



Problem

- 212 million malnourished
- GHI ranked 66th out of 84 developing countries
- > 50% of children underweight
- 37.2% live below the poverty line
- > 60% rural population dependent on insufficient agriculture



Implement

- Send a team to the Charihari village of Bihar, India
- Supply the initial seeds and nutrient solution
- Provide funding for construction of micro-gardens



Educate

- Instruct families on how to build the beds
- Teach maintenance techniques to local community
- Identify cash and sustenance crops
- Inform about micro-finance



Assess

- Send research team at six month and two year intervals
- Review plot conditions
- Gather data on health and economic situations

Hydroponics, Simplified

- Nutrient solution allows for soilless culture
- Watertight liner seals in nutrients and water for complete utilization
- No electricity, expensive materials, or extensive background knowledge required

Cost/Unit

Aspect	Cost (USD)
Initial Supplies (seeds, nutrients)	\$100
Construction (full plot, 20m ²)	\$255
Supplies per Year	\$60
Maintenance	\$40
First Year Cost	\$355
Annual Cost	\$100

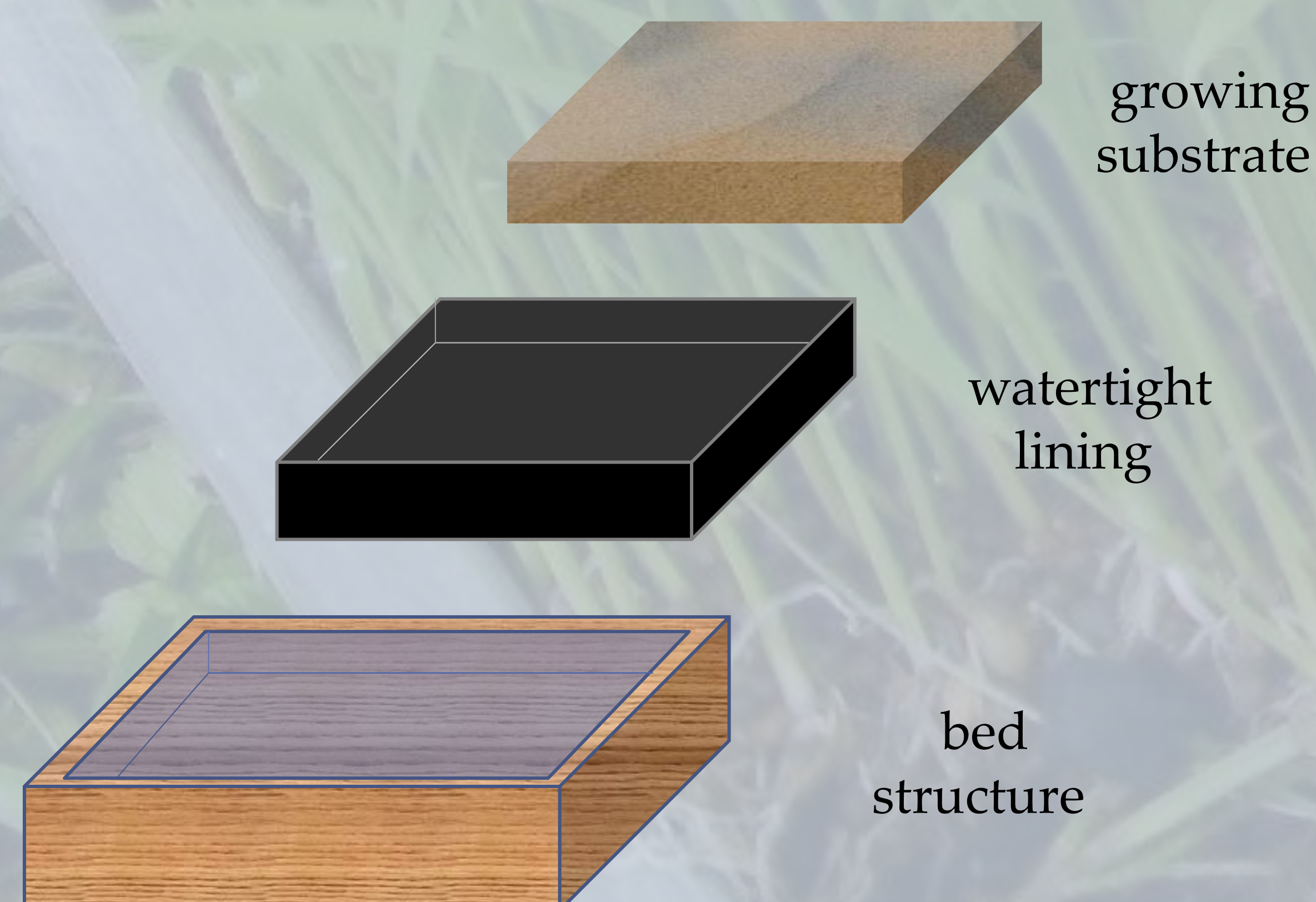
Benefits

- More locally grown food (up to 2 kilos per day)
- Increased incomes
- Uses ¼ the land of standard farming practices
- Less water consumption
- Ability to grow exotic cash crops
- No soil necessary

