Demonstration of the suitability of dredged remediated sediments for safe and sustainable horticulture production

LIFE14 ENV/IT/000113

www.lifehortised.com

The HORTISED project aims at demonstrate the suitability of dredged remediated sediments as an alternative for growing media preparation in horticulture.

ACTION AND MEANS INVOLVED

- Analysis and Characterization of contaminated sediments
- Sediments treatment (landfarming)
- Demonstration of the use of decontaminated sediments as a substrate for fruit plant nursing (pomegranate cuttings)
- Demonstration of the use of decontaminated sediments as a substrate for fruit plant cultivation and safe fruit production (pomegranate and strawberry)
- Technical and economic impact assessment
- Spread the results with papers on scientific and popular press
- Drafting of guidelines for the use of decontaminated sediments for substrates preparation

EXPECTED RESULTS

- Evaluation of treated sediment suitability for pomegranate propagation by cuttings and for strawberry and pomegranate cultivation in containers for fruit production
- Morphological, biochemical and sensorial characterisation of two strawberry and a pomegranate cultivars grown on substrates containing treated sediments
- Assessment of the presence of heavy metals and other pollutants in strawberries and pomegranates
- Growth, development and rooting performance of pomegranate cuttings
- Improvement of the knowledge on the treated sediments and their influence on plant growth and fruit quality and safety
- Potential reduction of CO_2 emission due to the replacement of peat with treated sediments
- Waste recycling and reduction of peat use

Project COORDINATOR
Prof. Edgardo Giordani - E-mail: edgardo.giordani@unifi.it
DISPAA – University of Florence

Partnership