

**Accessible Urban
Hydroponic Farming
Solution for the Megalopolis?**

Ralph Becker



Today, 54% of the world's population lives in urban areas, by 2050 66%.

Projections show 2.5 billion people will live in urban populations by 2050
predominant increase in Asia and Africa





Food does not travel well!

1/3 of all trucks on the road transport food or food related products

Outdated and inefficient farm methods



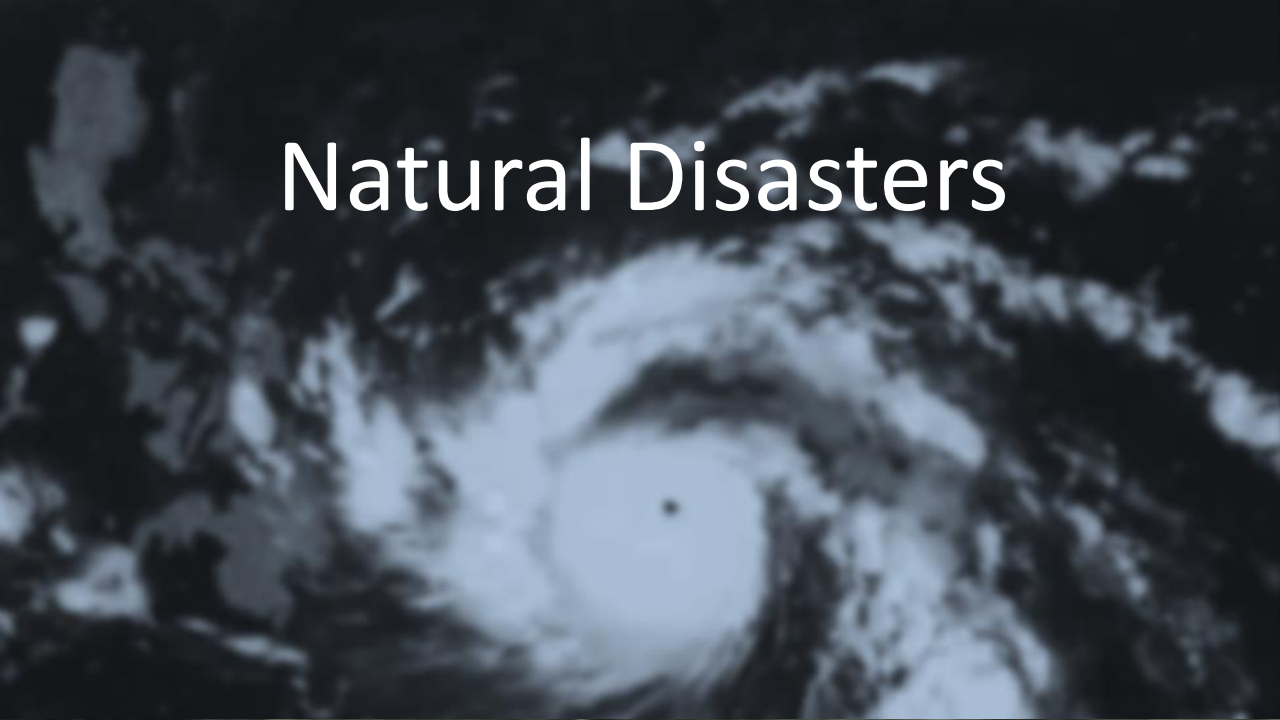
The next typhoon will come for sure



Growing Urban Population



Natural Disasters



Food Mileage



Outdated Farm Methods





Growing Urban Population



Food Mileage



Outdated Farm Methods



Natural Disasters

Grow Urban

- Reduce transport = reduce CO2 footprint
- = reduce cost
- Reduce farm to table = increase freshness
- = increase quality

Grow Efficient

- Reduced water use = save water
- = reduce cost
- Renewable energy = sustainable clean power
- = increase quality

