



## Global **Hunger** Crisis

Well over 800 million people worldwide suffer from food insecurity, lacking access to sufficient and nutritious food. Many regions face seasonal shortages, leading to hunger and malnutrition, while others struggle with food distribution and agricultural challenges.

## Global **Food** security

To address food insecurity, robot and AI-assisted greenhouses that use primarily water could boost mass food production. This would create a surplus for emergencies and support a swift shift to Type One Civilisation and planetary exploration.

**F O O D**  
For All People

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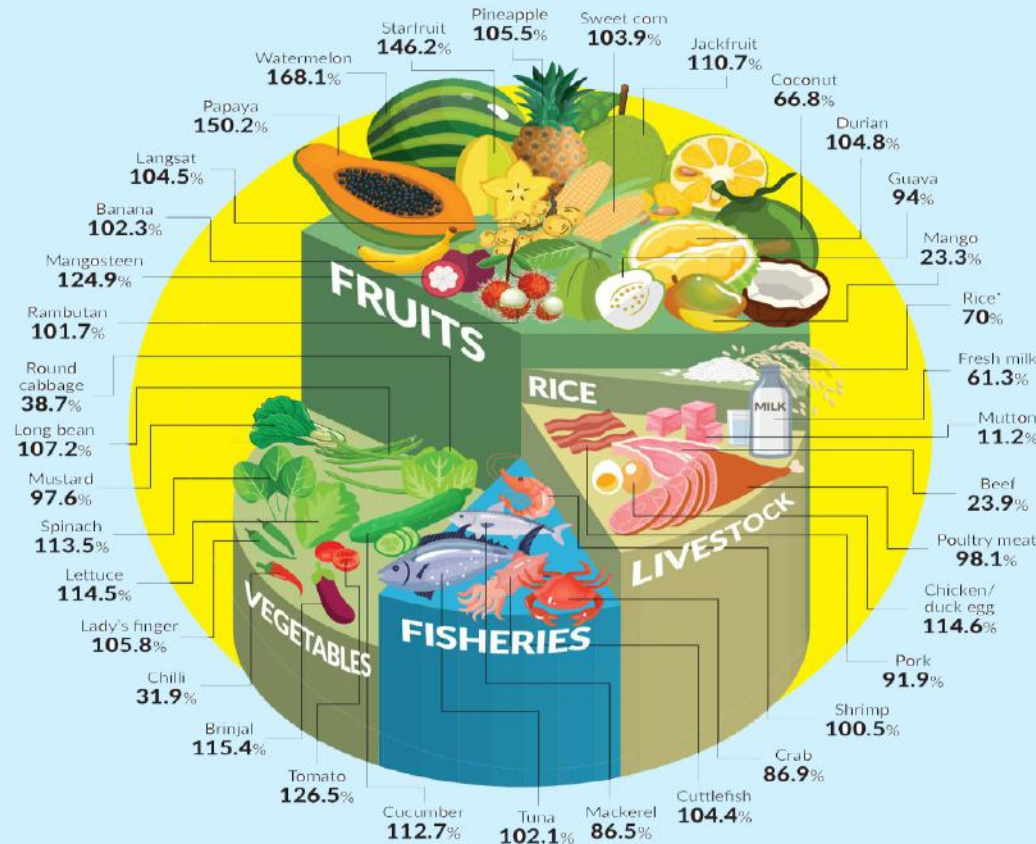




## Self-sufficiency ratio (SSR) 2018

22 out of 36 selected agriculture commodities recorded SSR of more than 100% in 2018.

SSR: The extent to which a country's supply of agricultural commodities meet domestic demands. SSR of 100% or more indicates that production is sufficient to meet domestic needs.



\*Refers to 2017  
Source: Supply and Utilization Accounts Selected Agricultural Commodities Malaysia, 2014-2018 by the Statistics Department (DOSM).

## Food Security, COVID-19 Case study

The COVID-19 pandemic has underscored the importance of global food security, revealing vulnerabilities in supply chains and the reliance on imports in many countries. The initial panic buying and disruptions in food distribution highlighted the need for more resilient and self-sufficient systems.

While food supplies have remained largely stable in many regions, the crisis exposed challenges in moving food from farms to consumers. Government initiatives, including financial allocations for food security and the establishment of national food security policies, are crucial steps forward. However, the dependence on imports for many staple foods remains a global concern.

