



Organic.Lingua Annual Public Report 2013



www.organic-lingua.eu

Grant Agreement Number: 270999

Table of Contents

1. Project description	3
2. Project objectives.....	4
3. Expected outcomes.....	4
4. Summary of activities.....	5
The Organic.Lingua Vision	5
User requirements	6
Conceptual modelling framework	6
Language resources and services.....	7
The Organic.Edunet Web portal	7
Extension of Content Coverage.....	8
Pilot Operation & Validation	8
5. Dissemination.....	9
Journal papers	9
Conference Papers	10
International Events	11
National Events	13
Liaison meetings.....	14
Participation in other events.....	15
6. The consortium	15

1. Project description

The project "Organic.Lingua: Demonstrating the potential of a multilingual Web portal for Sustainable Agricultural & Environmental Education" began life in March 2011 and it is an initiative of the ICT Policy Support Programme (ICT PSP), that aims to enhance an existing Web portal (www.organic-edunet.eu) with educational content on Organic Agriculture (OA) and Agroecology (AE), introducing automated multi-lingual services that will further support the uptake of the portal from its targeted audiences, facilitate the multilingual features of the portal, and further extend its geographical and linguistic coverage.

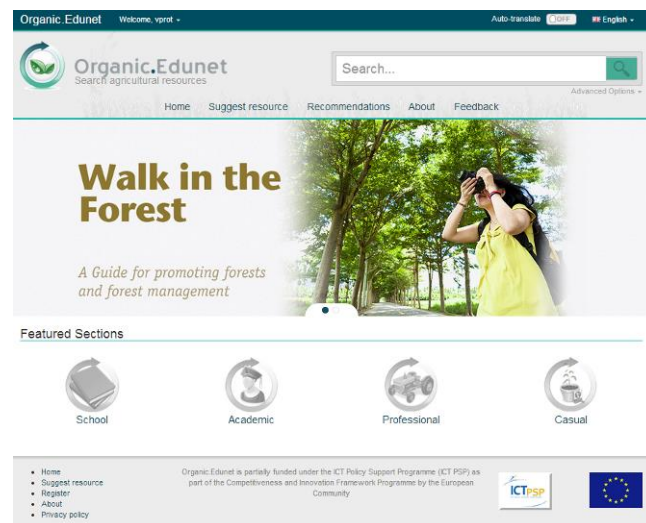


Figure 1: The revised Organic.Edunet Web portal

The Organic.Edunet Web portal bridges together a network of learning repositories with content on OA & AE, providing its users with a significant volume of relevant learning resources. It adopts a federated, standards-based approach that allows the incremental growth of the network. It provides access to almost 19,000 educational resources in 11 languages from 11 institutional repositories and collections of related organizations and it has more than 5,000 registered users. Since January 2010, the

portal has received more than 190,000 visits and 550,000 page views from 158,000 unique visitors from over 200 countries.

Organic.Lingua aims to capitalise on international demand for Organic.Edunet by transforming it into a truly multilingual service. While Organic.Edunet Web portal presently supports seventeen (17) languages, the current process makes translation error-prone and time consuming, and misses opportunities to enhance the quality and efficiency of cross-language functions with available technology. The existing solution relies completely on human effort in translating and does not use existing linguistic resources and tools to help make resources and descriptions available in different languages or to enable cross-lingual search. Instead, the Organic.Edunet portal uses multiple languages supported by different kinds of knowledge organization schemes, namely, keywords (as expressed in metadata), ontology terms and tags provided openly by users. Resource retrieval is restricted as a consequence of the fragmentation of resource descriptions in several languages.