Grow Protected

- Controlled environment = shielded from calamities
- = no pesticides
- = grow all year round

Grow Urban – Grow Efficient – Grow Protected

Urban Hydroponic



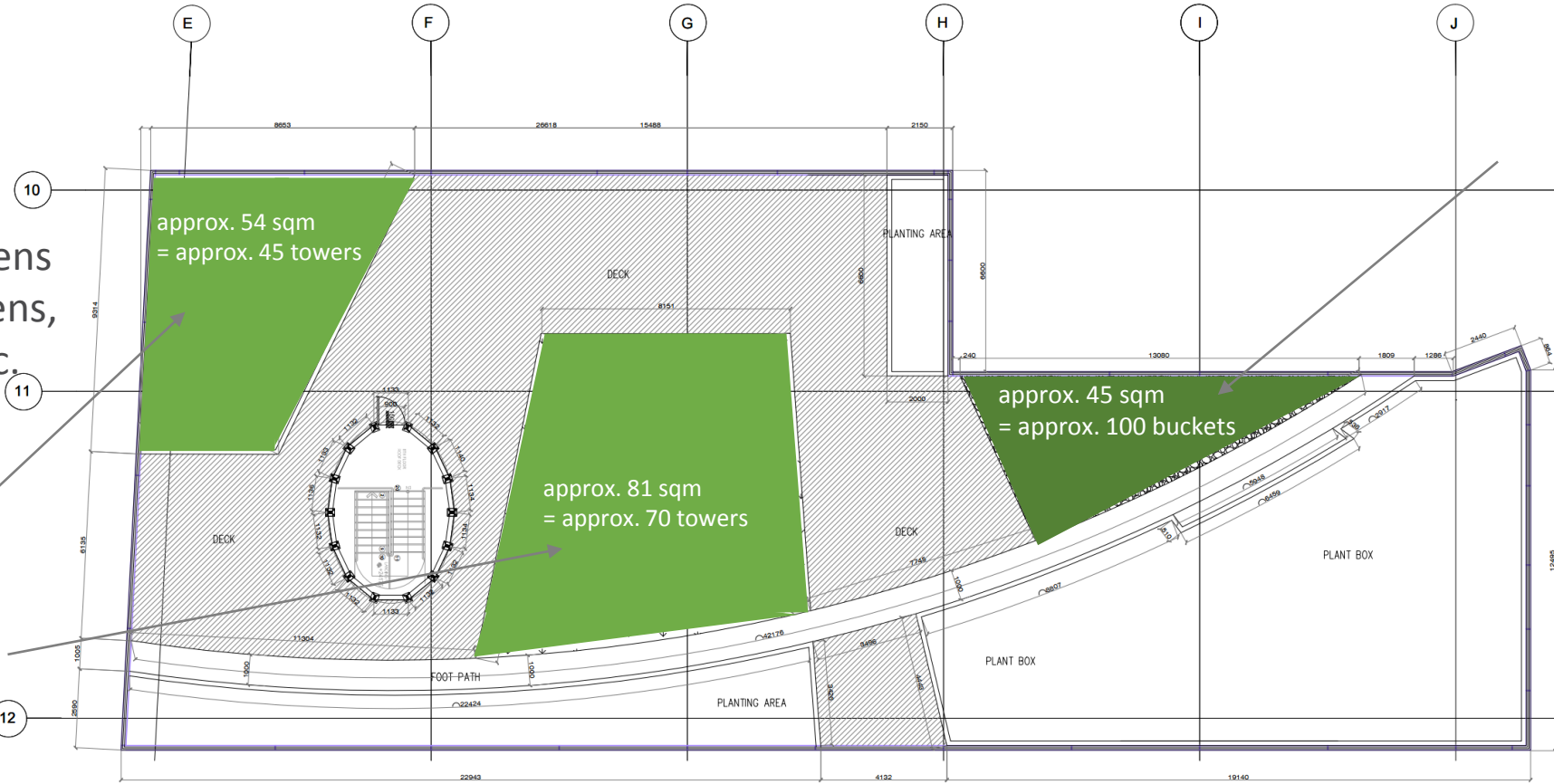


BGC Project

40 % usage of rooftop = 115 towers + 100 buckets

1 year = 50.000 “lettuces” + 4 tons of tomatoes

115 tower gardens for all leafy greens, Strawberries etc.



