In 2031 an estimated 4 billion people will live in urban centers throughout the world. In China alone, 50% of their 1.65 billion citizens will be urbanites. This dense growth combined with climate change, water scarcity, soil depletion, and diminishing fossil fuels for transportation threatens the food security of the future. Climate change will cause regions which currently provided excellent harvests to decline at an alarming rate due to the extreme weather pattern changes. With no land of their own urbanites will be left with nowhere to turn for fresh local food.

The urban centers of the Asia-Pacific region will be especially pressed for access to fresh local food. Hong Kong for instance, will depend on distant food sources to meet their nutritional needs. Vertical and roof top gardens will supplement only a small ratio of their diets. A radical change in traditional farming methods is clearly needed.
The Migrant Farm is a living garden in the sky. This self-sustaining aerial vehicle directly links the once distant farms with the urban consumer. The Migrant Farm is composed of multiple platforms for farming, dual service elevators, solar panels, and wind turbines. The Migrant Farm stands 130m high and is propelled by 12 electromagnetically powered propellers which run on self-produced energy and have minimal emissions. Like the crops on board, solar panels would collect sun throughout the daytime and while docked the 8 wind turbines would collect wind energy to prepare it for the next energy intensive take off.

Docking directly on residential high rises would allow the residents to have an intimate relationship with their individual Migrant Farm. Platforms could be either communally farmed or individually farmed by a household. This new form of urban agriculture would create a unique experience previously unattainable in dense cities such as Hong Kong.
Real time weather data will allow the Migrant Farms to relocate as the weather condition changes. The ideal growing condition would be realized as the Migrant Farm travels the region in search of the best weather. The migration patterns would be controlled primarily by an automated system in response to the real time weather data but could also be remotely controlled by the residents. This will allow the Migrant Farm to outproduce any traditional farm during times of radical shifts in weather patterns and provide a reliable source of fresh food.

### SEASONAL MIGRATION MAP

Typical migration based on average seasonal temperatures.

- **Winter**: 20-32°F, 50-59°F
- **Spring**: 32-50°F, 59-68°F
- **Summer**: 59-68°F, 68-77°F
- **Fall**: 59-68°F, 50-59°F, 68-77°F

- **Seasonal migration will allow for an annual crop yield increase of**:
  - 250%
  - 300%
  - 350%
  - 200%