2. Project objectives

The **Organic.Lingua** project focuses on enhancing the approach to linguistic support and coverage of the existing Organic.Edunet infrastructure. More specifically, it aims to achieve the following objectives:

- To advance in the identification of user needs regarding linguistic support in on-line information services, using the existing features of the Organic.Edunet Web portal.
- To identify and explore new or anticipated user interface, functional and technical requirements related to linguistic technologies, analyzing existing services and competing approaches, perceived gaps and weaknesses of existing solutions.
- To devise and validate innovative and effective methods, processes and workflows for linguistic support in Organic.Edunet, over and beyond mere integration of linguistic technology.
- To enhance, extend and re-engineer the existing Organic.Edunet Web portal towards a wider and cost-effective multilingual support, broadening in this way the current audience and impact of the service.
- To deploy large pilots trials that demonstrate a cost-effective approach for delivering language technologies in existing Web portals based on open standards and open source software, that can be easily transferred to other domains.

Overall, Organic.Lingua aims to make the Organic.Edunet Web portal a service that will support agricultural researchers and educators around Europe, as well as explore new business opportunities for the specific service but also for the developers/providers of language technologies.

3. Expected outcomes

The main outcome of the Organic.Lingua project is an automated multi-lingual service that facilitates the usage, exploitation and extension of digital educational content related to Organic Agriculture and Agroecology. Organic.Lingua brings together on a European multilingual level content seekers (educators, students, researchers, general public, school teachers), content providers (NGOs, Businesses), and information evaluators (decision makers, academic institutions, professionals).

More specifically, the project provides the following services and tools:

- Machine translation services for the automatic translation of metadata
- Cross language retrieval technologies that will allow searching of educational resources in the user's native language
- A wiki based tool that will allow the evolution of the ontology and will provide an ontology service that will be accessed by the Organic.Edunet portal and the repository tools used for educational content generation by institutions
- A user centric content evolution approach that will allow users to suggest educational content and to contribute to metadata translation

Since the linguistic limitations of Organic.Edunet are common to most current multilingual Web portals, an important outcome of the Organic.Lingua project will be

a set of guidelines, good practice methods and software tools that can be adopted in other portal cases.

4. Summary of activities

During the first 30 months of the project a number of initial goals were achieved:

- The target audiences and goals of the project have been defined
- A market analysis has shown the status of similar efforts, tools and methodologies used
- The feedback received by various stakeholders and Organic.Edunet users during consultation meetings and online surveys has been collected, analyzed and organized in requirements
- The second version of the machine translation and cross-language information retrieval tools has been developed and tested
- Existing metadata schema and ontology have been revised in order to meet the multilinguality needs of the project and
- A revised version of the Organic.Edunet Web portal (www.organic-edunet.eu) has been designed and deployed, including the integration of multilingual components and the improvement of semantic navigation
- The re-engineered architecture was revised to enable an open architecture that can take advantage of different language services and will constitute a best practice for the integration of language services into a web portal
- The second version of the Organic.Lingua repository tool (Agricultural Learning Repository Tool – AgLR) integrating the machine translation component was developed
- The User Generated Content (UGC) widget allowing users to suggest educational resources and metadata translations was developed
- Evaluation and validation activities have been designed and planned and the first round has been implemented through a number of user trials in various countries all over Europe
- Dissemination channels have been set up and used for the exposure of the project's work to a wider audience

THE ORGANIC.LINGUA VISION

The Organic.Lingua vision is as follows:

“Boost the usage, exploitation and extension of knowledge on Organic Agriculture and Agroecology by using new/ innovative ways to facilitate searching and to minimize the segmentation of knowledge due to linguistic barriers through the introduction of automated multilingual services, supported by a quality-controlled collaborative and interactive approach while developing a sustainable low-cost and re-usable solution to the problem of multilinguality across Europe and the whole globe.”

The project vision was initially developed at the kick off meeting. Since then, and in each project meeting, there is a Vision session based on the Dotmocracy process (<http://dotmocracy.org>), which aims to provide feedback about the factors affecting the project and ensure that the project objectives will always be updated according to the feedback received. The project vision deliverable is a living document in the sense that is periodically updated and revised after the feedback received during interactive sessions in project meetings, stakeholders' meetings and other events. A vision section has been included in all the project deliverables in order to reflect the impact of the deliverable's outcomes on the project vision. The Organic.Lingua project vision is depicted using the Debategraph conceptual map and is available at the project website: <http://www.organic-lingua.eu/en/the-project/vision>.

