



Youth and Food Re-engineering African Society

Sustainable food strategies that generate new sources of revenues, full employment, agricultural independence and food security.

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Introduction

Africa has more people aged fewer than 20 years old than anywhere in the world and the continent's population is set to double to two billion by 2050. Youth in Africa constituted 19% of the global youth population in 2015, numbering 226 million. By 2030, it is predicted that the number of youths in Africa will have increased by 42%. Africa's population as a whole is very young, with 60% of the entire continent aged below 25, making it the youngest continent in the world, in relation to its population makeup. All of the world's top 10 youngest countries by median age are in Africa.¹

By 2030, the target date for the sustainable development goals, the number of youth (15-24) is projected to have grown by 7 per cent, to nearly 1.3 billion. Youth can be a positive force for development when provided with the knowledge and opportunities they need to thrive. Among the greatest challenges facing many countries today are inadequate human capital investment and high unemployment rates among youth. There is a crisis in the lack of formal skilled employment opportunities across Africa, which is exacerbated by the addition of 10–12 million youths to the labor market each year. The demographic dividend in Africa has the potential to become a 'ticking time bomb', or to provide great potential for economic development.



Figure 1 - 52 Eggplants growing in 144 sq ft

Unemployment

Youth unemployment across Africa is high, at 30.6% in North Africa, the second-highest rate of a region globally, whilst in sub-Saharan Africa the rate is declining, to 12.9% in 2016. Youth unemployment levels vary from 53.6% in Swaziland and 52.3% in South Africa, to 3.3% in Rwanda in 2016. As age within the working population increases, so do levels of employment, as youths are three times more likely to be unemployed than adults (aged 25 or over), which demonstrates an anti-youth bias across African labor markets.²

¹ ["The oldest and youngest countries in the world"](#). 10 September 2014. [Archived](#) from the original on 29 January 2018.

² Anyanwu, J. C. (2013) 'Characteristics and Macroeconomic Determinants of Youth Employment in Africa' *African Development Review*, 25(2):107-129

Some countries are struggling currently to educate and employ their young people, while also anticipating substantial growth in the number of youth. These countries will be doubly challenged in their efforts to assure universal high-quality education, productive employment and decent work for all. Girls and young women do not have the same access to education and training as their male peers, depriving them of the ability to contribute to the economic recovery of Africa.

One of the problems is that the youth-to-adulthood transition has been blocked or stretched, in a position of stagnation. This is caused by the lack of investment in technologies that'll create opportunities, to fuel creativity among the youth. Seventy-percent of urban residents have been victims of crime mainly in peacetime and youths are the most likely to commit, and be victims of, violence and violent acts.

Some African governments see the efficiencies of large scale commercial farming as a means to increase productivity. With an increase in large

scale traditional farming comes exuberant infrastructure cost. large-scale, capital-intensive and labor-displacing corporate farming is cost prohibitive for young entrepreneurs. Outdated technologies equates to low productivity. As much as 80 percent of Africa's agriculture still depends on rain rather than irrigation. Torpedopot™ patented watering system reduces dependency on water by as much as 90 percent. Agricultural policies must focus on developing smallholder farmers because this is the basin in which new technologies can take root. Torpedopot technology mixed with African's creative talent will create endless uses of the growing tool. With Torpedopot, African can increase its food production, create jobs and reduce poverty on a massive scale. This can be achieved by unlocking the potential of smallholder agriculture.

Torpedopot's patented technology can make more efficient use of household spaces, backyards, patios, walls, rooftops, basements, window-sills, and indoor areas. Torpedopot™ will revolutionize and enhance the food supply chain across all dimensions. Furthermore, Torpedopot™ will naturally remediate the hundreds of billions of dollars in ecological damage

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Figure 2 - 52 Eggplants growing in 2sqft

occurring each year due to nitrogen runoff from traditional farming techniques and will conserve trillions of gallons of fresh drinking water while providing a means by which the world can feed itself with dignity. Our Agricultural Blockchain will give people the ability to buy and sell food products globally. Instead of paying a middle person to sell your food, you can buy and sell food directly with the client using our Agricultural Blockchain. Agricultural Blockchain will feed more people than any organized humanitarian effort in the history of the world, but without wasting billions transporting food across roads, bridges, and dilapidated infrastructure. Owners of the nodes on Agriculture Blockchain can create their own African trading exchange to sell products in bulk, which increases their buying and selling power globally. Just call UPS to pick up your products and ship internationally. We can help reduce your carbon footprint by fifty percent in less than 25 years.

Torpedopot™ has decided to put youth and employment as a top priority and has started by using its technical leverage, as well as its operational strengths, to promote socio-economic developments, giving priority to those that will constructively address youth unemployment issues in Africa.