Moving forward, it's essential to address underinvestment in agricultural research, small-scale farming, and climate change. The development of modern, competitive food production, including vertical farming and resilient crops, is key to ensuring food security, especially in the face of future emergencies and potential lockdowns.

Investments in technology, entrepreneurship, and strategic food reserves, coupled with effective government policies, can help safeguard global food supplies and support long-term international security and stability.





## Food for all people Indoor Smart Farming

To achieve food security, sustainability, efficiency, **lockdown readiness**, environmental friendliness, and locality, and to produce fresh, live crops, fish, and crustaceans suitable to feed the world, and **for space programs**, each prefab stackable block is equipped with the following.

- **Temperature Controller:** This device maintains the optimal temperature tailored for the growth of each crops, fish, and crustaceans per block by balancing hot and cold water supplied by The Hydroloop System.
- **Atmospheric Pressure Control:** This feature adjusts the atmospheric pressure inside the block to mimic the natural environment of the crops.
- **Humidity Control:** This system ensures the right level of moisture in the air, which is crucial for the growth and health of the crops.
- **Dew-Point Control:** This control mechanism manages the temperature at which dew forms, helping to maintain the right level of moisture for the crops.
- **Air Contents:** This refers to the management of the composition of the air within the block, including the levels of oxygen, carbon dioxide, and other gases.
- **Water Control:** This system manages the supply and quality of water, which is vital for the hydration and growth of the crops, fish, and crustaceans.
- **Nutrient Control:** This feature ensures the provision of necessary nutrients for the growth of the crops, fish, and crustaceans.

These features make the blocks scalable, prefabricable, and capable of growing any type of crops, fish, and crustaceans close to consumers reducing long distant transportation, suited for space programs, thereby contributing to a greener and more sustainable future.

## Outdoor Smart Farming

Our outdoor smart farming project is an innovative and sustainable solution that utilizes cutting-edge technologies to combat food scarcity and water shortage in the MENA region and worldwide. Our land is equipped with advanced sensors, drones, and robotics that collect real-time data on environmental conditions, crop growth, and pest infestations.

This data is analyzed using machine learning algorithms to optimize crop yields and minimize resource wastage, thereby enhancing the efficiency and eco-friendliness of our farming practices.

To power our operations, we utilize geothermal energy and the Hydroloop System. This system supplies renewable energy and allows for the adjustment of water quantity, temperature, lighting, and nutrients for various applications. These include cold storage, electricity generation, cooling, humidification, hot water provision, H<sub>2</sub> production and CO<sub>2</sub> absorption. This technology is not only environmentally friendly but also cost-effective, ensuring that we can offer high-quality produce at competitive prices and mass produce the system.

By leveraging these advanced technologies, we can produce more food with fewer resources, contributing to a more sustainable future on a global scale.



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## The World Peace Development Corporate Model Vertical Smart Farming

*First in ASEAN and expandable to South Asia and MENA*



The World Peace Development corporate model is initially being designed for expansion into flood- and drought-prone regions of ASEAN, focusing on sustainable development practices, including prefabrication with local resources and jackable floors to reduce costs. This model is further expandable to South Asia and the MENA region, leveraging innovative technologies such as the Hydroloop System. The Hydroloop System is a clean transportation system that provides water and electricity 24/7, supporting a range of sustainable initiatives, including vertical smart farming.

### **Vertical Smart Farming Overview:**

Vertical smart farming, powered by the Hydroloop System's abundant water and affordable electricity, is an innovative method of growing crops by stacking multiple layers in a controlled environment. This technique maximizes space, increases yield, and is ideal for crops like spices and mint that need specific conditions.

By precisely controlling temperature, humidity, and lighting, vertical smart farming produces healthier crops faster and enables year-round cultivation, reducing reliance on seasonal changes. It is also environmentally friendly, using less water and fewer pesticides than traditional methods.

Integrating vertical smart farming ensures a reliable supply of high-quality crops, meeting the MENA market's needs while supporting the World Peace Development initiative's goals for sustainable, eco-friendly global practices.

