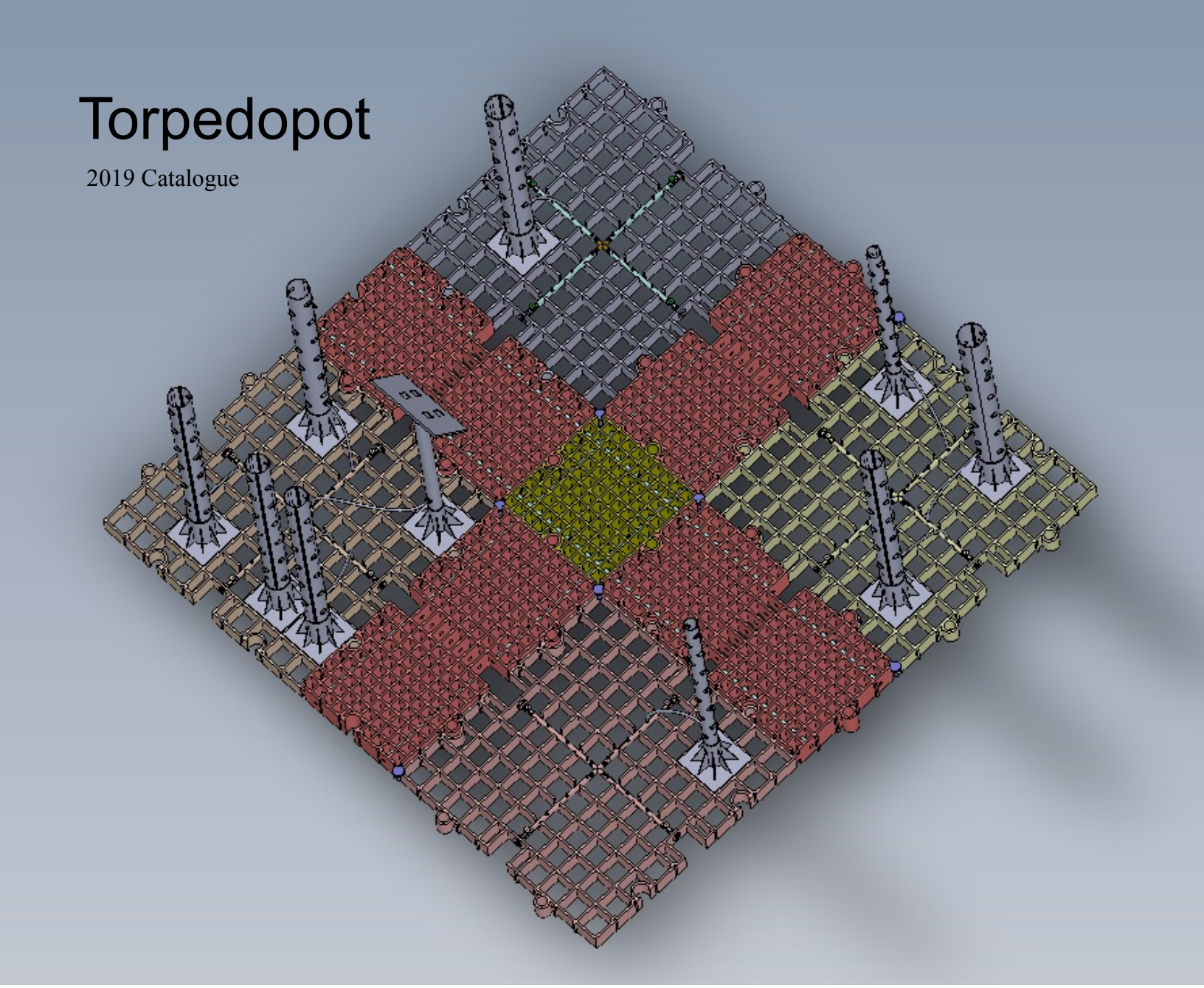
Torpedopot

2019 Catalogue



Modular Garden System

Automated Self-watering Garden Systems

Darral Addison
CEO at Torpedopot

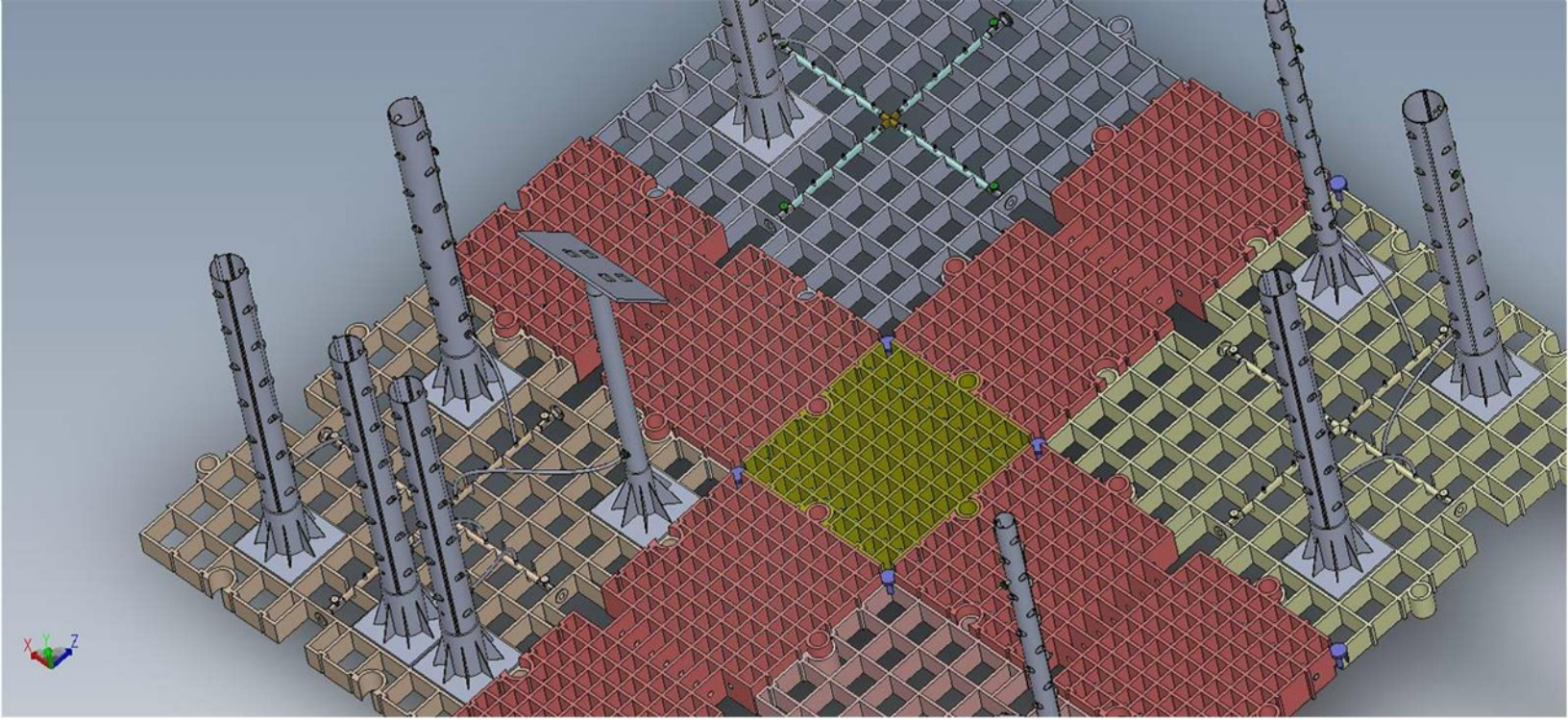
Torpedopot will be one of the most talked about phenomenon of this decade!

Your Modular Garden System will produce more foliage per square foot than traditional gardening. Our technology ensures that your plants grow faster, reach maturity quicker, look aesthetically pleasing, and provide more fruit per square foot. All you do is add dirt, seeds or seedlings, adjust the water flow and enjoy the beautiful foliage and blooms.

Modular Garden System brings nature off the ground and into your home. The Modular Garden System provides everyone with an equal chance of controlling his or her food supply and consumption and an equal opportunity to feed themselves with dignity. Our Slogan is "Feeding the World." We are committed to doing just that. Our vision is to feed the world by giving every person an equal opportunity and an affordable solution to produce nutritious foods for a balanced diet.

Our Modular Garden System set a new standard for gardening. Modular Garden System can be used in areas where there is no backyard. You do not need fancy gardening tools. One Modular Garden System can grow hundreds of plants within a small footprint. Use our Self-watering planters in your apartment, basements, rooftops, community gardens, nursing homes, and off the grid. Once you begin to understand the power of the Modular Garden System, it will sell itself. You can grow exotic plants or feed your family in a time of crisis.

