

Innovation hubs: next generation collaboration and services on marketplaces

Introduction

Innovation Hubs are meant to enable all stakeholders especially companies access to vast materials modelling related services including training, education, repositories of models and materials data, as well as collaboration and translator and translation platforms. The goal is that companies find information and connect to modellers (and vice versa) more efficiently and become more competitive in their materials/products/production processes developments using online digital technologies.

Innovation hubs are based on state of the art cloud technologies (private and public) providing the infrastructure for online platforms, that are essentially like “virtual competence centres” or “virtual institutes” providing access to the latest knowledge, expertise and modelling advances across all domains. Such innovation hubs should also be connected to regional centres helping bringing and connecting all key players together to collate all expertise from all Europe into one vibrant hub.

Examples of such hubs are the emerging Materials Modelling Marketplaces as envisioned by the EMMC. They provide foundations for collating all materials modelling expertise and assets, such as programs (commercial and open) on open and closed (behind firewall) online hubs.

Objectives

The objectives of the session is to present an expose of available related activities and discuss how to increase the access to next generation collaboration services on marketplace. More specifically the objectives are:

- Provide one stop shop for finding all services related to materials modelling
- Ease the process of discovery of capabilities of materials modelling
- Find trusted experts rapidly
- Foster collaboration and enhance interaction between academia and companies
- Provide training and education channels enabling especially SMEs to utilise digitalisation and materials modelling more efficiently.

Background information and documents

- <https://emmc.info/wp-content/uploads/2018/01/European-Materials-Modelling-vision-beyond-2020.pdf>
- <http://the-marketplace-project.eu>
- <http://vimmp.eu>
- <https://emmc.info>

Discussion points and questions

- How to stimulate the participation of modellers, software owners, and companies in using marketplaces and innovation hubs

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- What kind of translation services and how to offer them on such hubs and marketplaces
- Can online translation work? And how?
- Match making: how to guarantee a level quality of services offered online?
- Privacy: as a user of an online hub or marketplace, what personal information would allow to be used for quality assurance purposes (name, expertise, past experience)?
- How important connections or integrations to services such as LinkedIn, research gate, google scholar, etc., would be to you?
- These hubs offer open discussion forum (like stack exchange, or see emmc.info/forums). In which scenarios would you use such forums actively?
- How would you envision education and translation services? How important and how to integrate with existing platforms (such as coursera)?
- Data sharing and exploitation? If you are a database owner what would convince you to link/host/share your database with or on such innovation hubs (and marketplaces)?
- As a modeller, what would convince you to upload your modelling workflows and data to such innovation hubs?
- Would you consider publishing data and preprints of your modelling on such innovation hubs?
- The EMMC created a MODA portal as a tool to document your simulation workflows, see <http://emmc.info/moda>. How would you envision a similar service to document your simulations and link your results to it? What improvements you would like to see in the moda or a similar tool?
- Would adding DOI and citation to MODA in addition to some peer review encourage you to use the online tool more?