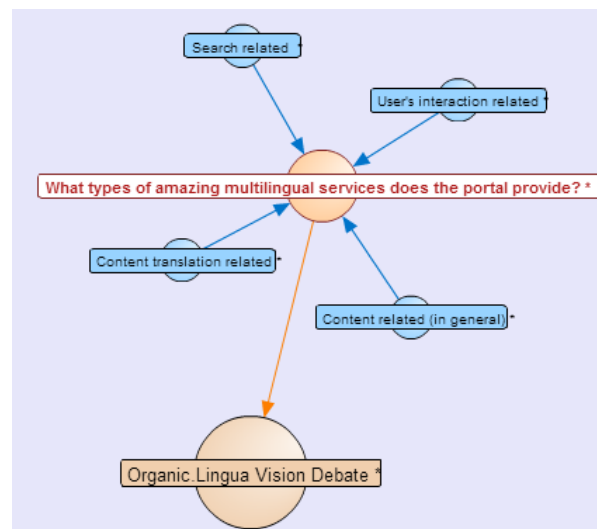


Figure 2: Partial view of the Organic.Lingua vision

USER REQUIREMENTS

During the first 30 months of the project, the requirements of the users were collected using a wide variety of tools and methods, including the analysis of the data collected from the portal, web analytics and online surveys targeted towards existing and potential users of the Organic.Edunet portal, in order to identify their multilingual needs. The results were converted into requirements that provided additional feedback to project partners working in various parts of the project, like the development and adaptation of the automatic translation tools, the interface of the web portal etc.

CONCEPTUAL MODELLING FRAMEWORK

In the Organic.Edunet Web portal thematic ontologies and metadata schemas are being used by content providers to annotate, classify and contribute agricultural educational resources. The Organic.Lingua project worked on the evolution of both the metadata schema and the Organic Agriculture and Agroecology (OA-AE) ontology, based on the previously defined recommendations that mainly focused on enabling multilingual features and services.

The revisions for the metadata schema were defined based on analysis of the Organic.Edunet IEEE LOM AP, the procedure for its translation and a study of how multilinguality is treated in IEEE LOM standard. In addition, there is ongoing work

towards the publication of the AP as linked data, in order to enhance the interoperability with other related data sources. As regards the OA-AE ontology revisions, a group of domain experts from various countries collaborated for this task using MoKi (Modeling Wiki), a collaborative online environment, for mapping existing concepts to the AGROVOC thesaurus developed by the Food and Agriculture Organization of United Nations (FAO), as well as for translating, adding, deprecating or revising concepts based on ontology metrics and usage statistics. The process of translation and addition of new concepts to the ontology, as well as the mapping to the corresponding AGROVOC terms was facilitated by the integration of appropriate software components in MoKi.

LANGUAGE RESOURCES AND SERVICES

The first version of the software components that enable multilingual features in the project's tools (e.g. the Organic.Edunet Web portal, the MoKi tool and the AgLR metadata authoring tool) were designed and developed, taking into consideration existing language technologies as well as existing multilingual vocabularies, dictionaries, thesauri and multilingual corpora resources. These components were revised and enhanced, after a period of testing, training and evaluation. Additional automatic translation tools were adopted and adapted in order to provide the translations in languages not covered by the Organic.Lingua software components.

