



Wiesbaden | 2011

Kurhaus
28th November 2011
Wiesbaden, Germany



“Innovating and R&D in the European Tooling Industry”

European Tooling Platform

28 November 2011
Wiesbaden, Germany

Joaquim Menezes
Chairman of European Tooling Platform



AGENDA

- 1. Strategic Importance of the European Tooling Industry***
 - 2. The European Tooling Platform***
 - 3. The European Tooling Roadmaps – 2008-2013***
 - 4. The European Tooling Roadmap: 2013-2020***
 - 5. Multisectorial Impact – European Platforms Cooperation***
 - 6. Multisectorial Impact – Areas for Cooperation***
-

Strategic Importance of the Tooling Industry

*... **Tooling** is within the critical path of the product development of almost all the products!*

*... **Tooling** Industry has become more and more **CAPITAL** and **KNOWLEDGE** intensive....*

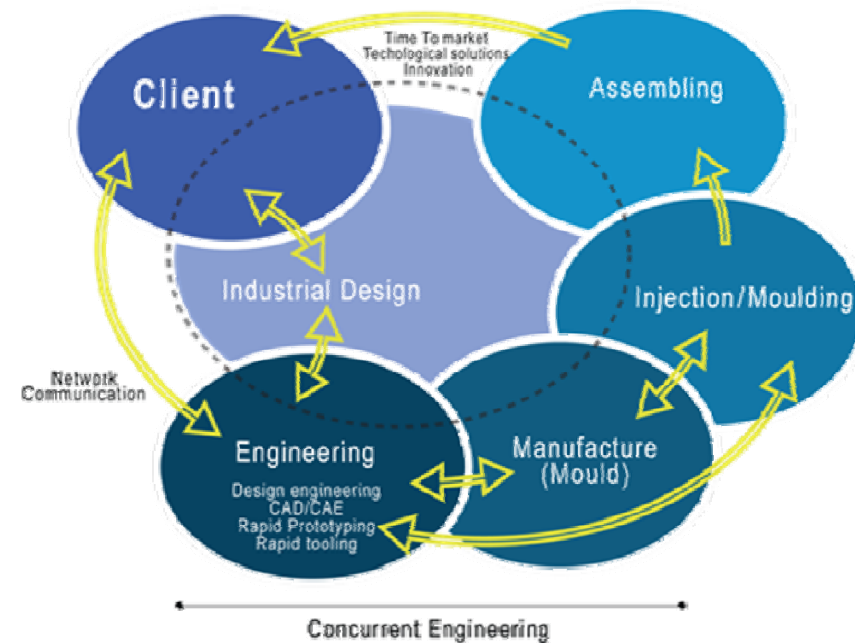
European Tooling Platform

The European Tooling Industry has been identified as a strategic sector for the growth of the European economy and qualified employment in Europe...

...due to the support **infrastructure** it provides for the economy, through:

> its high level of **multidisciplinary** competences and technological knowledge, and

> **multisectorial impact.**



European Tooling Platform



The Tooling focal point for the Research & Development at European Level

The European Tooling Platform is officially recognized as a MANUFUTURE's Sub-Platform and of being of key strategic relevance to support the implementation of a coordinated Action Plan at a European level.

VISION

Tooling, Mould and Die making companies are infrastructural strategic players towards the development and sustainability of the European Industry.

European Tooling Platform




<http://www.toolingplatform.manufuturenet.eu>

The privileged link to

EU's FP7

&

Public Private Partnership
"Factories of the Future"



The FP7 is the European Union's chief instrument for funding research over the period 2007 to 2013.

contacts european tooling platform links events news

you are here: [home](#) search

menu

- Manufacture Technology Platform
- European Tooling Platform
 - Vision and Mission
 - European Tooling Industry
 - TOOLING Technology Roadmap
 - Members - Accession form
 - Links
 - Events
 - News
 - Contact info

European TOOLING Platform

The European Tooling Platform is the Tooling focal point for Research and Development at European Level, gathering the Industry's key players and stakeholders for the proposal, development and implementation of R&D activities leveraging competitive differentiation and an European high added value engineering and production base.



European Tooling Platform

STRATEGIC ACTIONS

- ❑ **Promote an active participation of stakeholders** towards the definition and implementation of a **Tooling Industry Strategic Research Agenda**;
 - ❑ **Propose, develop and implement Research and Innovation activities** to promote the competitiveness and differentiation of the Tooling companies;
 - ❑ **Development of Strategic Roadmaps** for the Tooling Industry;
 - ❑ **Creation of Specific Working Groups** in specific disciplines and domains towards the definition, implementation and continuous evaluation of the Strategic Research Agenda priorities and objectives.
-

European Tooling Platform

MEMBERSHIP

Gathering stakeholders, Industry's key players and nodes of networks

Official Members from:

- Portugal
- France
- Germany
- Spain
- Italy
- Slovenia
- Poland
- Belgium
- Sweden

