

MANUNET

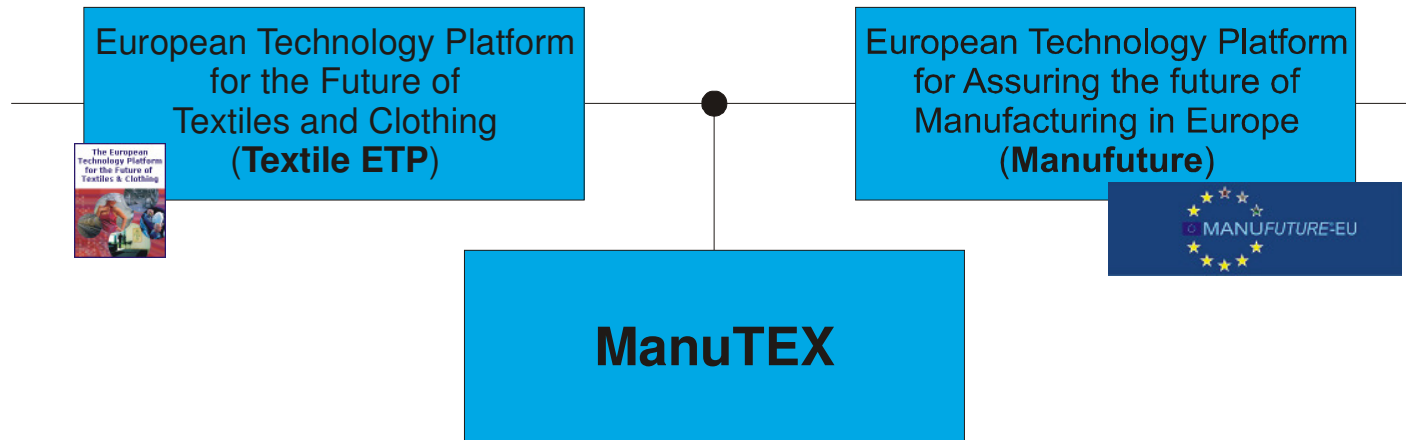
Ergebnisse der Initiative



Institutsdirektor: Univ.-Prof. Dr.-Ing. Dipl.-Wirt. Ing. Thomas Gries

ManuTex Initiative

Was ist ManuTex?



Rational

- Europäische Textilhersteller und Textilmaschinenhersteller sollen zusammenarbeiten um "Innovation" zu fördern
- Kombination der ETP Manufuture und ETP Textil

ManuTex Initiative

Questionnaire structure

- 2 -

ManuTex – Questionnaire Part 0 – Introduction

What is ManuTex

The ManuTex initiative has been jointly launched by the European Technology Platform for Assuring the Future of Manufacturing in Europe (Manufacture) and the European Technology Platform for the Future of Textiles and Clothing (Textile ETP) in order to realise closer collaboration in pre-competitive research and development at European level between the Textile/Clothing and related Machinery Industries.

1. Rationale

Europe's textile and clothing industry as well as its textile and clothing machinery sector are the undoubted global innovation leaders in their respective markets. This innovation leadership was built on a long tradition of synergetic cooperation between the two sectors. Recent global market trends force both sectors in Europe to intensify their innovation activities to defend their leadership positions. In such a scenario, a close cross-sectoral collaboration in the field of research and technological development at European level promises a clear win-win situation for both sides.

2. Objectives

The objectives of the ManuTex initiative are:



- the establishment of a permanent collaboration forum between textile/clothing manufacturers and developers and manufacturers of machines, systems & tools for textile/clothing production to exchange major technological trends and evolving user needs
- the combination of complementary elements of the Strategic Research Agendas of the Manufacture and Textile European Technology Platforms in a joint Research Roadmap
- the initiation of strategic, genuinely breakthrough-oriented collaborative research projects between the two sectors bringing together the best available competences and capacities to mutual benefit

3. Stakeholders & Working Structure

The stakeholders of the ManuTex initiative are:

- the European textile & clothing industry and their representative organisations
- the European textile/clothing machinery industry and their representative organisations
- the European textile & textile machinery research community
- the European Commission & national authorities

The implementation of ManuTex will be coordinated and facilitated by a Coordination Committee which is composed of representatives of all stakeholder groups. The Coordination Committee is chaired by Prof. Thomas Gries, Director of the Institut für Textiltechnik (ITA) at the RWTH Aachen University, Germany.

