



EMMC Translation Case

Introduction

Translator

- Name, affiliation and contact details
- What type of Translator is your institution: TTI (Technology Transfer Institute), Academic group, Software Company, Manufacturing Industry, Other (Consultancy, etc.).
- What is your field of translation expertise: specify type of material or type of models according to RoMM (please see [Review of Materials Modelling](#)),

Client

- Who is the client? Is the client a large company, SME or a consortium thereof?
- Which value chain segment (e.g. material producer, converter, end-user) it is positioned?
- Did you have existing collaboration with the client?

Industrial/Business Case

- Describe briefly the industrial problem.
- Indicate involved budget or preferred time to solution (duration).
- Indicate what was the expected outcome of the translation process.

Translation to modelling solution

- What type of model(s) did you use propose and use? Explain arguments and criteria used to propose and choose a specific modelling approach and modelling executor for the specific industrial problem.
 - Include inventory and data quality assessment. Was it necessary to realize dedicated experiments prior to simulation? Describe the required validation steps.
 - Were model accuracy and necessary investments discussed? If so – please describe.
 - Who made the final choice for the model and for the modelling executor? Based on which criteria?
 - Explain the involvement of the client in the case.

Evaluation of the translation case

- Indicate eventual bottlenecks encountered in the translation process or any suggestion for improvement of the process.

Client's benefits from the modelling

- How did the client use the modelling results?
- What were the benefits for the client of using modelling?



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Economic impact of the modelling project

- When possible, estimate the **Total Client Investment (TCI)** in this modelling project as the sum of all Direct Costs. Direct Costs are, for example: Software cost/ licenses, Hardware cost, IT support, Labour/ Material cost, Training, Staff cost, Computing cost.

| Direct Costs | EUR |
|--------------------------------------|------------|
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| Total Client Investment (TCI) | EUR |

- Estimate the **Total Client Benefit (TCB)** from this modelling project. Please consider certain KPIs (e.g. costs for saved number of experiments, cost for saved materials, costs for personnel saved for experimental work, improved processing etc. For more information please look in the attached document on KPIs or at [Economic Impact of Materials Modelling](#).

| Client Benefits (e.g. based on certain KPIs) | EUR |
|--|------------|
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| Total Client Benefit (TCB) | EUR |

Return on investment (ROI)

- Calculate the ROI as a ratio of the Total Client Benefit (TCB) and the Total Client Investment (TCI):
 $ROI = TCB / TCI$

| | |
|-----|--|
| ROI | |
|-----|--|