Type of Members:

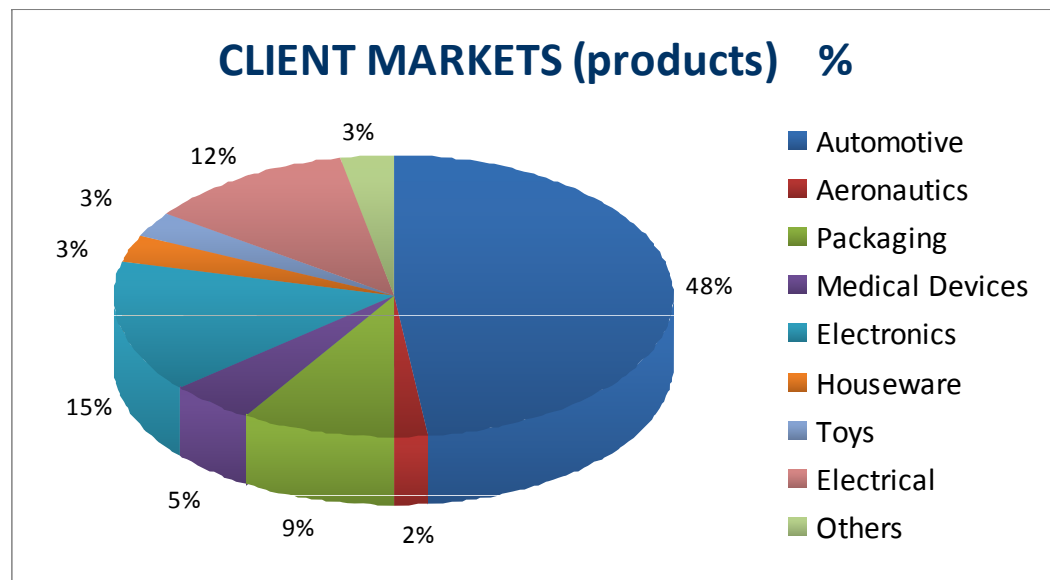
- Companies
- Universities
- Research Centers
- Industry Associations

Note: **European Tooling Platform** is organized in line with **ISTMA Europe** which represents 17 Countries.