ManuTex – Questionnaire Part 0 – Introduction by Euratex

ManuTex – Questionnaire Part A – Your priorities

- This checklist summarizes the objectives of
 - Strategic Research Agenda Textile & Clothing
 - Strategic Research Agenda Manufacture
 - Strategic Research Topics ManuTex
- Please indicate your priorities – which are the topics of your highest interest (multiple answers possible)



<p>Headline objectives for Textile & Clothing production in Europe</p> <ul style="list-style-type: none"> <input type="checkbox"/> New specialty fibres & fibre composites <input type="checkbox"/> Functionalisation of textiles <input type="checkbox"/> Biomaterials & Nanotechnologies <input type="checkbox"/> New textile products for human performance <input type="checkbox"/> New textile products for technical applications <input type="checkbox"/> Smart textiles & clothing <input type="checkbox"/> Clothing/fashion mass customisation <input type="checkbox"/> New product design concepts & technologies <input type="checkbox"/> Integrated quality & life cycle management concepts <p><input type="checkbox"/> _____ (missing objective)</p> <p><small>For more information: http://www.euratex.org</small></p>	<p>Headline objectives for Future of Manufacturing Industries in Europe</p> <ul style="list-style-type: none"> <input type="checkbox"/> Adaptive manufacturing <ul style="list-style-type: none"> ◦ ICT interfaces ◦ Miniaturization ◦ Micro Systems Technology ◦ Sensor/Actuator Technology ◦ Adaptive Materials <input type="checkbox"/> Digital manufacturing <ul style="list-style-type: none"> ◦ Virtual ◦ Simulation ◦ Product and Order Data Management <input type="checkbox"/> Manufacturing in networks <ul style="list-style-type: none"> ◦ Radio Frequency Identification Technology ◦ Supply Chain Management <input type="checkbox"/> Knowledge-based manufacturing <p><input type="checkbox"/> _____ (missing objective)</p> <p><small>For more information: http://www.manufacture.eu</small></p>
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Research topics of ManuTex – The joint initiative for the Future of the European Textile & Clothing Machinery Industry:

- Materials**
 - light weight constructions for fibre reinforced plastics, composites
 - surface technologies (e.g. anti-corrosive), alternative materials
- Mechatronic & control & IT**
 - drives (e.g. decentralised, linked together)
 - sensors (e.g. optical)
 - control systems (e.g. decentralised, autonomous)
 - bus systems and plant control systems
 - knowledge management systems, expert systems, cognitive production systems or machines
- Simulation of processes**
 - bring intelligence into the machine, intelligence being part of the machine
 - development tools
- Processes**
 - new processes for existing products (customised, individual products, hybrid processes, shortening of processes)
 - new processes for new products (technical textiles, moulding, waste, smart textiles)
 - hybrid process (combined, textile/non textile processes)
- Supply chain management**
 - operating models
 - tracking, information flow
- Emissions and environment**
 - noise reduction
 - reduction of energy consumption
 - material efficiency, production waste, of transition materials, functional offer
 - low-water or water-free processes, waste water reduction

Describe missing topics in more detail in questionnaire Part B

Please return the questionnaire by E-Mail or Fax to: 0640 10241-80 92 140
Institut für Textiltechnik der RWTH, Prof. Thomas Gries, Eilföhrchenstr. 19, 52062 Aachen

ManuTex – Questionnaire Part A – Your priorities: Headline objectives for Textile & Clothing production in Europe, Future of Manufacturing Industries in Europe, Research topics of ManuTex



ManuTex – Questionnaire Part B – Your opinion

- Please give us your written opinion on short term and long term objectives for research and development
- You can provide your opinion
 - handwritten or electronic
 - keywords or full text
 - on this form or as an extra file

Short term objectives:

Long term objectives:

