

## STSM Experience

### **Studies on ecotoxicological tests for incineration bottom ash classification**

Beatriz Sales Bandarra, University of Coimbra

I received an STSM grant to visit ECT Oekotoxikologie GmbH (Germany) which has extensive experience in ecotoxicological research and has contributed to the development, standardization, and validation of ecotoxicological test methods. My supervisor was Dr. Jörg Römbke who is specialized in terrestrial ecotoxicology, soil ecology and the biodiversity of soil organisms, and is very involved in discussions at the European Union level. This STSM was extremely important to my ongoing PhD studies related to the hazard property HP 14 of wastes and which work plan is completely aligned with the work carried out in Germany. Indeed, the work has given me preliminary results that will be included in the PhD thesis and in a scientific article in a peer-reviewed international journal with the collaboration of the host institution. Also, the different biotests learned and performed in ECT Oekotoxikologie GmbH will be considered in my PhD studies. Thus, the STSM indeed gave me new research insights and professional network extensions that will be useful in future projects during my PhD. In fact, a poster with a project proposal in this context was presented in the final meeting of MINEA. The objective of this project is to develop simple, low cost and low time-consuming methodologies, to properly classify incineration bottom ash (IBA) from municipal solid waste regarding ecotoxicity (HP 14). Depending on the result of this assessment, it is intended to promote the practical use of IBA in order to avoid landfill. Posteriorly, it is aimed that these methodologies can be applied to other types of waste. A collaboration with other Member States is aimed in order to give recommendations as appropriate and applicable as possible.

Action number:	CA15115 - Mining the European Anthroposphere (MINEA)
STSM start and end date:	03/06/2019 to 02/07/2019
STMS Grantee E-Mail:	<a href="mailto:bsbandarra@eq.uc.pt">bsbandarra@eq.uc.pt</a>