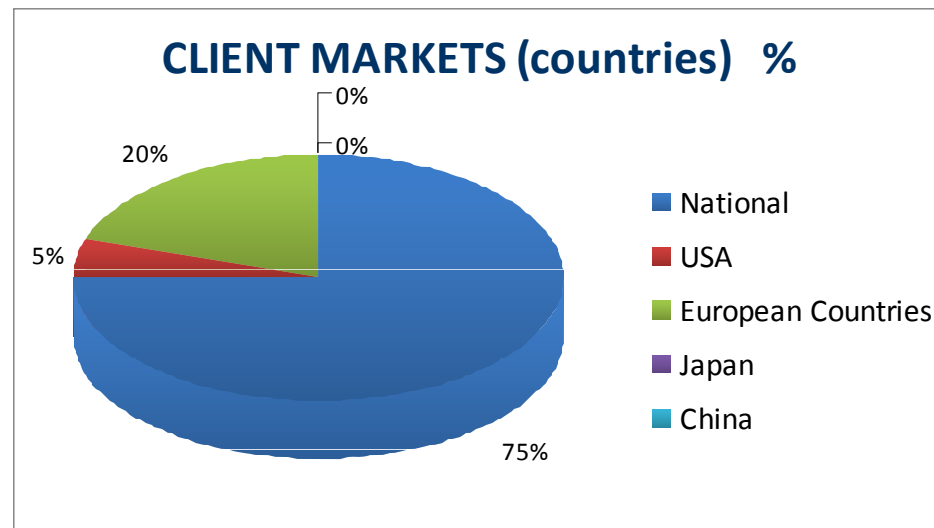
European Tooling Platform

MEMBERSHIP



European Tooling Platform

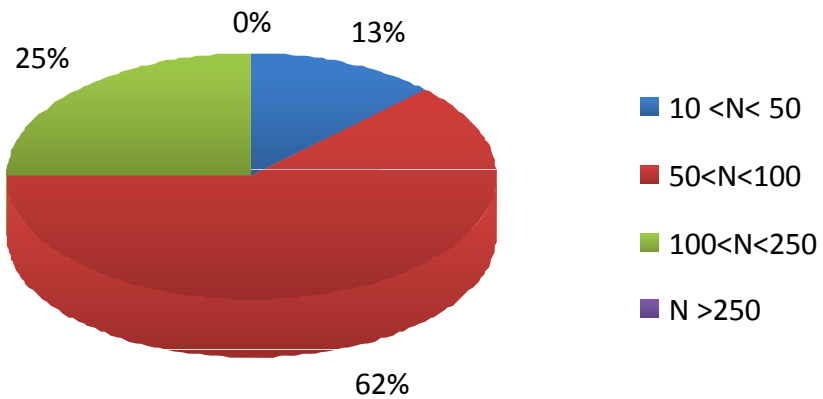
MEMBERSHIP



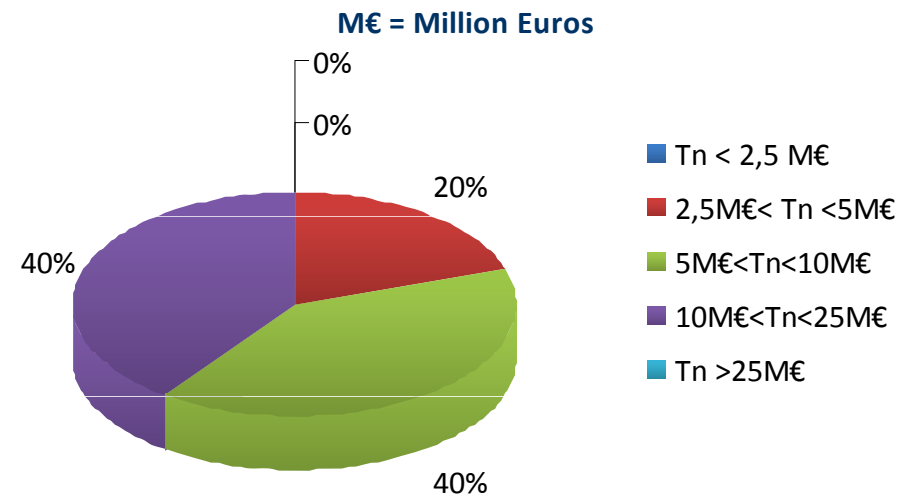
European Tooling Platform

MEMBERSHIP

Number of Employees %

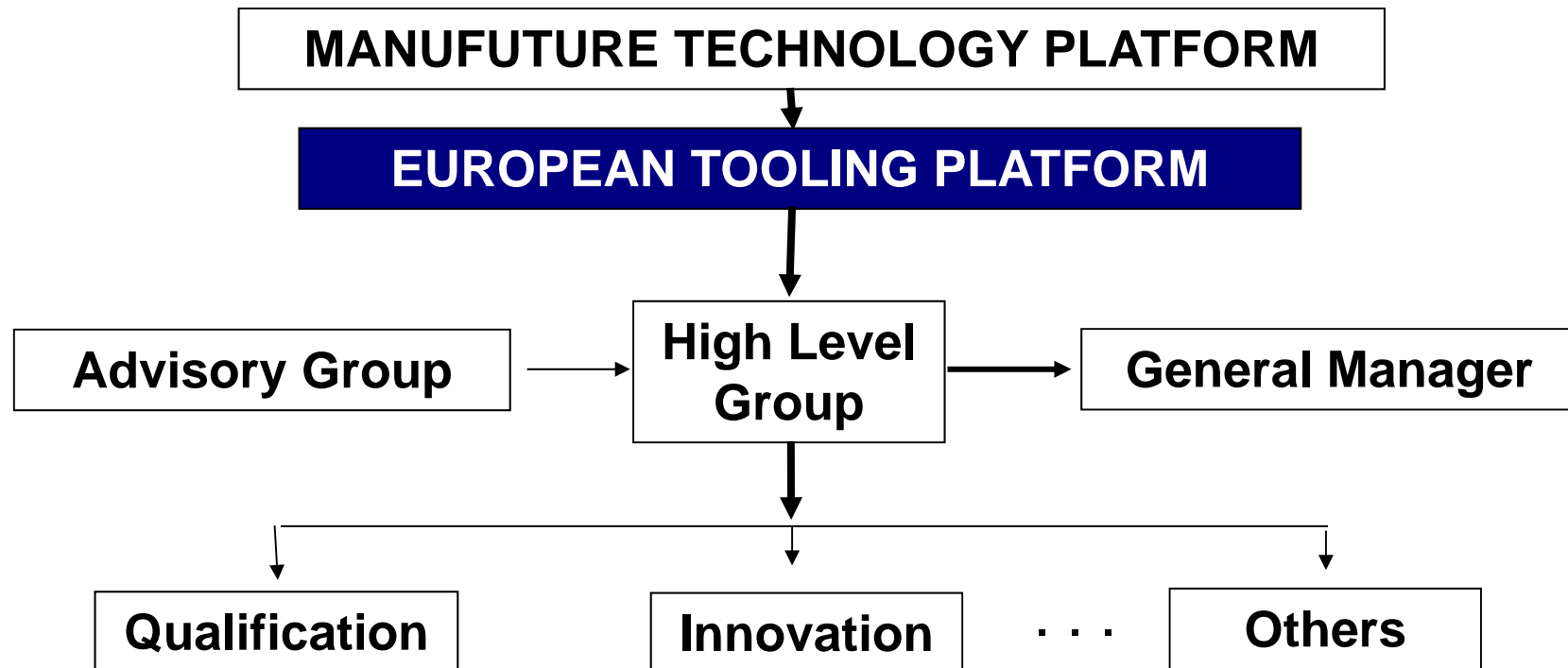


(Tn)Turnover %



European Tooling Platform

GOVERNANCE



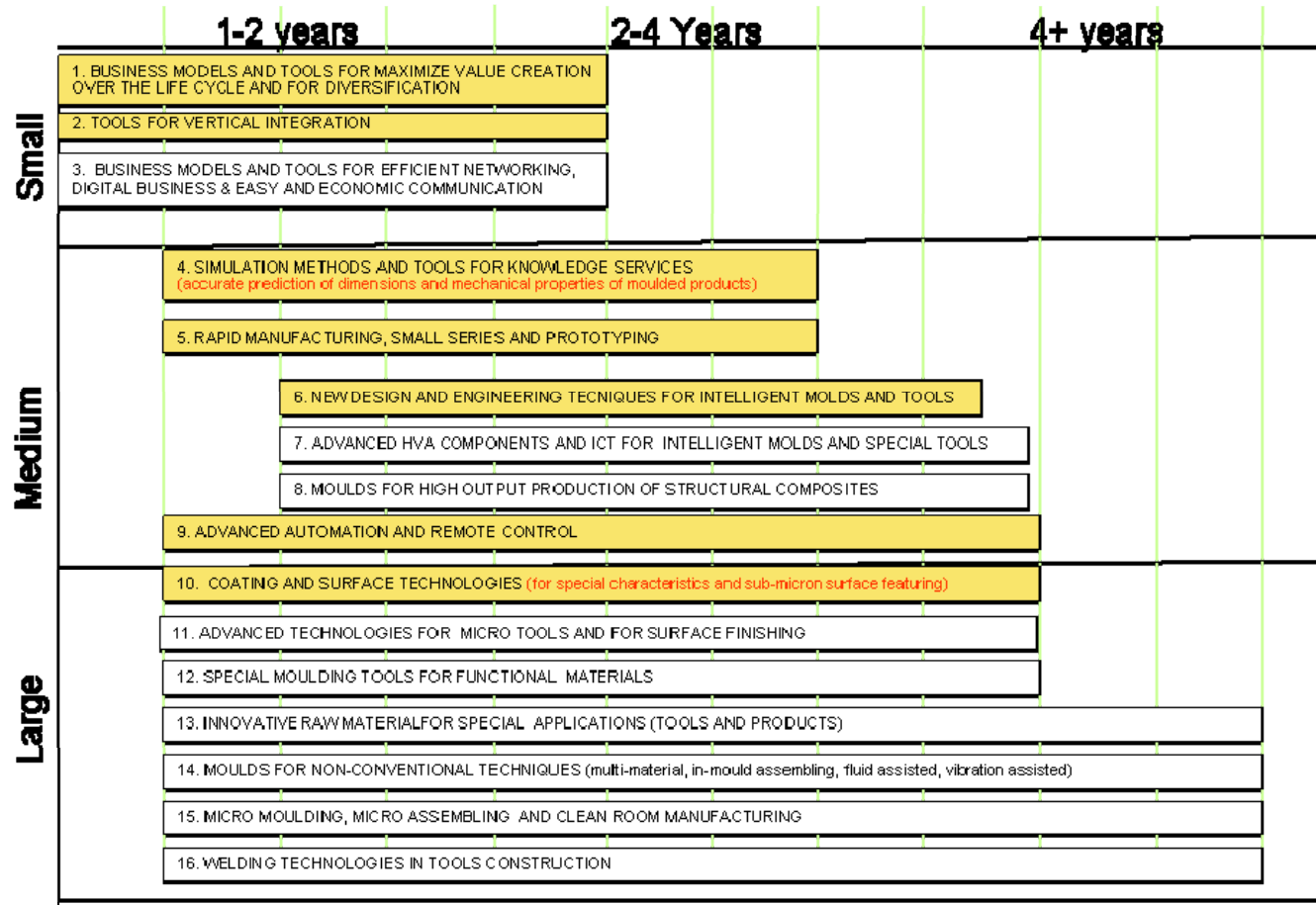
Tooling Enabling Technologies – EuroTooling 21

Enabling Technologies – Tooling Industry

Emerging Technologies
Innovative Technologies

<p>Micro Manufacturing Multi & Micro-Injection Micro-Macro Integration PIM / Micro PIM Distributed / Integrative Engineering Intelligent Tools</p>	<p>Digital Factory Simulation Solid Free Form Production Bio-Materials Eco-Materials Nano Technologies RM/HSM/EDM/Laser Integration</p>
<p>In-Mould Tech Coatings / Surface Treatment Rapid Manufacturing HSM – 5 Axis Milling Eco-Design Small Batches Production</p>	<p>Composites Digital Mock-up of Tools Virtual Production Precision Laser Advanced Automation/Production Cells New Functional Materials</p>
<p>Short term</p>	<p>Long term</p>

