

3. PureGrain Ag-Tech (Agriculture/AI)

Idea: Autonomous "Micro-Farms" in recycled shipping containers for hyper-local urban food production.

I. The Vision

PureGrain is a decentralized agricultural company. We convert underutilized urban spaces (parking lots, warehouse roofs) into high-yield, pesticide-free micro-farms. By growing food within 5 miles of the consumer, we eliminate 90% of the carbon footprint associated with food logistics.

II. Technology & Intellectual Property

- **PureOS:** An AI-driven nutrient delivery system that adjusts PH levels and LED spectrums in real-time based on plant growth sensors.
- **Efficiency:** Uses 95% less water than traditional soil farming and 40% less energy than standard vertical farms through "Solar-Window" integration.

III. Unit Economics (Per Container)

- **Setup Cost:** \$65,000.
- **Annual Operating Cost:** \$12,000 (Electricity, seeds, water, part-time tech).
- **Annual Yield Value:** \$42,000 (Based on premium basil, microgreens, and strawberries).
- **Net Margin:** 46% after year one.

IV. Growth & Scalability

PureGrain operates a "Franchise-as-a-Service" model. Local entrepreneurs buy the container and the OS license, while PureGrain manages the centralized distribution network to high-end grocery stores and Michelin-star restaurants.

Comparison of Key Factors

Factor	NexusHealth	Aurora Modular	PureGrain
Primary Driver	Regulatory Compliance	Manufacturing Speed	Resource Efficiency
Scalability	High (Software-based)	Moderate (Capital heavy)	High (Franchise model)
Major Cost	Legal & R&D	Raw Materials & Labor	Energy & Distribution