

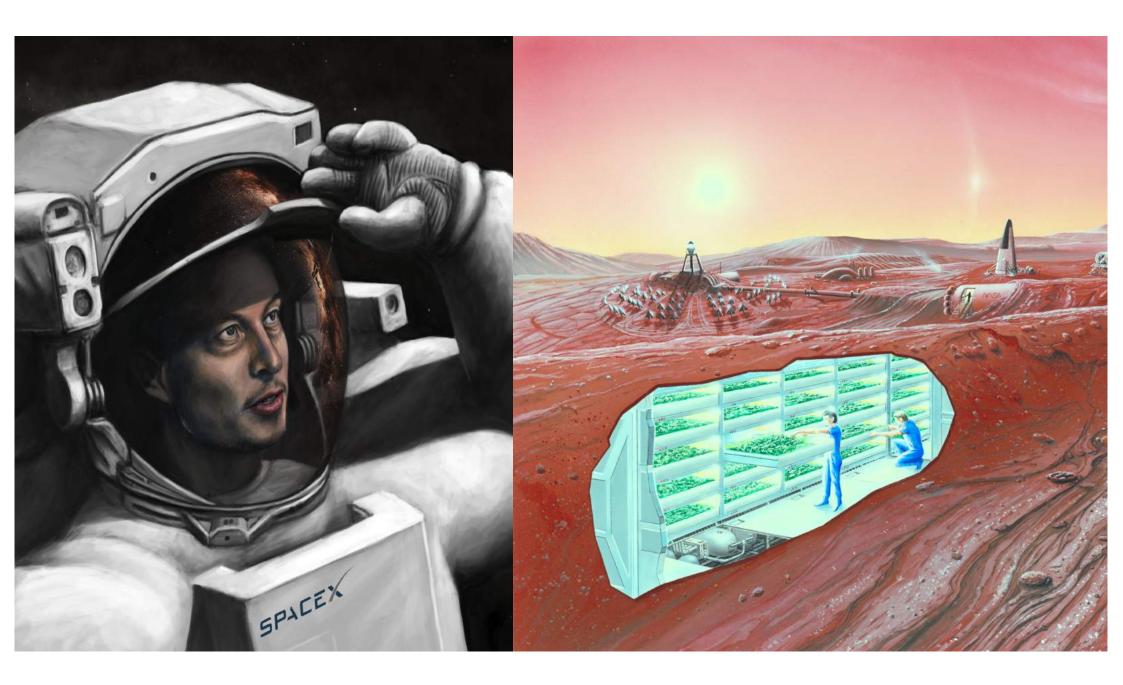
Hello! Henry Gordon-Smith here

Urban Agriculture Consultant

Henry@agritecture.com

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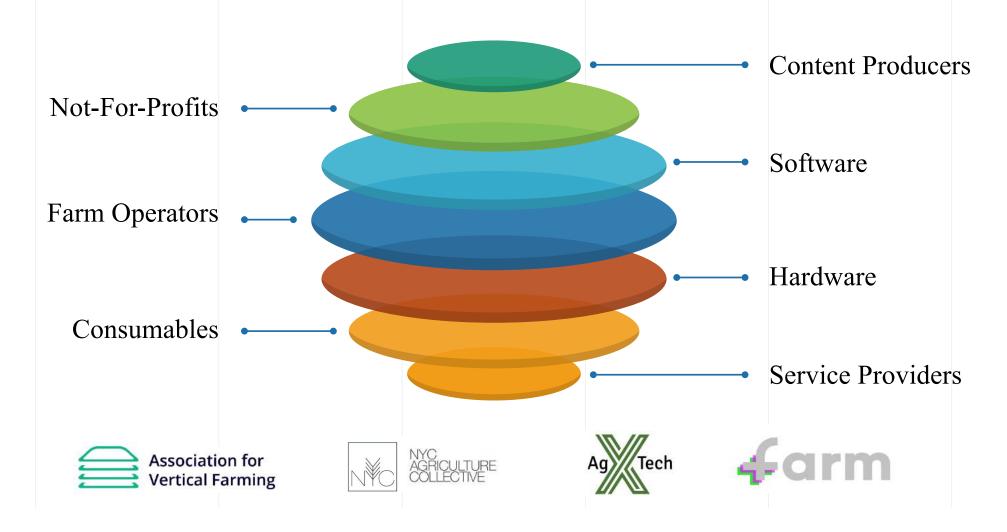
*Average Age of U.S. Farmer







