



*Agriculture:* the Growboxx<sup>®</sup> plant cocoon combines the planting of productive trees and vegetables, thus allowing the rural family to produce food, earn a living and create employment.

*Ecosystem restoration:* the Growboxx<sup>®</sup> plant cocoon combines the planting of one native tree and 4 native bushes/wildflowers. It reduces the costs of ecosystem restoration considerably below traditional methods. The Growboxx<sup>®</sup> plant cocoon uses over 90% less water and results in survival rates in excess of 90%.

## Groasis Ecological Water Saving Technology

### Growmaxx Mycorrhizae replaces fertilizer

Fungi that feed the plant and support a healthy root system. Fertilizers contain salt and in dry soil often burn the roots. Mycorrhizae replace expensive fertilizers (natural alternative) while supporting faster plant



### Capillary Drill elevates planting

Productivity Machine used to accelerate making planting holes while leaving the capillary system intact. Digging planting holes by hand takes 15 min/hole (32 – 40 holes/day). Capillary drill makes 6.000 holes per day.



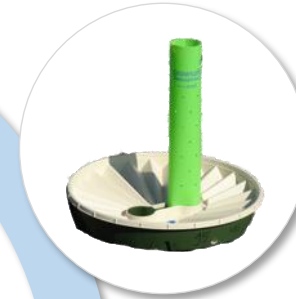
### Growboxx®/Waterboxx® plant cocoon

Intelligent bucket that provides water to a tree and vegetables while creating a healthy micro-climate. Both boxes use 90% less water and provide a survival rate of +90%.



### (Bio)Growsafe Telescoprotexx protects plants

Plant protector against heat, frost, wind, (sand)storms, and grazing animals. Protects plants and speeds up to plant growth, planted trees grow 25% faster to a height where they are high enough to survive without the protector. Available in carton or polypropylene.



### Terracedixx

**increases water infiltration**  
Machine is used to make mini-terraces to stimulate increased water infiltration into the soil. Currently just 25% of (rain)water enters the soil in degraded areas, by using the Terracedixx up to 90% of the rainfall is harvested.



The Groasis Technology follows the principle of "more water in, less water out" and is known for its 'Triple 90 benefits': it uses 90% less water when compared to drip irrigation, results in a survival rate of +90% and costs 90% less than traditional planting methods, e.g. like drip irrigation. In addition, the technology is affordable for even the poorest families. Banks generally do not finance poor rural families who want to plant trees.

The unique combination of planting a tree whilst at the same time cultivating vegetables results in the poor families having food to eat and sell within 3-6 months after planting. This helps them generate income in the first year, allowing them to pay for the in the same time planting of the productive tree and the vegetables. This ensures food, income and employment in the longer term.