



# EMMC - Translation of industrial problems into materials models

*Road Map 2016 Meeting in Brussels, Friday 20th May 2016*

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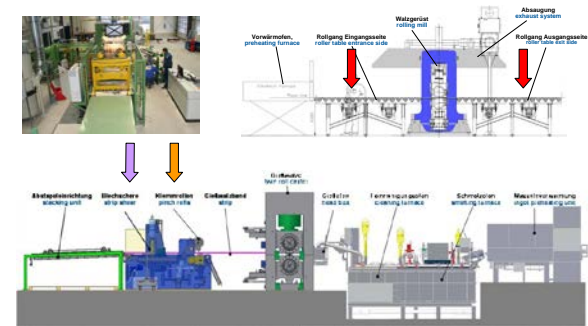
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# The European Materials Modelling Council

## Mission of Translators





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## Mission of Translators

### Goal





### Universal soldier – She / He will ideally have

- **full understanding** of the problem and its industrial context
- a **broad background** of knowledge about costs, time to solution and expected accuracy of modelling efforts
- ability to estimate the economical advantage of Materials modelling
- ability to balance effort and accuracy requirements
- handle confidentiality issues
- .....
- **knows many people**, academics, infrastructures, SWO's etc. and can **give neutral, objective advice**



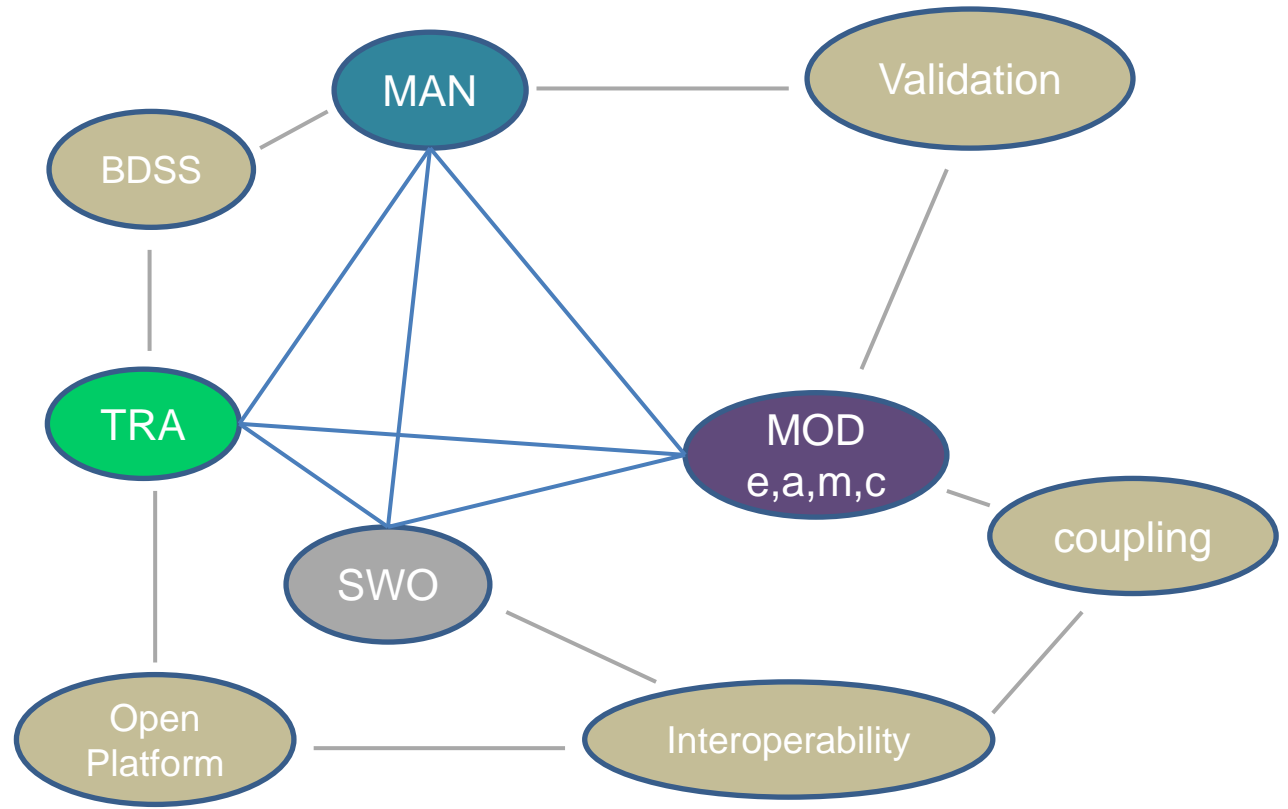
# The European Materials Modelling Council

## Position of the Translator

**IAB**  
Industrial Advisory Board

**OMB**  
Operational Management Board

Materials Modelling Marketplace  
one-shop-stop



*a meshed network*



- What do you think?

