DACHNIK
Aquaponics

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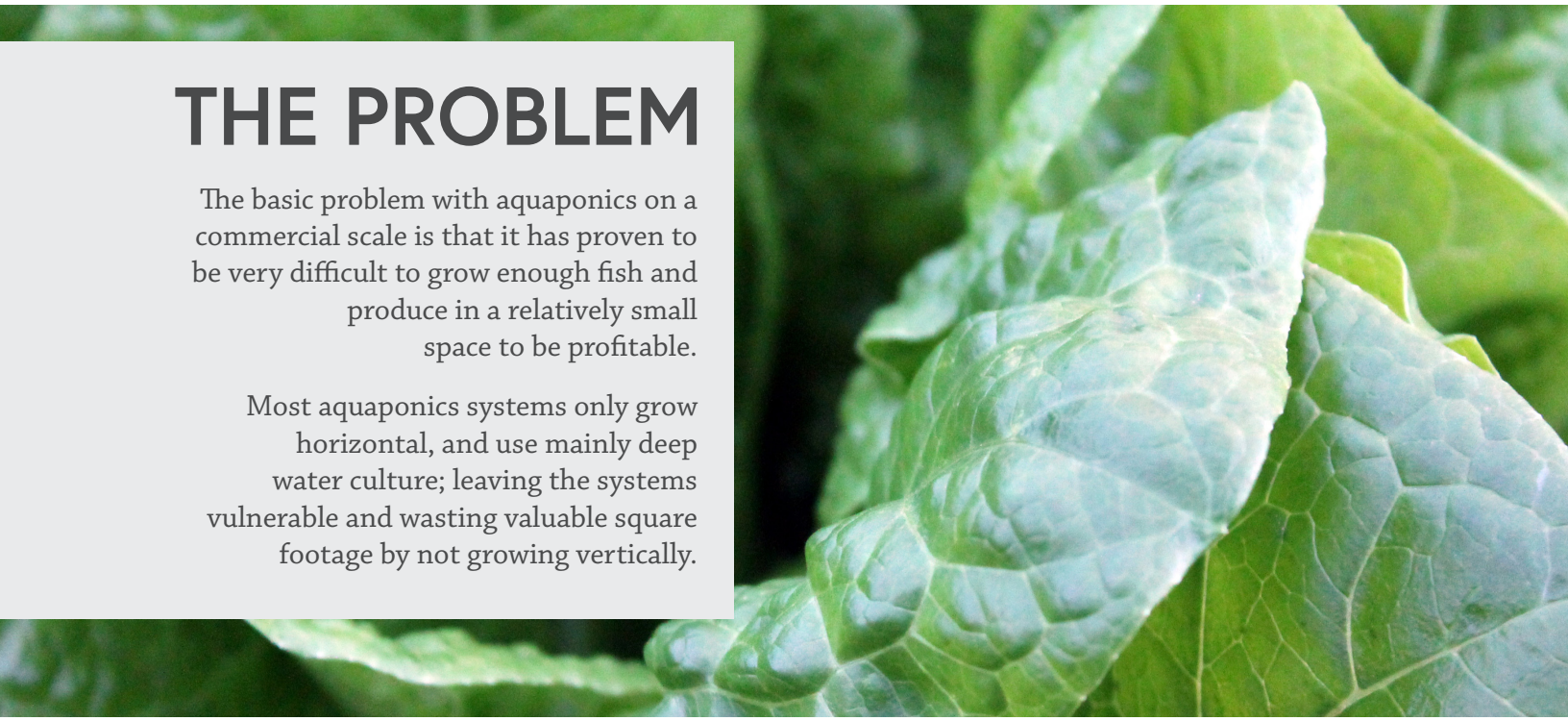

THE PROBLEM

The basic problem with aquaponics on a commercial scale is that it has proven to be very difficult to grow enough fish and produce in a relatively small space to be profitable.

Most aquaponics systems only grow horizontal, and use mainly deep water culture; leaving the systems vulnerable and wasting valuable square footage by not growing vertically.