Urbanization

I am delighted to say that Africa is experiencing an impressive economic explosion. Torpedopot™ believes that the African migration from rural to urban centers is the most powerful growth engine the world has yet to experience. Urban density is a catalyst for success. Once a sustainable food strategy is put in place and managed properly we could see the beginnings of a new Africa arising out of a tattered past. Torpedopot™ technologies make the shift to urbanization sustainable. Our growing solutions don't require a large farm. Torpedopot's patented technology can make more efficient use of household spaces, backyards, patios, walls, rooftops, basements, window-sills, and indoor areas. Torpedopot™ can also accommodate large farming initiatives as well as provide substantial profit incentives for mass food production. Torpedopot™ strengthens domestic markets, by creating an economic environment that is more business-friendly, interactive and less oppressive. Torpedopot™ believes that our growing technologies will act as a catalyst in Africa to garnish huge productivity gains and create sustainable food strategies that generate new sources of revenues.

Africa's rapidly growing youth population makes job creation an urgent matter for many of the continent's governments. Nearly two out of three Africans depend on agriculture for their livelihoods. Governments must invest in newer technologies and research and development to help smallholder farmers to develop new markets. Torpedopot™ is enabling a new way to work and more productive ways for people to gain access to quality foods. By removing technical barriers and providing growing technologies to Africans, technology can, does and should directly

lead to innovation. Torpedopot™ is committed to the growth and strength of our youth in new technologies, to help inspire our future innovators.

Economic Growth

Many people said for many years, that better infrastructure would solve the issue of the cost of being locked out of world markets. Infrastructure investments are needed but if we do not at the same time invest in our informal economy, investors will tax African for using its roads and bridges and generating stations. We need to develop an informal economy to foster business that creates a tax base. The informal economy will help revive the economy. Africa needs to shift its focus on economic growth of its domestic marketplace in order to pay for never ending costly infrastructure projects that will soon decay.

Today the informal economy appears to be as important as ever to Africa and its future development. The informal economy in Africa is big business. The International Labor Organization (ILO) estimates that its average size as a percentage of gross domestic product in sub-Saharan Africa is 41%. This ranges from under 30% in South Africa to 60% in Nigeria, Tanzania and Zimbabwe. It is also a huge employer. It represents about three-quarters of non-agricultural employment, and about 72% of total employment in sub-Saharan Africa. About 93% of new jobs created in Africa during that 1990s were in the informal economy.



Some governments and international organizations aren't supportive of the informal economy. The fear is that informal firms may not pay their fair share of taxes. In addition, reports abound of child labor, low wages (especially for women) and low job security. However, many governments are unaware of the contribution of the informal economy, particularly the high involvement of women. When people feed themselves it drastically slashes government expenditures across the board. Government programs to feed the poor must shift towards providing tools for people to feed themselves. With Torpedopot, you don't need to buy a piece of land. We can grow food right

under your feet. Torpedopot's patented technology can make more efficient use of household spaces, backyards, patios, walls, rooftops, basements, window-sills, and indoor areas.

Informal Economy

A closer look at the informal sector in Africa provides a glimpse of what could be achieved if Africa's economies and financial policies were more attuned to the continent's everyday realities.

Increases in urbanization further compact the grim realities that many farmers face. Over the last 100 years, urban populations have increased by 200%. Today more than 80% of the United States population lives in urban centers. In more populated nations such as China urbanization levels have skyrocketed from 26% in 1990 to nearly 60% today. Consumers in many of these nations are demanding local food at increasing rates and are willing to pay more for it so long as they are confident that the food that they buy was farmed in an environmentally conscious manner and helps to promote job creation and local business. In the United States alone, domestic food sales have ballooned to 12 billion a year recently and are expected to reach 20 billion by the end of 2019, outpacing the growth of aggregate food and beverage sales in the U.S.



Figure 3 - Petunias

As farmers continue with outdated traditional farming techniques including tilling their land multiple times a year before planting seeds, laser leveling, paying teams of workers to operate expensive machinery and harvest their land, the logistical costs associated with managing thousands of acres becomes exuberant and in many instances generates negative economic profits. When this occurs, individuals throughout the food value chain suffer as those that produce food are unable to provide adequately for their families. Growers pay more in taxes in order to bring sufficient levels of food into stores that they ultimately buy.

Africa's largest capital is its land and youth but, with the development of new technologies in the agribusiness sector, large resource intensive crop production is migrating over to smaller more highly productive farms. Torpedopot™ and Agriculture Blockchain want to transform these low yielding farms into a highly profitable agribusiness. The older traditional farm will be converted over to new intracontinental entrepreneurs that can be sold across an exclusive market place,

called the Agricultural Blockchain. These farmers once existed in a micro-economic paradigm, that couldn't pay for workers but now can exist as entrepreneurs who can feed large populations using unemployed youth in Africa.