### TRANS provides

1. Modell and data driven approaches/simulation workflows
2. Software knowledge and benchmarks
3. BDSS tools (multi criteria decision making tools), including risk analysis of modelling usage
4. Best practices experience
5. Case studies and information on databases
6. Validation know-how
7. Sensibility for industrial “in practice” requirements

### TRANS requests

1. **all information required**
  - Try to receive information on: User Stories, Use Cases
  - Success indicators as quantifying entities in early stage towards cost-benefit estimations

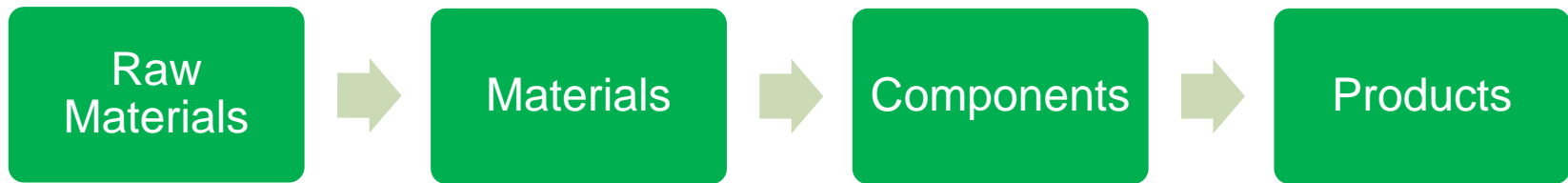
**We need agreement on what Translators will / have to ask → The Rules of Conduct and the definition of the Translation process as a special separate case from modelling or industrial application or software development is needed!**



- Development of **methodologies** for Translators and translation processes adapted to various industrial sectors.
- Joined workshops and events for enhanced use of modelling in industry aiming **the training of potential translators** (e.g. from R&D units, consultancies or software distributors) in a cross-cutting manner.
- Establishment of study cases (with open access to industry and progress tracking) showing exemplary the **benefits of modelling** in solving industrial challenges.
- Organization of customized training sessions targeting **industrial demands** (especially from SME's).



- Establishment of best and worst practices (user guide NDA for translators) and a code of conduct
  - **survey** on the need and level of use of modelling in different industrial sectors along the value chain, for various application markets **is missing**