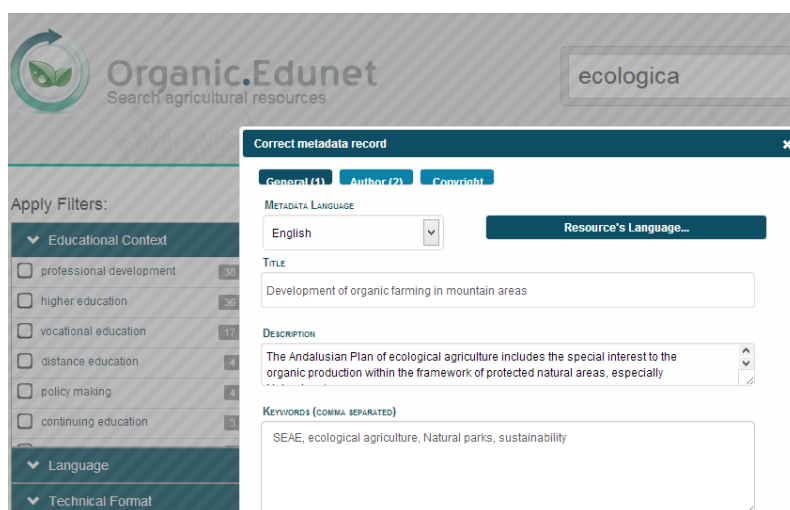


Figure 3: Improve existing translations

THE ORGANIC.EDUNET WEB PORTAL

The re-engineered version of the Organic.Edunet Web portal, including the multilingual software components was deployed and used for the user trials/open days of the project. It includes revisions in the user interface, based on the results of usability testing sessions and the requirements of the stakeholders' meetings. In addition, the revised version of the portal integrates a number of automatic translation tools including the machine translation component and the cross-language information retrieval while an improved semantic navigation mechanism is currently being developed. The user interface is now fully multilingual.



Figure 4: Fully multilingual experience for portal users

EXTENSION OF CONTENT COVERAGE

One of the objectives of the project is to enrich the content available through the Organic.Edunet Web portal with the use of the multilingual tools and components developed by the project. The first step towards this direction is the integration of metadata by a number of new content providers, such as INRA and CUK, which significantly contribute to the multilinguality scope of the project. In addition, the process of integrating metadata from external data sources in various languages is going, further supporting the multilinguality aspects of Organic.Lingua. Last but not least, additional content is provided through the use of the User Generated Content (UGC) widget, allowing registered users of the portal to contribute valuable resources to the portal. In this direction, the workflow for the management, evaluation and validation of the UGC content was designed, developed and revised, in order to ensure the high quality of the users' contribution.



Figure 5: Discover learning resources in native language

PILOT OPERATION & VALIDATION

The evaluation framework for the Organic.Lingua products and services was developed, in order to ensure their quality. For this purpose, an evaluation method for each one of the project's products, including the multilingual components, the revised Organic.Edunet Web portal, the collaborative tool for the evolution of the ontology (MoKi, <https://moki.fbk.eu>), the agricultural learning repository tool (AgLR, <http://aglr.agroknow.gr>) and the metadata records was developed. This was further supported by the development of additional supporting material for each kind of trial and evaluation testing.

Experimental testing of multilingual components developed by the technical partners of the Organic.Lingua consortium was conducted, testing the use of the CLIR and MT multilingual components. During the last stages of the development of the new version of the Organic.Edunet portal, different types of technical and usability tests have been programmed, executed and documented. A number of usability testing sessions involving real users and/or experts have taken place. Controlled pilots trials involving end users (that is, educators) were deployed in six (6) countries (i.e. Estonia, Spain, UK, France, Latvia and Turkey).

5. Dissemination

Based on the dissemination plan previously developed, existing communication channels set for Organic.Edunet are re-used to ensure that the community already built around the portal is engaged with the project. Various stakeholders, including researchers, teachers, academics, students and practitioners in OA & AE, as well as policy makers were engaged in a number of project-related events. The project website, available at www.organic-lingua.eu, provides an overview of the project's news, updates, related events and the project's outcomes, such as publicly available deliverables, presentations, publications and dissemination material.

For the successful dissemination of the project a series of activities has already taken place in alignment with the dissemination plan.