THE SOLUTION

The patent pending systems designed by Dachnik Aquaponics; combine ebb and flow media/lava rock grow bed technology; float bed/deep water technology, and vertical nutrient film technique technology all in one easy-to-manage design.

"God made worms for a reason. Worms are key."

- Clynn Whitworth & Company

Because of challenges with media based systems, early researchers abandoned them as a viable option commercially. Not a problem with Dachnik systems as the solution is in the design.

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THE MARKET

Our main market involves restaurants & local organic markets through local distributors.

Our target market is worldwide. We sell to families who want to produce their own vegetables and fish. We sell to commercial farmers wanting to get the most production out of a small space. We sale to charities and foundations.

Using our units, people will be able to grow food year round using no fertilizer or pesticides.

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WHY US?

Our Systems work in harmony with nature to create a growing environment like no other. Each system takes on a life of its own with its own unique rhythm. Part of the rhythm is the harvesting and replanting cycle.

By balancing the enzymes & beneficial bacteria, we grow the best tasting, healthiest food on the planet. Our systems are compartmentalized so as to be able to shut each bed down individually for cleaning and maintenance.

The systems do not share water. So if something undesirable happens in one system, the rest are not affected. If for some reason a pathogen develops, it is possible to contain the harmful situation to one system.

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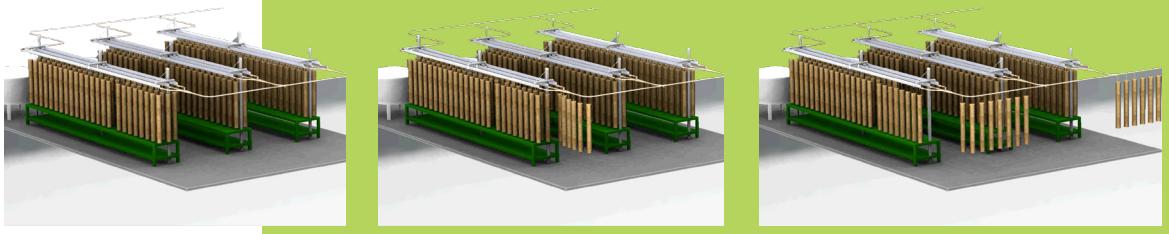
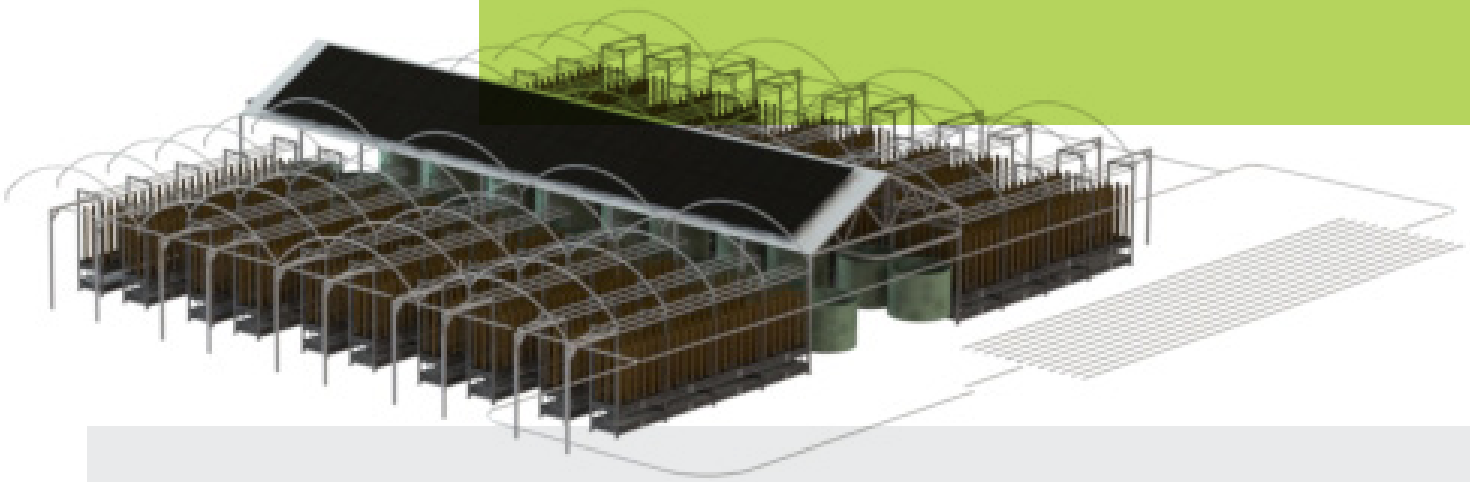
Harvesting



