



## D5.2 MAPPER vertical integration plan

### Report: Delta Report

Project acronym: *MAPPER*

Project full title: Multiscale Applications on European e-Infrastructures

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## Summary of changes in D5.2

After the last release of the document (PM12) a set of remaining applications was adapted to the MAPPER multiscale environment. All the applications come from different science disciplines than the application scenarios described and demonstrated during the first MAPPER review. However, new application scenarios together with new requirements are fully compatible with the two generic distributed multi-scale computing types, i.e. tightly- or loosely-coupled, identified during the first phase of the MAPPER project.

The following list presents how this document has been modified and evolved since the previous releases:

### **PM24: Version 2.2 (extensions to version 1.5)**

- A new "Update notes" section,
- The section "Tightly-coupled platforms" was split into two subsections: MUSCLE and MP-Wide (a new Deep Track Component which was not described in the previous releases of the document),
- The Loosely-coupled scenario and Tightly-coupled Scenario sections have been transformed into seven subsections describing all MAPPER application scenarios and their requirements,
- Additional diagrams were added to present technical details about composition, relationship and deployment of new MAPPER applications onto production sites dedicated by EGI and PRACE partners,
- A new detailed sequence diagram was added describing all the steps and links among MAPPER middleware services and tools involved in the Irrigation Canals scenario,
- A new appendix section was added to show in detail new features and capabilities supported by the MUSCLE framework.