



INTELLIGENT AFFORESTATION AND FARMING

Grainis Ltd. Hydrogen Bulgaria works since 2005 on projects for **Intelligent Agriculture** and **Aquaculture**.

Our **scope** are **Projects** as :

1. Aerial Seeding by **special, long-fly, MOH-Gas-Fueled** (fuels.alle.bg) **DRONES** (**100,000 trees** planted from the air per work shift), applying **air-gun shooting** of **exploding** and **soil-crashing seed+fert-capsules** **from the air** into the ground Perfect to fight against **deforestation** and **desertification** - desert.alle.bg



Using this amazing technology, combined with our **water-from-air technology**, we can **turn all Deserts** into **Green gardens** - desert.alle.bg. We can recover all deforested territories in the **tropical countries** as in **Amazon basin, Malaysia and Indonesia Oil-Palm plantation-based deforestation**, worldwide **wood-industry**, etc. We can literally **cover the planet Earth with forests** and gardens in a short time.



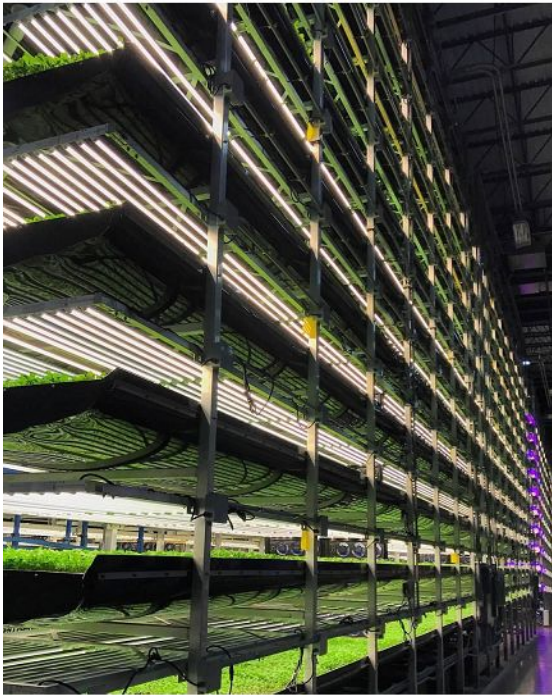
Drones will **not only plant the trees**, but will **care for the young plants** for some time after planting, by **spot-irrigating and fertilizing, spraying with herbicides, pollinating, cleansing weeds, etc.**



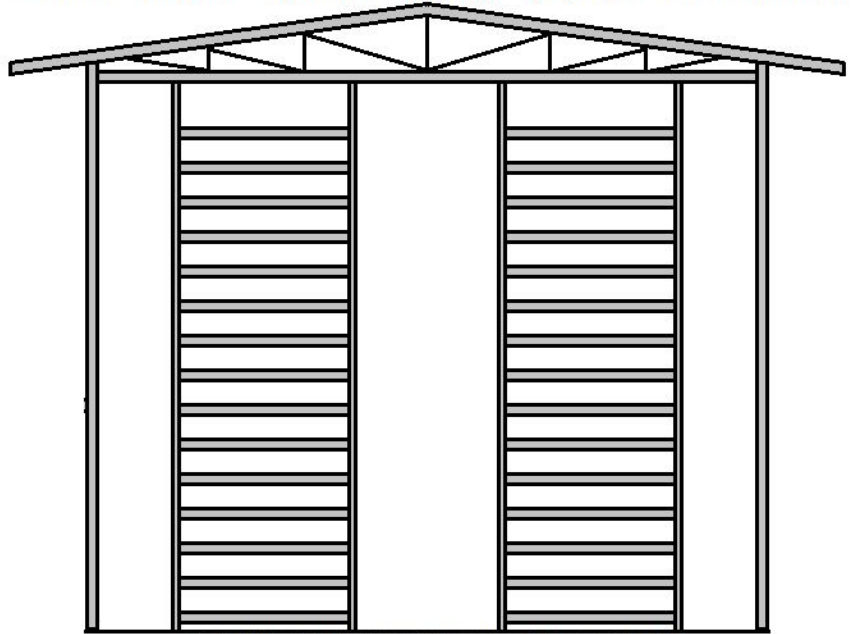
2. Open-Air Farm and In-House Vertical Hydroponic Farm Remote-Controlled Robo-Drone Operations as Picking and Shipping Plants and Fruits/Veggies, Spot-Irrigation, Fertilization, Herbicide-Spraying, Pollination, Cutting Leaves and Branches, Surveillance, Data-Collecting, etc.



