



# Deliverable D5.1 Summary

This deliverable is focusing on Requirements specification for the NEWTON project platform. Starting from the description and analysis of LMS platforms State Of The Art divided in “Open Source platform” and “Proprietary platform” and included in Appendix 1 of the present document, in this section we report obtained results relating to what of focal points identified for our analysis these platforms offer/provide.

We remind the reference those focal points:

- Gamification: game elements and mechanisms
- Immersive Experience Support (AR/VR): support for Augmented and/or Virtual Reality content
- User Profiling: general information about platforms’ users (personal data, interests, etc.)
- Customization: possibility to configure user interface and platform management (e.g. course management, user management, etc.)
- Roles: what kind of roles platform supports (e.g. teacher, student, admin,, tutor, etc.)
- Multimedia: supporting and providing multimedial content
- Multimedia Adaption: multimedial content adapted for user profile
- Mulsemedia support: possibility to support and provide multisensorial content
- Mobile support: interactions with platforms through applications on mobile devices
- Assessment: provision of assessment/evaluation mechanisms
- Learning Adaption: learning content adapted for user profile
- Standard support: learning content’s specific standard supported (e.g. SCORM, etc.)
- Experiment/Fab Lab: interactions with integrated or remote Fab Lab
- Experiment/Virtual Lab: interactions with integrated or remote virtual lab
- Special needs: adoption of specific rules/mechanisms/interactions modality for the support of special needs user accessibility (e.g. WCAG, etc.).

The second part of this section is dedicated to the analysis of a set of proprietary LMSs. Meanwhile, the last part of this section presents SIVECO –AeL LMS that will be extended into the NEWTON Project platform.

AeL is learning, emphasizing flexibility and accessibility within the educational process. AeL represents a solid, flexible and scalable instrument enabling teachers to supplement the traditional teaching process, motivating the students and combining various effective teaching methods . AeL will be the starting point of the NEWTON Project platform trough adaptation, new modules and integration.