	Type of Activity	No of activities
1	Journal Papers	4
2	Conference papers	9
3	International Events	11
4	National events	12
5	Liaison Meetings	8
6	Planned participation in other events	5

JOURNAL PAPERS

- Leonardo Lezcano, Salvador Sánchez-Alonso, Antonio J. Roa-Valverde, (2013) "A survey on the exchange of linguistic resources: Publishing linguistic linked open data on the Web", Program: electronic library and information systems, Vol. 47 Iss: 3, pp.263 – 281
- Protonotarios, V., Stoitsis, G., Kastrantas, K. and Sanchez-Alonso S. (2013) 'Using Multilingual Analytics to Explore the Usage of a Learning Portal in Developing Countries'. The Journal of Asynchronous Learning Networks (JALN) Vo. 17, Issue 2, July 2013
- Rajabi, E., Sanchez-Alonso, S. and Sicilia, M-A. (2013) "Analyzing Broken Links on the Web of Data: an Experiment with DBpedia", submitted by UAH on July 7th 2013 to the Journal of the American Society for Information Science and Technology (JASIST) and accepted for publication. The paper reports on an

experiment to examine the causes for broken links over the DBpedia dataset, as a central hub of the Linked Open Data, and proposes some treatments for solving this problem.

- Stoitsis G., Manouselis N., Sanchez-Alonso S. (2012). Data Set Requirements for Multilingual Learning Analytics. International Journal of Technology Enhanced Learning (IJTEL), Vol. 4, No. 1/2.
- Dietze S., Sanchez-Alonso S., Ebner H., Qing Yu H., Marenzi I., Giordano D., Pereira Nunes, B. (2013) "In terlinking educational Resources and the Web of Data – a survey of challenges and approaches". International Journal "Program: Electronic library and information systems", accepted for publication in Emerald Program: Electronic Library and Information Systems, Volume 47, Issue 1 (2013).

Pending papers:

- "Removing linguistic barriers to accessing educational resources in agroecology" paper has been submitted by the INRA team. If accepted, the paper should be published by Taylor & Francis in April 2013.
- "A survey on the exchange of linguistic resources: Publishing linguistic linked open data on the Web" article submitted by the UAH team has been accepted for publication in the Program journal (indexed in the JCR by Thompson Reuters).

CONFERENCE PAPERS

- Stoitsis, G., Protonotarios, V., Sanchez-Alonso, S., Martin Moncunill, D. and Kastrantas, K. (2013) 'Using agricultural learning portals in developing countries: The case of Organic.Edunet'. Proceedings of the EFITA 2013 Conference, June 23-27, 2013, Turin, Italy
- Cebeci, Z. & Say, M. S. (2013) 'Organik Tarım Ve Agro-ekoloji Ontolojisi Üzerine Bir Çalışma'. In M. Akgül, E. Derman, M. U. Çağlayan, Zeynel. (Eds.), Proceedings of Akademik Bilişim Konferansı 2013, Antalya, TR, 23 Ocak- 25 Jan 2013 Akdeniz Üniversitesi.
- D. Martin-Moncunill, S. Sánchez Alonso, P. A. Gaona García, N. Marianos: 'Applying visualization techniques to develop interfaces for educational repositories', Proceedings of LINQ 2013, Rome, Italy, 17 May 2013
- Di Francescomarino C., Dragoni M., Ghidini C., Sánchez-Alonso S., Clemente J. (2013). 'Guiding the evolution of a multilingual ontology in a concrete setting'. Presented at the in-use and industrial track of ESWC 2013, Montpellier, France, 26-30 May 2013
- Ruston S., Lacigova O., and Fuller K. "Demonstrating the Potential of multilingual Web portal for Sustainable Agricultural and Environmental Education". Proceedings of the 16th Annual Conference of the European

Association for Machine Translation (EAMT 2012), May 28-30, 2012, Trento, Italy.