European Tooling RoadMap: 2008-2013 (7th FP/EU)

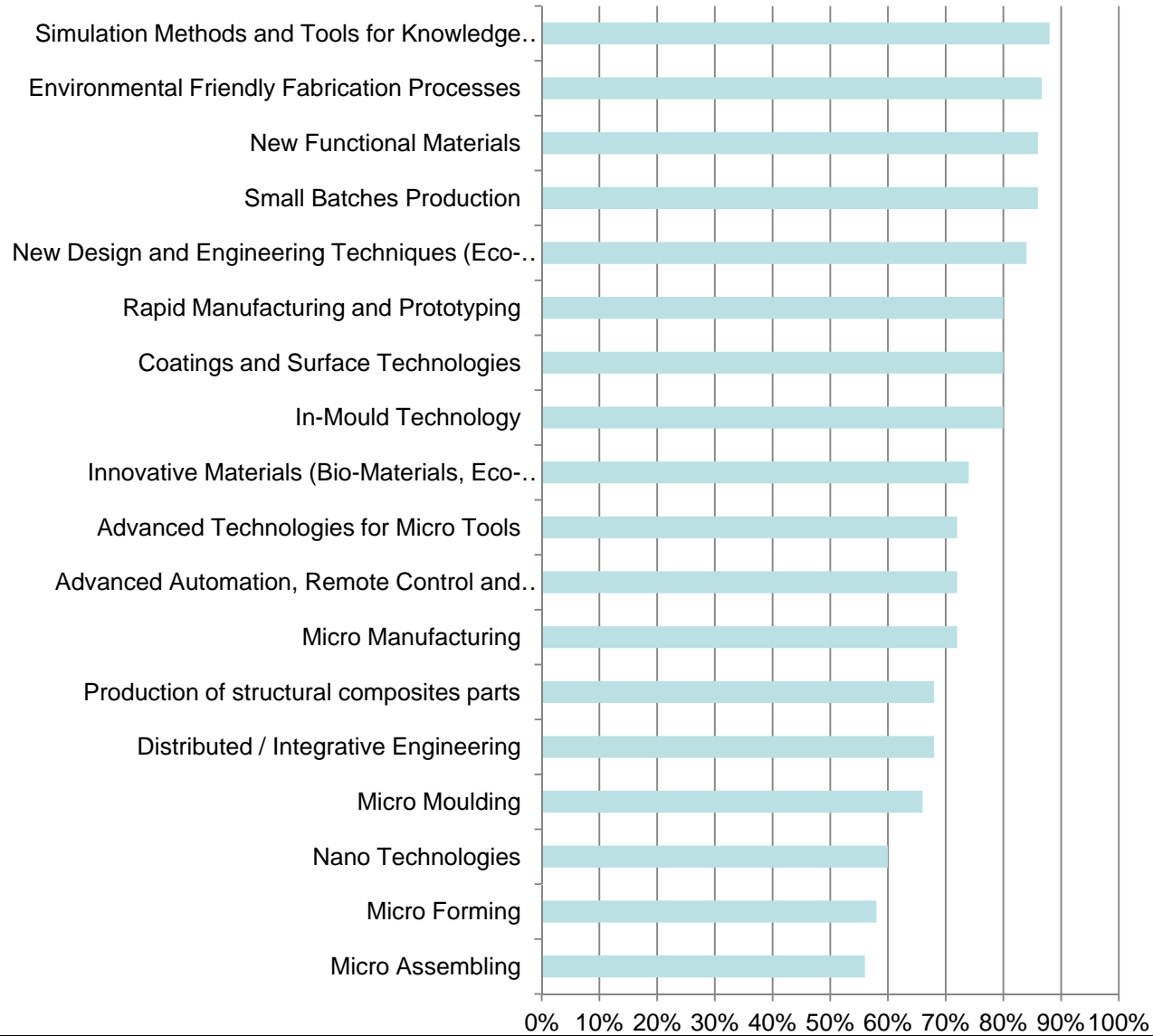


European Tooling Platform - Survey: 2011

Supporting the Next Framework Programme (HORIZON 2020)

European Tooling Roadmap (2013-2020);
Multisectorial Impact / Articulation with other Technological Platforms;
Areas for European Cooperation

