Cultivate: A Vertical Solution

Jeffrey W. Schuler
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Sprawl

Question
Why is this a problem

Lack of People
Cars are the Only Mode of Transportation
Weak sense of place
High Cost of Moving Around

Why this Will be a Bigger Problem in the Future

Less Room for Agriculture
Less Room for Nature and Natural Processes
High Cost Energy or Energy Shortages
Question:
How can architects help stop Suburban Sprawl
Typology: Mixed Use Vertical farm

Claim: As Designers and Developers, Architects have the ability to create desirable, compact population centers that can be an Alternative to sprawling suburbs.
American Consumption

- USDA recommends 2000 calories a day

In the year 2000

- The average American eat 2,700 calories per day
- U.S. farmers produced 3,800 calories per day per person
- Of those 3,800 calories 1,100 of it was lost due to spoilage, cooking, plate waste and other losses.
Vegetables: 428.3 lb
Grain: 199.9 lb
Meat: 195.2 lb
Dairy: 593 lb
Fruit: 279.4 lb

- Red Meat
- Poultry
- Fish & Shellfish
- Fresh Fruit
- Processed Fruit
- Wheat Flour
- Corn Products
- Rice
- Fresh Vegetables
- Processed Vegetables
Process
Romses Architects "Harvest Green"
Frank Lloyd Wright “Solar Hemicycle” (Jacobs II)
Solution