Co-financed by Greece and the European Union

"CASCADE HYDROPONICS"

An integrated approach to increase productivity, resource use efficiency and sustainability of protected horticulture

CasH

Deliverable [3.3.2]: *[Fertigation technique prototype for tertiary crops]*

Version 1.0: First version delivered on 28-07-2019

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Deliverable Details

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1. Summary

In the current deliverable [**D10_(3.3.2)],** entitled "Fertigation technique prototypes - Tertiary crop", which is part of **WP3** - cultivation practices, a three-level multi-culture cultivation system that is installed at the greenhouses of the University of Thessaly (located near Volos, Velestino) is presented. The design described in this deliverable is a consecutive succession of the two-level cultivation already presented in **D7_(3.2.2)** - Fertigation technique prototype for Secondary crops. The three-level system layout is linked with the central hydroponic growing system, with details about it being presented and described – concerning innovative greenhouse technical equipment details – in the deliverables **D6_(3.2.1)** - Equipment-Prototypes-Secondary crops and **D9_(3.3.1)** - Equipment-Prototypes for Tertiary crops. The CasH system has been structured to grow various types of primary crops, such as tomato or other ornamental plants, secondary crops (lettuce, spinach, parsley) and more salt tolerant plants, such as *Crithmum maritimum* as the tertiary crop. It is possible to promote a cascade sequential use and reuse of the drainages, in order to grow increasingly more salt tolerant crops, following more environmental-friendly strategies.

The deliverable is available upon request

Please send e-mail to the project coordinator: nkatsoul@uth.gr