



the resulting added value from their integration to meet such needs and alleviate these problems.

The priority objective of DynaLearn is to develop an interactive learning environment enabling students to build conceptual models of the scientific subjects individually or in a collaborative environment. This environment will have three key features: it will tailor the use of the conceptual knowledge to the learning experience, it will appeal to students and it will react to each student's individual learning requirements.

Students will handle graphical elements to build the knowledge models and interact with other students and experts (teachers) to exchange knowledge on different subjects. The resulting technology will have the potential of becoming a secondary and higher education standard for knowledge acquisition across a wide range of subjects.

The developed software will significantly improve students' ability to understand and explain scientific system behaviour. Also, avatars will encourage students to use the software, getting them to collaborate and compete with each other and stimulating the social side of learning.

Finally, thanks to semantic technology, students will be able to automatically compare their results against the models created by other students and by teachers. This will provide information on how to improve their models and advice on an individualized learning itinerary.

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DynaLearn website: [www.dynalearn.eu](http://www.dynalearn.eu)