2.1 - Classification by relevance degree



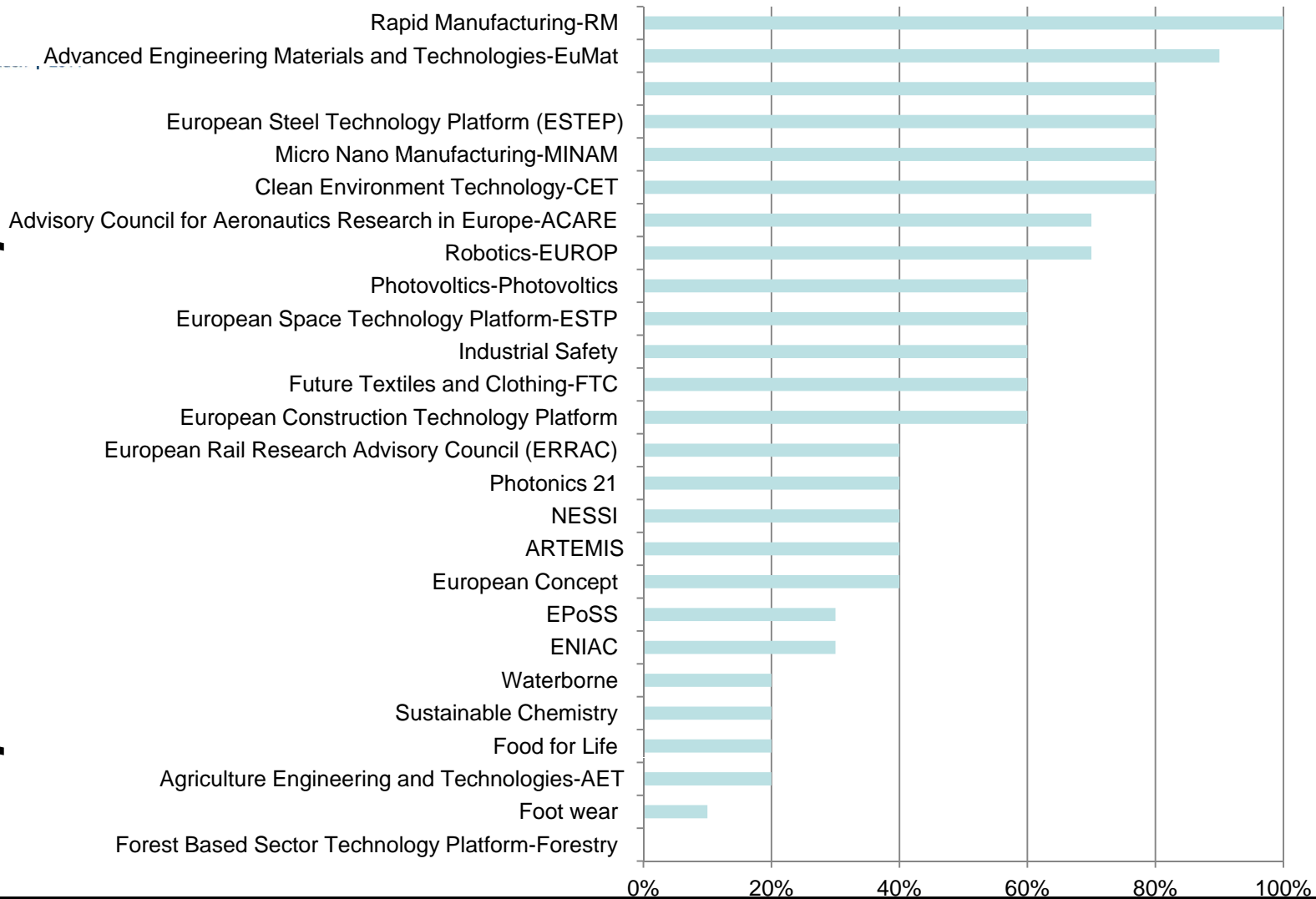
2.2 - Classification by temporal priority

	Short Term	Medium Term	Long Term
Micro Manufacturing	20%	70%	10%
Micro Moulding	10%	80%	10%
Micro Assembling	10%	50%	40%
Micro Forming	20%	60%	20%
Distributed / Integrative Engineering	40%	40%	20%
In-Mould Technology	20%	70%	10%
Coatings and Surface Technologies	70%	20%	10%
Rapid Manufacturing and Prototyping	60%	20%	20%
Small Batches Production	60%	30%	10%
New Design and Engineering Techniques (Eco-Design)	40%	60%	0%
Advanced Automation, Remote Control and Production Cells	40%	50%	10%
Advanced Technologies for Micro Tools	30%	60%	10%
New Functional Materials	20%	70%	10%
Innovative Materials (Bio-Materials, Eco-Materials)	30%	30%	40%
Nano Technologies	0%	60%	40%
Production of structural composites parts	40%	40%	20%
Simulation Methods and Tools for Knowledge Services	60%	40%	0%
Environmental Friendly Fabrication Processes	56%	33%	11%