100 “Dutch Bucket” units for various tomatoes, cucumber, chilis, peppers, capsicums, melons, eggplants etc.

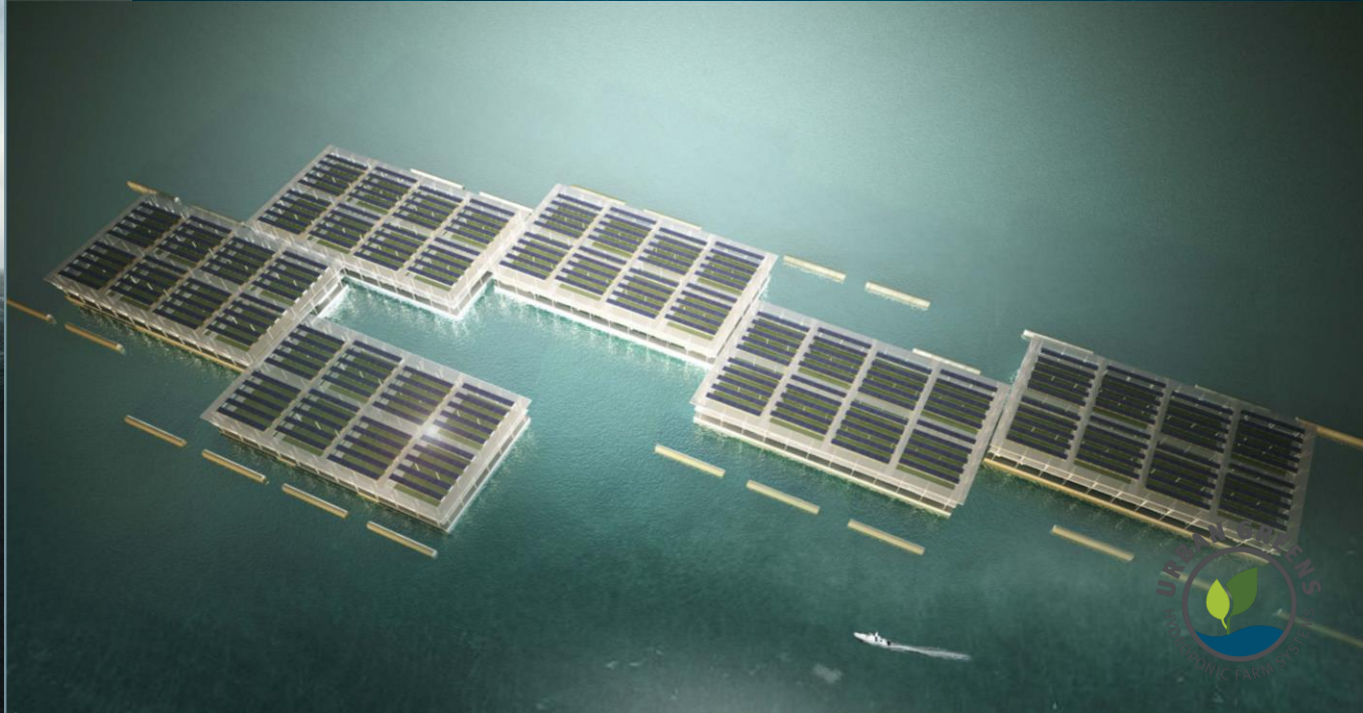




Integrated system:
solar power
hydroponics
fish farming



equation



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