

Output factsheet: Training

Version 1

Project index number and acronym	CE32 - AMIIGA
Lead partner	Central Mining Institute (Główny Instytut Górnictwa)
Output number and title	O.T1.3 - Trans-regio. & cross-sectoral capacity building by trainings & internships for collective tools development
Responsible partner (PP name and number)	PP5 - Technical University of Liberec (TUL)
Project website	http://www.interreg-central.eu/Content.Node/AMIIGA.html
Delivery date	08.2019

Summary description of the implemented training measure(s), explaining the specific goal(s) and target groups

Within the AMIIGA project, one of the PP5 responsibilities was to organize a training workshop on molecular biology tools (BMT). This workshop objective was to show analysis procedures in analytical chemistry and molecular-genetic laboratories of Technical University of Liberec (TUL, PP5) and to describe whole sampling procedure on a contaminated locality in Novy Bydzov, where initial meeting in the town hall brought information about difficulties with pollution treatment and municipal history. The training was held in two days 27-28th April 2017 in the Institute of Nanomaterials, Advanced Technologies and Innovation, Technical University of Liberec (Bendlova street 1409/7, Liberec 461 17, Czech Republic). First day the training lasted from 8.30 in the morning until about 18.00 in the afternoon, second day from 9.15 until 17.00. About 22 persons attended the training.

NUTS region(s) where training(s) have been conducted (relevant NUTS level)

This training has been conducted in NUTS 3 - region CZ051 - city Liberec.

Expected impact and benefits of the trainings for the concerned territories and target groups

Goal of this workshop was to show to all project partners the whole procedure of BMT analysis. All methods were explained to detail and precise workflow was showed in TUL laboratories. This workshop was also focused on a real sampling procedure in a real polluted locality and the following steps connected with sample transport and preanalytical treatment. As a result, all participants were able to understand whole BMT procedure. Target groups for the training workshop included project partners and external interested employees from Technical University of Liberec.

Sustainability of the training(s) and developed training material(s) and their transferability to other territories and stakeholders

BMT is an innovative method which is progressive and is being used for many years. This training offered to the participants to become familiar with the molecular-genetic analysis and to understand bioremediation processes. BMT method could be applied to almost all territories/localities with a groundwater or soil pollution suitable for bioremediation. Materials include presentations and the deliverable report which are also available online.

Lessons learned from the development and implementation of training measures and added value of transnational cooperation

Workshop was organized chronologically to clarify all steps. First of all, a field specialist explained the purpose of molecular-genetic analyses for practice and how he works with resulting BMT and physico-chemical data. Then participants were able to witness and discuss sampling procedure, the sample transport, storage and sample processing in laboratories (e.g. filtration, DNA extraction). Finally, all types of real-time PCR analysis were explained using specific case studies to show possibilities how to apply this method. Discussion of all partners revealed importance of such workshops to clarify practical impact of BMT on reasonable planning of bioremediation strategies.

References to relevant deliverables and web-links If applicable, pictures or images to be provided as annex

D.T1.5.2 1 training & 1 internship among all PPs for innovative BMTs tools & guideline development & implement
D.T1.3.1 Technical protocol - draft