3. Vertical Multifloor Hydroponic and Aquaculture Farms for up to 12 crops per year (aerofarms.com) made of zero-cost **Assembly-modular Basalt-Fiber Composite Elements** - **3 times stronger**, **3 times lighter** and **100 times cheaper** than **Steel** - basalt.alle.bg and powered by **Water-fuel SOH Gas Power & Heat Plant**, at a cost, close to zero. - fuels.alle.bg



HYDROPONIC VERTICAL FARM
Construction : Basalt-Fiber Composite Elements, Energy : Oxy-Hydrogen Gas Power&Heat Plant



Grainis ltd. Hydrgen Bulgaria 2017, <https://fuels.alle.bg> , grainis@abv.bg



The **Hyper-Intensive Effectiveness** of the **Vertical Multi-Floor Hydroponic Farms** combine several cutting-edge technologies as the **Basalt-Fiber Composite** super-strong, stainless and super-cheap assembly-modular construction technology, plus the **SOH GAS Power & Heat Generation Plant**, providing **fixed-temperature heating, humidity** and **24-h LED lighting**, the additional CO₂- enrichment of the ambient air for 50%-boost of the crops, the **Computer-Controlled feeding solutions**, the **remote Robo-Drone-Service**, etc .

This incredible technology allows development in various directions as for example **Aquaculture** - cultivating extremely demanded plants as the **Spirulina Platensis blue-green Algae**, the **Protein-Richest Plant** on Earth (**57%** content), plus a storage of a long list of unique amino-acids. The price of the **lyophilized Spirulina** is **incredibly high** - about **\$500 per gram** !

Various plant species could be cultivated indoors, in floors, incl. Exotic tropical fruits as **Bananas** for example:



Or an amazing combination of the extremely delicious and demanded American Blueberries or dwarf-tree oranges,



plus the **extremely demanded and expensive (EUR 1,000+/kg) Truffle mushrooms** growing in their roots-

