



# MMP



Milestone: Approach and targets on educational activities approved  
Responsible Partner: Czech Technical University in Prague  
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NMP.2013.1.4-1: Multiscale Modelling Platform: Smart design of nano-enabled products in green technologies

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Project website: <http://www.mmp-project.eu>  
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Project partners: TNO, TU/e, CTU, Access, VTT, CeISian, Philips, Abengoa

This milestone serves for Consortium approval on planning, subjects and contents of internal/external workshops and webinars. MMP project differentiates between dissemination, education and exploitation activities. In the DoW there is more detailed information about the contents of WP4. Educational activities are specifically described in Task 4.2 of WP4, which is composed of three subtasks. The following sections summarize them with corresponding actual state, contents and plans.

### **1. Internal workshops**

Internal workshops took place in M6 (as D4.7), M12 (as D4.8), and M18 (as D4.9) among Consortium partners. Contents of these workshops were already reported in the three above-mentioned deliverables. Their content has been discussed several times during bi-weekly phone calls prior to internal workshop planning.

### **2. External workshop**

External workshop (Plugfest) relates to D4.6 in M33. EU Multiscale Modelling Cluster comprises 5+1 FP7 projects on multiscale modelling (DEEPEN, MMP, MODENA, NANOSIM, SIMPHONY, ICMEg) which use various codes, software and approaches. The external workshop will test inter-operability of data exchange between developed codes based on HDF5 data format with structure based on proposed standardized keywords and metadata. This development is still in progress and ICMEg prepares the standard on material metadata as agreed on the 3<sup>rd</sup> workshop of the Cluster, May 28-29, held in Jyväskylä.

The workshop data, venue and content will be specified later by TNO who is the leader of D4.6.

### **3. Webinars**

Webinars will serve for state-of-the-art developments among MMP partners, EU Multiscale Modelling Cluster and external parties. Three webinars are planned, particularly in M20 (as D4.10), M25 (as D4.11) and M30 (as D4.12).

Webinar 1 on “Generic platform design” is planned for the M20. The planned content of the webinar is the following:

- Introduction to the platform design
  - Introduction to platform Object Oriented design
  - Fundamental Object-Oriented principles: Encapsulation, Abstract classes, methods, attributes.
  - Overview of platform abstract classes
- Key features of the platform
- Distributed/Parallel model

- Platform installation / demonstration using simple examples
- Discussion

Content of Webinar 2 on the topic “Build your own API”, planned for M25:

- Overview of platform design
- Application Interface explained
- Approaches to implement application interface
  - Direct approach explained (open source codes or codes with API)
    - example
  - Indirect approach explained (closed source codes)
    - overview of wrapping tools
    - example
- Discussion

Content of Webinar 3 on “Perform a platform run”, planned in M30:

- Platform prerequisites, installation (repository install, pip install)
- Introduction to sandbox problem (to be defined)
- Preparing simulation scenario for sandbox problem (GUI, python script)
- Live demo: Executing and monitoring simulation scenario
- Discussion

All webinars will be on-line broadcasted on announced dates and recorded. The recorded webinars will be publically available on the MMP public website.