Its About Building an Ecosystem













Agenda

About Agritecture

Innovative Urban
Agriculture Solutions

Intro to Urban Agriculture

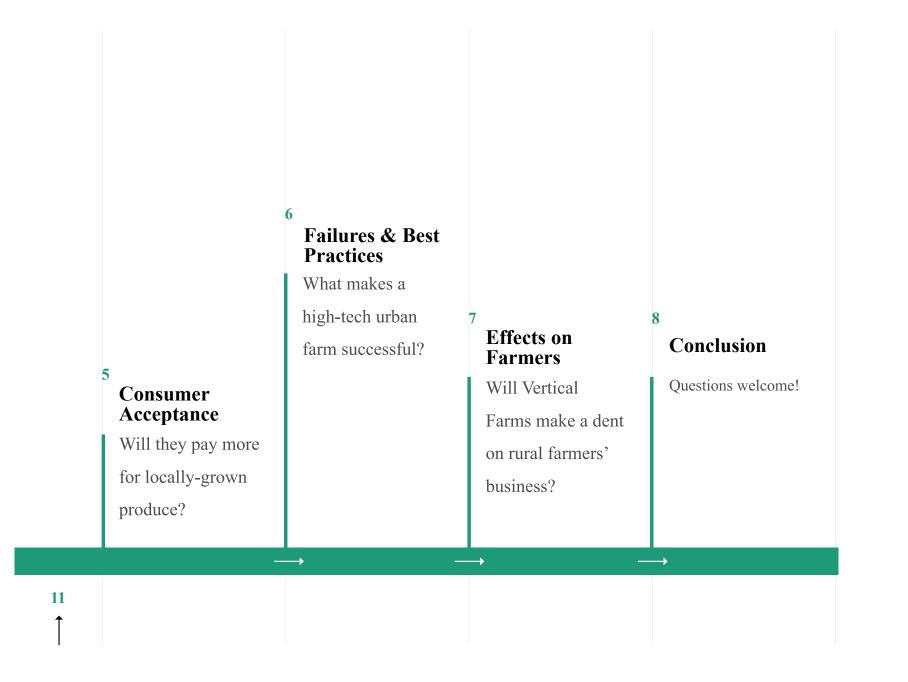
What are the types and their strengths and weaknesses?

Case Studies

What are the drivers for success or failure?

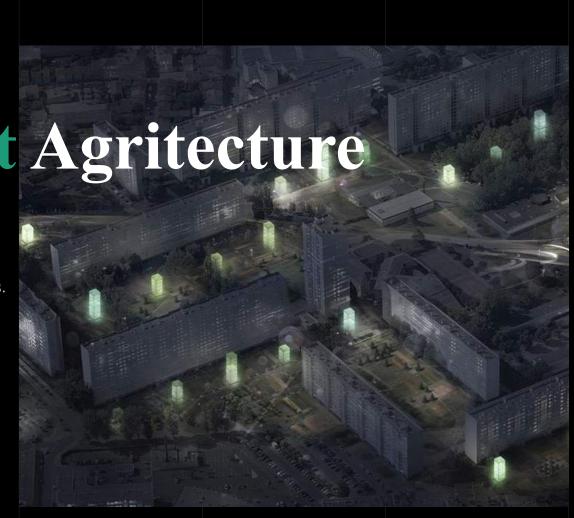
Trends and Drivers

What are the global trends driving urban agriculture? How do they apply to New Zealand?



About Agritecture

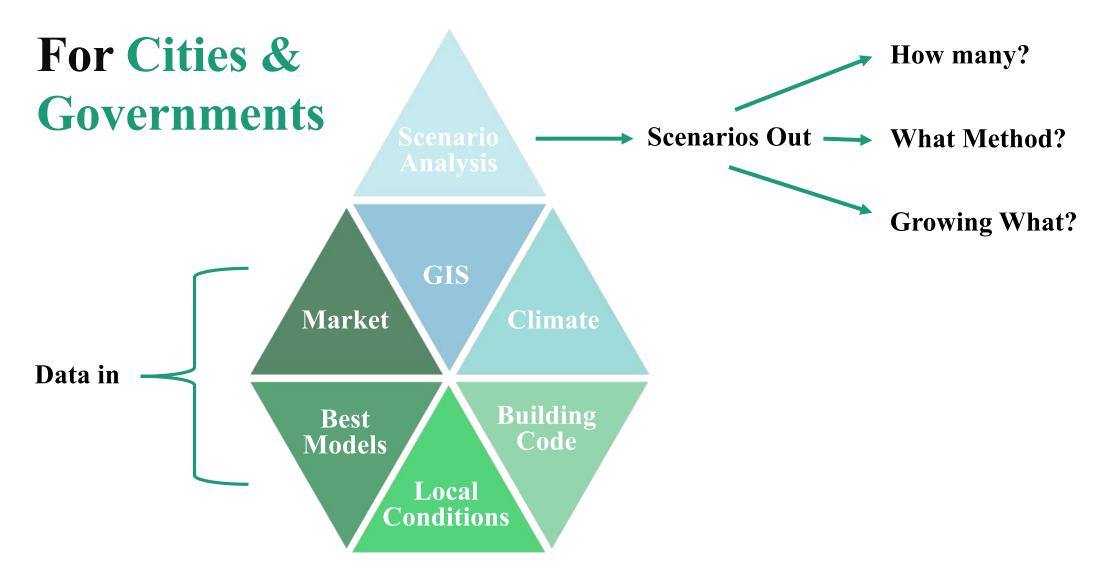
An interdisciplinary team of urban agriculture consultants. We are technology agnostic and active globally.