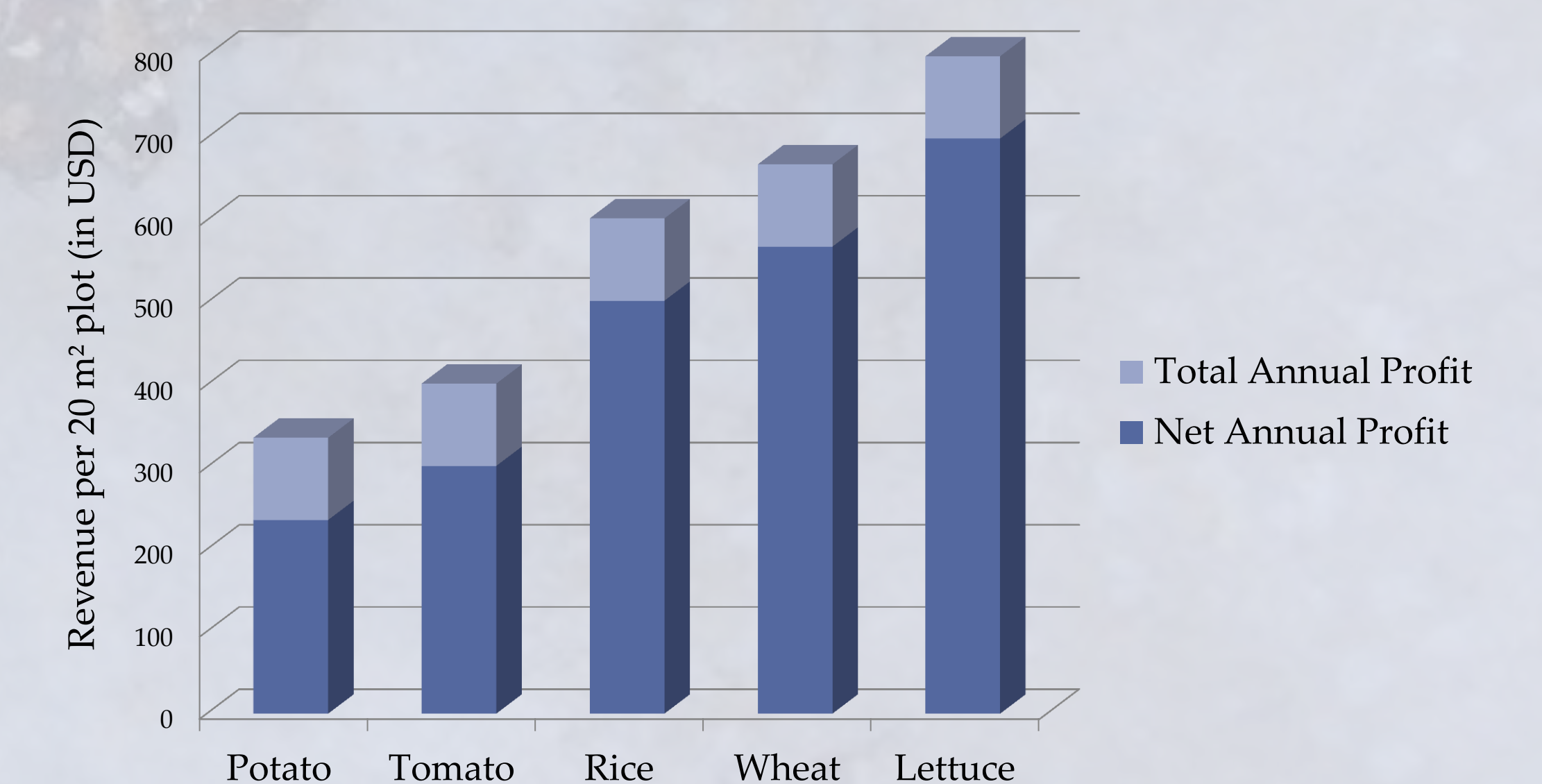
Solution

Join with Heifer International to bring simplified hydroponic micro-gardens to Bihar.

Grower Layout



Most Lucrative Crops



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