Darral Addison

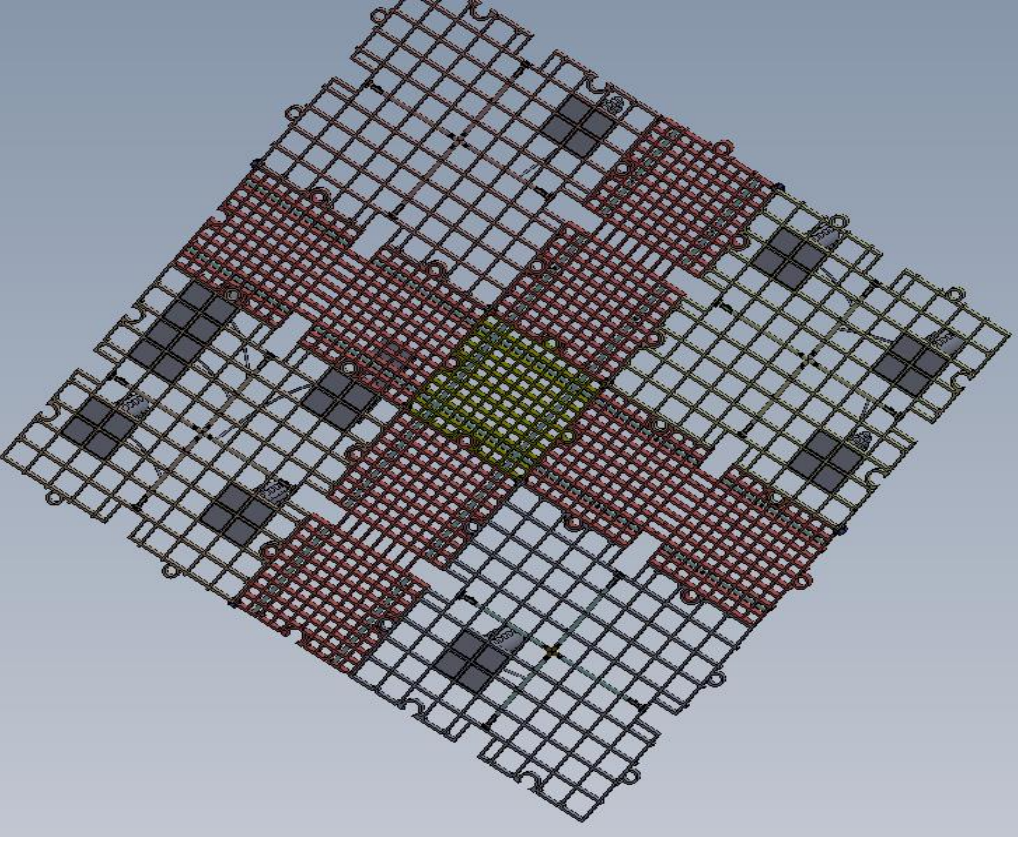


Overview

The Modular Garden System can feed a small family for a year, or it can be expanded to provide enough food to feed a city. The Modular Garden System grows to fit your purpose. The system is fully automated and requires very little human intervention. The Grid creates a stable and safe environment for growing, retrieving, and washing plants, fruits, and vegetables. Setup is easy and fast. Four Grids can produce as many as 7,680 plants extending up to 3.5 million plants in a football field. The Automated Vertical Garden Grid System has been scientifically designed to grow your plants for you!

- Our Modular Garden System :
- Provides a stable, long-term gardening solution
- Feed large amounts of people in a short period.
- Respond to disasters with a long-term, cost-effective solution.
- Quickly build the world largest indoor/outdoor food processing facility.
- Cost is far less and produces more food than hydroponics or traditional gardening systems.
- The Modular Garden System requires approximately 90% fewer resources (water, fertilizers, equipment, monitoring, personnel) than similar applications.

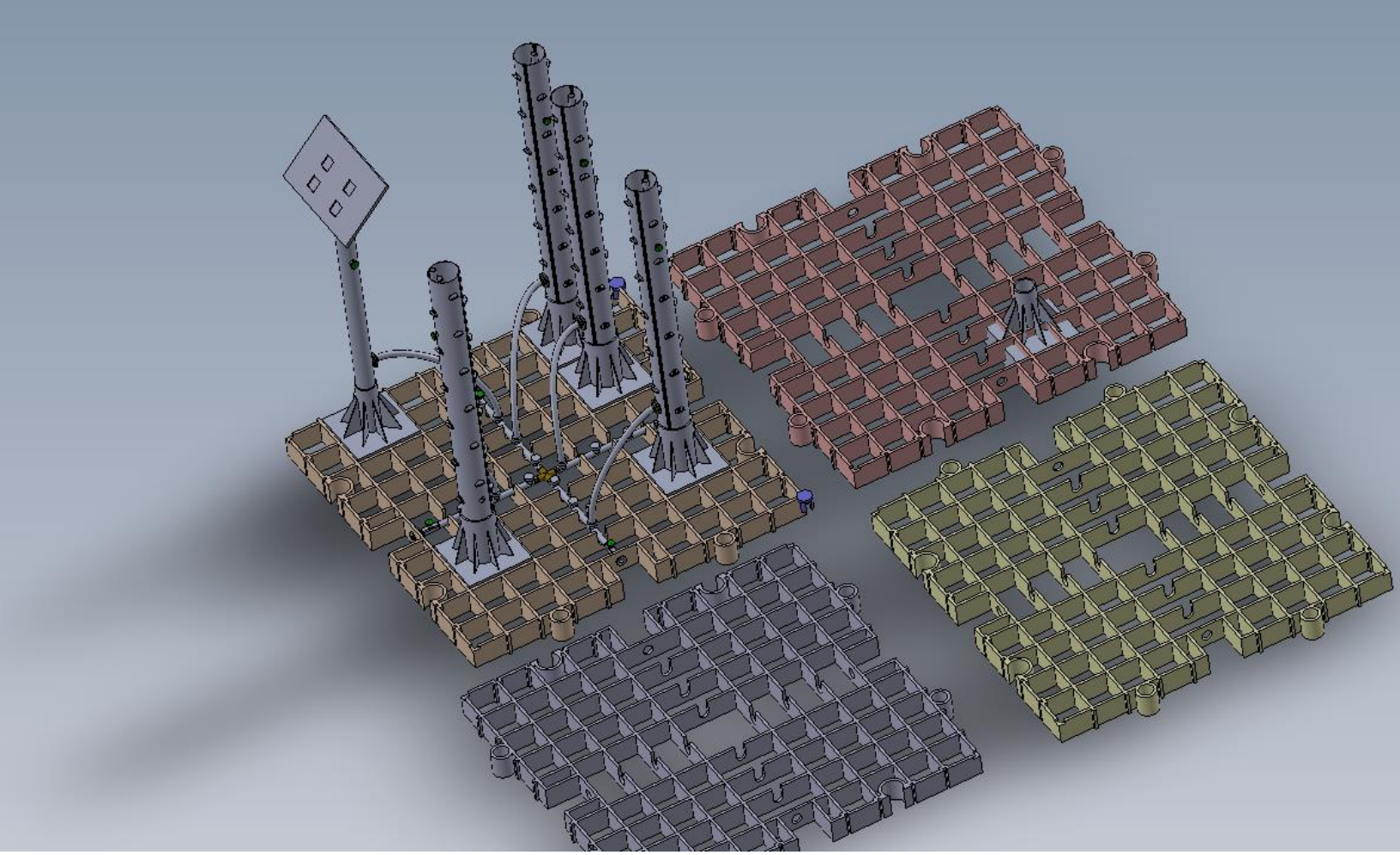
When it comes to feeding people on a massive scale, the Modular Garden System is assembled faster than any other food production application. A standard household pressure of 70 psi can efficiently operate four Modular Gardens producing thousands of dollars in fruits and vegetables.