Overhead Conveying provides easy transportation of plants through all stages of production and cleaning.



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Aquaculture System Integration

We have designed Dachnik systems to be integrated with large aquaculture farms. An aquaculture system growing lower margin fish has needed to produce approximately 1,000,000 kg of fish a year to be economical. Integrating with 360 of our four bed systems can reduce the capital investment of the aquaculture equipment and increase growout capacity by approx 25%.

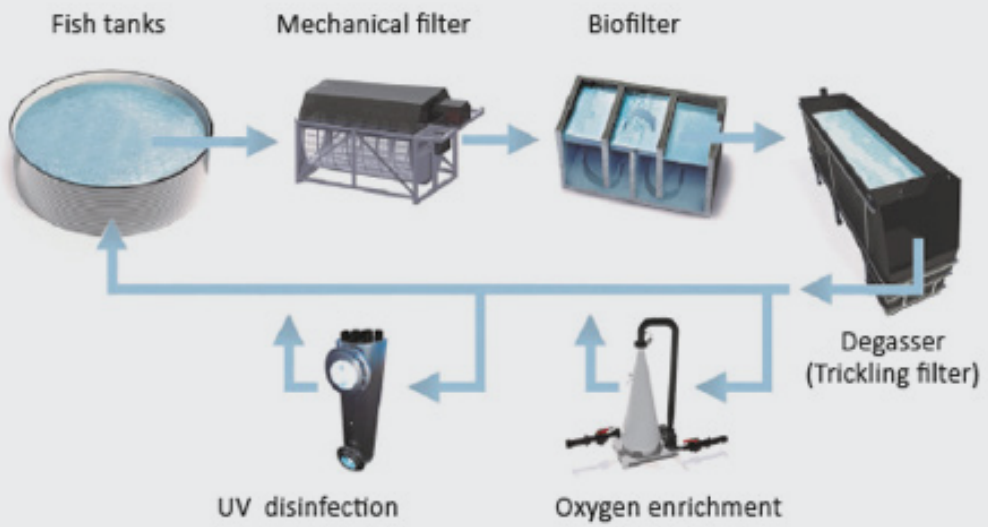
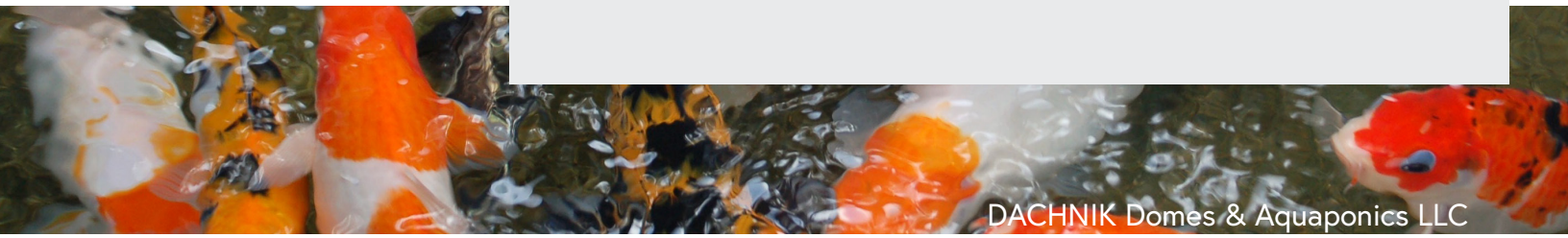