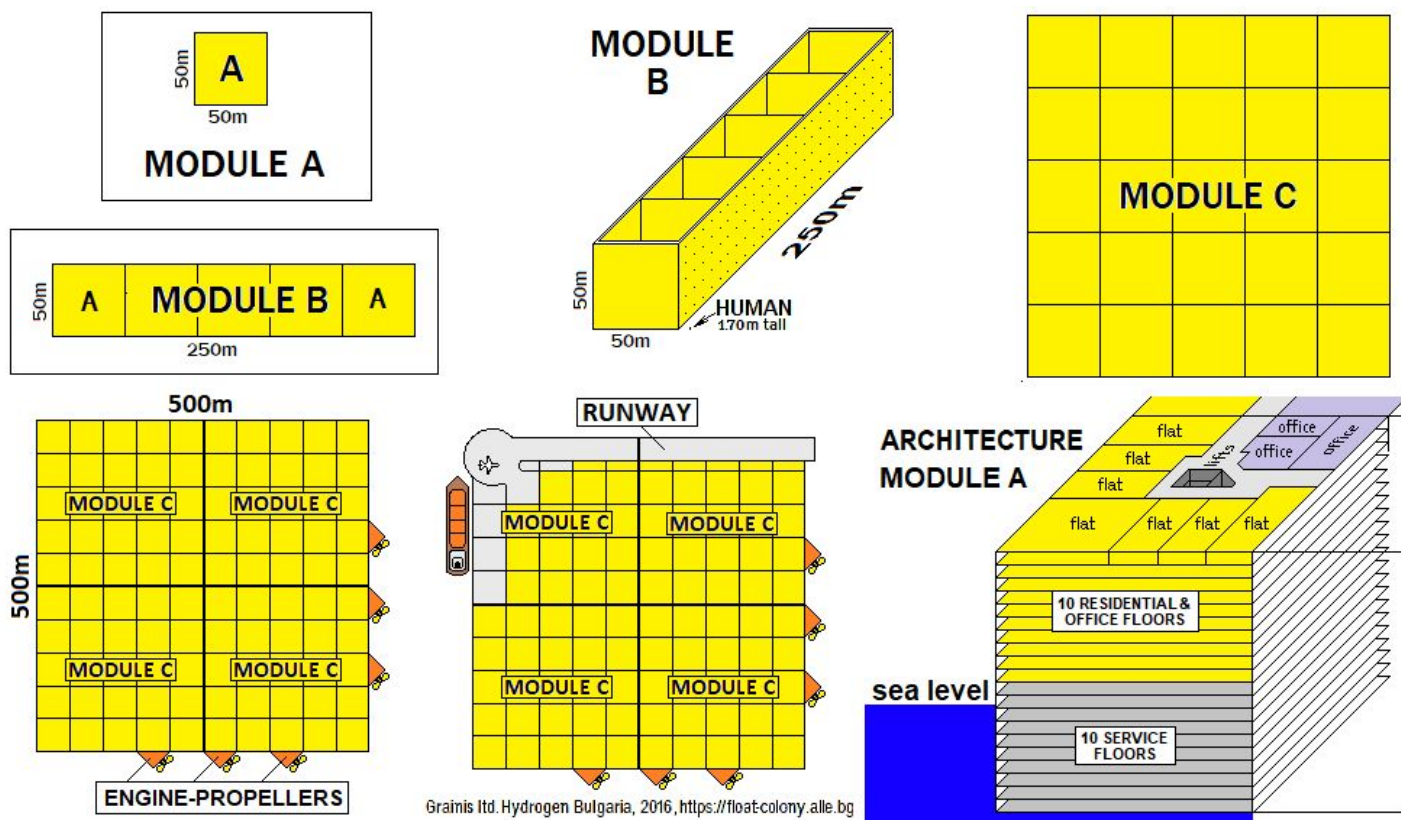
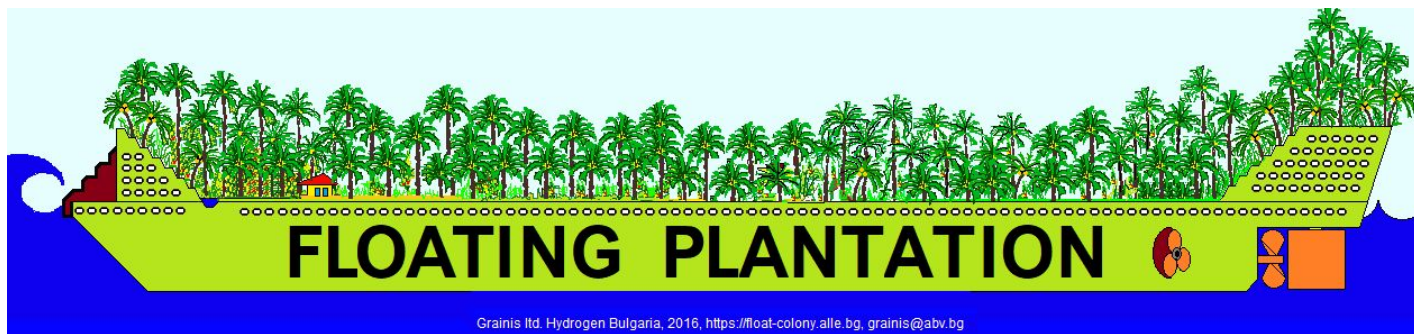


Also, we can cultivate super-intensively in floors various **fishes, crabs, lobsters, prawns, shrimps, oysters, mussels, etc. delicious, healthful and extremely demanded seafood.**



4. We can use our technologies to fight the devastating deforestation caused by the **Oil-Palm farmers**, destroying the natural rainforest, home of various rare species as the **Orangutan**, the **White Elephant**, etc., by building huge **Floating Platforms**, made of superstrong, supercheap and stainless **Basalt-fiber Composite**, placed near coast in the **best climate zones** in the **Ocean** with the best conditions for cultivating the **Oil Palm** on them, plus many other tropical fruit trees as **Bananas, Oranges, Mango**,

Cocoa, Coffee, Pineapple, and non-tropical as Peaches, Apricots, Almonds, Nuts, Olives, etc., at extremely low cost . <https://float-plantation.alle.bg>



We could cooperate in **EU** or else **projects**, based on the aforementioned advanced technologies.

Emil Mihaylov - CTO
 Grainis Ltd., BG201749079
 5 Gen. Edward Tottleben blvd., fl.3, 1606 Sofia, Bulgaria
 cell: +359 899 171570 (9AM-9PM EET)
grainis@abv.bg, grainisbg@gmail.com
<https://desert.alle.bg>
<https://zero-hunger.alle.bg>
<https://float-plantation.alle.bg>
<https://fuels.alle.bg>
<https://basalt.alle.bg>
<https://passive-house.alle.bg>