Five Things You Must do Before You Operate the Modular Garden System

- **Throw away your tools.** The Modular Garden System does not require any garden tools so, throw away your tools including but not limited to your watering can, pruning shears, cultivator, tiller, spade, shovel, rake, digging fork, wagon, seed trays, flowerpots, Pickaxe, and wheelbarrows.
- **Stop building bulwarks:** Throw away your raised beds, tarps, wooden railroad ties, underground water lines, retaining walls, underground water lines, hoses, and fences,
- **Throw away your garden supplies:** Flowerpots, steel cages, watering can, spade, trowel, hosehead, boots, plant support, sprinkler, drip hoses, pruners, snips, carts, seed spacers, seed tray, sunscreen, and tool belt
- **Reduce dependency on chemicals.** Fertilizer, pesticides (insecticides, herbicides, fungicides) groundwater runoff, poisoning drinking water, ecological changes
- **Don't worry about droughts:** The Garden Grid System is made up of materials that will stand up to harsh weather conditions. The planter is designed to withstand prolonged wetness in addition to crushing droughts.

Modular Garden System provides an environment which allows plants to achieve their full potential. Most plants are not happy in their environment. Existing growing conditions prohibit plants from expressing their vibrant colors and complex behaviors. Most plants are struggling to optimize the right amount of sunlight, shade, water, bacteria, fungus, rain, etc. The Modular Garden System has been designed to reduce the shock of not having a luscious plantation or a perfect growing environment. Your Modular Garden System optimizes the conditions in which plants can achieve their full potential. Modular Garden System has been scientifically designed to grow your plants for you!