Government Policies that affect a large percentage of firms, entrepreneurs, employees and communities must include training for farmers. These communities rely on economic activity in the informal agriculture sector are indeed the repositories for indigenous management, entrepreneurial and employment practices. Indigenous refers to practices, knowledge and values that are related to, and grow out of, local and community circumstances. These often stand in contrast to international or global practices, knowledge and values produced by universities and international corporations.³

Torpedopot

Sparked by technological innovation, and prevailing macroeconomic trends the second agricultural revolution has begun. With earth's diminishing capacity to grow food because of desertification, wind and water erosion, natural farming resources disappearing due to global warming, populations and urbanization rates skyrocketing, and consumer preferences shifting towards organically grown and locally sourced foods, an immense opportunity exists for growers to capitalize on emerging opportunities in the agricultural sector. Torpedopot's automated and scalable vertical grow systems reduce the amount of arable land required to grow crops by 100x while decreasing water and nutrient requirements by over 90% per acre. Torpedopot's systems have the capabilities to grow in excess of 3.4 million plants in an area the size of a football field and deliver returns to farmers in excess of 50% IRR for an array of crops that generate global revenues in excess of USD 300 billion annually. In the next five years, Torpedopot™ will become the leading provider of outdoor and outdoor vertical farming solutions.



Figure 4 Tomatoes growing for eight months with no human intervention - 16ft wide

³ UNDP (2007) 'The Youth of Africa: A Threat to Society or a Force for Peace?' Geneva Declaration on Armed Violence and Development. New York: UNDP

Torpedopot™ is the premier market leader within an array of agricultural and aggrotech sector globally. The highly efficient, and eco-friendly vertical farming solution provided by Torpedopot™ is unlike any other vertical growing solution on the market today and is poised to change the face of farming and home gardening forever, through its use of patented connective self-watering devices that are fully automated. Torpedopot™ customizes every user's growing experience, it is possible to produce in excess of 3.4 million plants in the area the size of a football field and realize farming returns that far surpass any available through the use of traditional or new-age farming techniques.

Through the use of Torpedopot's self-watering planters, plant's root systems optimize capillary action to deliver the most optimal level of nutrients and water needed to every one of your plants to allow quick and abundant yields and super-sized growth to be achieved that will continue throughout the typical growing season and even after the first frost has hit. With Torpedopot's vertical growing

system you have the ability to grow up to 100 times the amount of fresh fruits vegetables, herbs, and other plants, inside of the same growing area as traditional farming techniques.

Torpedopot™ dramatically reduces the high level of variable costs associated with traditional farming methods outdoors as well as new-age hydroponic, aquaponic, and aeroponic techniques indoors. By implementing Torpedopot™ in gardens, the cost associated with hundreds of dollars of gardening equipment including shovels, rakes, spades, hoes, trowels, tractors, and other associated equipment is eliminated. On a much larger scale, in industrial farming applications, the costs associated with managing hundreds to thousands of acres of farmland.

the need to laser leveling, tilling the land multiple times per season, air injection seed planting, cultivating with large tractors over thousands of hours, and the cost to irrigate, fertilize, and apply pesticides and fungicides are all virtually eliminated.



Figure 5 - Kale for Breakfast

Through the use of its current catalog of farming and gardening solutions, and the improved and value-added revolutionary solutions, Torpedopot™ will revolutionize and enhance the food supply chain across all dimensions. Furthermore, Torpedopot™ will naturally remediate hundreds of billions of dollars in ecological damage occurring each year due to nitrogen runoff from traditional farming techniques and will conserve trillions of gallons of fresh drinking water while providing a means by which the world can feed itself with dignity.

The markets that Torpedopot will impact the most in coming years are small and large scale farms that grow predominately fruits, vegetables, and herbs, as well as nurseries and landscaping professionals and a host of other diversified agribusinesses worldwide. Our highly efficient dynamic self-watering vertical planter will disrupt each of these markets while attaining and maintaining a significant market share and competitive advantage in each.

Torpedopot™ is in the business of eliminating food deserts and feeding the world. It has achieved high levels of success at a local level by supplying hundreds of pounds of food to the community from its garden in South West Philadelphia. Torpedopot™ will expand its efforts to include other U.S. cities in the United States as well as nations that are experiencing food insecurity challenges. Furthermore, Torpedopot™ will continue building strategic relationships with small- and large-scale farmers alike as well as nurseries and cannabis growers to facilitate a reduction in variable costs, increase yields, and help them become

premiere market leaders within their industries.