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# World Peace Development corporate model

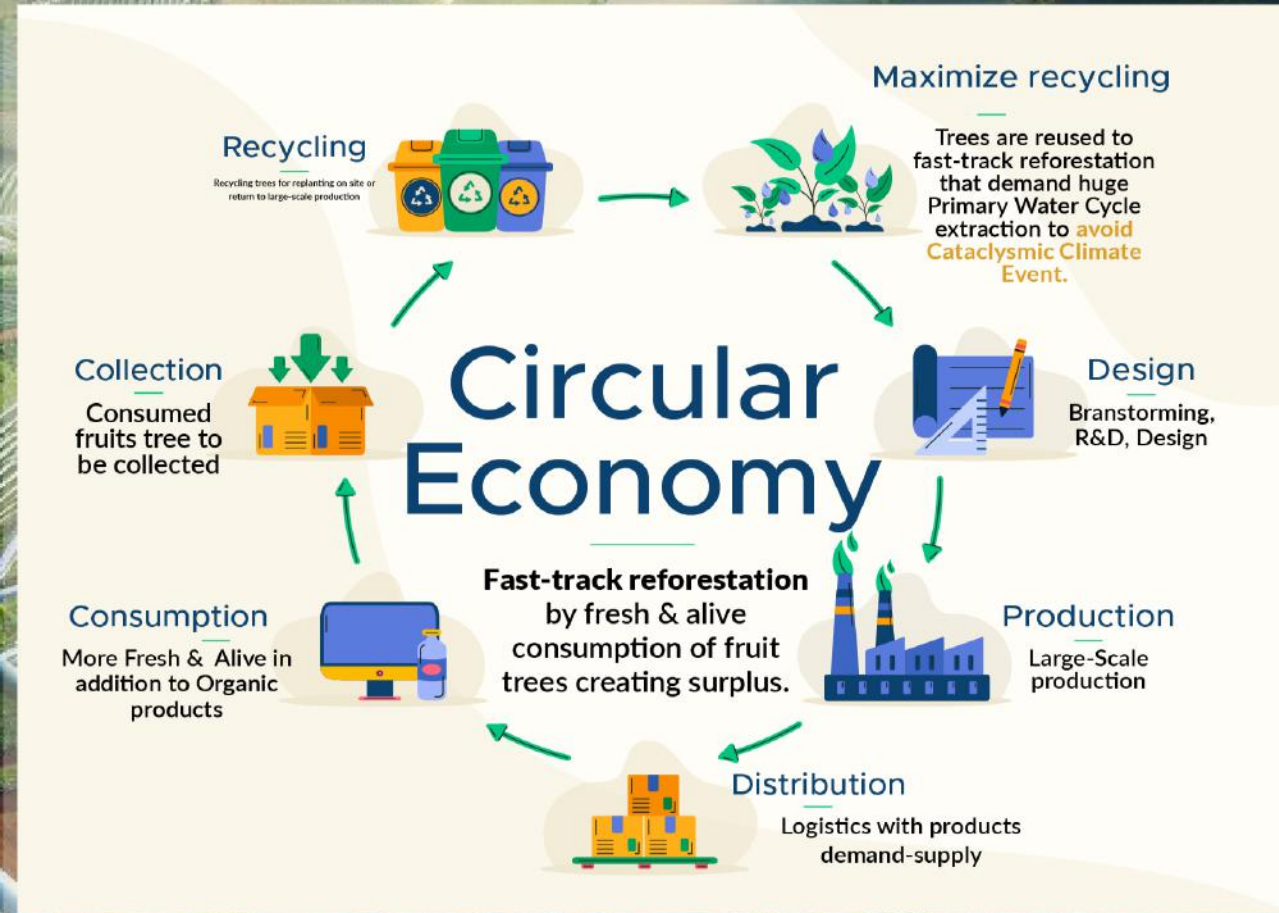
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in partnership between  
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## The World Peace Development Corporate Model Maximising Water Storage and Distribution

*With flood and drought prevention*



Around the world, floods and droughts are significant obstacles to development, trapping people in perpetual poverty, causing enormous financial losses and restrain Type I progress.

## Reducing Flood and Drought Impact

By delivering water from ASEAN 24/7 and year-round globally, storage is created to prepare for sudden rainfall. Greywater can be stored in the top layer, within the less impermeable underground area and groundfloor. This water is designated for agricultural use, lower-quality water demands, and supplying water treatment plants operating 24/7 and year-round. The treated water is used to fill the high-quality water pipe and the surplus top-up the impermeable layer of the aquifers.

