AUA TECH TRANSFER prOjecTT

AUA
Agricultural University of Athens
Project of Technology Transfer

Connecting
Scientific research
with Business ideas

PROJECT TITLE

A decision-support system for nutrient solution computation and adjustment in commercial hydroponics

CLIENT

Companies distributing hydroponic technologies
Greenhouse growers

OUR TEAM

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Soilless culture is expanding in protected cultivation not only in modern, fully equipped glasshouses, but also in simple greenhouse constructions.

An appreciable body of research results concerning nutrient requirements of plants grown in commercial hydroponic systems is available.

However, a coherent link of this knowledge in form of a mathematical model operating through a decision-support system is not available in the

SOLUTION

Development of a comprehensive computer program to automatically compute the composition of nutrient solutions specifically for each crop species, growing stage, season of the year and several other specific needs.

Existing knowledge on hydroponics has to be transformed into a coherent mathematical concept that can serve as a basis to develop a user-friendly computer application operating through mobile phones and tablets to support greenhouse growers and hydroponic amateurs.

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