Applications

Torpedopot™ will generate business from a well-diversified set of customers. These customers will include but not limited to government entities, small and large-scale farmers, gardeners, cannabis producers, greenhouses, and nurseries. Governmental agencies are negotiating terms for subsidizing Torpedopot's growing capabilities to lower annual spending on assistance programs that provide food to those in need while at the same time achieving land management goals by transforming empty lots into beautiful gardens. Small- and large-scale farmers will gain access to parcels of land that helps them gain significant market share over their competitors. Cannabis producers, greenhouses, and nurseries will be enticed by Torpedopot's ability to grow



Figure 6 - Torpedopot can grow as high as 100ft

more plants per unit area, in a controlled space that is not impacted by environmental conditions. Torpedopot is a modular solution that's fully automated and provides growers with substantially lower variable costs and increase yields. One of Torpedopot's most significant advantages is its ability to grow plants anywhere as plants and root systems remain well protected in a controlled environment. For this reason, Torpedopot™ will aim to aid disaster recovery relief organizations globally when tragic events occur, and help affected areas to rebuild their food chains more quickly and effectively than ever before.

Products and Services

Torpedopot

Click on the picture to see Torpedopot in action



[52 Eggplants](#)



[Salad for 100 people](#)



[20 Squash](#)



[Chamomile Tea](#)

Torpedopot™ offers multiple product lines, its curved series planters, hanging baskets, and vertically growing solutions. The curved series planters allow for automated growing to take place in curved pots that range from 9" to 25" in diameter. These curved planters provide a base for Torpedopot's other product line, the Torpedopot™, which consists of a curved series planter with a vertical growth piece fastened to the center bottom part of the pot, the "torpedo" which ranges in size from 2ft to 100ft. All products are easily assembled and possess the capability to be linked to one another by microhoses that make use of push in fittings and are easily attachable and detachable. It takes minimal amounts of time to set up any one of Torpedopot's products and virtually no time to monitor plants throughout the season after set up is complete. Set up consists of merely adding dirt and seeds, connecting an ordinary garden hose or a solar powered pump, turning the flow control valve on to allow water to flow into the pot and harvesting the yields.

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Our vision is to feed the world by giving every person an equal opportunity to produce nutritious foods for a balanced diet. We believe our watering technology will provide people with the ability to control what they eat. Everyone should have an equal opportunity to feed themselves with dignity. This implies that sufficient quality food must be made available, such that an average person has the means to access it, and that the food meets the individual's dietary needs. Our self-watering planters set a new standard for gardening. Torpedopot™ gives everyone an equal chance of controlling their food supply and consumption and an equal opportunity to feed themselves with dignity. Torpedopot™ can be used in areas where there is no backyard. You do not need fancy gardening tools. One Torpedopot™ can grow hundreds of plants. 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 Torpedopot™, it will sell itself. You can grow exotic plants or feed your family in a time of crisis.

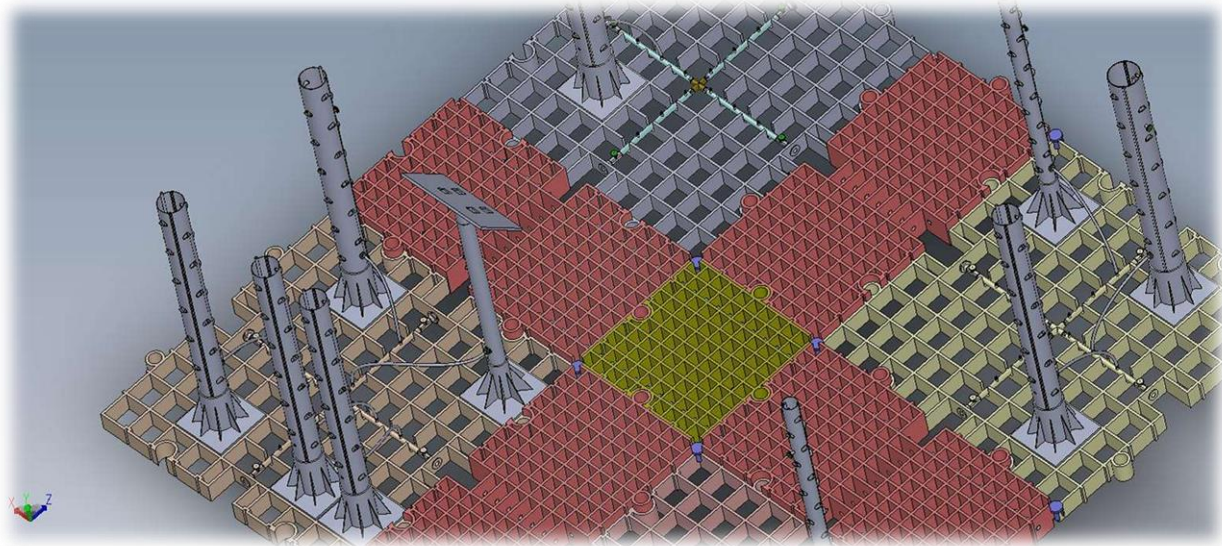
Modular Grid System (MGS-01)

