



# **GREENPOD LABS**

Postharvest Solutions

**“Food Waste is a Preventable Problem”**

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## Problem

▲ **40%**

of the fruits & vegetables lost

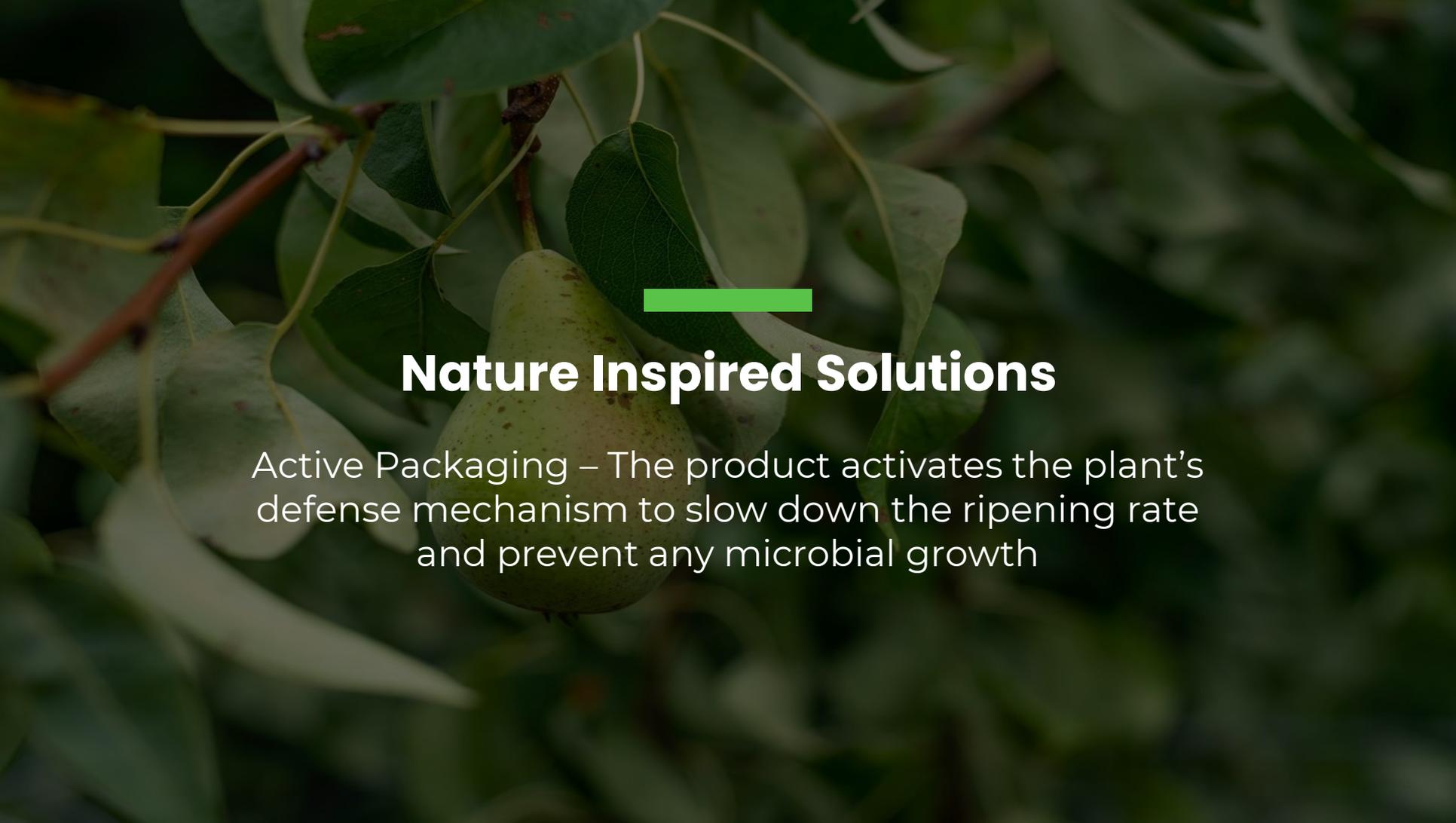
▲ **72,000 Cr**

economic waste

▲ **2.6G Tons**

of greenhouse gas emission





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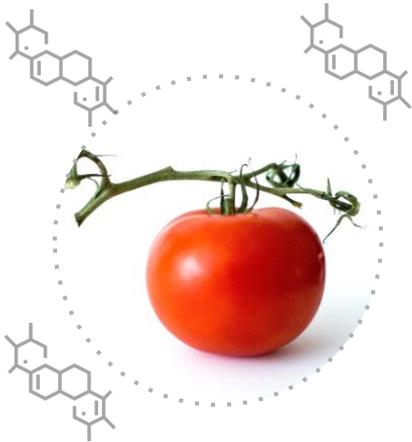
## **Nature Inspired Solutions**

Active Packaging – The product activates the plant's defense mechanism to slow down the ripening rate and prevent any microbial growth

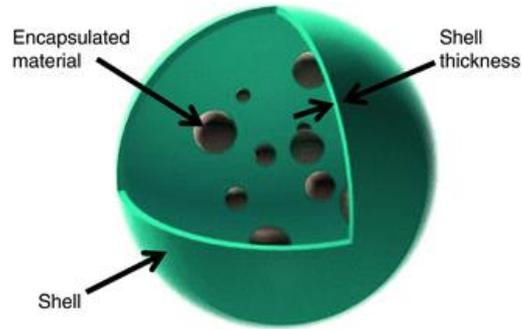
# Our Solution



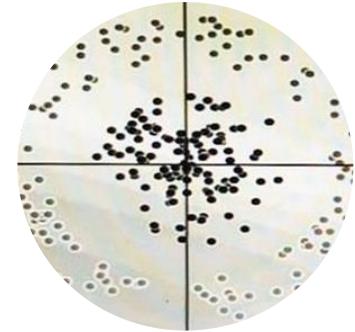
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Identifying "Specific" Plant  
**Defense Mechanism**