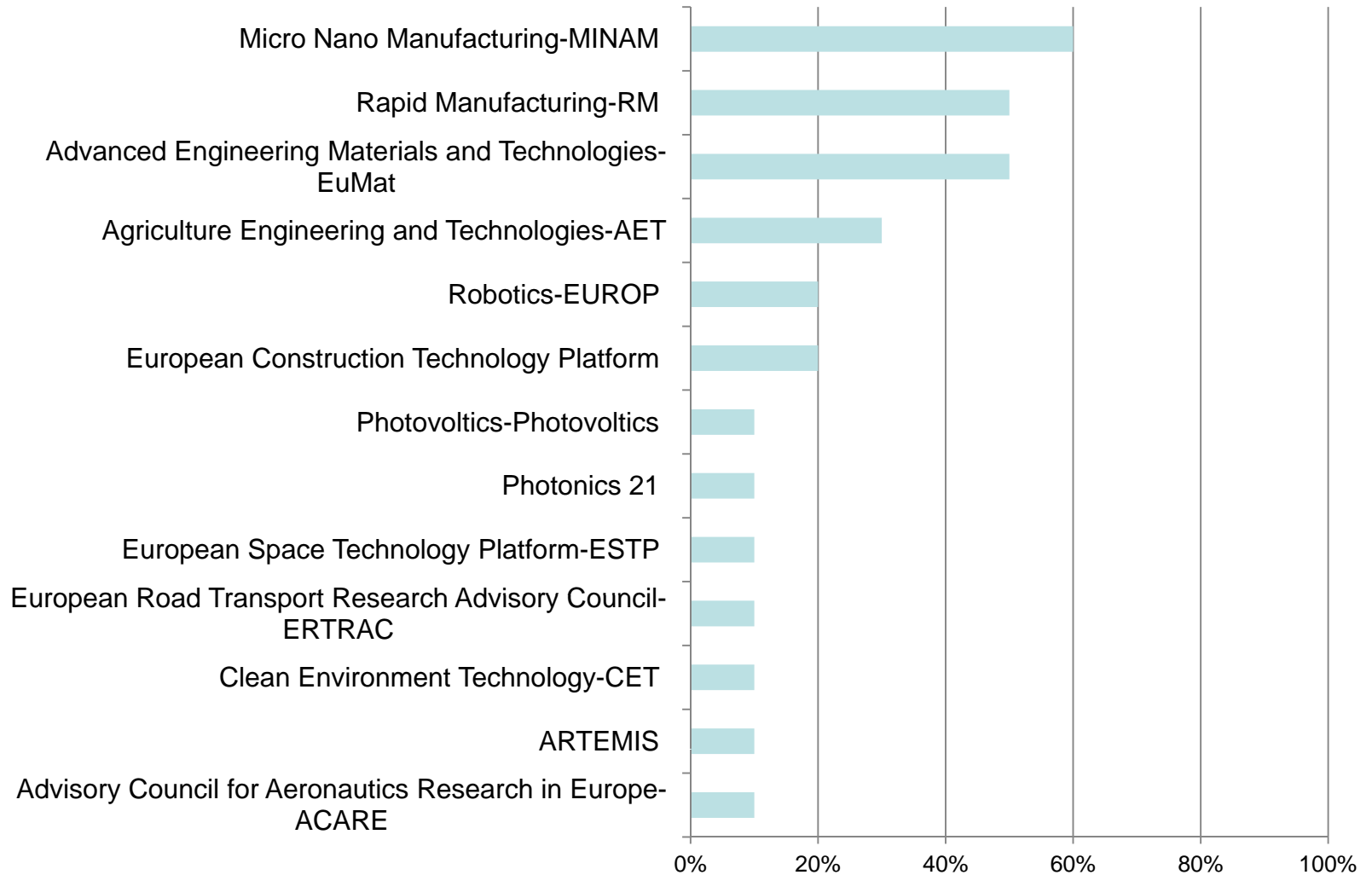
3.1 - As a member of European Technology Platform how important do you consider the collaboration with other platforms?

**Multisectorial Impact
European Platforms Cooperation**



3.2 - Identify the European Platforms, which you consider essential for an active interaction in the future development of European projects with the tooling industry

**Multisectorial Impact
Areas for Cooperation**



3.2 - Identify the European Platforms, which you consider essential for an active interaction in the future development of European projects with the tooling industry and define the respective areas of articulation.