- Segura, A., Martinez, C., Vidal-Castro, C. and Sanchez-Alonso S. (2012) "Preliminary Ideas on Concept to Query Closeness Metrics". Proceedings of the Seventh International Conference on Internet and Web Applications and Services (ICIW 2012), pp. 73-79. 27/5 – 1/6/2012 - Stuttgart, Germany.
- Koutoumanos, A., Stoitsis, G. and Kastrantas, K. "Breaking Down Language Barriers: The Case for the Organic.Edunet Portal". SPDECE-2012. Multidisciplinary symposium on the design and evaluation of digital content for education, June 13-15, 2012, Alicante, Spain.
- Dragoni, M. And Ghidini, Ch. "Ontology Evolution with Semantic Wikis". Proceedings of the CAiSE 2012 International Workshops, pp.105-116, June 25-26, 2012, Gdańsk, Poland.
- Stoitsis, G., Kyrgiazos, G., Chinis, G., Megalou, E. and Sanchez-Alonso, S. (2012) Processing Rating Datasets for Recommender Systems' Research: Preliminary Experience from two Case Studies. Workshop of the Recommender Systems Challenge ([RecSysChallenge 2012](#)) of the Sixth ACM Conference on Recommender Systems (RecSys 2012). 13/9/2012, Dublin, Ireland.
- Koukourikos, A., Stoitsis, G. and Karampiperis, P. (2012) Sentiment Analysis: A tool for Rating Attribution to Content in Recommender Systems. 2nd Workshop on Recommender Systems for Technology Enhanced Learning (RecSysTEL 2012). Saarbrücken, Germany, 18 – 19/9/2012.
- Koutoumanos, A., and Protonotarios, V. (2012) Multilingual Educational Repositories: Breaking Down the Language Barrier. Presentation at the [16th Panhellenic Conference on Informatics with International Participation](#) (PCI 2012). 5-7/10/2012, University of Piraeus, Greece.
- Dragoni, M. And Ghidini, Ch. "Evaluating the Impact of Ontology Evolution Patterns on the Effectiveness of Resources Retrieval". Presented at the [International Semantic Web Conference 2012](#), November 12, 2012, Boston, US.
- Bosca, A. Dini, L., Kouylekov, M., Trevisan, M. "Linguagrid: a network of Linguistic and Semantic Services for the Italian Language". Presentation at the [Language Resources and Evaluation Conference \(LREC\)](#). 21-27 May 2012, Istanbul, Turkey.

INTERNATIONAL EVENTS

- LACRO-LAK 2013 Conference. The project was disseminated by Agro-Know at the Workshop on Learning Objects Analytics for Collections, Repositories and Federations that was jointly organised with the International Learning Analytics & Knowledge Conference 2013. The event took place in Leuven, between the 8th and 12th of April 2013. LACRO 2013 was organized on the 9th of April 2013.

- The Universidad de Alcalá (UAH) team attended the annual LINQ (Learning Innovations and Quality) Conference 2013 which this year discussed “The Future of Digital Resources”. UAH representatives gave a presentation on the on-going Organic.Lingua project, and took advantage of the opportunity for dissemination among an audience of educators, learners and policy makers, discussing both the Organic.Edunet web portal and the wider project more generally. The details of the conference can be found [here](#), and the event took place over two days on the 16th and 17th May 2013 in Rome, Italy. UAH and AK also presented a paper entitled “Applying visualization techniques to develop interfaces for educational repositories” at the LINQ Conference 2013 in Rome, Italy on 17th May 2013. The paper was presented to an audience of educators, learners, policy makers and researchers in education, and was extremely well-received by the audience attending the event. The presentation is also available for download [here](#).
- FBK and UAH presented a paper "Guiding the evolution of a multilingual ontology in a concrete setting" at the ESWC 2013 - European Semantic Web Symposium which discusses semantics and big data. The conference was held in Montpellier, France over 26th to 30th May 2013, and the paper, authored by Chiara Di Francescomarino, Mauro Dragoni, Chiara Ghidini, Salvador Sánchez Alonso and Julia Clemente was also nominated for the best paper award in the ‘In-Use’ track at the conference. Further details of the ESWC 2013 conference can be viewed [here](#). FBK also took advantage of the ESWC 2013 to present a demo entitled "Multilingual MoKi: how to manage multilingual ontologies in a Wiki", this time making a presentation with Celi. The presentation discussed the second prototype of the Organic.Lingua MoKi Tool in front of an audience of semantic web researchers.
- OER growers spring/summer season 2013 – The online training session: agriMoodle course management platform & Learning resources portals - Organic.Edunet took place on the 17th of June 2013
- UAH and AK presented a paper entitled titled "Using agricultural learning portals in developing countries: The case of Organic.Edunet" at the EFITA Conference 2013, which was accepted and published in the proceedings of the Conference. The paper was presented to an audience of agricultural researchers, practitioners, policy makers, professionals, educators, trainers, extension officers in Turin, Italy, June 23-27, 2013 and was particularly well received among delegates. A short discussion about the Organic.Edunet web portal also took place after the presentation, to support this dissemination activity. Further details about the conference can be viewed [here](#).
- The annual Green Ideas workshop and conference was held in Crete, Greece, from the 28th to the 30th of June 2013. The event was hosted by The Natural History Museum of Crete and organised by Agro-Know Technologies.