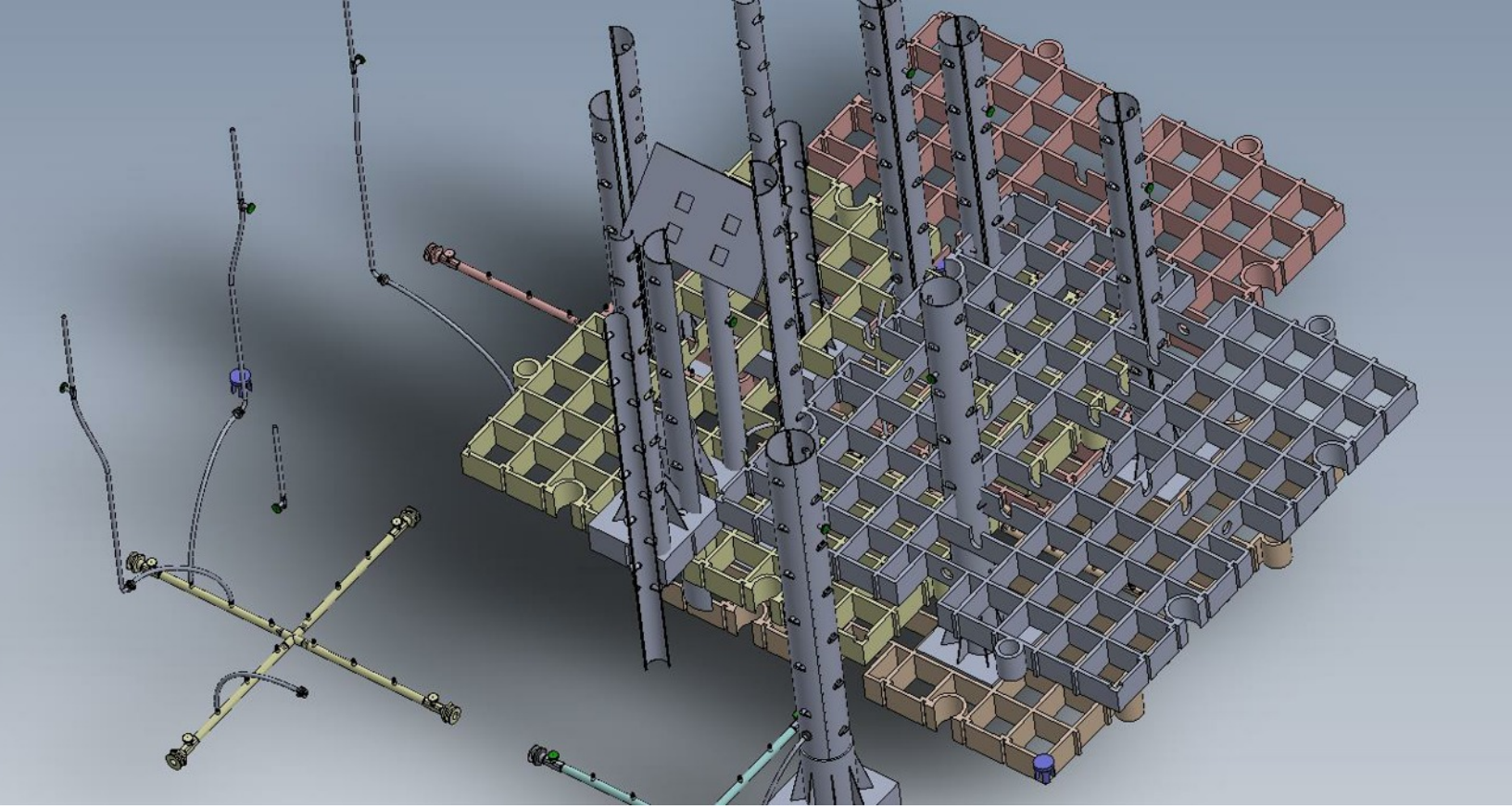


The Modular Grid Systems expands with your needs

The Grids are the building blocks for the Modular Garden System. The Grid is a 60”x 60” x 6” that is made from HDPE plastic. It can withstand over 1,000 lbs. Each Grid slides and locks into an adjacent Grid like a giant Lego set. You can place it on the soil, beneath the ground or under stones. The modular network is assembled faster than any other growing application.

Within a short period, you can create the world’s most massive indoor/outdoor vertical garden. You can quickly connect a matrix of modular grids to displace or compliment your existing food chain. The Modular Garden System is used as a foundation for setting up a food miniature processing facility, where you can process plants, fruits, and vegetables. The grid system comes in various colors (red, green and brown). The colors can be used to identify specific processing activities for regulatory agencies and training purposes. The grids are lightweight, easy to transport, provide exceptional durability, and are stocked in materials that are FDA acceptable.

The cells on the Grid can be used for growing seeds and seedlings. The grid system contains (6”x 6” x 6”) cells that can be used as miniature planter pots. In each Grid, there are approximately (60) six-inch cells for planting seeds or developing seedlings. You can plant seeds directly into the Torpedo, or you can develop the seedlings in the modular grid and then place the seedlings into the Torpedo. The piping in the Grid has been designed to accept accessories such as the sprinklers to water plants and podiums for collecting telemetry measurement for the consistency of the soil, effectiveness of the fertilizers and the quality of water. Once the modular grid is placed on a level surface, the base is pushed into the holes on the modular grid. The base provides stability to the Torpedo.

