Deliverable D5.4 Summary

Deliverable D5.4 provides an overview of the NEWTON project platform integration steps with its modules, process which was previously described in Deliverable D5.3. Integration between the following modules is described in turn:

1)   content, LMS and the gamification module
2)   LMS and the multimedia adaptation module
3)   LMS and mulsemedia module
4)   LMS and the personalisation module
5)   LMS and Fab Labs.

The NEWTON project platform has as main goals the development, integration and dissemination of innovative technology enhanced learning (TEL) methods and tools. It intends to create or inter-connect existing state-of the art teaching labs and to build a pan-European learning network platform that supports fast dissemination of learning content to a wide audience in a ubiquitous manner.

One of the main results of Deliverable 5.4 is the integration of all newly developed, existing and open source components, in order to obtain the functional overall solution. This means solving all dependencies, starting from simple function/method calls between different modules and components, to remote procedure calls, messaging or any other form of communication. It will also execute extensive system tests. It will begin with the creation of the testing setup (infrastructure and software installation and configuration) and then running the test cases (black-box testing) according to the WP5 Test Plan document.   Besides functional testing, also non-functional qualities of the software will be tested (performance, capacity, stress, user-perceived performance, configurability, extensibility with new sensors, etc.). The final test assessment will be performed with a regression test of the entire concept.

NEWTON Project Platform module integration will present a summative overview of the NEWTON Project Platform software integration, in compliance with the functional, technical, operational and transitional requirements described in the D 5.1 and D 5.2 and D 5.3.

Deliverable D5.3 – NEWTON Platform Software Modules introduces all the system modules and presents partially their integration. As a sequel of it, D5.4 will present briefly the integrating flow of the external content with the Learning Management System (LMS) and with the gamification module.