

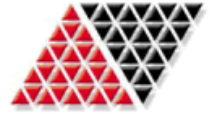
NAFEMS

Simulation Data Management Working Group

- Brief Overview

June 26, 2008





SDM Value Proposition

- ▲ Today, many manufacturers are facing tremendous challenges related to the storage and retrieval of simulation data. Product Data Management (PDM) systems are not capable of handling the terabytes of information which are generated as a result of performing these complex simulations. Simulation Data Management (SDM) provides a mechanism for the storage, management, and retrieval of this performance-related data.
- ▲ The SDMWG will address this breakthrough technology by helping the community better understand the benefits gained from implementing a Simulation Data Management system and how to save time, reduce development costs, and improve time-to-market.
- ▲ The Simulation Data Management Working Group (SDMWG) will bring together a rich blend of leading engineering practitioners, software vendors, and academic researchers from around the world.



NAFEMS SDMWG Objectives

▲ The Simulation Data Management Working Group (SDMWG) and Simulation Data Management Working Group Steering Committee (SDMWG-SC) will draw together a rich blend of leading engineering practitioners, software vendors, and academic researchers from around the world.

▲ SDMWG and SDMWG-SC Purpose:

- Promote the adoption and further development of practical applications to meet the Value Propositions
- Give unique insight and perspective into the area of data management.
- Collaborate on recent developments
- Share breakthrough technologies



NAFEMS Simulation Data Management Working Group (SDMWG)

 Based on a team of x members:

- Provide recommendations to advance the user community
- Share breakthrough technology to the dedicated community
- Provide support to the SDMWG-SC
- Publish whitepapers

 Mix of industrialists, consultants, vendors, and academia:

- Focus on the user community



NAFEMS Simulation Data Management Working Group Steering Committee (SDMWG-SC)

- ▲ Based on a core team of 10 members:
 - Proactively represent the user group
 - Provide recommendations to advance the user community
 - Share breakthrough technology to the dedicated community
 - Publish whitepapers (with SDMWG support)
- ▲ Mix of industrialists, consultants, vendors, and academia:
 - Focus on the user community



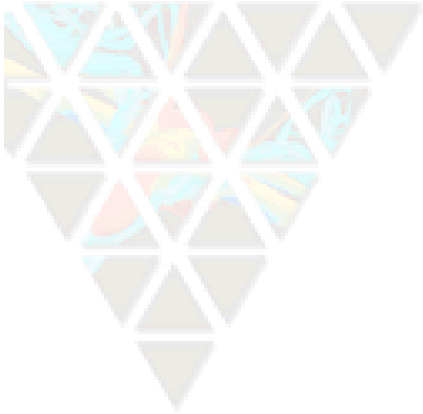
NAFEMS Simulation Data Management Working Group Steering Committee (SDMWG-SC) – Chairman

▲ The Chairman of the Simulation Data Management Working Group Steering Committee (SDMWG-SC) works with the Technical Liaison Group (TLG) to provide an overview of priorities and input into the future deliverables plan and the budgeting process for commissioning new documentation

▲ The SDMWG-SC Chairman is selected by vote by the members of newly formed SDMWG-SC

- Industrial end-user is **required**
- Responsible for:
 - Developing the disciplines under the SDMWG
 - Appointing appropriate SDMWG-SC members (as necessary)

▲ The by-laws are developed and voted on by the SDMWG-SC under the leadership of the SDMWG-SC Chairman