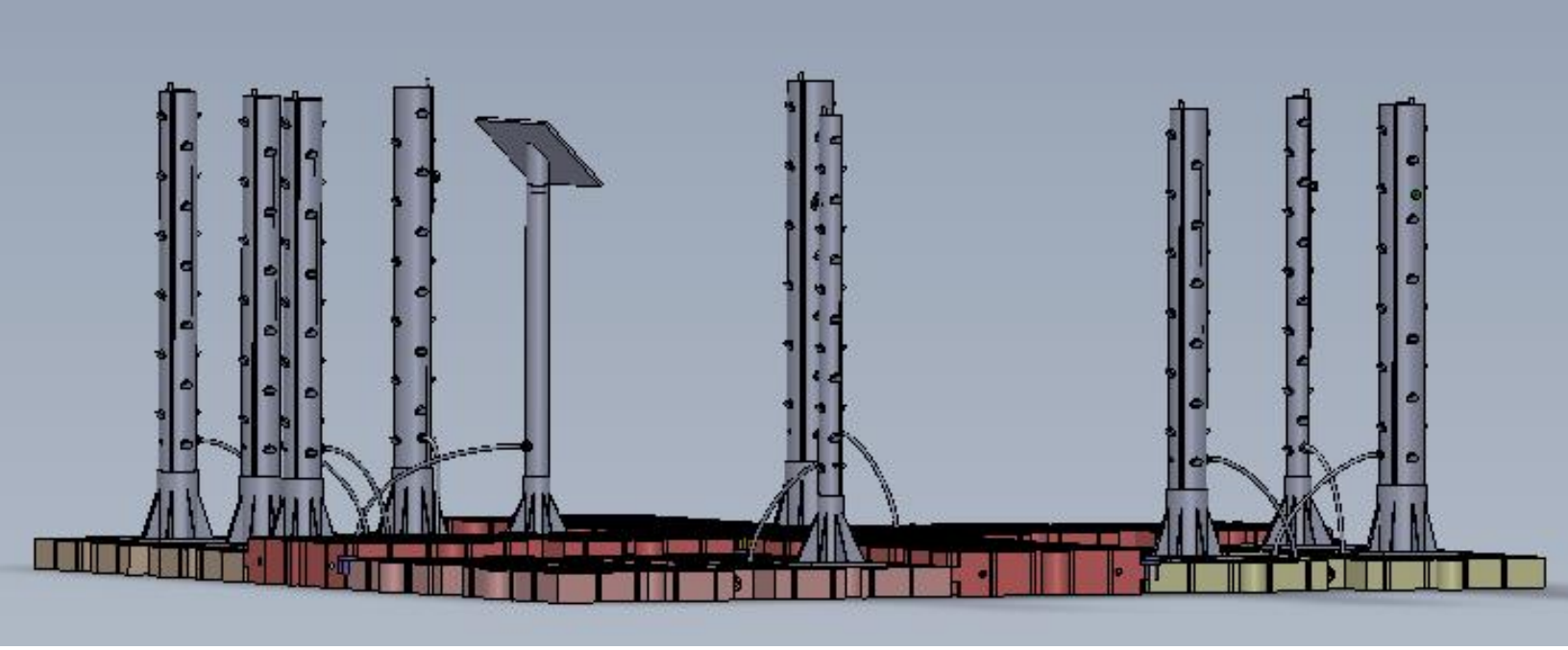


Water and Nutrient Distribution

The Modular Garden System has internal distribution capabilities for transferring water and nutrients to all of the Grids in the network. Each Grid has an internal manifold and multiple control knobs for metering the flow of water and nutrients. Water enters and exits each Grid through the ports in the manifold. Each port has a flow control knob to control the entry and exit of water and nutrients. When all four ports to a grid are closed, the system, pressure drops down to zero. It is at this point that the Grid can be safely removed.

The purpose of the manifold is to achieve equalized pressure across the Grid network. When a grid is removed from the system, the water pressure in the remaining Grids reestablishes itself to a new pressure equilibrium.

The Modular Garden System can withstand a maximum of 200 psi. When all of the Torpedoes are disconnected from the Grid, the pressure in the system increases across the network. The Modular Garden System is designed to stabilize pressure across the system as uniformly and quickly as possible. The stabilization provides consistent and predictable watering throughout the Grid network.



Build your own food production facility in your back yard

Torpedos

Don't lose another seed! Torpedoes are self-watering vertical planters that are used for watering and feeding your plants. The Torpedo gives you the ability to achieve optimum growth for every plant. Each Torpedo has an internal plumbing system with multiple flow valves that ensure your plants grow faster, reach maturity quicker, look aesthetically pleasing, and produce more fruit.

The smaller diameter Torpedos slide into the Single-base and the larger diameter slides into the Quad-base. Both bases slide into the Grid. Every Torpedo slides into the base which is placed into the six-inch cells on the bottom Grid. The four-block base design provides greater stability for the more massive diameter Torpedos. The Single-base allows you to pack more Torpedos in a unit area. Growing more plants and producing a higher yield is why your Modular Garden System is designed. The goal is to achieve maximum growth for the minimum space. The Single-Base is for plants that do not require deep root system much branching such as cabbage. The Modular Garden System can grow millions of plants in a small area. The Quad-Base provides greater stability for the more massive Torpedos and allows more space for plants that do a lot of branching, such as tomatoes. The Single-Base solution will enable you to maximize your growing area, while the Quad-Base focus is on volume.

Modular Garden System waters your plants for you. Most plants are not happy where they live, and most growing conditions prohibit plants from expressing their vibrant colors and complex behaviors. Most plants are struggling to optimize the right amount of sunlight, shade, water, bacteria, fungus, rain, living organisms, etc. Your Modular Garden System has been designed to reduce the shock of not having a perfect growing environment. Torpedopot™ optimizes the conditions for which plants can achieve their full potential. Our Modular Garden System has been scientifically designed to grow your plants for you