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 complement your existing food chain. The Modular Garden System is used as a foundation for setting up a small food processing facility for processing 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 Modular Garden System (MGS-01) can feed a small family for a year, or it can be expanded to provide enough food to feed an entire city. 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 and more can easily be added to grow in excess of 3 million plants in an area the size of 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
- Can feed large amounts of people in a short period of time
- Is the cheapest growing solution in the world and requires no tools
- Can be used to rebuild entire food chains when a disaster strikes
- Used Quickly build the world largest indoor/outdoor food processing facility
- Cost is substantially less and produces more food than hydroponics or traditional gardening systems
- Torpedopot™ can grow up to 3 million plants in under three months



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

Vs other systems hydroponics

- Unlike hydroponics you don't have to worry about mold or algae buildup. In the Vertical Garden Grid System water is constantly available and made available on demand.
- Hydroponics requires that you ruthlessly adjusting temperatures to accommodate for environmental changes. Changes in temperatures and changes in the environment has little effect on the Vertical Garden Grid System.
- Hydroponics may work well in a million-dollar facility where you can constantly tweak humidity, temperature and pressure or a power outage can destroy your operation.
- Don't have to rely exclusively on expensive fertilizers. You can supplement the other natural ingredient, soil.

Modular Garden System (MGS-01) allows you to grow millions of plants in a small area. The Quad-Base solution allows you to create more stability for the larger torpedoes that are six-feet and taller, and allows more space for specialty plants that do a lot of branching (tomatoes). The Single-Base solution allows you to maximize your growing area, while the Quad-Base focus is on quality.



You can add as many as 48 Single-Base Torpedoes to every grid in the system. 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 over 3.5 million plants. You can mix Torpedoes across multiple grids, rotate crops, cross-pollinate. The Vertical Garden Grid System give you the power and the technology to determine apply your customized solution, instead of you having to limited to a specific technology. 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. Utilizing the water network, plants can be fertilized from any location in the Vertical Garden Grid System and have it extend to the remaining grids.

Any grid can be isolated from the network and not have a detrimental effect on the remaining grids. Nutrients can be localized to one grid or a group of Grids in the network. by isolating it from the grid system. Or you can use the manifold in each grid to supply nutrients. There are so many points of entry to

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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.

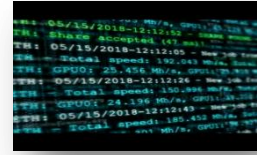
You can expand your Vertical garden matrix based upon the demand. Torpedoes can be added to the network in less than a minute. Simply take the Torpedo base and slide it into the grid, slide the torpedo into the base and attach the hose from the Torpedo to the manifold and you are ready to grow.

- Requires less space- You can grow more plants with less space using fewer resources than hydroponics or any advanced gardening system.
- The Vertical Garden Grid System will grow your plants for you. Just set the flow control and walk away! Better yet, come back from vacation to collect your harvest.
- No Backbreaking Work: No tilling, hauling soil, running underground water lines, laying down tarp or building planter boxes. Retire your trowel. The Torpedopot requires less than 1 bag of soil.
- No Tools: The Vertical Garden Grid System is a giant Lego set. Just snap the parts in place, and you are ready to grow.
- Excessive Watering: Automatic watering system that directs water to your plant's root system, not back into the air.
- Save Resources: Water, Fertilizer, pesticides (synthetic or natural),
- Reduces Pollution: ground water runoff, poisoning drinking water, ecological changes
- Can grow almost anything Plants: plants or seeds
- No Structure: Space to grow, cages, coverings, fences
- Dismantling - The Vertical Garden Grid System can be easily dismantled in smaller sections for storage.

[Agricultural Blockchain - \[Www.AgriculturalBlockchain.com\]\(http://www.AgriculturalBlockchain.com\)](http://www.AgriculturalBlockchain.com)

Agricultural Blockchain is specifically designed for the African environment. It gives Africa the platform to create their own global marketplace as a unified front. Agricultural Blockchain will become the largest agriculture alliance in the world. It uses predictive analytics to provide enhanced visibility into the agricultural sector, so that economist can predict food shortages and adapt to changing weather conditions. Agricultural Blockchain is expected to feed more people than any organized humanitarian effort in the history of the world, but without wasting billions transporting food across roads, bridges, and dilapidated infrastructure. We can help reduce your carbon footprint by fifty percent in less than 25 years. Global warming will minimally impact Agriculture Blockchain because It utilizes Torpedopot™ patented technology that can grow 500% more food than hydroponics or traditional gardening. Agriculture Blockchain will produce more food year-round using less water, fertilization, and soil than traditional gardening or hydroponics.

