

DCEA – Department of Environmental Sciences and Engineering

A partner in waste management research



IMAR-CMA Marine and Environmental Research Center

WASTE@NOVA

Lab. 244-A Waste@Nova Group
<http://sites.fct.unl.pt/wasteatnova/>



Waste@Nova

Professors and researchers

Graça Martinho
Ana Silveira
Artur Cabeças
Maria José Correia
Ana Pires
Joana Santos
Ana Margarida Gomes
Mário Ramos
Pedro Henrique Santos

Objectives

We are a group of researchers from FCT/UNL studying solid waste from technical, environmental, economic and social perspectives. Waste management problems are analyzed from a system approach, in theoretical and practical components, where waste are seen as material and energetic resources for society. Results and work dissemination aims to develop high quality science regarding applicability.

Currently the research group intends to continue innovating in waste management area, in waste treatment methods and finding new tools to use waste as a raw material. The sustainable management of resources/waste systems is our main goal of research.

Methodology

The work has been developed through several funded projects and with governmental and private entities partnerships. Developed work has been presented in national and international conferences as well as in international journals. It's also confirmed by public recognition with awards from several entities.

Our team execute the following works: physical, chemical and microbiological characterization of wastes; leaching tests; biodegradability assays; composting assays; life cycle analysis; material flow analysis; system dynamics; waste management systems analysis and optimization; multicriteria analysis; social studies; NIMBY; recycling behaviour; opinion studies; environmental education; waste collection routes analysis and optimization and waste management plans.

Expected Results

Recent national projects

- PoVeRE: green policy for packaging waste calculating different fee levels ⁽¹⁾;
- Construction and demolition waste sustainable management ⁽²⁾;
- Be Nature: development of biodegradable leather and footwear ⁽³⁾;
- Sampling methodology for used lubricating oils ⁽⁴⁾.

Recent international Projects

- MARLISCO: marine litter in European seas (social awareness and co-responsibility) ⁽⁵⁾;
- Sustainable waste management plans in developing countries (Angola) ⁽⁶⁾.

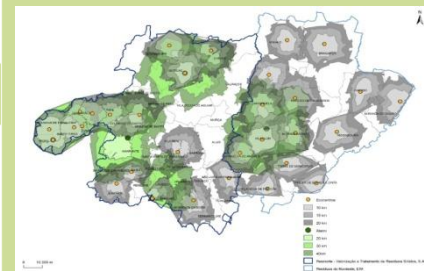
Funding:

⁽¹⁾ Sociedade Ponto Verde; ⁽²⁾ Comissão de Coordenação e Desenvolvimento Regional do Norte; ⁽³⁾ Co-promotion project 2010/11473 COMPETE/QREN/UE-FEDR; ⁽⁴⁾ Sogilub; ⁽⁵⁾ FP7 by European Commission; ⁽⁶⁾ African Development Bank and Angola Government

mgm@fct.unl.pt



PoVeRe (packaging waste green policy - conference)



CCDD-N (construction and demolition waste plan)



Be Nature (biodegradable leather in composting conditions)



Angola (sustainable waste management)



MARLISCO (marine litter)