GCAD Town Hall Meeting Producer Education and Innovation

January 29, 2014

Richard Fu
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Agrivolution



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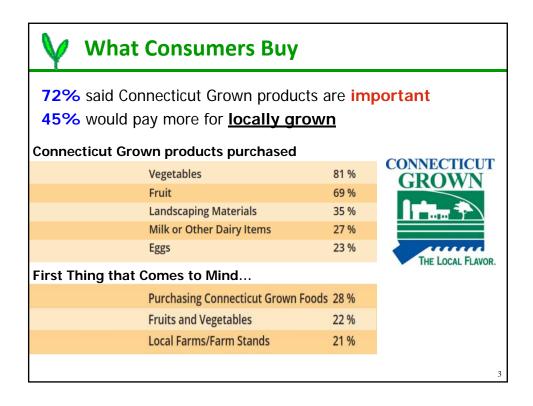


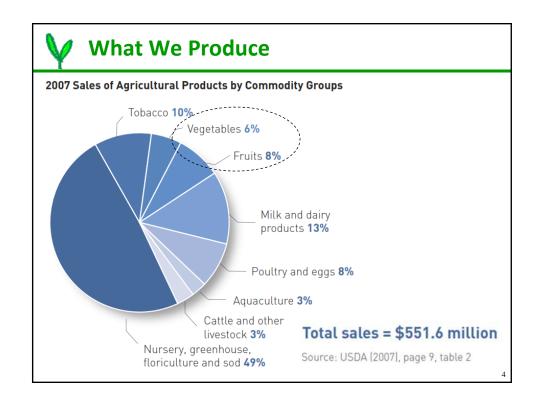
The Company Mission

"To promote sustainable agriculture through innovation in technology"

AgriVolution

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State of Agriculture in Connecticut

- ✓ Connecticut produces 1-2% of food consumed
 - Limited available land
 - Short growing season
 - High energy costs
 - High labor cost
- ✓ Challenge in recruiting young farmers
 - Average farmer age: 57.6 years

GCAD's Mission:

"Make recommendations to the Department of Agriculture on ways to increase the percentage of consumer dollars spent on Connecticut Grown fresh produce and farm product by 2020, to not less than five per cent of all money spent by such residents on food."

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Benefits of Indoor Vertical Farming Locally grown Hydroponic technology High quality, pesticide free Facilitated growth Year-round production Hugh quality, pesticide free Protection from disasters



Why Indoor Vertical Farming?

New Sustainable Farming

- ✓ Delivers **fresh vegetables** within same-day
- ✓ Avoids loss of <u>nutritional constituents</u> by 30-50%
- ✓ Saves water use by 95%
- ✓ Reduces CO₂ emissions (from transportation) by 98%
- ✓ Contributes to the <u>local economy</u>

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The Difference is in the Lighting!

Triple-Banded LED Grow Lights

Flat Panel-Type







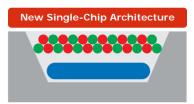


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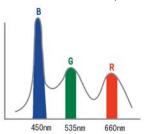


Triple-Banded LED — New Technology

For **Primary** and **Supplemental** Lighting



Blue Diode + Red & Green Phosphor



- Blue + Green + Red
- Ultra Thin Profile (7 mm)
- Low power consumption Panel-Type: 40 W

Tubular-Type: 26 W

- Uniform light distribution
- Low waste heat
- Cost effective
- **Long life** (40,000 hours)

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