[Click on the picture to see the videos](#)



Agricultural Blockchain is a voluntary conscience effort to optimize the relationships between communities, technology, agriculture, health, and economics. With Agricultural Blockchain you can:

- Create Smart Contracts with built-in compliance that can be executed using a Smartphone
- Birth millions of new high yielding profitable farms
- Create an exchange that connects buyers with sellers using one global ledger
- Eliminate food deserts in less than three years
- Drastically slash government expenditures on social services
- Generate new sources of revenues for governments
- Save growers 6 billion dollars a year in unnecessary global transactions
- Save billions in food waste that's sitting idly on aged infrastructure
- Reduce your carbon footprint

Urban agriculture is a dirty job! To be successful at it you must get commitment from individuals and community groups, as well as private and public backing. In addition, you must put together a strategy that includes developing policies, appropriating zones, creating subsidies, and providing incentives. It was once assumed that urban agriculture was performed mainly by the poor, uneducated, and unemployed men and women in urban squatter areas. However, recent findings show that those involved in urban agriculture comprise a complex mix of socioeconomic groups from various backgrounds.

No urban garden program, policy, or plan can work without an understanding of the stakeholders involved in this complex social economy. An estimated 70% of the world's food comes from small, isolated farms that are no bigger, on average, than 2 acres. Currently, an overwhelming percentage of small scale urban gardens operate in an alternate financial universe. They can't sustain themselves with sales, nor do they have sufficient funds to pay employees. Torpedopot™ wants to change that. From low-income needs based farmers, agribusinesses, middle-income home gardeners, high-income entrepreneurs, farmers'

associations, and cooperatives, Torpedopot™ believes that each stakeholder has the potential to play an integral role in the Agriculture Blockchain.

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Lettuce

400 Parschulaca

400 Cabbage, Endives and Romaine

Torpedopot's patented technology can make more efficient use of household spaces, backyards, patios, walls, rooftops, basements, window-sills, and indoor areas. Torpedopot™ can also accommodate large farming initiatives as well as provide substantial profit incentives for mass food production. Torpedopot™ believes that each of the urban agriculture's components - production, processing, and distribution is linked to a variety of economic benefits. Torpedopot™ is taking a synergistic approach to agriculture and wants to collaborate with agricultural segments to develop a solution that will substantially increase revenues, provide healthy food to all of its citizens, create jobs and opportunities, boost morale, invigorate local businesses, and create hope.

Oneness is when an entity voluntarily commits their essence to another existence. Harmony is a conscious effort that is derived, not imposed. Our Agriculture Blockchain has been designed to harmonize agricultural communities. Agriculture Blockchain is a voluntary conscience effort to optimize the relationships between the local community, technology, agriculture, nutrition, and economics. Torpedopot is adopting a collaborative approach that will generate synergies with public agencies, private organizations, and institutions to create new and continuous sources of revenues.

Our strategy and long-term marketing program are focused on creating an African agriculture alliance that will attract new business to stimulate economic growth. The Agriculture Blockchain will transform abandoned parcels of land into beautiful high yielding gardens while improving the health of its citizens and reducing dependency on water and eventually soil. We hope this overview provides a clear path and set clear objectives about how we intend to nurture the Agriculture Blockchain.



People, governments, and businesses that purchase Torpedopot™ automatically become a part of a global network of food producers. Each contributing node has their unique public and private keys. With the proper access, they can log their produce into the system to buy and sell globally. Our network software allows these entities to buy, sell, barter, auction or contribute food across the network. Inventories are visible to everyone on the Agriculture Blockchain. Businesses, charitable organizations, government agencies, around the world can join the Agriculture Blockchain to buy, sell, or barter commodities. The Agriculture Blockchain has the potential to be the largest urban-based agriculture community in the world. The Agriculture Blockchain works as if it were a living organism. The Agriculture Blockchain uses analytics to provide enhanced visibility in the process so that growers can predict shortages and allocate specific nodes to grow foods that provide the most revenues or that can bridge the gap for nutritional deficiencies. Agriculture Blockchain's economies of scale will significantly reduce operating cost and yield unbelievable purchasing power. We have an opportunity to redefine the industry.