To maximize water storage, ground floors in flood-prone zones can be left as temporary water storage areas, allowing for the slow filling of the less impermeable groundwater layer.

The Hydroloop™ System delivers greywater for agriculture and lower-grade water applications, while a separate pipeline supplies high-quality water for drinking and other essential uses, including cataclysm mitigation.

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## The World Peace Development Corporate Model Floating Aquaponics

*Model for flood and drought prevention*



In addition to floods and droughts, daily commutes, pollution, and processed foods are significant obstacles to human health and development, leading to enormous financial losses and impeding progress toward a Type I civilization.

**Eliminating the Impact of Flood and Drought**  
Floating aquaponics systems, integrated with living spaces, offer a solution for local self-sufficiency. These systems enable large-scale smart farming, producing extra fresh, live, and customized to individual dietary needs. This approach minimizes packaging, logistics, and waste, enhancing health benefits while ensuring food security, regardless of floods or droughts. As a result, communities can shift their focus to other pressing issues.

The mobility of floating buildings allows them to be reconfigured for maximum efficiency and minimized commutes, thereby reducing carbon footprint and energy consumption. This adaptability contributes to the broader fight against climate change and pollution, making floating structures a sustainable and resilient option for the future.

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## The World Peace Development Corporate Model Green Skyscrapers

*Accelerating the Net Zero Achievement Goal*



**Scaling up urban agriculture to leverage transformative change, build and maintain resilient and sustainable urban systems and scaling up urban agriculture.**

Green skyscrapers with vertical farming are sustainable urban structures that integrate agriculture into city environments. Powered by the Hydroloop System, they use cheap water and energy, featuring green walls and roofs that improve air quality and reduce urban heat. Plants are supplied by large-scale smart farming and floating greenhouses, fish and crustaceans by aquaponics, allowing them to continue to grow locally and remain fresh. These skyscrapers cut logistics costs, create jobs, and provide fresher produce with less plastic packaging. Additionally, they enhance health and tourism, contributing in floods and droughts prevention, and reduce industrialization costs and waste. With efficient land use, continuous water supply, and fire prevention systems, they offer a reliable, eco-friendly solution and form an integral part of the circular economy for urban food production.

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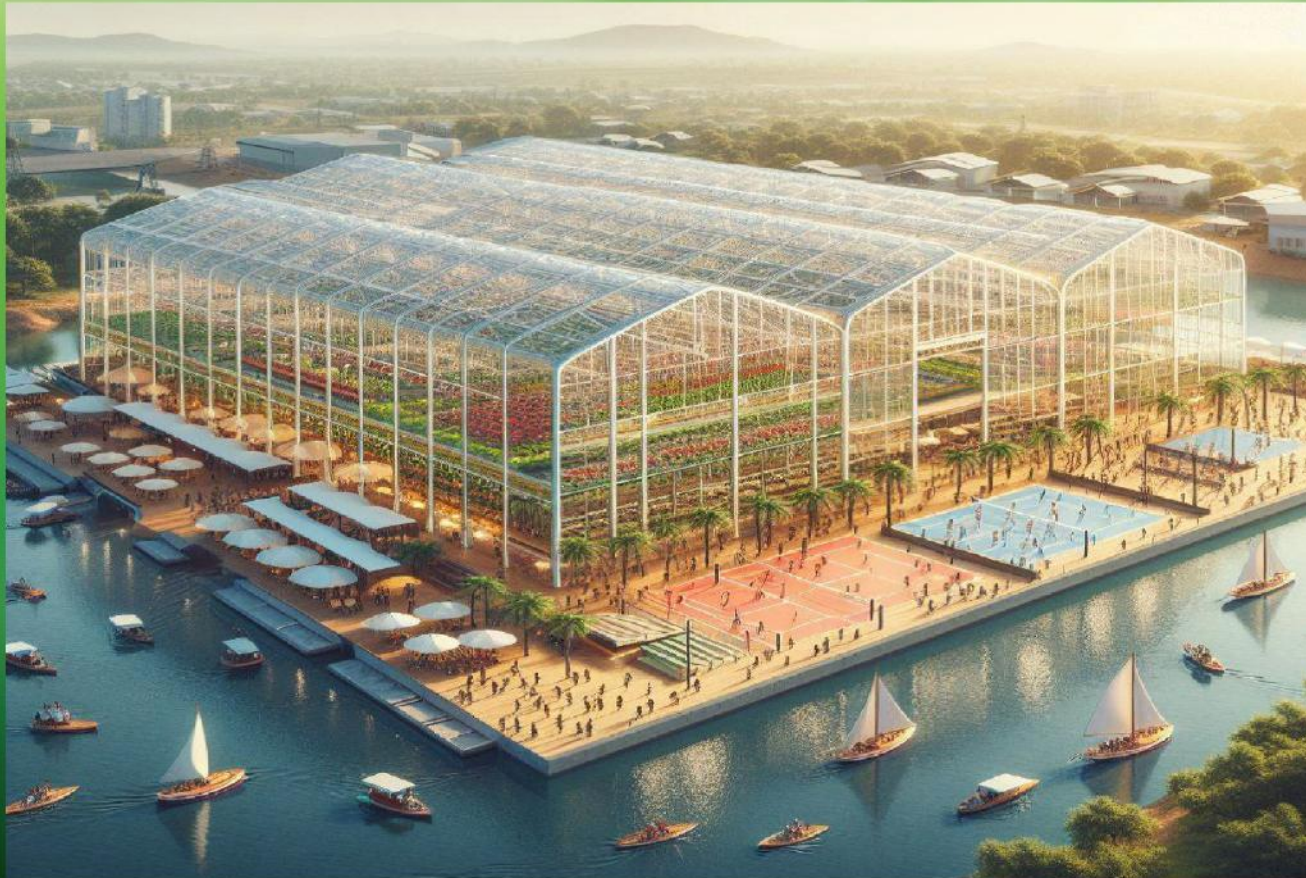
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## The World Peace Development Corporate Model Yearly Exposition

