

INTERGEO: INTEROPERABLE INTERACTIVE GEOMETRY FOR EUROPE

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Interactive Geometry is a way to improve mathematics education with the help of a computer. Using sophisticated software, sketches and figures can be brought to life, comparable to what movies mean to images. Although many examples of class materials that were created using Interactive Geometry Software exist, interactive geometry software is still not used regularly in classrooms. In fact, many teachers do not know about the new possibilities, or they do not have access to the necessary software and geometry resources.

The object of the EU-co-funded project (through the *econtentplus* program) Intergeo is making digital geometry content available for math education throughout Europe. Intergeo will develop a web portal with interactive geometry resources to attack the three main barriers for an EU-wide adoption of the existing material:

- missing search facilities
- lack of interoperability
- missing quality information

The available content will be enriched with curricular meta-data that makes it easy to find the proper examples for a certain teaching situation. The intellectual property rights for the content will be cleared. Teachers should not have to bother whether they are allowed to redistribute material to their students or not. Also, a common file format for interactive geometry software will be provided. Because the project consortium includes leading commercial and open source software suppliers for interactive geometry this format will enable teachers to use the content regardless of which software they use.

Finally, experts and practitioners in mathematics education will rate material for its classroom suitability. This data, as well as additional comments, will be available to users of the web portal. Users can also add their own ratings and comments. Teachers all over Europe will be able to use and re-use quality teaching material. The project partners already identified more than 3000 resources that will serve as an initial seed for the database. User contributions to it are highly encouraged, both for content and quality assessment.

The project involves contact persons from governments and national centres for education, as well as curriculum experts. Software and content providers as well as people working in math education can join the project as associate partners. After the official project duration of three years the infrastructure will be transferred to the public for a sustainable success of the initiative.

CALL FOR PARTICIPATION

Currently, the project is in its initial phase, so we do not have a very user-friendly portal for all the content we already provide. You can visit the initial platform at i2geo.net, and we

strongly encourage that you [register for our newsletter](#). We will keep you up-to-date with the latest improvements and additions.

Intergeo is constantly looking for:

- Users. Just use the available material from <http://i2geo.net>. Subscribe to our [newsletter](#) to stay informed!
- [Associate Partners](#). Work together with the [Consortium](#) and be included in decision processes.
- [Country Representatives](#). For each EU country a Country Representative at school administration level should be appointed, serving as a contact person. Currently there are representatives for France, Germany, Austria, Lithuania, Czech Republic...
- [User Representatives](#). Existing Software User Groups can be represented by User Representatives.

If you would like to become a member of the Intergeo community, please send an e-mail to info@inter2geo.eu or contact the Project Coordinator.

PROJECT CONSORTIUM:

Pädagogische Hochschule Schwäbisch Gmünd (D), Université Montpellier II (F), Deutsches Forschungszentrum für künstliche Intelligenz, DFKI (Saarbrücken,D), Cabrilog S.A.S. (Grenoble, F), Universität Bayreuth (D), Université du Luxembourg (LUX), Universidad de Cantabria (Santander, ES), TU Eindhoven (NL), Maths for More (Barcelona, ES), Jihočeská Univerzita v Českých Budějovicích (CZ)

SOFTWARE:

Cabri Geometry II, Cabri 3D, Cinderella, GeoGebra, Geoplan/Geospace, GEONExT, Mathenpoche, WIRIS