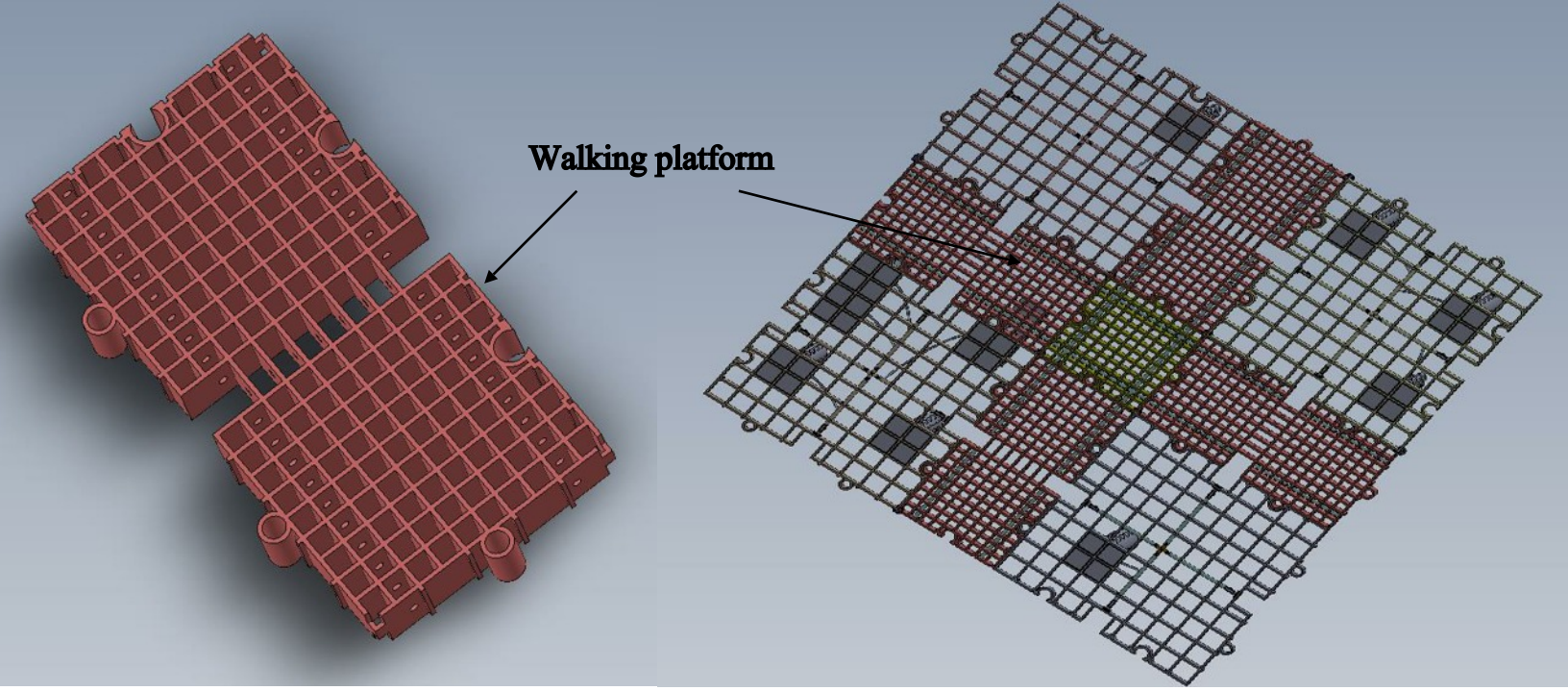
Grow and sell thousands of herbs

You can attach as many as 48 Single-Base Torpedoes to one grid. Each Torpedo has the potential to hold as many as 40 growing spaces. That is a total of that is a total 1,920 plants in a 60” x 60” area. Four Grids can produce as much as 7,680 plants. A football field can grow to over 3.5 million plants. You can mix Torpedoes across multiple grids, rotate crops, cross-pollinate. The Vertical Garden Grid System gives you the power to customize a solution. You aren't limited to traditional thinking about plant growth. You can grow multiple crops in the same season within the same Torpedoes. Just like traditional gardening, you can rotate your crops. As one crop recedes, the seeds for remaining crops can feed on the existing nitrogen-rich environment. Your Grid network can grow into a virtual city of gardens.

Each Grid is an essential component in the network. If one grid fails, the system will bypass the failure and reestablish a new route for water and nutrients. Fertilization can take place through the grid system. Plants can be fertilized from any location in the Vertical Garden Grid System.

Any grid can be isolated from the network. Remaining Grids will pick up the slack. The flow control knobs allow nutrients to be localized to one grid or a group of Grids in the network. You can easily isolate one Grid from the grid system. Or you can use the flow control valve on the manifold in each grid to supply nutrients. There are so many points of entry to the system. You can use the system to test the effect of certain fertilizers on specific grids and isolate the remaining grids from being affected.

You can expand your Vertical garden matrix based upon the demand. Torpedoes can be added to the network in less than a couple of minutes. Simply take the Torpedo base and slide it into the grid, slide the torpedo into the base and attach the hose from the Torpedo to the manifold and you are ready to grow. You can mix and match torpedoes. The grid can accept various sizes of torpedoes. All of the connections on the Grid utilize quick connect components. No tools are needed. The is designed to handle high pressures high pressure. You can quickly connect/disconnect hoses from the Torpedo to the manifold. The hoses in the network can handle loads up to 200 psi.



Build a food processing facility by following the “Red Paved Road”

Platform

- The Modular Garden System is ideal for growing foliage, fruits, and vegetables. The Platform and the Corners are for processing plants, fruits, and vegetables. The Platform and the Corner is attached directly to the Grid or it can lie between two grids. It creates a space to process plants and to perform maintenance on the Torpedos. The cells in the platform and the corners are (3”x 3” x 6”).

- The Vertical Garden Grid Network has a 30-jnch platform for walking on. The platform separates the grids to create a workspace. The platform has two 1-inch inch hoses running through it for carrying insecticide and fungicides.

- An automated process for spraying herbicides and pesticides.

- An automated vapor process for delivering fungicides. Fungicides are under pressure for the control of vectors, diseases and nuisance insects such as black flies, mosquitoes, sand flies and houseflies

Cleaning

- You don’t need sponges and brushes. Cleaning the system is fully automated. If the system has been idle due to an off growing season, the lines can be automatically cleaned. Merely flush your system from a central location.

Case Study:

Cabbage has long been grown and consumed globally for centuries and used as a staple vegetable in many dishes. Traditional gardening methods indicate that this spherical vegetable should be grown 30-60cm apart from each other in order to maximize yields.