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ManuTex – Questionnaire Part B – Your opinion: short & long term objectives



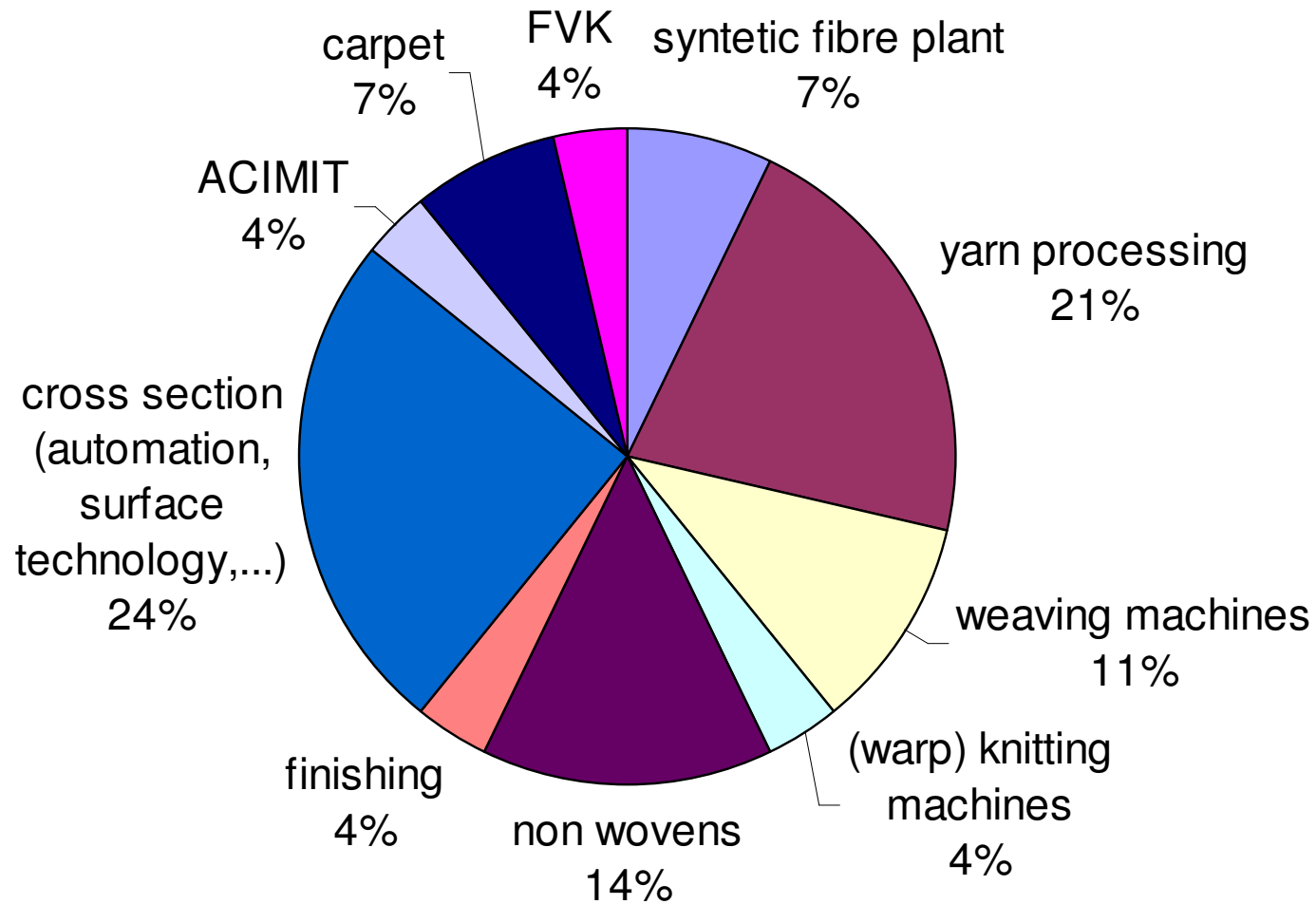
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Wichtige beteiligte Firmen