Agritecture's Methodology for New Farmers

Economics Concept Market **Design & Implementation Engineering** Development Research Plan What is the ROI? What is your unique What will you grow? An iterative process to How long to build? business model Who will buy what you ensure that form Equipment depreciation? Is it feasible? How much will it cost? are selling? follows function. concept? Etc. How do you define What problem are you success? solving?



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Urban Agriculture is Already Big Million Urban Farmers Worldwide Of the world's food supply 50% Of Asian Urban Households Farm



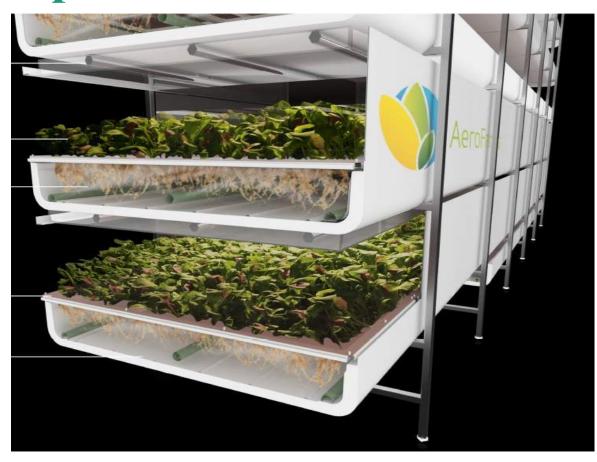
UA Technology Spectrum < Low Tech - High Tech >



Vertical Farming Definition

And Components

- **Vertical farming** is the practice of producing food in vertically stacked layers, vertically inclined surfaces and/or integrated in other structures.
- Some major components include Structure, Hydroponic Systems, Lighting, HVAC, Building Shell, Storage, Processing, Distribution, Biosecurity, and Automation.



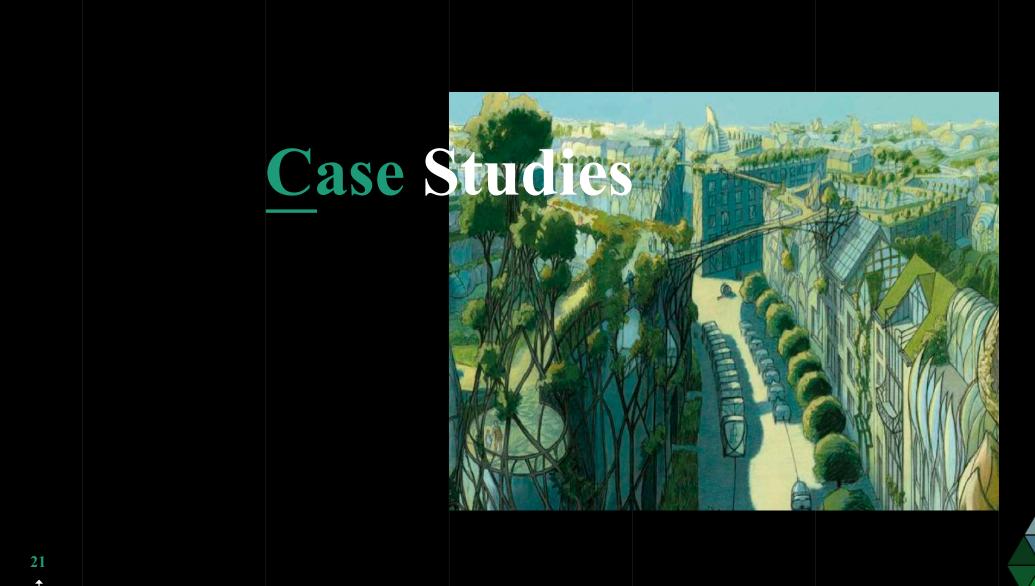


Why are only leafy greens viable in Vertical Farms?