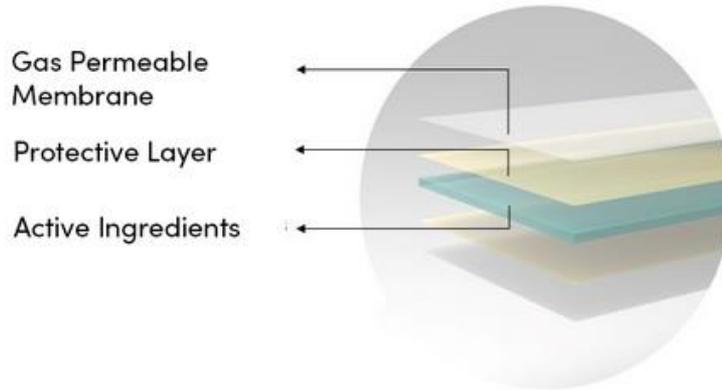


Nano-encapsulating the  
**Plant Bioactive**



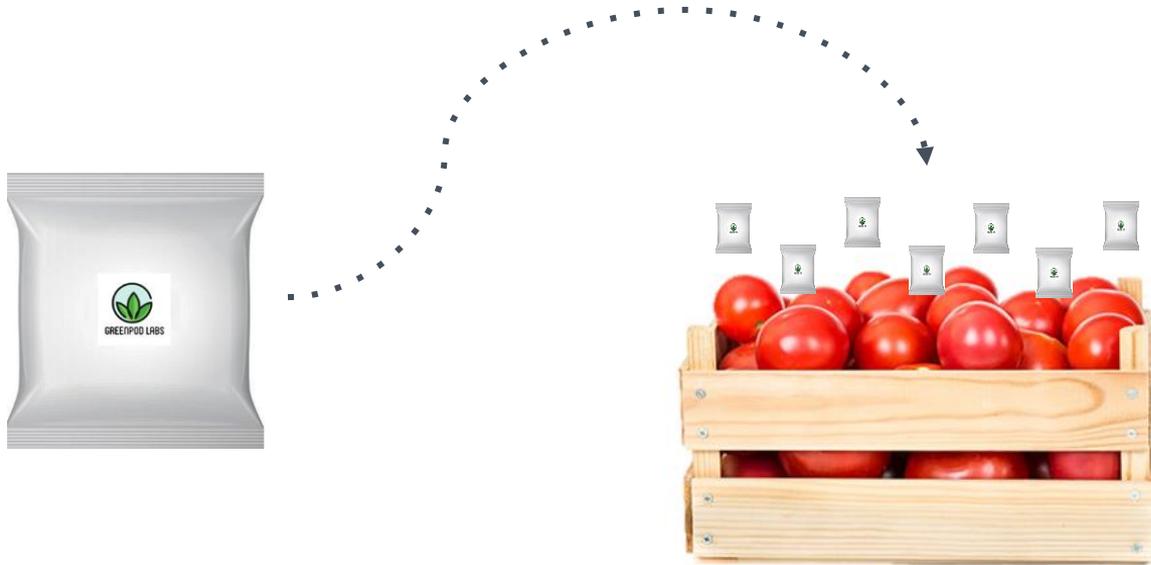
Using data to  
**customize formulation**

# Product Design



\*Patent Granted

# Product Design



5-10 sachets will be added for a crate of 20 Kg.