- Oerlikon Saurer
- Oerlikon Volkmann
- Fourné Polymertechnik GmbH
- Reifenhäuser Reicofil
- Karl-Mayer Malimo
- Dornier
- Dilo
- Spaleck GmbH & Co.KG
- Fa. m-tec
- Groz-Beckert
- Oerlikon Barmag
- Oerlikon Neumag
- Oerlikon Schlafhorst
- Moenus GmbH
- Erhardt+Leimer
- Stäubli
- Picanol
- Andritz Küsters GmbH & Co.KG
- Power-Heat-Set GmbH
- Textechno

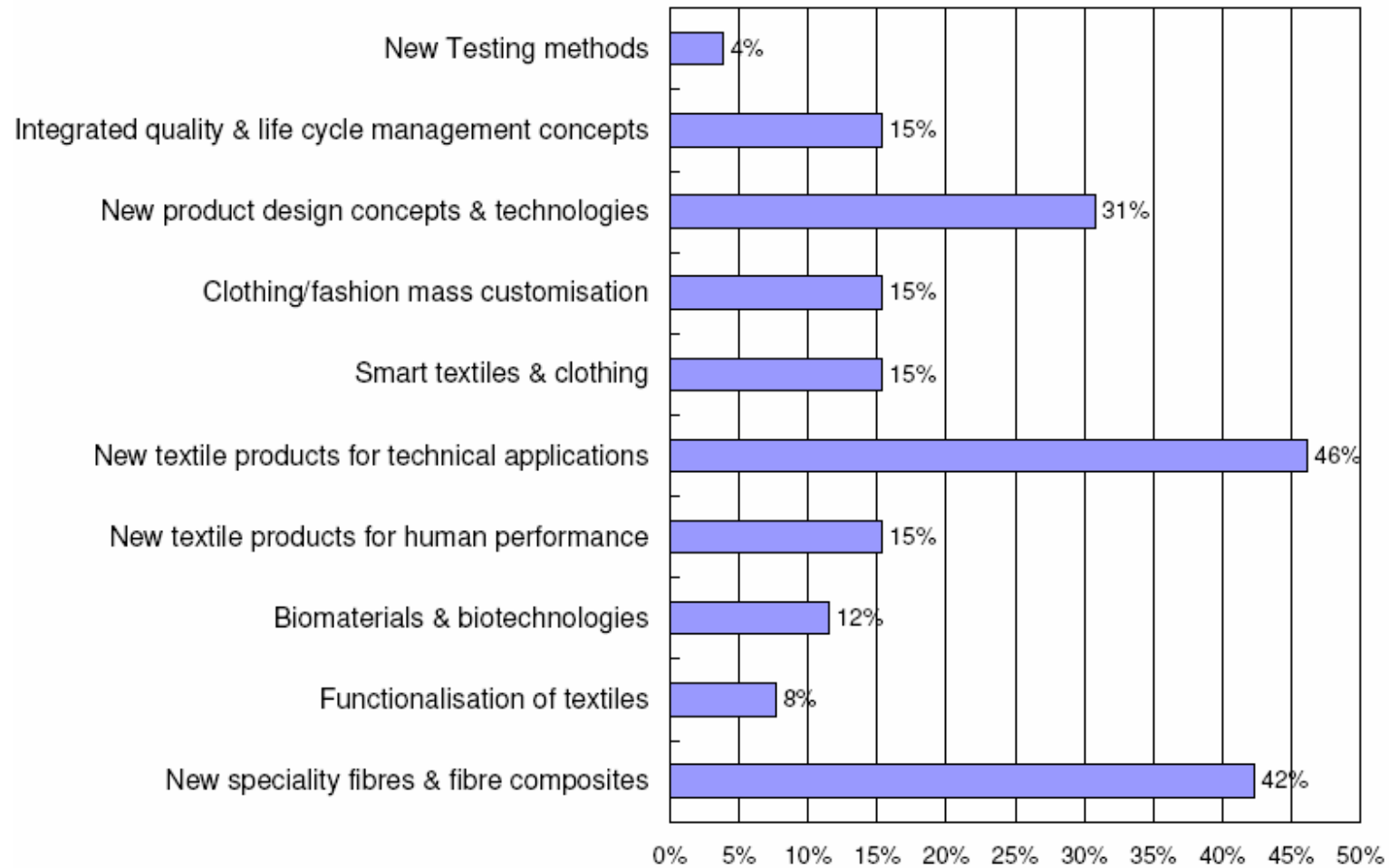
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Questionnaire results



