

# Youth, Food, and Refugees Re-engineering African Society



## TORPEDOPOT

Sustainable Growing

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

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# Torpedopot™

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# Torpedopot™

## WOKE

The second agricultural revolution is in our midst. 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 to capitalize on emerging growing technologies.

Torpedopot™ is in the business of eliminating food deserts, feeding the world, and empowering its people. Torpedopot™ has achieved high levels of success at a local level by supplying hundreds of pounds of food to the community from its garden in the City of 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 displaced communities around the globe. Torpedopot™ will 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. 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. Once businesses are established the government can enjoy new streams of tax revenues. These are many types of jobs that are expected to be created as a result of using Torpedopot™ technology. Feeding people without giving them the tools to feed themselves is a recipe for dependency. Torpedopot™ provides growing technologies to refugees to help them rebuild their lives.

## Problem

While progress in eliminating extreme poverty has been made in the recent past, the World Bank reports that more people live in extreme poverty in Brazil than anywhere else in the hemisphere.

- **Economic Growth** - The most effective way to reduce extreme poverty is to accelerate inclusive growth.
- **Health** - Efforts to address disease and improve public health target the symptoms of and pathways out of poverty and are essential to peace and security, economic growth and development.
- **Education** - The difficulty in obtaining a quality education in many countries presents another challenge to economic growth and reducing extreme poverty
- **Trade** - Increasing trade regionally and internationally is essential for stimulating sustainable economic growth
- **Agriculture** - There is a continuing need to accelerate economic growth by boosting agricultural productivity and output.
- **Resilience** - Strengthening resilience is an essential component of development because it reduces disaster risk, strengthens natural resource management, mitigates conflict, improves health outcomes and expands economic opportunities for vulnerable populations.
- **Water** - Brazil has the high proportion of people without adequate sanitation facilities and the low levels of drinking water coverage in the world.
- **Climate Change** - Brazil is one of the most vulnerable continents regarding climate change.
- **Biodiversity** - The world is losing floral and faunal species at a rate that is 100 to 1,000 times faster than natural extinction rates, and the extent and health of natural habitats continue to decline globally.
- **Gender** - Gender inequality and extreme poverty frequently occur in tandem. Countries with above-average gender inequality have higher extreme poverty rates than countries that are more gender equal.





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By 2030 - Almost half of the world's poor are expected to live in countries affected by fragility, conflict, and violence, accompanied by the largest number of refugees and displaced persons since World War II.

## Solution

Torpedopot™ is looking to have your country establish itself as the epicenter for sustainable agriculture. Torpedopot™ would like Fortaleza to become a partner.

- Torpedopot™ agricultural products can grow the economy
- Torpedopot™ can provide a balanced and nutritious meal, for everyone.
- Usher a new era of technologies for colleges and schools
- Increases trade and cultural awareness across Brazil
- Substantially increases agricultural productivity
- Minimize the impact of droughts, floods, and climate change
- Create new plant varieties and biodiversity

New technology creates new gender roles for woman

## Science

Torpedopot™ is a containerized self-growing gardening system with a built-in fully automated pressurized plumbing system that waters your plants for you. Just add soil, seeds, or seedlings, turn on the self-growing planter, and walk away. One house has the ability to produce twenty-one thousand tomatoes from one watering source. W[www.Torpedopot.com](http://www.Torpedopot.com) is an Automated Organic Growing system that can grow the following food in under 20 ft

- [Seven hundred tomatoes](#)
- [Six hundred pea pods](#)
- [Two thousand peppers](#)     [and still growing](#)
- [11 pounds Lettuce](#)
- [100 Eggplants](#)
- [4 lbs chives in 16-inches](#)
- [42 Cucumbers in 5 feet](#)





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Target small farmers and local households Many governments are unaware of the contribution of the informal economy, particularly the high involvement of women. Torpedopot's patented technology can make more efficient use of household spaces, backyards, patios, walls, rooftops, basements, window- sills, and indoor areas.

## Why it works

Our modular growing systems are handcrafted. Unlike traditional planters, our unique design eliminates toxic chemicals from leaching into your food supply and poisoning your plants. They provide enhanced eco-friendliness throughout your plant's lifecycle. The planter's unique formulations and molding process inhibit mold and fungus from multiplying in your environment. The connectors and distribution lines are formulated to resist degradation from mildew, algae, fungi, and biofilm. As a result, organisms can't accumulate on the walls of your planter and kill your plants. These precautions virtually eliminate degradation, foul odors, microorganisms, and discoloration. The system has a built-in plumbing network that can manage hundreds of planters from one water source. You can easily connect and disconnect plumbing with 100% cleanliness and ensure that your connections seal and grip the first time. Torpedopot connections are hermetically sealed to virtually eliminate water leaks. The connections have high chemical resistance to organic supplements and synthetic fertilizers and are acceptable for food and drug (Cannabis) grade applications. The unit is rated to withstand pressures from everyday household use. From one water source, you can connect as many as 300 planters, thus producing more food than your local farm but without having to water, weed, and buy expensive tools and growing chemicals. The planters are spatially designed to eliminate dead spaces where bacteria and unwanted organisms can grow. Torpedopot ensures every plant receives equal exposure to light, water, and nutrients.