# Preliminary Trials

Pomegranates



Day 0

Day 15

Day 22

**Control**



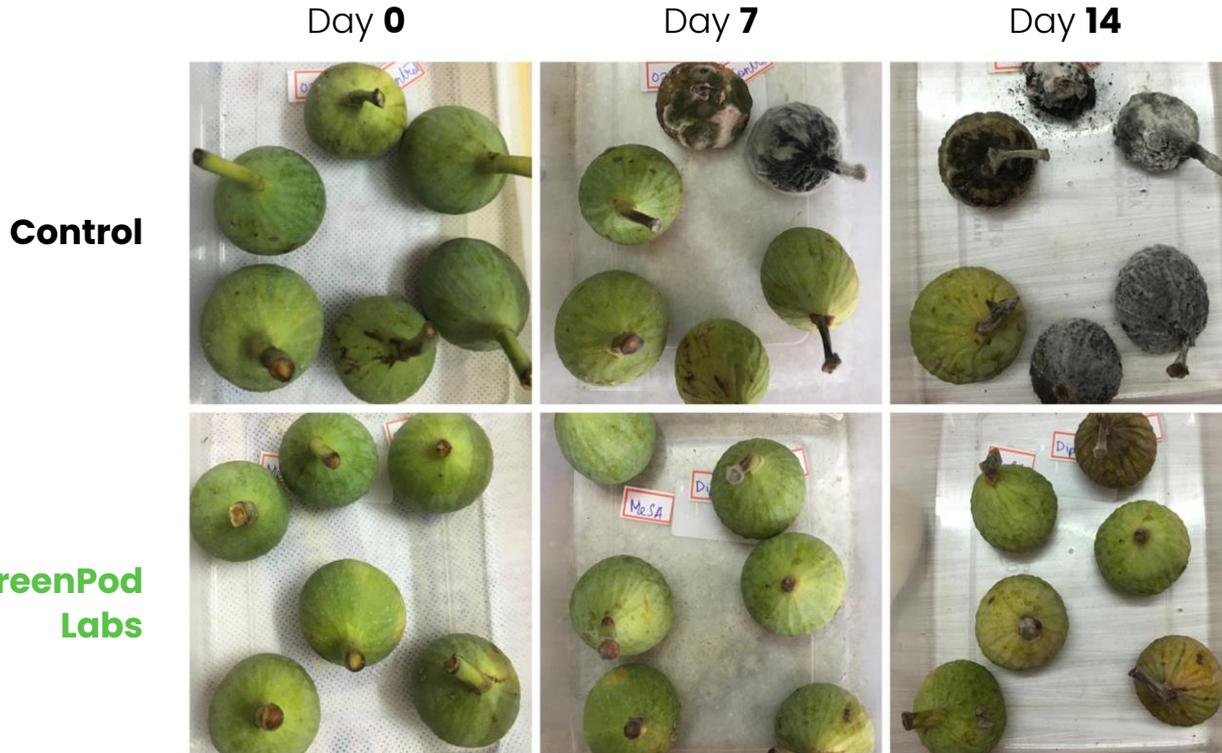
**GreenPod  
Labs**



On an average 40% – 80% increase in shelf life at 35°C

# Preliminary Trials

Figs



On an average 30% – 60% increase in shelf life at 35°C

# Preliminary Trials

Tomatoes



On an average 40% – 80% increase in shelf life at 35°C

# Product Safety



- The residual analysis proved we have ZERO residue of our product on the crop
- The nutritional analysis showed that use of our product increases/ retains the crop nutrition

\*Tested at Neoscience Labs (NABL Certified) with tomatoes.

**NEOSCIENCE LABS PVT.LTD.**  
91, Maheshwar Nagar, Sihalapakkam, Chennai-600126, India  
Phone: +91-44-201872432, E-mail: info@neosciencelabs.com URL: http://www.neosciencelabs.com

Date: 19.08.2021

**Certificate of Assessment for Crop**  
**Samples from Neoscience Labs Pvt Ltd**  
**Customer: GreenPod Labs**

**Scope:** The Scope of Neoscience is to analyse and compare the RESIDUAL & Nutritional Analysis in (Given Matrix) Sample

**Objective:** On Crop Residue Testing.  
To analyze the agricultural commodity for crop residues and nutritional composition. Mentioned analyses were performed to observe the difference between the samples stored with the active packaging sachets (proprietary product from GreenPod Labs) and without the sachets. The purpose of using the sachets is to enhance the life cycle of fruits and vegetables.

**Samples:**  
Two sets of tomatoes (1Kg per set) - one set of tomatoes treated with GreenPod Labs product for 8 days at room temperature and the other set of control tomatoes without GreenPod Labs product were tested.

**Analytical method:** GC-MS (Headspace analysis) sample preparation was performed using the wash method followed by analyzing for any possible residue of GreenPod Labs ingredients present in/on the crop.

**Results:** Based on our "crop residue" testing, the results show that **no residue** of ingredients from GreenPod Labs product was detected.

**Nutritional Values comparison:**  
The nutritional values were compared and it was confirmed that the use of GreenPod Labs product **retained** the crop nutrition.

Sl No	Test Parameter	Results		Unit
		Control Sample	GreenPod Labs Sample	
1	Energy	19.69	21.19	Kcal/100g
2	Total Fat	0.01	0.03	g/100g
3	Total carbohydrate	4.01	4.31	g/100g
4	Total Sugar	1.1	1.1	g/100g
5	Total soluble solids salt-free basis	6	5.4	%
6	Total protein	0.89	0.92	g/100g

**Conclusion:-**

- The residual analysis shows that there is **NO residue** of GreenPod Labs product on the crop.
- The nutritional analysis results proved that the use of GreenPod Labs product **increases/ retains** the crop nutrition compared to control