Organic.Lingua and agINFRA were the main supporters of the event, together with Natural Europe, Open Discovery Space and Herbal Mednet projects.

- The Blue Hackathon 2013 took place from the 1st to the 2nd of July in Heraklion Crete and was hosted by the Hellenic Centre for Marine Research (HCMR). Organic.Lingua was one of the main supporters of the event, together with SemaGrow, Vibrant and others.
- FBK co-sponsored the 16th Conference of the European Association for Machine Translation, which was held at the FBK's headquarters - the Center for Scientific and Technological Research. 28-30/5/2012, Trento, Italy.
- Presentation of the Organic.Lingua project at the Offentliga Rummet – an annual Swedish ICT conference that examines how government authorities, county councils, regions and local authorities can improve accessibility and broaden citizen participation in the public sector, both with the help of new technology and by starting to think along new lines. 29-31/5/2012).
- Presentation of Organic.Lingua at KREAM 2012 workshop – “Knowledge representation and applied models and metadata in computational science workshop” – in the context of the [International Conference on Computational Science \(ICCS 2012\)](#). 4/6/2012, Omaha, Nebraska (USA).
- Presentation of the Organic.Lingua project at the multidisciplinary symposium on the design and evaluation of digital content for education [SPDECE 2012](#). 13-15/6/2012, Alicante, Spain.
- Presentation of the Organic.Lingua project at “The Future Internet Forum” meeting. 26-27/9/2012
- Presentation of the Organic.Lingua project at the [Workshop on Agricultural Education, Methods, Practices and Technologies](#). 25/10/2012, Pollenzo, Bra, Italy.
- Presentation of the Organic.Lingua project at the [ML4HMT 2012 – The second Workshop on Applying Machine Learning Techniques to Optimise the Division of Labour in Hybrid MT](#). December 2012, Mumbai, India.
- Presentation of the Organic.Lingua products and services at the “[Green Ideas: Green Education for Green Innovation](#)” event. 22-24/10/2012, Polenzo, Bra, Italy.

NATIONAL EVENTS

- Focused workshops for Estonian teachers at Anstla, Märjamaa, Puurmani, Paikuse, Tarvastu, Narva, Lihula and Tallinn in Estonia during April 2012.
- Focused workshops for Estonian teachers and students at Märjamaa, Puurmani, Paikuse, Tarvastu, Narva, Lihula and Tallinn in Estonia between March and May 2012.
- Dissemination of the Organic.Lingua products and services through the “Big Quiz”, launched in May 2012 (on <http://miksike.ee>, <http://miksike.lv> and

<http://miksike.net>) targeting Estonian, Latvian and Russian users in Latvia and Estonia.

