



Questionnaire to Technological Centres to be visited (Answers related to textile field or similar)

GENERAL INFORMATION CENTRE

NAME: CLOTHING TEXTILES AND FIBERS TECHNOLOGY DEVELOPMENT (CLOTEFI S.A.)
ADDRESS: 4 EL. VENIZELOU STR., KALLITHEA, 176 76, ATHENS, GREECE

TYPOLOGY OF SERVICES CARRIED OUT BY THE CENTRE (Percentage of each activity)

TYPOLOGY OF SERVICES FOR ACTIVITY	%
Research	10
Development	20
Innovation	5
Test	
<i>To certify products or processes</i>	25
<i>To control products or processes</i>	15
Consultancy	15
External Training	
Other activities	10
TOTAL	100

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Total number of activities carried out per year:

Number of active clients 300

STAFF

Staff according to activities	Number of employees	%
Research + Development + Innovation	4	31
Testing	5	38
Administration	4	31
Other Departments		
TOTAL	13	100

How is the staff organized?

- Technologies
- Laboratories
- Research Groups
- Other

**RESULTS OF CENTRE ACTIVITY**

Results according to type of activity	
Number of patents registered	
Number of scientific papers published	1
Number of dissemination articles published	4
Number of papers at congresses	3
Number of lectures	5
Other	

(Mean annual values)





LINES OF RESEARCH IN THE CENTRE

NAME OF TECHNOLOGY (a) 1	
Technology description	
Objectives / Target	
Thematic areas (name and description)	
Main projects and results	
Research group(s) in partnership	
Associated technologies	

(a) **Technology** is what the technological centre is **commercializing**. PHOTOVOLTAIC, CRHOMIC MATERIALS, LUMINESCENT MATERIALS, MICROENCAPSULATION, NANOTECHNOLOGY, PLASMA, CONDUCTIVE TECHNOLOGY, 3 D FABRICS, TEXTRONICS, OTHER (specify which ones)

Name of research line (b) 1	Antimicrobial textiles
Description	Antimicrobial textiles development through microencapsulation of active agents or through the use of photocatalytic nanoparticles
Impact and results	
Benefits and applications	Medical textiles, sports textiles, awnings, etc
Advantages introduced	The handle of the fabric is well retained
Links	

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Name of research line 2	Flame retardant textiles
Description	Development of flame retardant textiles by surface treatments / Synergistic FR effects of nanoparticles and conventional FRs
Impact and results	
Benefits and applications	Protective clothing, upholstery textiles, etc
Advantages introduced	By simultaneously dispersing clays and conventional FRs in the bulk of synthetic fibers, high FR properties are achieved using a low total amount of additives. In the case of surface treatments, processes have been optimized so as not to deteriorate the handle of the fabric.
Links	

Name of research line 3	Self-cleaning textiles
Description	Development of self cleaning textiles either by exploiting the lotus effect or by introducing photocatalytic materials on their surface
Impact and results	



Benefits and applications	Home textiles, clothing, automotive interior textiles, etc
Advantages introduced	In the case of lotus effect liquid droplets do not spread on the textile, thus leaving it clean. Photocatalytic materials decompose organic stains under UV irradiation.
Links	

Name of research line 4	Enzymatic textile treatments
Description	Substitution of chemical by enzymatic processes, e.g. for the pre-treatment of cotton fabrics (de-sizing etc)
Impact and results	
Benefits and applications	Natural textiles (e.g. cotton, silk)
Advantages introduced	Environmental benefits
Links	

Name of research line 5	Electronic textiles
Description	Application of organic electronics (solar cells) on textile substrates
Impact and results	
Benefits and applications	Smart clothing and textiles, solar awnings
Advantages introduced	Energy collection and supply e.g. to charge portable electronic devices
Links	

(b) **Line of research** is what the technological centre is **developing / researching**. ELECTRONIC TEXTILE FUSION, NEW FINISHING PLASMA, WATERPROOF TECHNOLOGY, TEXTILE EMERGING TECHNOLOGIES, MICROCAPSULES INCORPORATION, PHASE CHANGE, OTHER (specify which ones)



BUSINESS SERVICES OF THE CENTRE (textile field or related to textiles)

NAME OR FIELD OF THE SERVICE 1	
Service description	Certification (Oeko-tex®, Standard 100, etc.)
Service users	T&C manufacturers, producers and retailers.
Associated technologies	
Associated research lines	

NAME OR FIELD OF THE SERVICE 2	
Service description	Testing
Service users	T&C manufacturers, producers and retailers, public organizations and consumers.
Associated technologies	
Associated research lines	

NAME OR FIELD OF THE SERVICE 3	
Service description	Development of technical specifications
Service users	Public organizations, private enterprises, retailers, military, etc.
Associated technologies	
Associated research lines	

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NAME OR FIELD OF THE SERVICE 4	
Service description	Consultancy
Service users	T&C manufacturers, producers and retailers.
Associated technologies	
Associated research lines	