ENDOplant, a new trunk injection technique to control exotic, defoliator and allergic species in our green areas

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Abstract
After more than ten years of experience in vascular treatments, ENDOterapia Vegetal has developed and validated a new tool called ENDOplant that is used in different European research programmes, such as PALMPROTECT and DROPSA, for controlling exotic pests and diseases. ENDOplant is an intelligent machine, a revolutionary piece of equipment to perform trunk injections into the vascular system of trees. This new system minimizes both human error during the application, as well as the risk of releasing the phytosanitary products into the atmosphere. According to new regulations (Directive 2009/128/EC and Regulation EC 1107/2009), the technique used respects the affected area, the environment, animals and humans. ENDOplant has special software that includes a pre-determined series of products tailored to specific types of trees, the porosity of its vascular system and the dose and pressure of the product to be used, minimizing operator error. This application technique is used to give vital nutrients to the trees and to control exotic pests (e.g., pine wood nematode, Asian longhorn beetle, emerald ash borer, bark beetles, palm beetles), defoliator species (e.g., horse chestnut leaf-miner, elm/poplar leaf beetles, oak slug sawfly) and allergic species (e.g., pine/oak processionary moths, brown-tail moth).