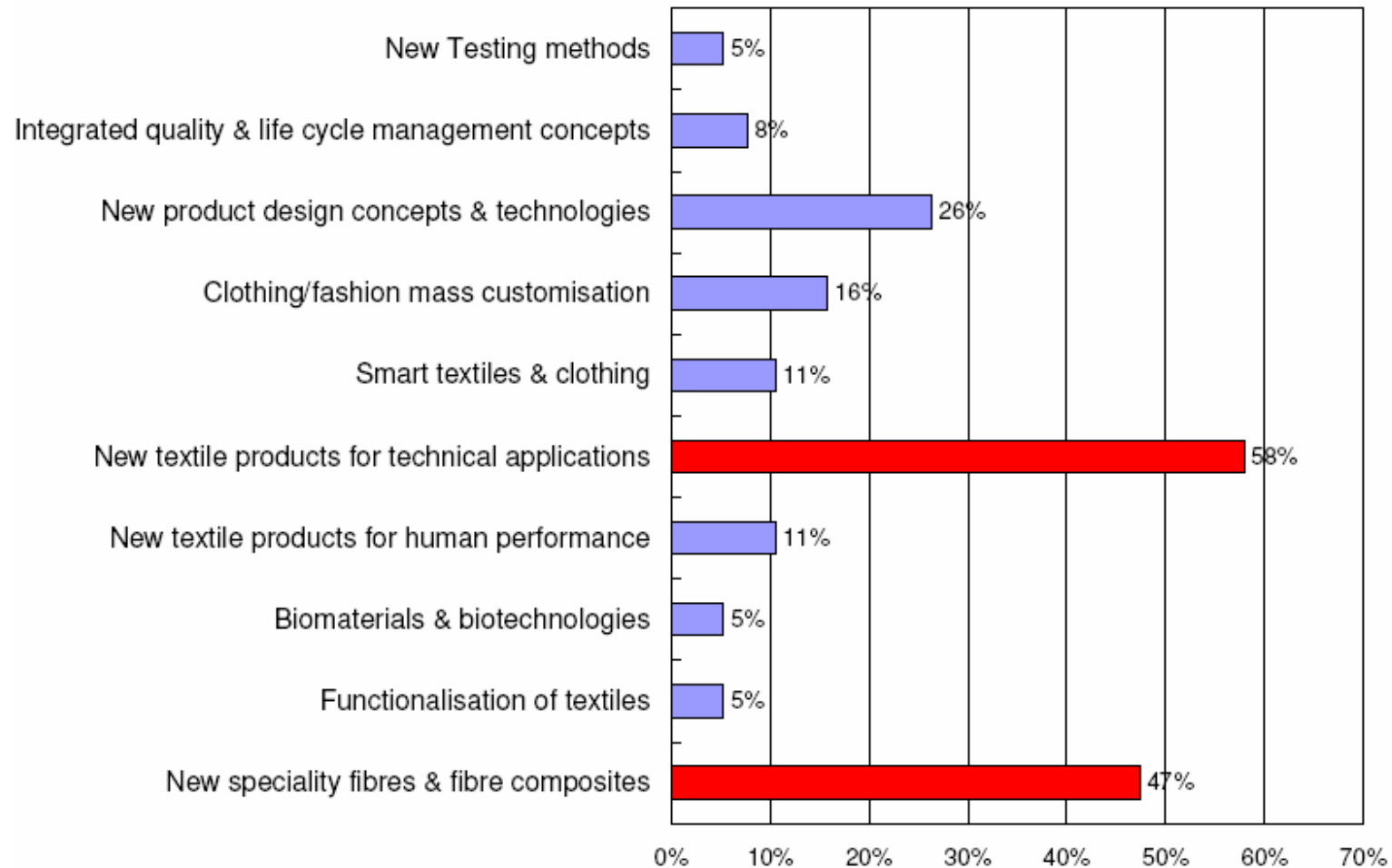
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“Textile & Clothing production in Europe”