*Showcasing Net Zero Achievement Goals*



## Enhancing Connectivity Through Yearly Expositions: Experience the Bounty of Nature

Organise yearly expositions to showcase the integration of large-scale smart farming, aquaponics, greenhouses, and sustainable technologies to offer visitors a unique opportunity to reconnect with nature.

These events, powered by the Hydroloop System, will create an interactive experience where visitors can explore thriving varieties of crops, pick fresh produce, and participate in cooking classes. The exposition serves as a platform for sharing knowledge and fostering community, blending entertainment with education.

By demonstrating the potential of sustainable farming methods, these events inspire a deeper connection to the environment and promote a more sustainable future.

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## The World Peace Development Corporate Model Food Security Dependencies

*Sectors dependent to Food Security*

Food security is a complex issue that interlinks with numerous sectors that influence food security

- 1. Housing:** Stable housing provides a safe environment for food storage, preparation, and local food production.
- 2. Water:** Essential for irrigation, livestock, and food preparation, reliable water access is critical for food production and safety.
- 3. Energy:** Power is needed for food production, processing, and distribution, with sustainable energy enhancing supply chain stability.
- 4. Education:** Educated communities adopt better farming practices and make informed dietary choices, improving food security.
- 5. Healthcare:** Healthy populations are essential for food production and consumption, while healthcare ensures food safety.
- 6. Justice:** Equitable legal frameworks ensure fair access to resources, protecting the rights of farmers and consumers.
- 7. Job and Employment:** Employment provides income to purchase food, with job security in food-related industries ensuring stable production.
- 8. Climate Change:** Climate impacts crop yields; addressing it is key to maintaining stable food production.
- 9. Sustainability:** Sustainable farming ensures long-term food security by protecting resources for future generations.
- 10. Reforestation:** Helps stabilize ecosystems, maintain water cycles, and support agriculture, enhancing food security.
- 11. Resource Mining:** Essential minerals for fertilizers impact crop yields, but unsustainable mining can harm food production.
- 12. Food and Products Processing:** Extends food shelf life and accessibility but must be done sustainably to avoid waste and preserve nutrition.
- 13. Commerce:** Facilitates food distribution, ensuring access and fair compensation for producers.
- 14. Logistics:** Efficient transport networks reduce waste and ensure timely food distribution.
- 15. Space Programs:** Advance technologies for food production and climate monitoring, supporting food security on Earth for Space Programs.

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