- 10 seminars and meetings for teachers biology and science teachers, school directors and students in Estonia and Latvia during August 2012-January 2013.
- Organisation of a national workshop for INRA researchers in June 2012, promoting the Organic.Lingua online survey.
- Dissemination of the Organic.Lingua at the [“Women in African Agriculture: farmers, mothers, innovators and educators”](#) paper launch briefing organized by Imperial College at Portcullis House, Westminster on the 17th September 2012.
- Presentation of the Organic.Lingua related paper “Multilingual Educational Repositories: Breaking Down the Language Barrier” at the 16th Panhellenic Conference on Informatics with International Participation, at Piraeus, Greece on 5-7 October 2012.
- Presentation of the Organic.Lingua related paper “An OAI-PMH-based Interoperability Implementation for Learning Repositories” (authors: Zeynel Cebeci, Yoldas Erdogan) at the "Bilişim 2012: 29th National Computing Congress", in Ankara, Turkey, on November 21-23.
- Organisation of the 6th Metadata and Semantics Research Conference (MTSR: <http://mtsr2012.uca.es/>), in Cadiz, Spain on 28-30 of November and presentation of the Organic.Lingua project.
- Presentation of the Organic.Lingua related paper "Organik Tarım ve Agro-Ekoloji Ontolojisi Üzerine Bir Çalışma" (authors: Zeynel Cebeci and Sait M Say) at the "AB 2013-National Academic Computing Conference", in Antalya, Turkey, on January 23-25.

LIAISON MEETINGS

- Content meeting at FAO, Rome with the FAO potential content providers and the Statistical Machine Translation research team of FAO. 27/6/2012, Rome, Italy.
- The fourth and final workshop of the [MultilingualWeb project](#). 15-16/3/2012, Luxembourg, Luxembourg.
- The [Tel-Map European Schools meeting](#) with participants from relevant projects including VISIR, TELMAP, and ODS, and organisations such as JISC, STELLAR and EUN. 10/5/2012, Bologna, Italy.
- Liaison meeting with the University of Leuven (KULeuven), the Royal Museum for Central Africa ([RMCA](#)) and the Consortium of European Taxonomic Facilities ([CETAF](#)). 9-11/7/2012, Leuven, Belgium
- Liaison meeting with the University of Leuven (KULeuven), the Royal Museum for Central Africa ([RMCA](#)) and the Consortium of European Taxonomic Facilities ([CETAF](#)). 10/10/2012, Leuven, Belgium.

- Consultation meeting with the partners and stakeholders of the [Herbal.Mednet project](#) in terms of multilinguality of the Organic.Lingua CMS platform (agriMoodle) and its functionalities. 21-23/11/2012, Alcalá, Spain.
- The Organic.Lingua project was disseminated to project and content managers, teachers, technology experts, curriculum and content developers at the 9th [EdReNe seminar: Digitalization of the curriculum](#), 10-11/12/2012, Hague, Netherlands.
- [Athens Green Hackathon 2012](#) with developers, representatives from universities, research institutes and technology organizations. 14-16/12/2012, Athens, Greece.
- Meeting between AK and the Food and Agriculture Organization of the United Nations with potential content providers and people from the department that is involved with Statistical Machine Translation research / Language Support Group. July 2012, Rome, Italy.

PARTICIPATION IN OTHER EVENTS

- Presentation of the Organic.Edunet Web Portal and the Organic.Lingua project in the [Professionalization Fair](#) of the ISLE Erasmus Network. 8-9/11/2011, Lisbon, Portugal.
- Participation in the "[Ecology Izmir 2013](#)" event that will take place in Izmir, Turkey in May 16-19.
- Participation in the "[International Conference on Computational Science](#)" - [ICCS2013](#) – which will take place in Barcelona, Spain in June 5-7
- Participation in the International Conference "[Agriculture for Life, Life for Agriculture](#)", which will take place in Bucharest, Romania in June 5-8
- Participation in the [Future Farm Europe 2013](#) event, which will take place in London, UK in June 26-27
- Participation in the [International Conference on Sustainable Agriculture, Environment and Forestry \(ICSAEF\)](#) which will take place in July 8-9 in Budapest, Hungary

6. The consortium



miksike.ee
Hes. enesetunne. Võimeus. Kõrvaldus.

