

## **IVA-WASTE (Integrated VALORIZATION of liquid and solid WASTE)**

**Type** : exploratory research project funded by Agropolis Foundation (France)

**Période d'activité** : 2020 - 2021

### **Partenaires :**

#### *France:*

- UMR MISTEA (Mathematics, Informatics & STatistics for Environmental and Agronomic sciences), INRAE, Univ. Montpellier. Contact: Alain Rapaport - [alain.rapaport@inrae.fr](mailto:alain.rapaport@inrae.fr)
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#### *Tunisia*

- CERTE (Centre de Recherches et des Technologies des Eaux), Borj Cédria, Tunis. Contact : Mohamed Kefi - [moh\\_kefi@yahoo.fr](mailto:moh_kefi@yahoo.fr)

**Informations/Site web** : to come in 2021

**Résumé** : The overall aim of our initiative is to explore and create the conditions for co-designing scenarios to select and valorize nutrients from various waste flows, within a circular economy. The originality is to integrate both liquid and solid waste, considered as a continuous range of humid to dry waste flows, in a common perspective of valorization of nutrients for agriculture. The objective of this exploratory proposal is to assess the technical potential and synergy of waste flows in a Tunisian nutrient sink of moderate complexity surrounded by a fairly mono-cultural agricultural hinterland: the Governorate of Sousse and its olive growing region. The work will consist of the analysis of existing data and knowledge to be collected for the elaboration of innovative scenarios. The project will allow stakeholders to conclude whether exploring a paradigm change in nutrient containing waste flow management is feasible and desirable.

### **Structure du projet/WPs :**

- WP1. ACQUISITION OF A COMMON CULTURE
- WP2. COLLECTING DATA AND INFORMATION ON SITE
- WP3. ELABORATING TECHNICALLY PLAUSIBLE SCENARIOS
- WP4. INVESTIGATION OF MODELLING APPROACHES
- WP5. FORUM AND DISSEMINATION
- WP6. CONCLUSION AND PESPCTIVES FOR FUTURE ANSWERS TO CFP

**Axe(s)/Domaine(s) d'applications(s) du réseau/TRL** : circular economy, scenarii assessment, mathematical modelling and optimization / Projet à bas TRL