Chennai  
800 126  
19-08-2021

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# Target Customer



Farmers



Distributors

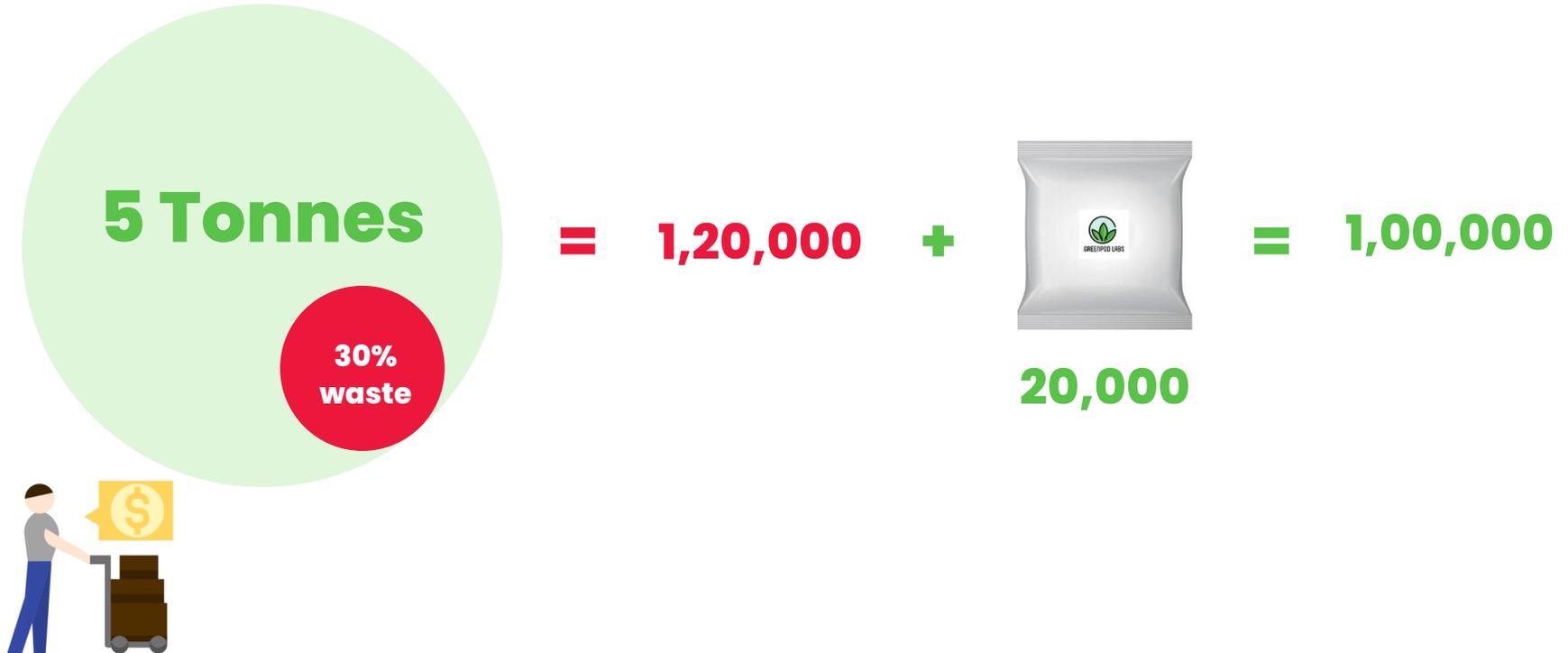


Retail



**Farm to Fork**

# Cost Benefit Analysis





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# Product Value Drivers

**Growth**

*New market entry, increase in bottom line and customer retention*

**Efficiency**

*Quality retention, better forecasting, waste management*

**Financial**

*Economic gain, reduction in Op-ex/ Cap-ex*

# Product Launch Timeline



<b>Timeline</b>	<b>Product Launch</b>
Q4 2021	Tomatoes
Q4 2021	Figs / Pomegranate
Q1 2022	Citrus/ Strawberry / Mango
Q3 2022	Pineapple / Papaya / Jasmine
Q1 2023	Mushroom / Grapes / Rose
Q3 2023	Greens / Potatoes / Okra
Q4 2023	Apple / Avocado / Dragon Fruit / Banana

# Team



[Deepak Rajmohan, CEO](#)

MS. Food Science (USA)  
8+ years of research experience

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[Vijay Anand, CBO](#)

14+ years of operations  
experience

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<https://greenpodlabs.com/>