In order to grow 15 cabbages a ground space that is 7,920 square centimeters is required. TorpedoPot can easily fit all of these cabbages into one single pot and comfortable place 6 inside of this growing area increasing yields immensely! Imagine, instead of growing one cabbage you can grow an entire cabbage tree that supports 15 cabbages at a time utilizing the same ground space, the same amount of soil, little to no fertilizer and no manual watering! In addition, to the 500% plus gains achievable by using Torpedopot™ plants are more resilient, appealing and grow back quicker, allowing for additional yields. All the while, this has been achieved with: Less Soil, Less Water, Less fertilization, less work tilling the ground, and Minimal Time and Energy. Below, a scenario for growing cabbage on a 1-acre plot of land in terms of yields over a 5-year period is shown.

(USD Thousands)

TorpedoPot Cabbage Production 1 Acre Traditional Farming

Year	Soil	Water	Nutrients	Tools	TVC	Hours Required	Cabbages Yielded	Weight	Revenues	Fixed Cost	Total Cost	Profit
Year 1	$1,500	$1,365	$1,000	$1,000	**$4,865**	1,040	7,200	33 T	$9,806	$459	$5,324	**$4,482**
Year 2	$1,500	$1,365	$1,000	$1,000	**$4,865**	1,040	7,200	33 T	$9,806	-	$4,865	**$4,941**
Year 3	$1,500	$1,365	$1,000	$1,000	**$4,865**	1,040	7,200	33 T	$9,806	-	$4,865	**$4,941**
Year 4	$1,500	$1,365	$1,000	$1,000	**$4,865**	1,040	7,200	33 T	$9,806	-	$4,865	**$4,941**
Year 5	$1,500	$1,365	$1,000	$1,000	**$4,865**	1,040	7,200	33 T	$9,806	-	$4,865	**$4,941**
Total:	**$7,500**	**$6,825**	**$5,000**	**$5,000**	**$24,325**	**5,200**	**36,000**	**163 T**	**$49,032**	**-**	**$24,325**	**$24,248**

TorpedoPot Cabbage Production 1 Acre With TorpedoPot

Year	Soil	Water	Nutrients	Tools	TVC	Hours Required	Cabbages Yielded	Weight	Revenues	Fixed Cost	Total Cost	Profit
Year 1	$2,000	$683	$0	$100	**$2,783**	200	43,200	275 T	$82,374	$32,143	$34,925	**$47,448**
Year 2	$0	$683	$0	$100	**$783**	200	43,200	275 T	$82,374	$32,143	$32,925	**$49,448**
Year 3	$0	$683	$0	$100	**$783**	200	43,200	275 T	$82,374	$32,143	$32,925	**$49,448**
Year 4	$0	$683	$0	$100	**$783**	200	43,200	275 T	$82,374	$32,143	$32,925	**$49,448**
Year 5	$0	$683	$0	$100	**$783**	200	43,200	275 T	$82,374	$32,143	$32,925	**$49,448**
Total:	**$2,000**	**$3,413**	**$0**	**$500**	**$5,913**	**1,000**	**216,000**	**1,373 T**	**$411,869**	**$160,714**	**$166,627**	**$245,242**

Assumptions:

- *Cabbages weigh 908 grams on average and can be harvested every 70 days with normal farming techniques and 50 with TorpedoPot.*
- *TorpedoPot only requires half as much water as traditional farming methods (conservative estimate).*
- *TorpedoPot requires significantly less nutrients and tools than does traditional farming methods.*
- *Fixed Cost for TorpedoPot was arrived at by taking the amount of TorpedoPot's that fit inside of an acre divided by two, to allow for a comfortable level of spacing.*
- *This amounts to 2,500 TorpedoPots.*

Conclusion:

In the same amount of space Torpedopot™ has the ability to:

- Yield in excess of 500% more plants per acre than traditional farming techniques,
- Substantially increase revenues, Increase profit margins,
- Drastically reduce the time and energy needed to produce more crops,
- Increase clean usable water supplies for communities

These results are estimated to be wide-reaching and apply to a wide array of cash crops such as tea, coffee, and cotton as well as a wide array of vegetables, fruits, roots, and herbs. With Torpedopot™ technology farmers truly have an advantage that is head and shoulders over their competition and gives them the opportunity to accelerate their operations into growing powerhouse that generate significantly more profit in less time with less resources. Additionally, countries who rely primarily on the agricultural sector to generate income can improve their trade balance and even increase GDP per capita and standards of living for their citizens. Most importantly, Torpedopot™ will allow more of the overall population to gain access to adequate amounts of healthy food at a lower cost and have access to larger amounts of clean usable water.

Our Modular Garden System has proven to produce thousands of delicious foods and beautiful flowers at price points that pay for itself in your first harvest. Our Self-watering planters require one hour of monitoring for the whole season. The results are staggering!
Www.torpedopot.com

If one Torpedopot can grow

- 1,000 - Banana Peppers,
- 52 - Eggplants
- 200 - Hungarian peppers
- 75 - Cucumbers
- 20 - Squash, Zucchini,
- 1,000 - Cherry Tomatoes, Big-boy, Plum
- Thousands of Herbs - Parsley, Fennel, Oregano
- Mint: Chocolate, Apple, Peppermint, Spearmint,
- Watermelon, Cantaloupe, Honeydew
- Kiwi, Strawberries, Blueberries,

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