Additional Reference Content



NAFEMS Objectives

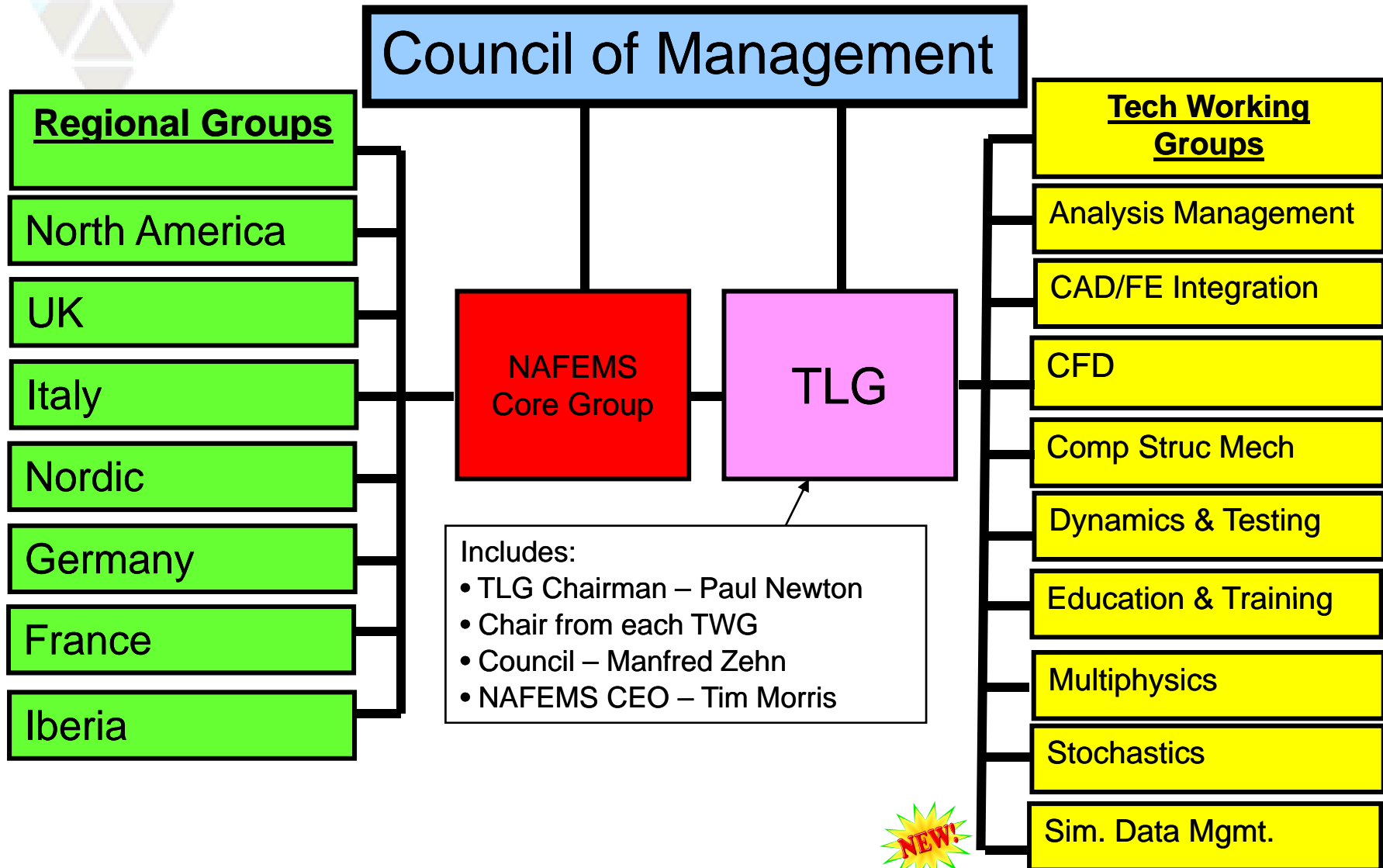
NAFEMS mission is to act as a trusted source and a collaborative resource for the best engineering modeling, simulation and analysis practices in the development of safe, reliable, and affordable products. Its focus is to champion and improve best practices, to promote and enrich educational opportunities aligned with the rapidly-advancing technologies, and to advance the productivity and quality of virtual product development processes.

Specific objectives of NAFEMS are to:

- Promote **COLLABORATION** within the international engineering analysis and simulation community,
- Stimulate **INNOVATION** via transfer of knowledge in the use of advanced scientific, engineering and computing technologies,
- Maximize **PRODUCTIVITY** through improved best practices used in product development engineering processes,
- Implant **QUALITY** in the methods and techniques exploited by virtual product development processes.

NAFEMS is a non-profit membership association of more than **850 companies** from all over the world.

NAFEMS Organizational Structure





Technical Liaison Group (TLG)

- ▲ The technical activities of NAFEMS are directed by the Technical Liaison Group (TLG). The TLG currently consists of the chairmen of the Technical Working Groups.
- ▲ The TLG co-ordinates the activities of the different working groups to eradicate duplication of effort and to ensure that items that are of high priority to industry are dealt with by one or more working group
- ▲ The TLG manages the “pipeline” of deliverables that are being developed to ensure that members receive a regular supply of new documents
- ▲ Plans are being put in place to ensure that, in the future, NAFEMS derives benefits from the advantages of new media technologies for delivering information from the working groups.



NAFEMS Technical Working Groups – Publications

- Focus on promoting the adoption and development of data management processes through subsequent publications.
- Each text undergoes a rigorous examination and critique by the experts sitting on the NAFEMS Simulation Data Management Working Group.
- Each TWG typically produces 1-2 publications per year.

