



#### **Contact Details :**

##### **University of Chouaib Doukkali**

Department of Biology  
Laboratory of Applied Microbiology and Biotechnology  
Avenue Mohamed Ben Larbi Alaoui, 2  
Prof. Omar Assobhei  
El Jadida, Morocco  
Tel: + 212 23343003  
Fax: + 212 23342187  
[www.ucd.ac.ma/morocomp](http://www.ucd.ac.ma/morocomp)

##### **National Technical University of Athens**

Unit of Environmental Science and Technology  
School of Chemical Engineering  
Prof. Maria Loizidou  
Tel: +30 210 7723106  
Fax: +30 210 7723285  
[www.uest.gr/Morocomp](http://www.uest.gr/Morocomp)

##### **Office Régional de Mise en Valeur Agricole de Doukkala**

Avenue Mohammed VI  
El Jadida, Morocco  
Dr Mohamed Rafrafi  
Tel: + 212 23 34 22 70  
Fax: + 212 23 34 22 72



composting  
*MOROCOMP*

# MOROCOMP

**Design and Application of an Innovative Composting Unit  
for the Effective Treatment of Sludge and other  
Biodegradable Organic Waste in Morocco**



**LIFE05 TCY/MA/0001410**



UNIVERSITY OF  
CHOUAIB  
DOUKKALI



FACULTY  
OF  
SCIENCES



NATIONAL  
TECHNICAL  
UNIVERSITY  
OF ATHENS



REGIONAL  
OFFICE OF  
AGRICULTURAL  
DEVELOPMENT

## **PROJECT OBJECTIVES**

- Develop an innovative in-vessel pilot composting system for the treatment of sludge generated by Urban Wastewater Treatment Plants (UWWTP) and other biodegradable organic waste (BOW) in Morocco
- Enable operators and National Authorities in Morocco to treat, control and use the sludge and other BOW effectively and in consistence with the European Environmental Policy
- Protect water-bodies and soil from untreated and uncontrolled sludge disposal in Morocco
- Use the produced compost as soil improver and prevent the use of chemical fertilizers and subsequently, protect arable land from degradation



## **MAIN PROJECT ACTIVITIES**

- Design and construction of in-vessel composting system, based on the Moroccan needs
- Optimization of the operation of the composting system
- Evaluation of the compost products as soil improvers
- Development of guidelines covering on sludge composting
- Examination of alternative uses of the end products
- Assessment of compost market and jobs opportunities in Morocco
- Training of staff
- Public information and participation



## **EXPECTED PROJECT OUTPUT**

- Development of know-how for the efficient management of sludge in Morocco
- Development of instruments for the competent authorities in order to design and apply appropriate schemes for the management of sludge and other BOW
- Reduction of the use of chemical fertilizers
- Well-trained staff
- Adoption of the priorities of the EU concerning the recovery and reuse of materials
- Convergence towards the existing EU legislative framework and environmental policy concerning the management of sludge and other BOW
- Solving out the problem of the disposal of sludge and other BOW
- Promotion of sustainable agricultural practices



## **PROJECT PROGRESS**

The existing situation and related legislation concerning sludge and other BOW management has been assessed. Currently, the design and construction of the composting system is taking place.