Diagram from: "A Guide to Recirculation Aquaculture" by Bregnballe



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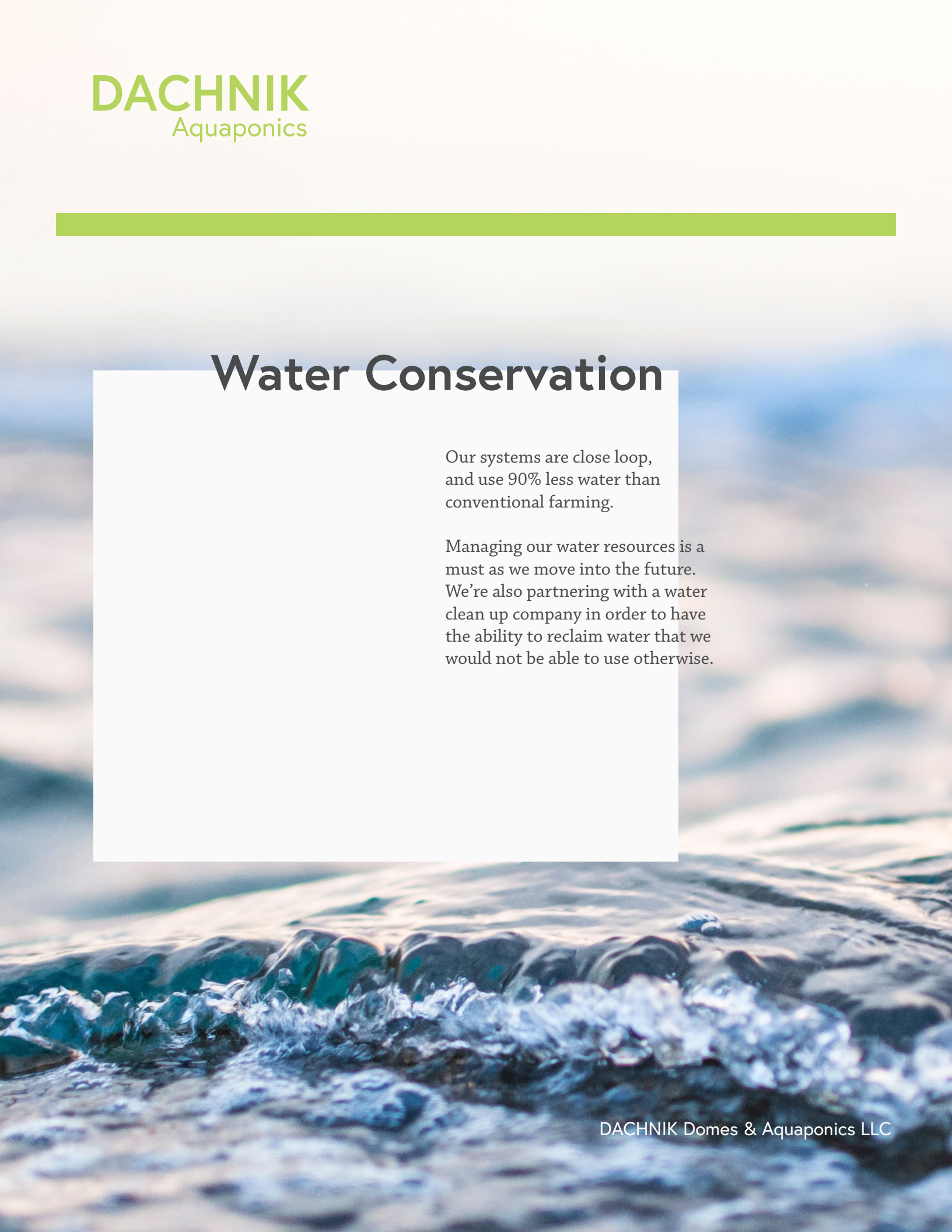
Water Conservation

Our systems are close loop, and use 90% less water than conventional farming.