Why are investors rushing towards vertical farming?







AeroFarms

#Newark

Brooklyn Grange

#Brooklyn



Sky Vegetables

#Bronx



Sky Greens

#Singapore

Shenandoah Growers

#Ohio





Farm One

#Manhattan

Square Roots

#Brooklyn



InFarm

#Berlin





Climate

Demand For Local

Water Scarcity

First-Mover Advantage

Food Safety

	USA (Cali.)	USA (NE)	Europe	N. Europe	MENA	India	East Asia	Australia	New Zealand
Water Scarcity	~				~	~	~	•	?
Food Safety	~	~	~	~	~	•	~	•	~
Arable Land		•	/		/	V	•	•	?
Climate		✓	✓	✓	✓			✓	?
Local Demand		~		•	•			•	?
First- Mover		~	V		V			V	V
Food Security		•		•	•	•	•	•	•

Are You Willing to Pay More for Local Food?

#BuyLocal

95%

Single Urban Households

78%

Young Couples With Kids

71%

Affluent Families

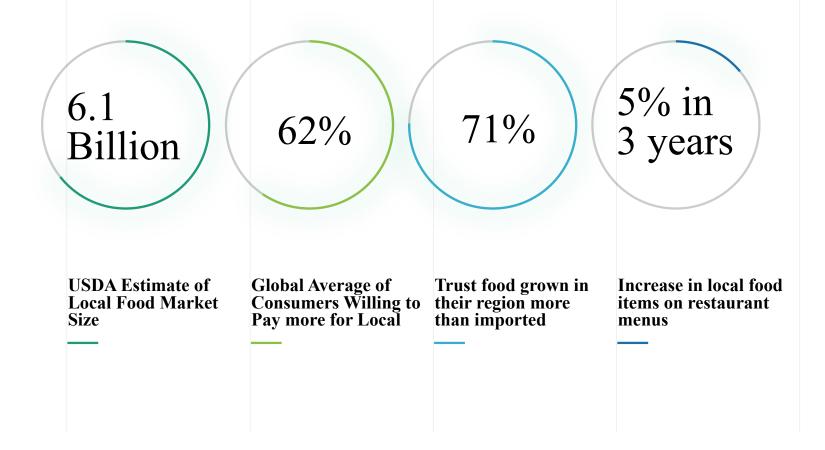
67%

Middle Class Families

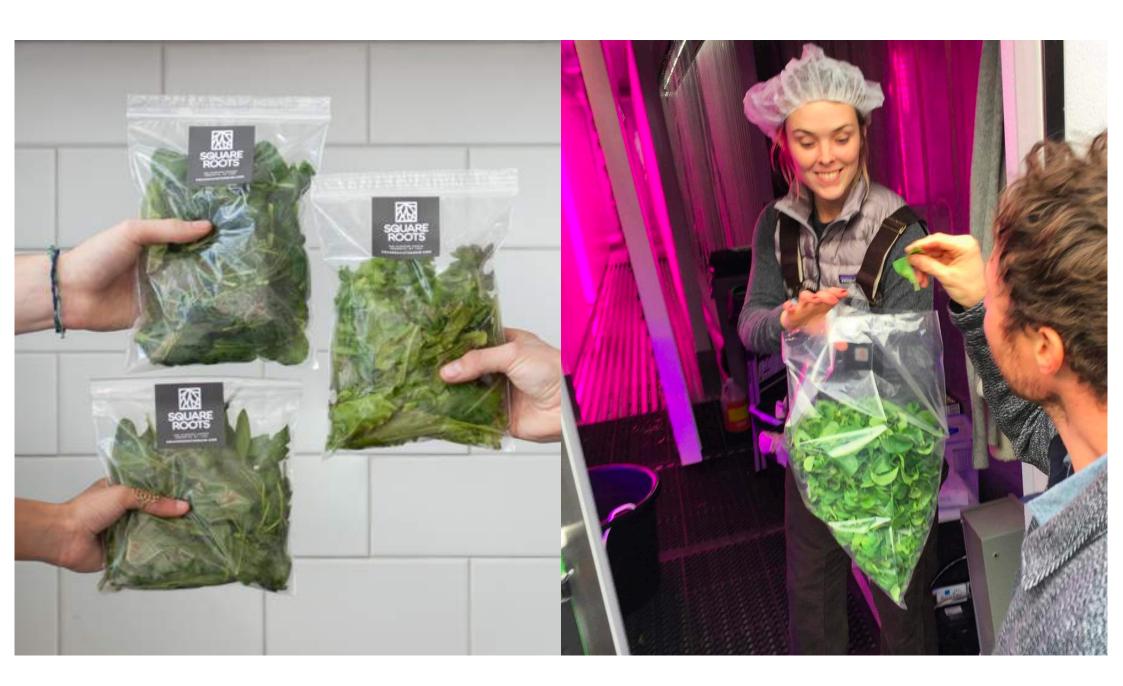
57%

Low-Income Families

Consumers Love Local Food











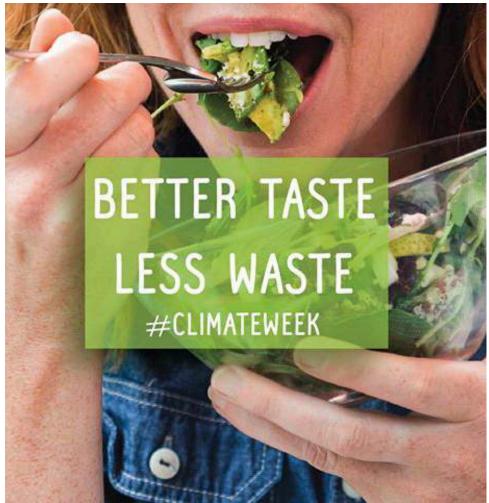






dream















Over Engineered, Overpaid, and Overconfident

Local Garden