Urban Agriculture

Urban agriculture is both a bottom-up and a top-down endeavor: it requires action, organizing and commitment from individuals and community groups, as well as corporate and public backing through supportive policies, appropriate zoning, financial support, and incentives. It was once assumed that urban agriculture was performed mainly by the poor, uneducated, and unemployed men and women in urban squatter areas. However, recent findings show that those involved in urban agriculture comprise a complex mix of socioeconomic groups from various backgrounds. New useful agricultural technologies must be developed to accommodate the complex mix of this new landscape.

Torpedopot™ can make more efficient use of household spaces: backyards, patios, walls, rooftops, basements, window-sills, and indoor areas. Torpedopot™ can also accommodate large farming initiatives as well as provide substantial profit incentives for mass food production. The urban agricultural community is very fragmented. No urban programs, policy, or planning can work without an

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understanding of the stakeholders involved in this complex social economy. Currently, an overwhelming percentage of urban African gardens operate in an alternate financial universe: they don't sustain themselves with sales, nor do they have to pay employees.

Torpedopot™ wants to change that. From low-income needs based farmers, agribusinesses, middle-income home gardeners, high-income entrepreneurs, farmers' associations, and cooperatives, Torpedopot™ believes that each stakeholder has the potential to play an integral role in the city's food strategy initiative. Torpedopot™ believes that each of the urban agriculture's components - production, processing, and distribution is linked to a variety of economic benefits. Torpedopot™ is taking a synergistic approach to urban agriculture and wants to collaborate with government agencies and agricultural segments to develop a solution that will substantially increase revenues, provide healthy food to all of its citizens, create jobs and opportunities, boost morale, invigorate local businesses, and create hope.



Our Agriculture Blockchain platform utilizes multiple software modules that are layered to function under the Agriculture blockchain umbrella. Our software is designed to allow seamless transactions across the Agriculture blockchain. For many of the poor, access to healthy foods is cost prohibitive. For centuries cities have played an integral part in subsidizing food for their residents. However, thanks to a confluence of pressures such as rising fuel prices, a nostalgic desire to re-connect with natural foods, new awareness food contaminants, and the effects of chemicals on our environment, access to healthy food are quickly becoming out of reach.

Many people who live in industrialized areas don't have the means to travel for nutritious food. The lack of access makes them at a higher risk for significant health problems. When you take into consideration crimes that are committed because access to food is severely limited the situation can quickly spiral out of control. Not having an effective food strategy in place will ultimately cost regions millions of dollars in lost revenues. Not only will people spend outside the area for quality foods, but by not having an effective food strategy in place can lead to mismanagement of much-needed resources such as land and water. The Agriculture Blockchain utilizes three powerful front end interface applications (Hunger Portal, Food Bank Portal, and Grower Portal) that will have a significant impact on the agriculture landscape .

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Hunger Portal

Hunger software - Enables everyday people to log on the software to search for food. Once registered and validated, any person who is in need of food can log into Torpedopot network and search for entities that can provide food. There are no fees or cost associated with the process. It is a charitable service provided by Torpedopot™. Sharing food is a voluntary effort. Personally identifiable information about the provider will not be disclosed to the recipient, until the provider makes it visible.

The provider can allocate inventory for acts of kindness which the requestor can see and accept.

Each provider will receive an icon in the form of a merit attached to their account, signifying their support for the community. Merits are tracked to provide insight into food distribution analytics. The more generous acts of kindness they have generated, the greater the merit. Acts of kindness are posted to the ledger. This information is tracked for tax purposes. The Agriculture Blockchain has the potential to reduce crime.

Food Bank Portal

About 1 in 7 people rely on local aid programs, such as food banks to survive. Food banks can be small operations serving people spread out across large rural areas to very large facilities that store and distribute many millions of pounds of food each year.

Our Food Bank Software eliminates waste in the system. The Food Bank Portal matches donors with non-profit organizations. This software unit allows food banks to gain access to much-needed food. Sharing of food is entirely voluntary. Food banks can put in a request to agricultural providers for foods. This eliminates waste in the system. If food is close to the end of its shelf life, it can be pushed out to local food banks, shelters and meals programs. Food banks can only see the inventory that is made available. Torpedopot plans to drastically slash government expenditures across the board.

Grower Portal

Torpedopot™ Grower Portal - Matches growers to grocery stores, catering companies, restaurants, and corporate cafeterias. Grower software allows low-income needs based farmers, agribusinesses, middle-income home gardeners, high-income entrepreneurs, farmers' associations, and cooperatives to showcase their products and services. Torpedopot™ Grower Portal provides visibility into each participant's inventory. It provides complete visibility and tracks inventory. The software knows when demand is high and when to prompt grows for more food. The Agriculture Blockchain is built on numbers. Our award winning analytics allows sellers and buyers to develop customize reports. They can create their own template for collecting analytics.