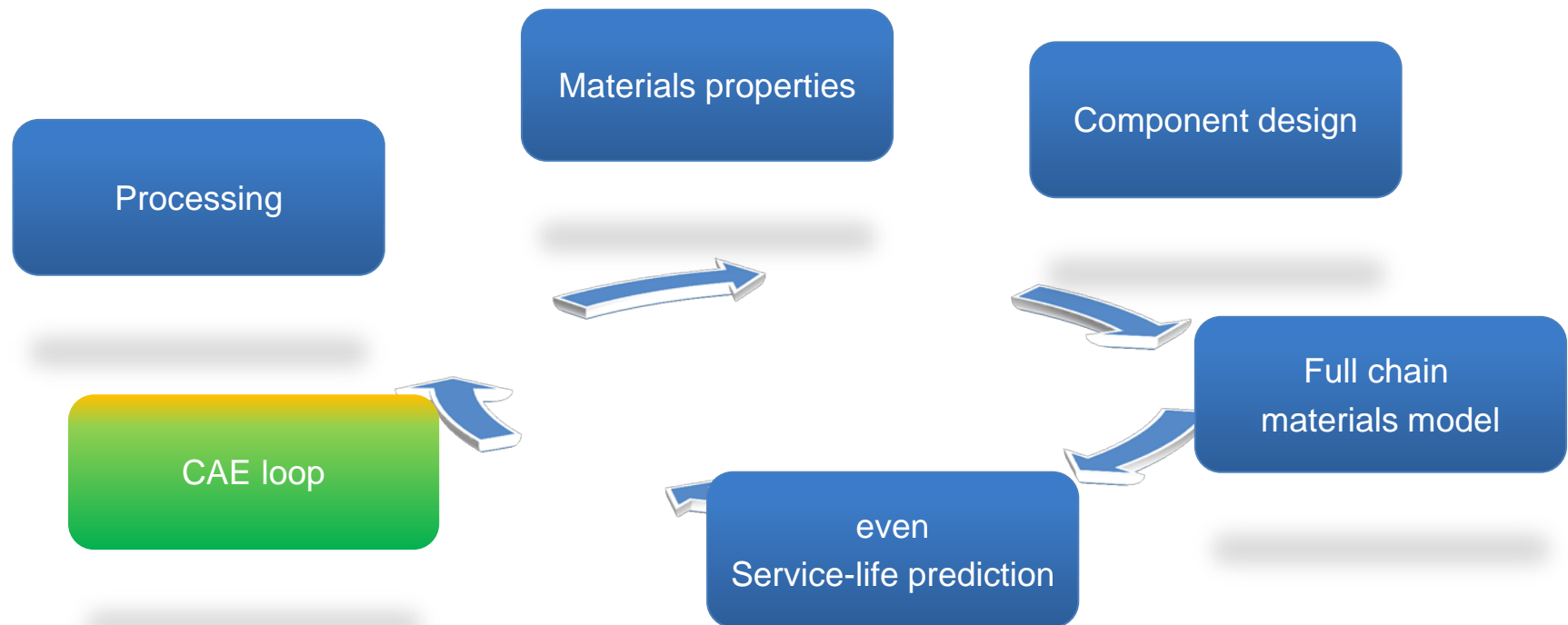


*along the value chain and the service-life*



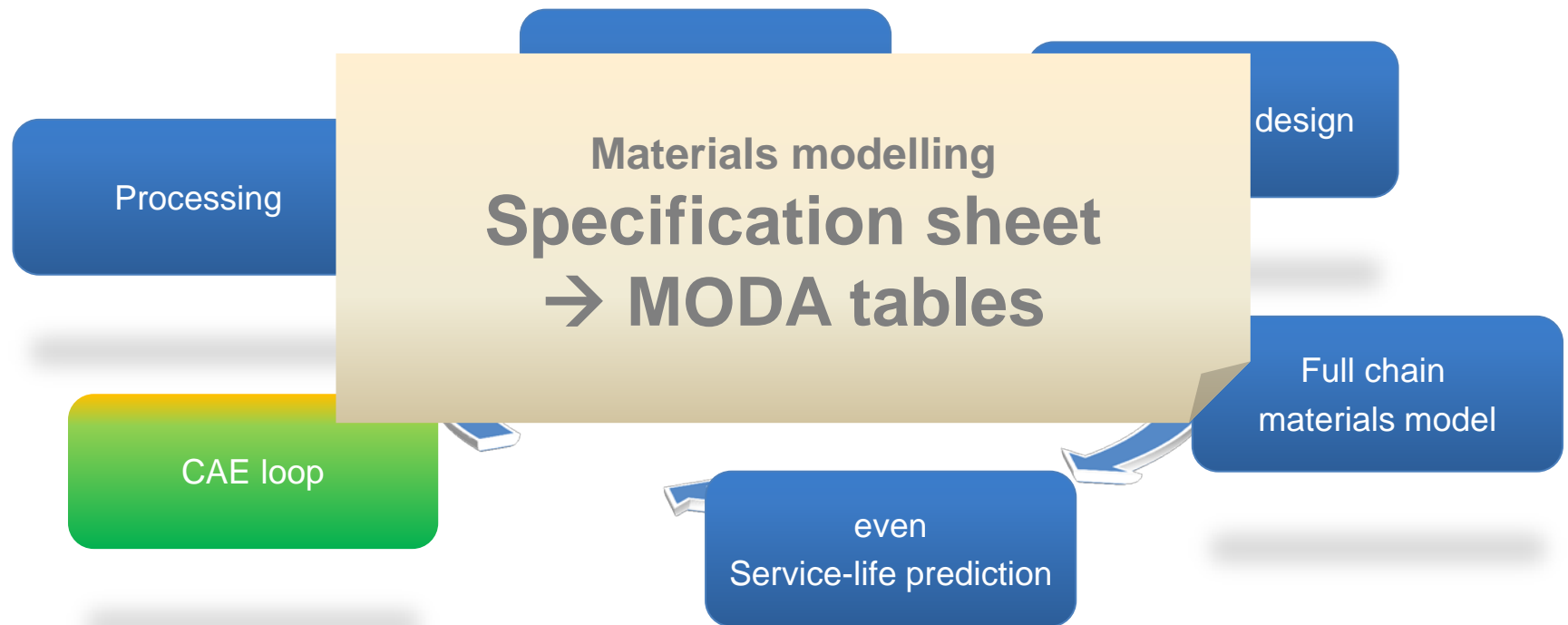


- Establishment of working methodology for introduction/use of modelling in industry





- Establishment of working methodology for introduction/use of modelling in industry



- Setting up a Translators Blog for exchange of ideas and information:
  - we need a Translator forum → EMMC website





- Memorandum of Understanding – A guide towards training of potential translators (e.g. from R&D units, consultancies or software distributors) in a cross-cutting manner
  - we need agreement on the „job“ to be done by Translators and to figure out reasonable education
  - the job has to be established in industrial reality
    - contributes to the “supply chain”



What are the next steps?



- Identification of Translators and engage them to join the network
  - suggestion: Learn from the experience of SWO and other stakeholders from application-oriented research organizations who perform R&D directly for industry!
- Setting up a list of „low hanging fruits“
  - (support: [Ole Swang](#))
- Develop Translation sandbox scenarios and case studies!



The High Level Group<sup>1</sup> has installed a Task Force on translation. It consists of assigned short-term experts who discuss the main bottlenecks to bridge the gap from **modeling research to the market.**

- first report September 2016
- will establish a list of activities that could reach this objective.
- Support of by the Member States will be requested

<sup>1</sup> *(an advisory board to the LEIT programme, consisting of Member States)*



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