EuMaT

European Technology Platform for Advanced Engineering Materials and Technologies

EUMAT

EuMaT priorites in safety, security and risk management

Michal Basista

EU-VRi Cross-ETP event
Common challenges to safety, security and risk management
21st April 2015, Brussels

Basic data

EUMAT

Initiated - August 2004; official launch event - June 2006

Status in April 2015: ~ 900 registered members

~ 23% from industry

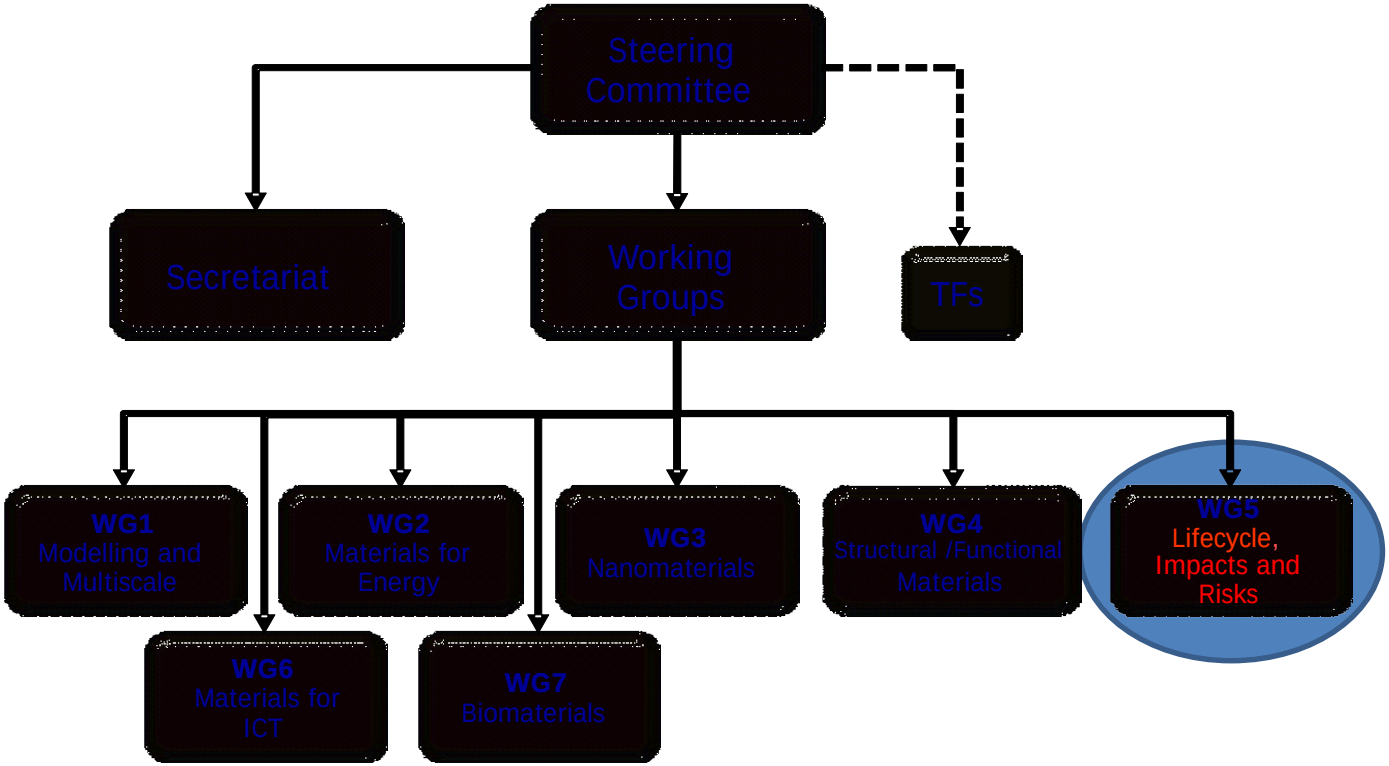
SRA:

- 2006
- 2012
- 2015

EuMaT Steering Committee (36 members)

Cranfield UNIVERSITY
Centro Sviluppo Materiali S.p.A.
umicore materials for a better life
CRF CENTRO RICERCHE FIAT
ALSTOM
JÜLICH FORSCHUNGSZENTRUM
SGL GROUP THE CARBON COMPANY
iSQ
IK4 TEKNIKER Research Alliance
BOSCH Invented for life
TNO
KMM.VIN
vito vision on technology
Knowledge Transfer Network Materials
stw
ENEA Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile

EuMaT Structure



EuMaT Deliverables

- **Strategic Research Agenda** in the area of advanced engineering materials and related materials technologies
- **R&D priorities** for EU Workprogrammes
- **Alliance for Materials**
  Integration of ETPs / EMRS / FEMS dealing with Materials along the **value chain** to achieve the most effective use of the Community resources.

Alliance of Materials (A4M)

Main challenges in Life Cycle Assessment and Risk Assessment of advanced materials

- Shortage of standards and acceptance criteria for the macro properties of new advanced materials and importance of local properties (materials by design)
- Lack of experience with new materials and difficulties to collect all the data needed
- Emphasis on focused and optimized use of the available, often limited, research resources
- Societal expectations that materials R&D be yielding transparent and sustainable innovations
- Finding balance between precaution and risk of innovation, and a resource-efficient Europe

EuMaT priorites in safety, security and risk management in 3-10 year time horizon

- Identification, mapping and monitoring of the risks (environmetal, health, safety, security, business continuity) related to **R&D gaps**, **overlaps**, and **connected R&D** projects.
- Identification and monitoring of **emerging** risks related to new materials and technologies (e.g. health and safety issues in production, storage and transport of nano-materials on industrial scale in SMEs).
- **Mapping of resources** (expertise, facilities) to be able to optimize them and find the optimal match with the needs.
- **Sustainable materials management** as key to Circular Economy:
  - minimize the use of materials
  - maximize the use of recycled materials
  - minimize the impacts of value chains on the availability of natural resources

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Thank you for your attention !