

Working Group General Information	
Working Group Title	Roadmap of Simulation in Manufacturing and Logistics
Working Group Short Name	ROADMAP-ML
Short Summary of the Working Group Topic	
The Sim-Serv supported working group will bring together representatives of European manufacturing and logistics simulation community. The purpose of the road mapping group is to form a vision on how research and applications of simulation will evolve in the next 5-10 years time. Furthermore the group will lay down plans how to pursue that vision.	
Short Summary of the Working Group Goals	
<p>The roadmap should define top-level goals and supporting requirements for research, development and implementation of simulation technologies and capabilities.</p> <p>The group will define the business drivers for improved simulation technologies. It will chart the technological challenges in the area. The group will decide on key areas where it will assess the current state and develop future state vision, goals and requirements.</p>	

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Background. Reasons why this Working Group is needed.
<p>Sim-Serv needs to form a forum where European researchers, software developers, application providers and users meet and define what will be the future of simulation technologies and their applications and what is needed along the road to get there.</p> <p>Searching for simulation software from the web it can be quickly noticed that over half of the software found is developed and distributed by American companies. American organisations have created a roadmap of modelling and simulation for affordable manufacturing (www.imti21.org). It is time for European simulation community to get together and counterbalance American dominance. Only by joining our forces we can foster the growth of European simulation community. The Sim-Serv group should critically review American efforts in the light of specific needs of the manufacturing industry and go on to develop own manufacturing and logistics focused roadmap.</p> <p>The roadmapping methodology developed by IMTI may be used as a starting point. This implies first building up a functional model including all modelling and simulation related functions that the enterprise must perform in order to manufacture and distribute its products (this group probably excludes use of simulation in product design or should it be included?).</p> <p>As background information this working group should use knowledge gathered in Sim-Serv working groups #1 Modular Design of Simulation Tools and #2 Open Digital Factory.</p>
Working Group goals.
<p>The Sim-Serv supported working group will bring together representatives of European manufacturing and logistics simulation community. The group will define a common vision for development and application of simulation technologies in manufacturing and logistics and to implement plans to pursue that vision.</p> <p>The roadmap should define top-level goals and supporting requirements for research, development and implementation of simulation technologies and capabilities.</p> <p>The group will define the business drivers for improved simulation technologies. It will chart the technological challenges in the area. The group will decide on key areas where it will assess the current state and develop future state vision, goals and requirements.</p>

The expected impact of the working group.

The working group will provide a roadmap that will be publicly available for all interested parties on the Sim-Serv web site <http://www.sim-serv.com/>. The roadmap will guide European researcher and software developers in their efforts to create focused collaborative R&D initiatives. In addition Sim-Serv will be recognised as an important European initiative for enhancing co-operation and setting directions for future research.