Sustainable Urban Food Production: Singapore’s Experience
Singapore is a land-scarce and densely populated city state
Three “food baskets” to overcome food security challenges

• Diversify food imports
• Internationalisation of local farms
• Entrench local food production base
Farming industry transformed since independence
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Sky Greens

- Uses 95% less water and 75% less nutrient input than conventional farming
- 7x land savings with 2,500 plants per 6sqm footprint
- At least 5x more yield as compared to average farm output of 90 tonnes/ha/yr
Panasonic indoor farming
Swee Chioh Fishery
Comcrop Rooftop Farming
Seng Choon Egg Farm
Farming Transformation Map to guide development of farming sector

- Overcome space constraints – go up; go down, go inwards
- Exploiting and pushing technological boundaries
- Develop agri-specialists with multi-disciplinary expertise
- Develop broader eco-system (of markets, consumers, support and financing)
Singapore: Building a city in a garden