Are We a Technology or a Farm?

Podponics





FarmedHere

Best Practices

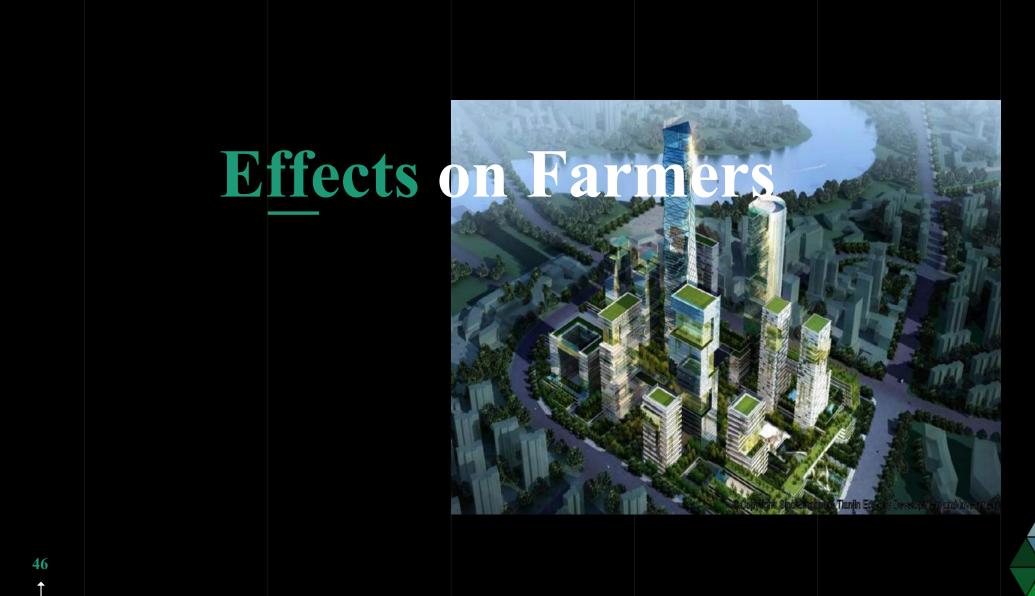
K#OneOW Your Market!

C#reate A New Product

Street With a Small Pilot

Get A Deal on Space

It# Operations, Stupid







Tons of Co2/lbs Yearly

Crop	Greenhouse	Vertical	Conventional
Tomato	0.0066	N/A	0.5297
Leafy Green	0.0033	4.289	0.6198
Herb	0.0059	2.108	1.0778
Strawberry	0.0047	1.34	3.2195
Strawberry	0.0047		3.2133
Cucumber	0.0025	N/A	0.3826





Competition

Specialty crop
producers selling to
cities in extreme
climates.



Technology

Spillover of irrigation, sensor, and operations technology.



Data

Renewed interest in agriculture data, nutritional quality, and Co2 impacts.



Labor

New farmers for hire or to compete with in the market



Thank you!

Henry Gordon-Smith

Founder & Managing Director

Our mission is to empower impact-driven organizations to develop feasible urban farming ideas, turning their ideas into practical and sustainable realities.

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