Marketing & Communication



2. SIG V. SPORTS





SIG SPORTS GOAL

- ❖ To define a strategic agenda for Research and Innovation, with a vision for 2030, which will inspire the decision-making processes of different national and international actors;
- ❖ To promote national skills and capabilities to identify future opportunities and challenges;
- ❖ To promote partnership projects, joint dissemination actions, etc.

SIG SPORTS STRATEGY



THE GLOBAL TRENDS



1. Innovation in sport: an answer to various health issues

2. Innovation in sport in line with sustainability goals

3. Using data, technology and innovation to drive change in the sports market

4. How technology is shaping the sports market

5. Innovation to meet the personalized demands of the customers

THE GLOBAL TRENDS

epsieu

STRATEGIC RESEARCH
AND INNOVATION AGENDA
2016-2021



Another key element is an emerging sports market which is related to more intelligent and functional products that are open to the introduction of new technologies:

- Use of Smart materials
- New design and creativity methods
- Customised production techniques
- Integration of ICT
- Internet of Things and added services

THE GLOBAL TRENDS



Classification of smart materials

- Piezoelectric materials
- Electrostrictive materials
- Magnetostrictive materials
- Rheological materials
- Thermoresponsive materials
- Electrochromic materials
- Fullerenes
- Biomimetic materials
- Smart gels

THE GLOBAL TRENDS

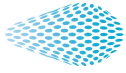
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STRATEGIC RESEARCH
AND INNOVATION AGENDA
2016-2021



3D Printing:

- Prototypes are made faster and cheaper (without tooling)
- Create objects with complicated internal features that cannot be manufactured by other means
- Produce parts of different geometry within the same batch
- Produce customized parts
- Produce anytime and anywhere



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SIG SPORTS STRATEGIC AGENDA

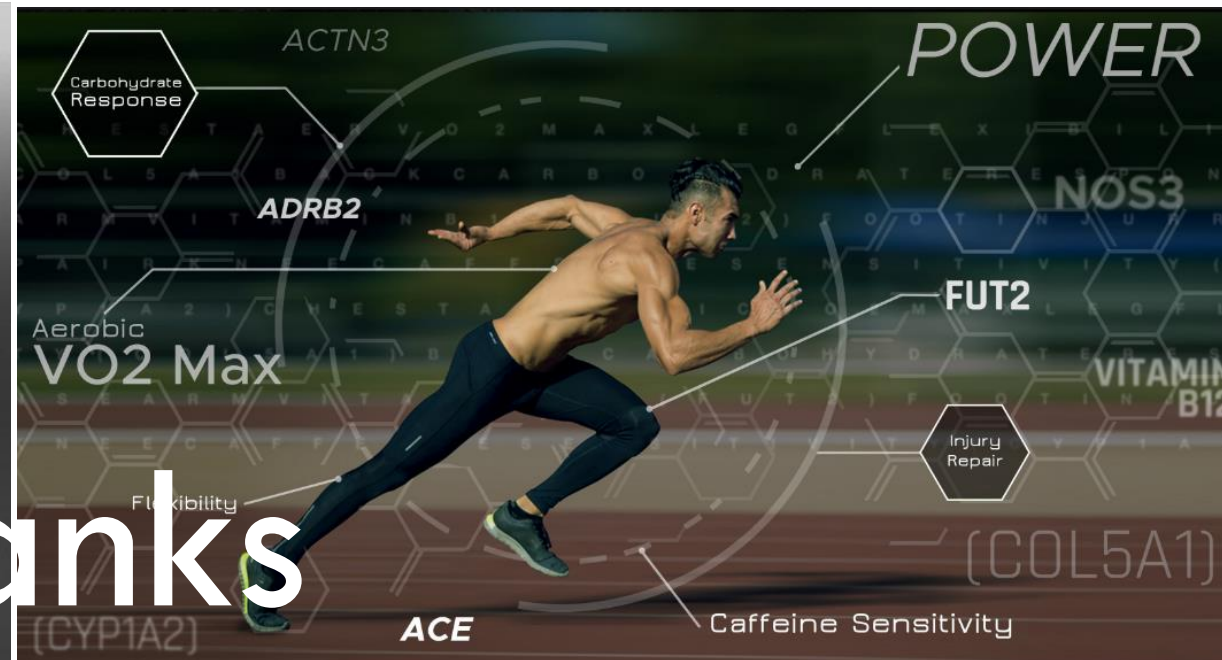
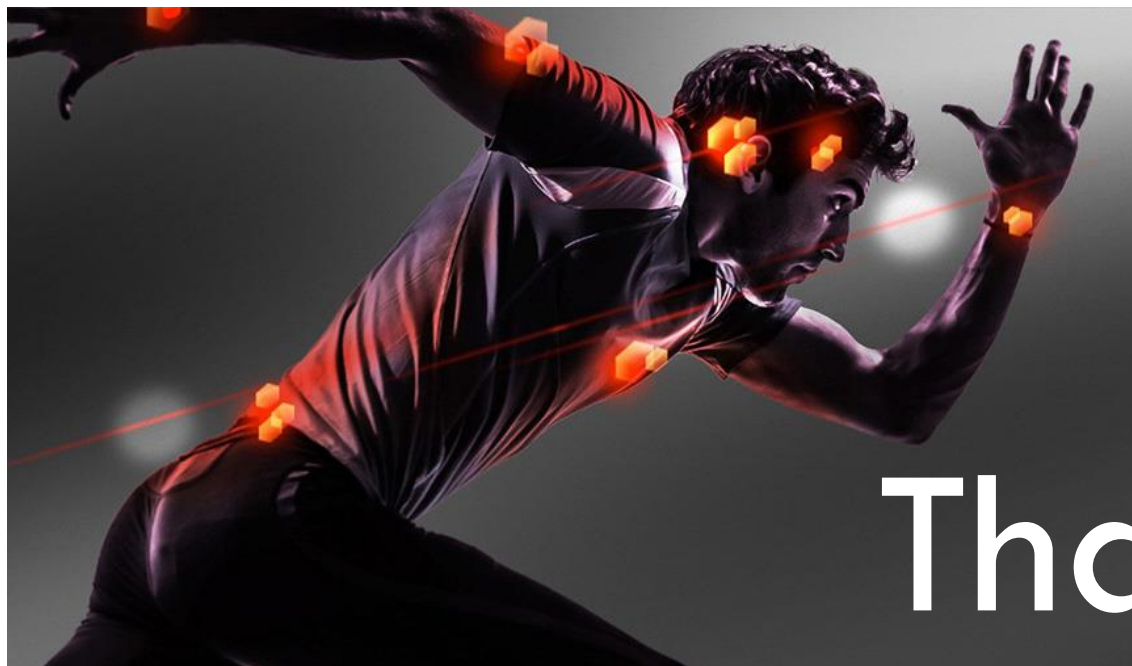
SCOPE