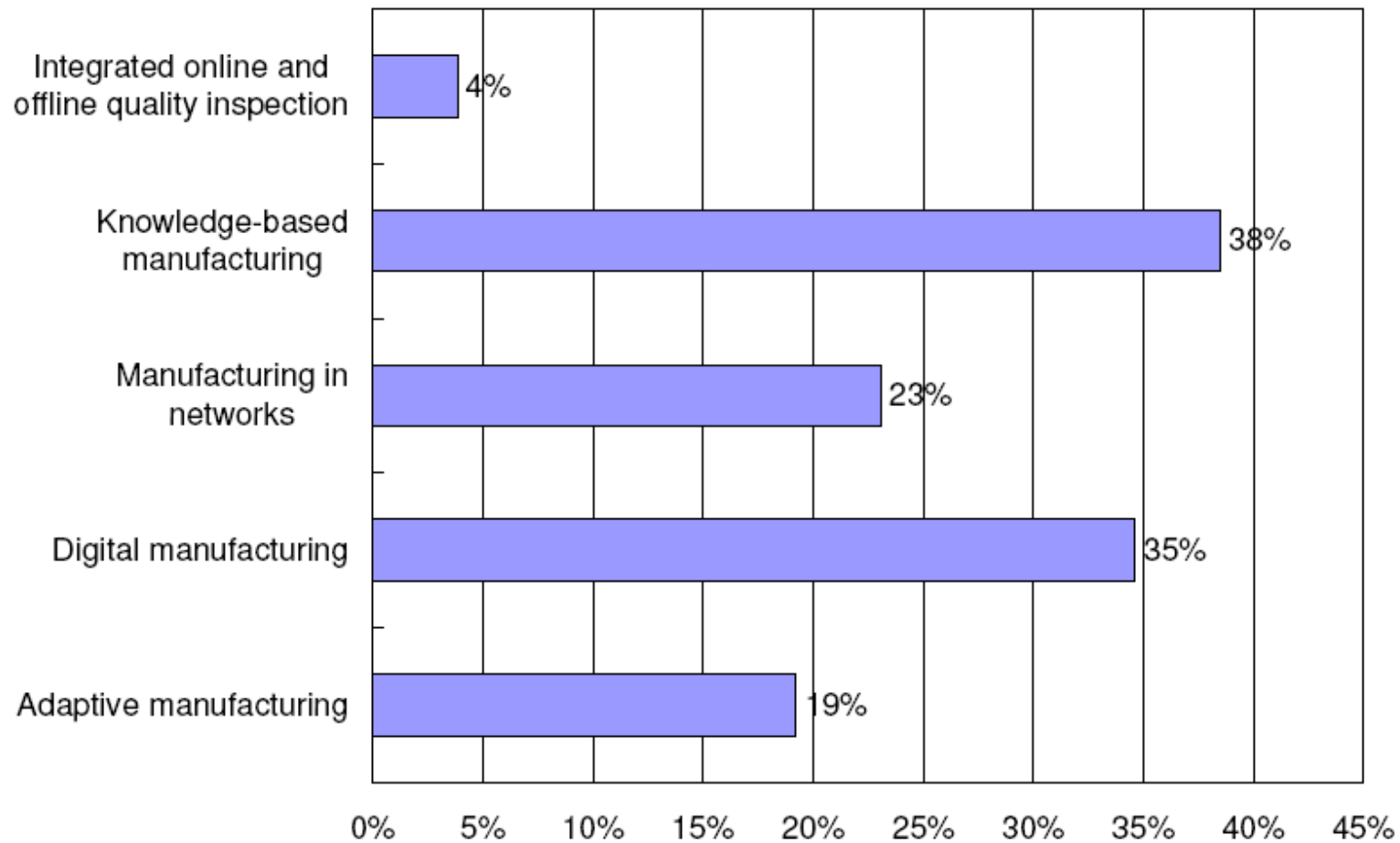
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“Textile & Clothing production in Europe” – deutsche Firmen