Managing our water resources is a must as we move into the future. We're also partnering with a water clean up company in order to have the ability to reclaim water that we would not be able to use otherwise.



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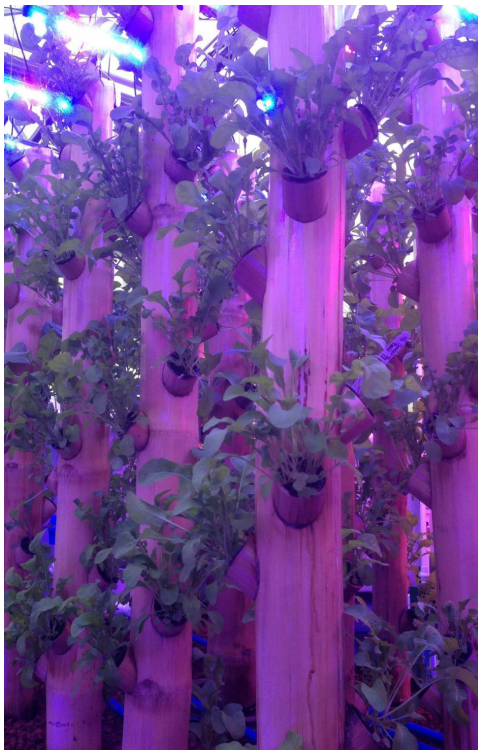
Productivity

We have eveloped a large scale farm consisting of 1440 media beds. In this well designed system, we can harvest between 50,000 plants and 100,000 plants per day and 2200 lbs of fish per day.

The reduced water usage, land space, and controlled environment gives us a massive advantage over traditional farming. Throw in how our patent pending systems keep nature intact and one can see how exciting and rewarding our way of growing can be.



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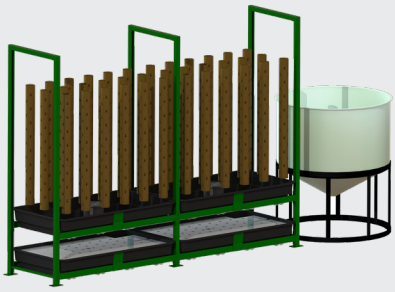
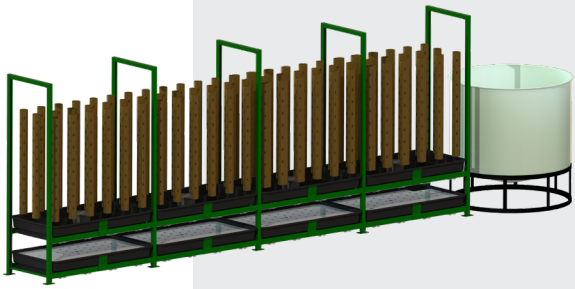
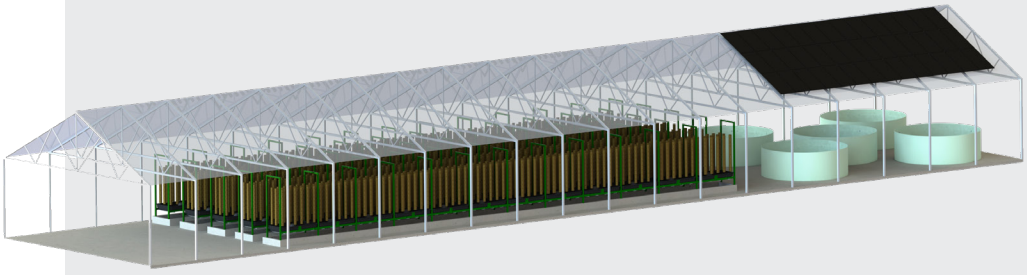
Systems







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