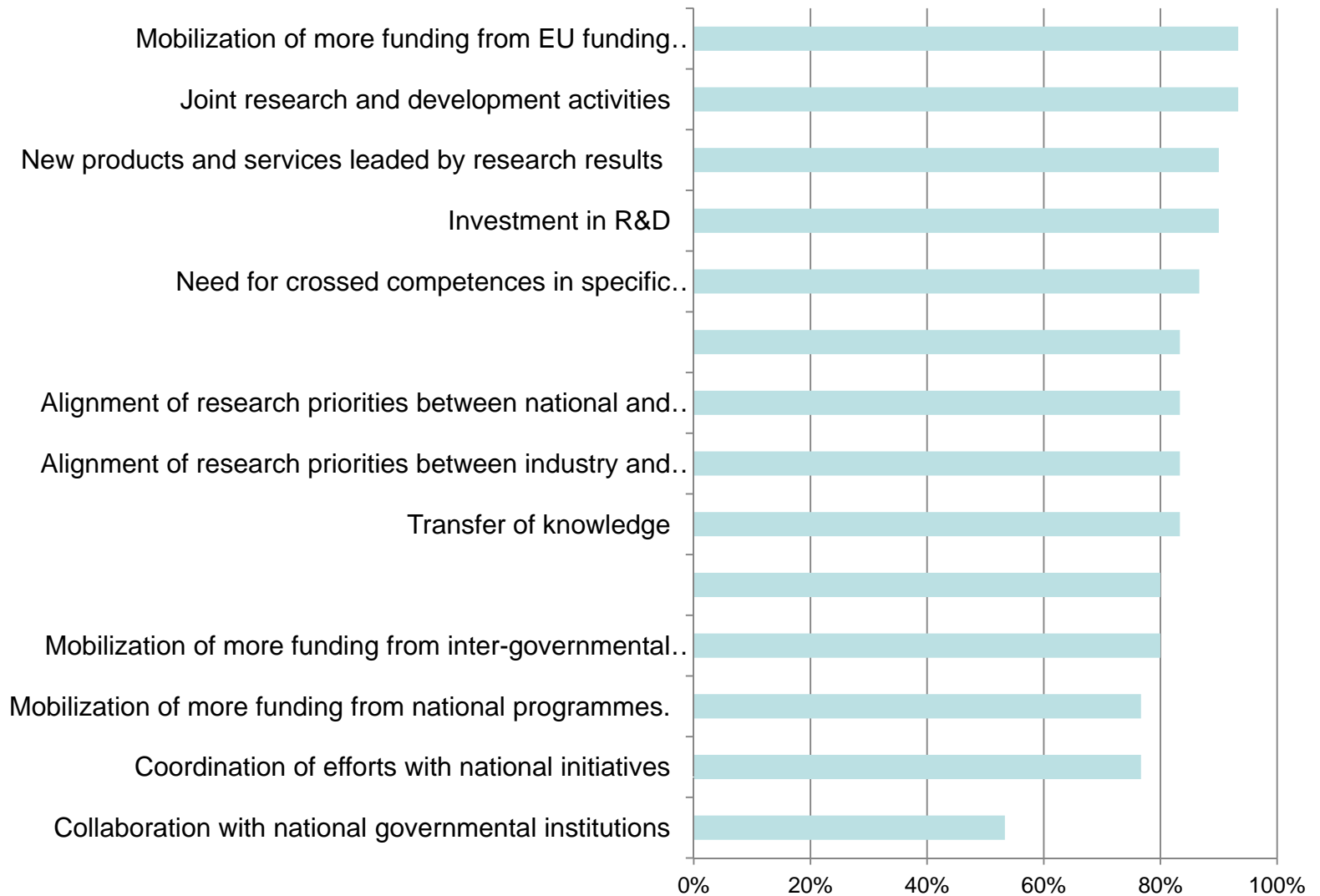
**Multisectorial Impact
Areas for Cooperation**

European Platforms	Areas of Articulation
Advanced Engineering Materials and Technologies- EuMat	Bio polymers For innovative materials and joint work with non plastic experts (hybrid materials) Functional materials
Advisory Council for Aeronautics Research in Europe- ACARE	Efficient production for Small Series New materials for Aeronautics
European Road Transport Research Advisory Council- ERTRAC	For the development of light cars and the necessary tools that have to be jointly developed
Micro Nano Manufacturing-MINAM	Design for micro production For the development of spart plastic products Micro assembling Micro forming Micro handling Micro injection moulding Micro manufacturing Production of micro Tools
Rapid Manufacturing-RM	Better surface finish Materials for RM New materials for RM Prototypes on the micro scale Small series
Robotics-EUROP	Helping operators in the moulding industry doing physically hard manual work by collaborative robots (cobots).



**Multisectorial Impact
Areas for Cooperation**

3.3 - Which activities do you consider more important in relation to the collaboration with other European technology platforms?





The European Tooling sector plays a strategic role in the rejuvenation and development of the European industrial activity and economy.

Believing on Future we will continue to reinforce the sector competitiveness through investing on skilled workforce and high technology, supported by research, innovation and Networking!

Contacts:

toolingplatform@manufuturenet.eu

THANK YOU!



ISTMA EUROPE

President: Mr. Janez Poje

Secretariat: Mr. Manuel Oliveira
E-mail: manuel.oliveira@cefamol.pt
Phone: + 351 244 575 150

VDMA

Contact person: Wolfgang Sengebusch
E-mail: wolfgang.sengebusch@vdma.org
Phone: + 49 69 6603 1251

EUROPEAN TOOLING PLATFORM

General-Manager: Rui Tocha
E-mail: toolingplatform@manufuturenet.eu
Phone: + 351 244 545 600