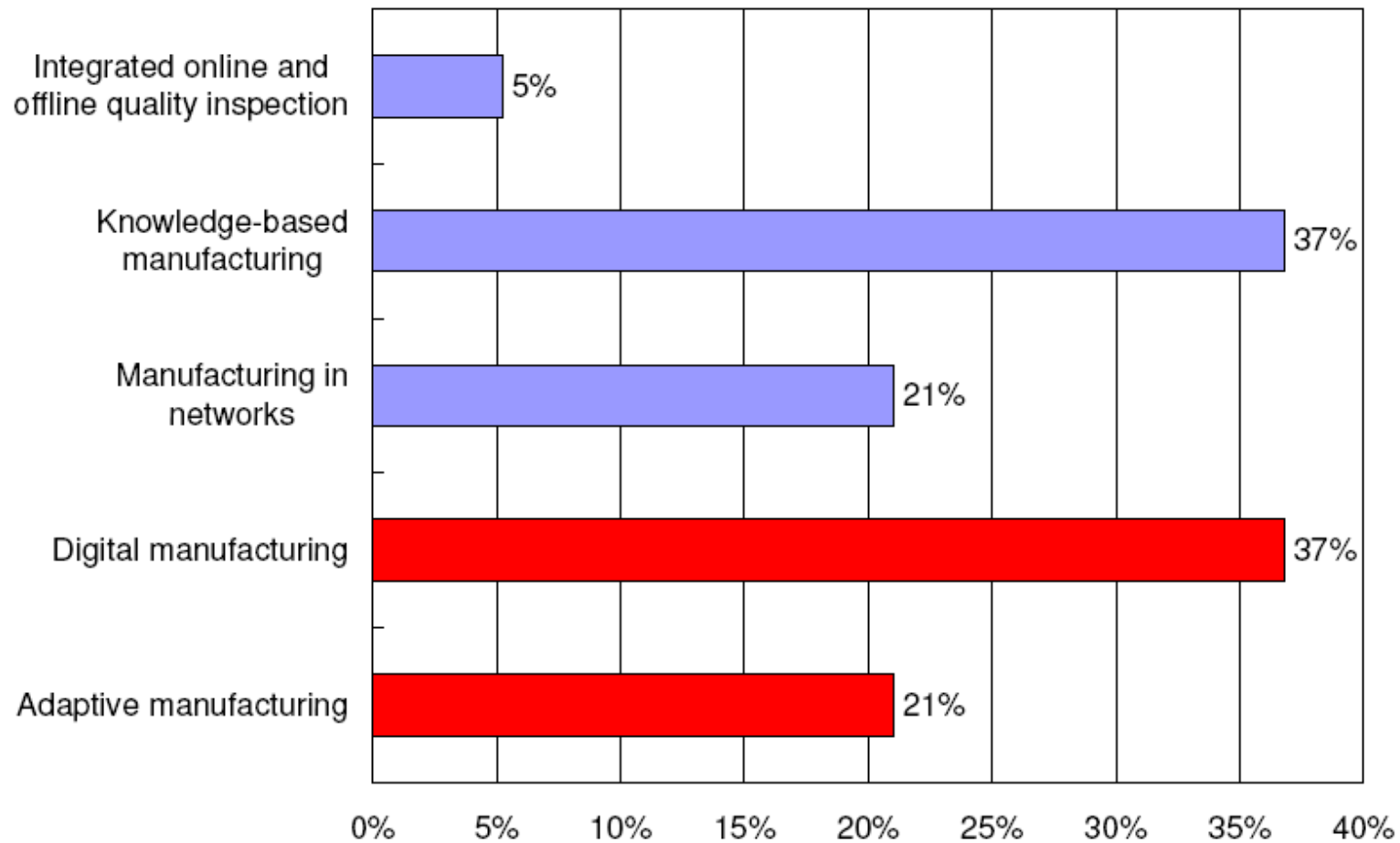
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„Future of Manufacturing Industries in Europe”