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## How it works

Don't let our simplicity fool you! Our standalone lightweight modular mobile growing systems can be operated by a child in an elementary science class but when networked, are powerful enough to produce millions of pounds of food to feed a city. Torpedopot creates a healthy environment for your plants. Excellent soil is the result of a sustainable environment where organic matter can rapidly decompose to make nutrients available to the microbes in the soil to build your plants. Soil microorganisms include bacteria, fungi, protozoa, nematodes, and many other life forms that make up the soil food web. These organisms and optimal environmental conditions are responsible for reducing organic material that's used for growing your plants. In return, plants create sugars that attract beneficial organisms to build millions of organisms in the soil. In short, the balance of inorganic and organic matter promotes microorganisms that make nutrients available to your plants. Torpedopot is an organic growing system that extracts nutrients from the soil and makes them readily available to your plants. Torpedopot allows you to grow using organic supplements or synthetic fertilizers. We prefer organic soil because synthetic fertilizers deactivate the metabolic processes in the soil.



Synthetic fertilizers open the pores of the plant's root system to inject nutrients. It is like an artificial source of nutrition that's delivered as a drug. Synthetic fertilizers target plant root systems and disable microorganisms in the soil from interacting with plants. Organic environments host microorganisms and allow living organisms to transfer the nutrients needed to create nutritious food and healthy plants. The inline plumbing system transfers water and nutrients through the self-growing planter directly to the plant's root system. The process is highly efficient. Torpedopot promotes phenomenal growth. The inline watering system keeps the soil canopy at a constant optimal moisture level for promoting seed germination and bioactivity.



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## Amazing benefits

There is a war taking place underneath your feet. Organisms are fighting for dominance. Just like ants, microbes will travel great distances to feed on plants. This constant warring makes it difficult for the plant to remain healthy. It spends most of its vitality struggling to optimize the right growing conditions. Most growing environments prohibit plants from thriving and expressing their vibrant colors and complex behaviors. Most soils and growing containers are toxic to plants. Unhealthy scraps from table food contain synthetic fertilizers that prevent the soil's microbes from building your plants. The plant is trying to create a sustainable environment, and the microbes in the soil are trying to break down the table scraps. All this activity stresses the biotic environment and makes it toxic. Torpedopot protects plants from poisonous atmospheres. It gives plants and microbes the space to heal and create a Sustainable Biotic Environment (SBE). Our technology gives your plant the tools it needs to create a sustainable biotic environment. Torpedopot™ scheduled watering ensures that your plant's habitat is not too wet enough to drown the plant and wash away the biotic environment and not dry enough to dehydrate plants and cause them to collapse. Torpedopot™ allows you to create optimal decomposition conditions and provides a space for plants so they can choose which microbes it wants to harvest. Torpedopot™ focus is on improving the biological and chemical processes in the soil that affects plant productivity, thus increasing yields. Torpedopot™ isolates an environment for your plants to develop their microflora.

## Refugees

You are in an excellent position to change how people perceive refugees. Most people believe that refugees drain society of vital resources that are suppose to be allocated to citizens and because they don't contribute to commerce, could potentially have a negative impact on the economy.





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Torpedopot™ wants to inform you and associated refugee about a profitable partnership. Torpedopot™ is in the business of developing sustainable food strategies that generate new sources of revenues, full employment, agricultural independence, and food security Torpedopot™ wants to enter into a global compact with you to improve the international response to existing refugee situations. Our ultimate goal is to ensure that refugees and the people hosting them can live in engineered harmony.



Torpedopot wants to help refugees become more self-reliant so that they can contribute to the overall economy of the host community. What better way to achieve those goals than through food production. With the right growing technologies, refugees can feed themselves and generate economic activity in the host community.

Torpedopot™ has established itself as the worlds first fully automated modular growing system. Torpedopot™ intuitive inline watering design allows plants to grow faster, yield more density per square foot than any traditional or hydroponic gardening system available on the market. The system is ninety-eight percent efficient. Torpedopot has the ability to move water and nutrients through the system in a way that significantly lowers operating costs and provides substantially increased yields for an array of crops.

Using Torpedopot, refugees can feed themselves, generate commerce, and reduce poverty on a massive scale. We want to collaborate with refugee agencies and local agricultural segments to develop a economic growing solution that will substantially increase revenues from multiple sources, provide healthy food to all of its citizens, create jobs and opportunities, boost morale, invigorate local businesses, promote biodiversity, and create hope.

- Torpedopot™ wants to partner with you to convert refugee camps into profitable communities.



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- Torpedopot™ is highly scalable, and the most inexpensive farming solution in the world.
- Torpedopot™ products allow growers to achieve payback periods of less than a year and can generate
- Irrs of between 50-100% across a broad spectrum of crops and herbs.
- Torpedopot™ requires substantially lower up-front capital investments and can be grown inside and outside,
- At sites with polluted soil, non-arable land, on top of the sand in deserts, and in the middle of floodwaters
- Where natural disasters have wreaked havoc on the surrounding landscape.
- Torpedopot™ self-contained growing structures eliminate waste. Inside of Torpedopot™ planters, your
- Plant's root systems form cohesive biospheres that connect and absorb virtually all of the water and nutrients
- That enter into their environment. When using Torpedopot™, there is no wasted water, soil, fertilizer,
- Chemicals, efforts, and space. Everything that flows into the pot gets absorbed by the plant's root systems
- Resulting in stronger and faster-growing plants. Torpedopot™ uses 95% less water per acre compared to
- Traditional farming methods. Surface evaporation is virtually eliminated as water enters the pot and feeds
- Plants roots below the surface of the soil.
- Torpedopot™ allows farmers and gardeners to keep a significantly higher proportion of their crops each
- Year, especially when adverse weather conditions arise. Its versatile structure enables users to move their
- Entire planter or just the torpedo portion to a safe environment at the first sign of adverse weather conditions.
- 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. Torpedopot™ eco-friendly technologies are designed to reduce dependency





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## Farmers

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.

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.

## 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



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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.

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.

## 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,

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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.



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