Torpedopot™ Grower Portal automatically adjusts planned inventory levels with every order and routes each shipment from every urban garden to a central warehouse. The system can be set up to include precise costing, freight, and duty for landed costs, fees, and sales taxes. Each urban agricultural manager can allocate products to restaurants and local stores and include discounts for loyalty programs and promotional pricing, or pickup.

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Employment

Torpedopot™ is in the business of economic sustainability. Small scale agriculture is the developing world's single biggest source of employment, and with the necessary support it can offer a sustainable and productive alternative to the expansion of large-scale, capital-intensive and labor displacing corporate farming. This, however, assumes a generation of young rural men and women who want to be small farmers are given tax free zones to encourage growth and incentives to build businesses. Once the businesses are established the government can enjoy new streams of tax revenues. These are just a few types of jobs that are expected to be created as a result of using Torpedopot™ technology.

Torpedopot is striving for full employment. Generally, for every traditional job which has been eliminated, technology experts tell us that 2.61 new jobs have been created in its place. The difficulty is that these new jobs are created in a very narrow area of technology and aren't compatible with the jobs which they have replaced. The amazing phenomenon about the Torpedopot is that it's a major Job creator. Torpedopot will stimulate the economy and cause real economic growth. Growing, processing, and distribution activities will increase the number of jobs to spur economic growth.

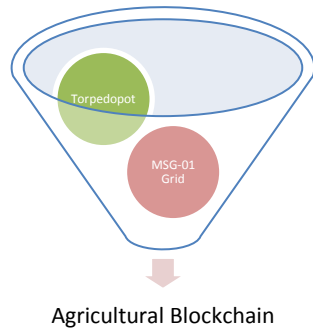
Jobs Created Using Our Growing Technologies	Torpedopot.com	Garden Grid MSG-01	Agricultural Blockchain.com
Grower	√	√	
Small Farmer	√	√	
Agronomist	√	√	
Soil Technologist	√	√	√
Maintenance And Monitoring Technician /Supervisor	√	√	√
Basic Installer	√	√	√
Certified Installer	√	√	√
Weather Monitoring Technician	√	√	√
Disposal Technician	√	√	√
Medium Farmer	√	√	√
Training Instructor	√	√	√
Master Installer	√	√	√
Compliance Personnel	√	√	√
Regulatory Experts			√
Engineers, Developers, Coders. Validation, Designers			√
Telemetry Personnel			√
Project Management			√

Jobs Created Using Our Growing Technologies	Torpedopot.com	Garden Grid MSG-01	Agricultural Blockchain.com
Landscape Designer	√	√	√
lobbyist			√
Manufacturing and Packaging (hundreds)	√	√	√
Research and Development		√	√
Activist to mobilize youth into businesses		√	
Career Counsellors			√
Human Resources			√
Sales, Marketing, Auditing, Accounting,	√	√	√
Manufacturing, Packaging, Shipping	√	√	√
Facilities Utilities	√	√	√
Leasing Company	√	√	√
Storefront Brick And Mortar	√	√	√
Taxes	√	√	√

First, undoubtedly, the share of farming jobs is shrinking. This is normal. As countries urbanize and incomes rise, food expenditures decline as a share of total spending. To help produce these other goods and services, farmers take up jobs off the farm. Yet the process can only be sustained if labor productivity in farming increases, through Torpedopot™ innovation in production as well as better access to markets to sell the surplus.

Technology and the internet are also opening up opportunities for agriculture, and urbanization and changing diets are calling for new ways to process, market and consume our foods. We believe that agriculture can provide job opportunities for our youth.

- Torpedopot™ are Garden Planter System
- MSG-01 are Garden Grid System
- Agriculture Blockchain



Food generated from Torpedopot™ and the MSG-01 Grid System is placed into the Agricultural blockchain for sale to global customers.

Conclusion

With earth's diminishing capacity to grow food because of desertification, wind and water erosion, natural farming resources disappearing due to global warming, populations and urbanization rates skyrocketing, and consumer preferences shifting towards organically grown and locally sourced foods,

Small scale agriculture is the developing world's single biggest source of employment, and with the necessary support it can offer a sustainable and productive alternative to the expansion of large-scale, capital-intensive and labor displacing corporate farming. As farmers continue with outdated traditional farming techniques including tilling their land multiple times a year before planting seeds, laser leveling, paying teams of workers to operate expensive machinery and harvest their land, the logistical costs associated with managing thousands of acres becomes exuberant and in many instances generates negative economic profits.

Torpedopot™ dramatically reduces the high level of variable costs associated with traditional farming methods outdoors as well as new-age hydroponic, aquaponic, and aeroponic techniques indoors. Torpedopot™ will revolutionize and enhance the food supply and reduce your carbon footprint. Once businesses are established the African government can enjoy new streams of tax revenues.