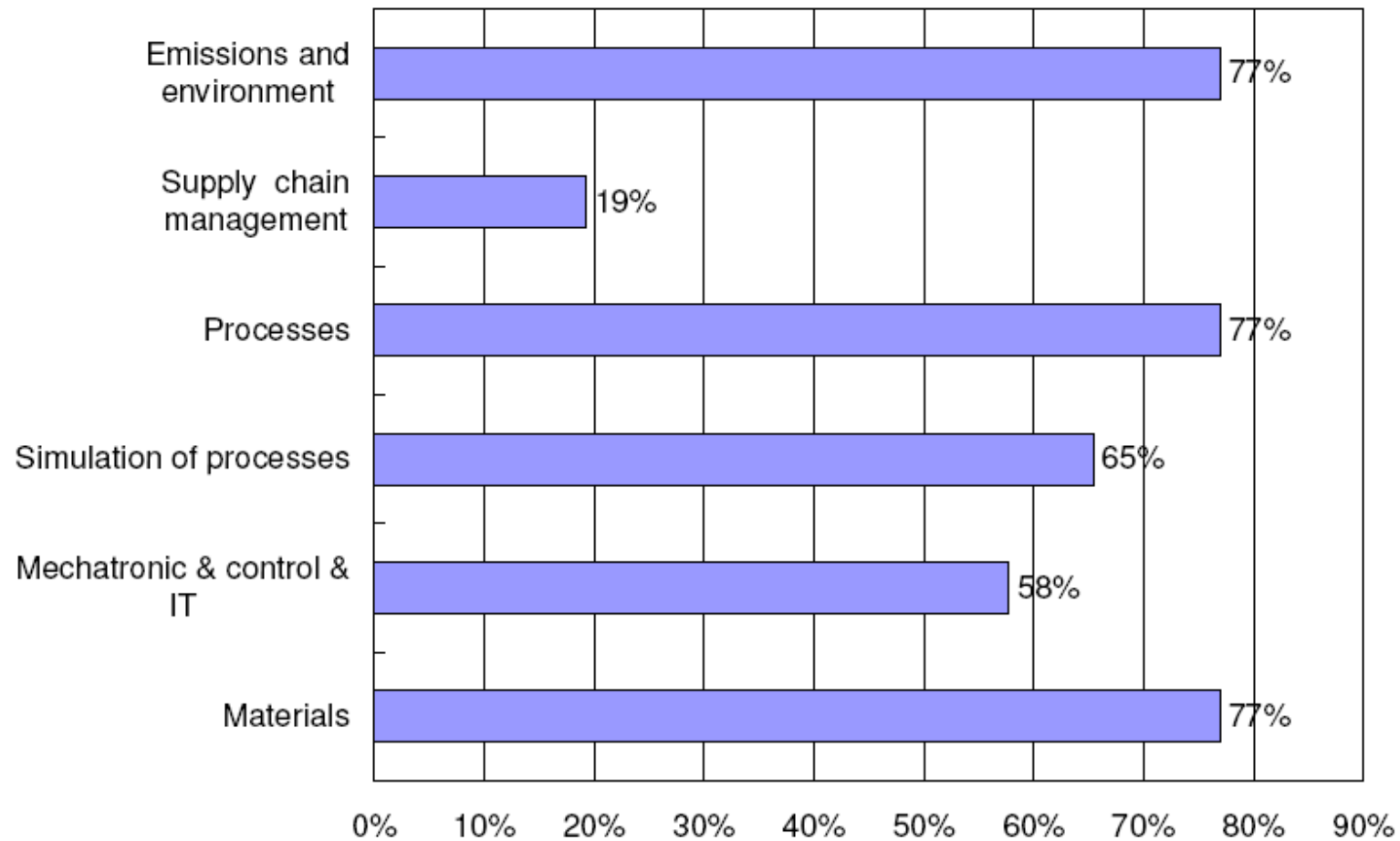
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„Future of Manufacturing Industries in Europe” – deutsche Firmen



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„Research topics of ManuTex”



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„Research topics of ManuTex” – deutsche Ansicht