- ❖ Garment (1st and 2nd layer)
- ❖ Accessories (knee pads, elbow protection, ...)
- ❖ Equipment and components (nets, rackets, ...)
- ❖ Infrastructures (artificial grass, marking tape, ...)

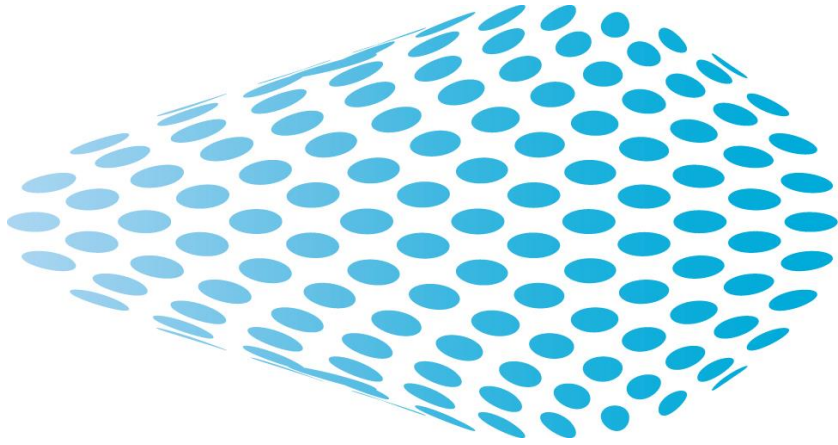
STRATEGIC AGENDA :: MEGATRENDS

- ❖ E-textiles, information and communication systems integration: vital signs monitoring, communication and data acquisition, software platforms, IoT, etc.
- ❖ Textiles with preventive and therapeutic performance: controlled release of active agents (drug release, hydration, ...), controlled compression textiles (ex. compression socks, ...)
- ❖ Comfort and Performance: thermal management (heating, cooling, insulation), ergonomics, biomechanics & morphology, moisture management (quick drying), low weight ...
- ❖ Resistance, durability and reliability in extreme conditions and/or high competition
- ❖ Sustainability: designing new products and processes aligned with global sustainability policies and resource efficiency, ...
- ❖ Customization and co-creation: industry 4.0, digitalisation, ...

HOW SMART SPORTS WILL BE



Thanks



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PORTUGUESE TEXTILE CLUSTER

Thanks

THE PORTUGUESE TEXTILE CLUSTER

Mission is to enhance the endogenous capacity of the consolidated economic aggregate around the textile business. Increase business competitiveness through co-operative innovation.

- ❖ Promoting and facilitate an integrated and sustainable development of the textile value chain.
- ❖ Stimulating a strong coordination between the different actors of the cluster and Stimulating the approach of the cluster to complementary and strategic value chains.

48 Members



34 companies



14 other entities