



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



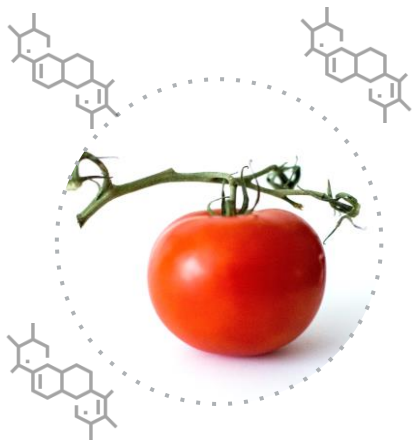
Nature Inspired Solutions

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

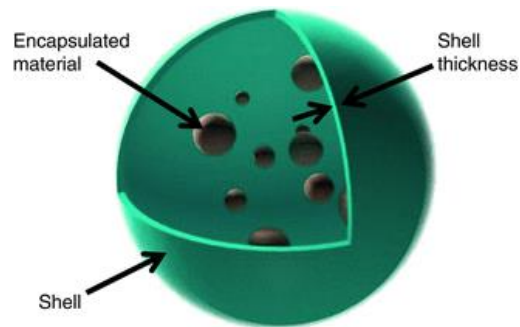
Our Solution



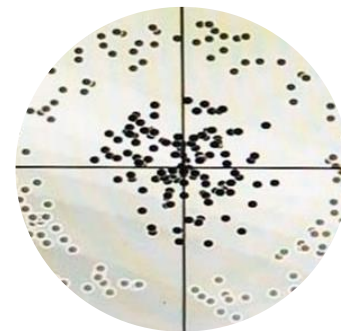
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Identifying "Specific" Plant
Defense Mechanism

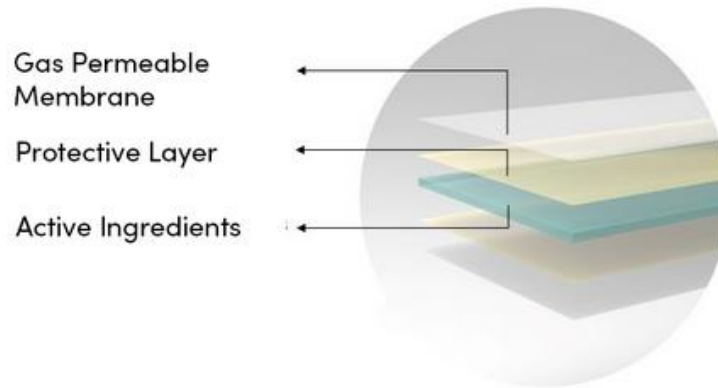


Nano-encapsulating the
Plant Bioactive



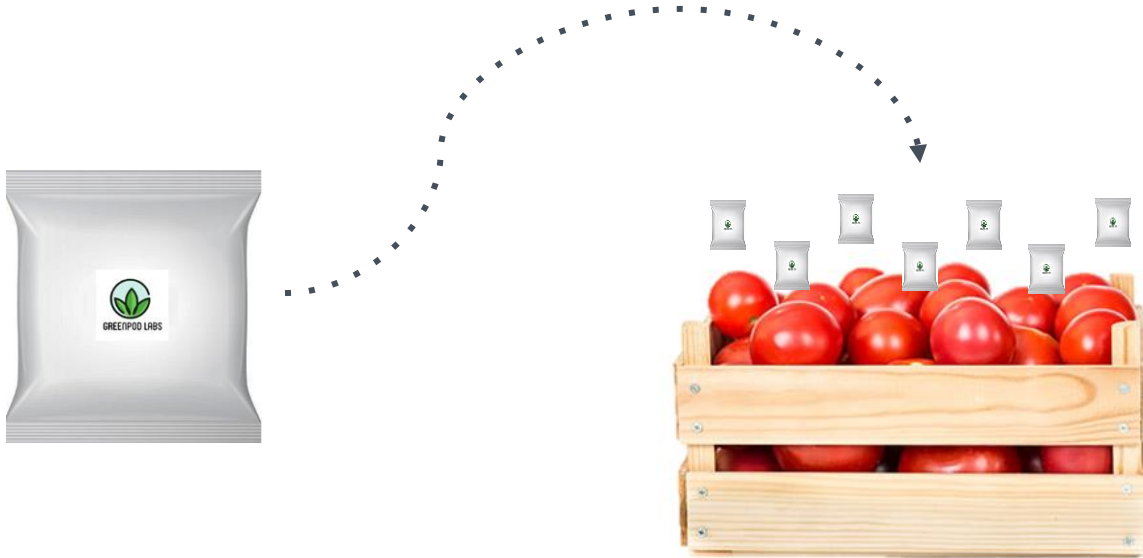
Using data to
customize formulation

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

Control

Day 0



Day 7



Day 14



**GreenPod
Labs**



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

Preliminary Trials

Tomatoes



Control

Day 0



Day 10



Day 15



**GreenPod
Labs**




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



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



NEOSCIENCE

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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.

Another 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



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19-08-2021

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Target Customer



Farmers



Distributors

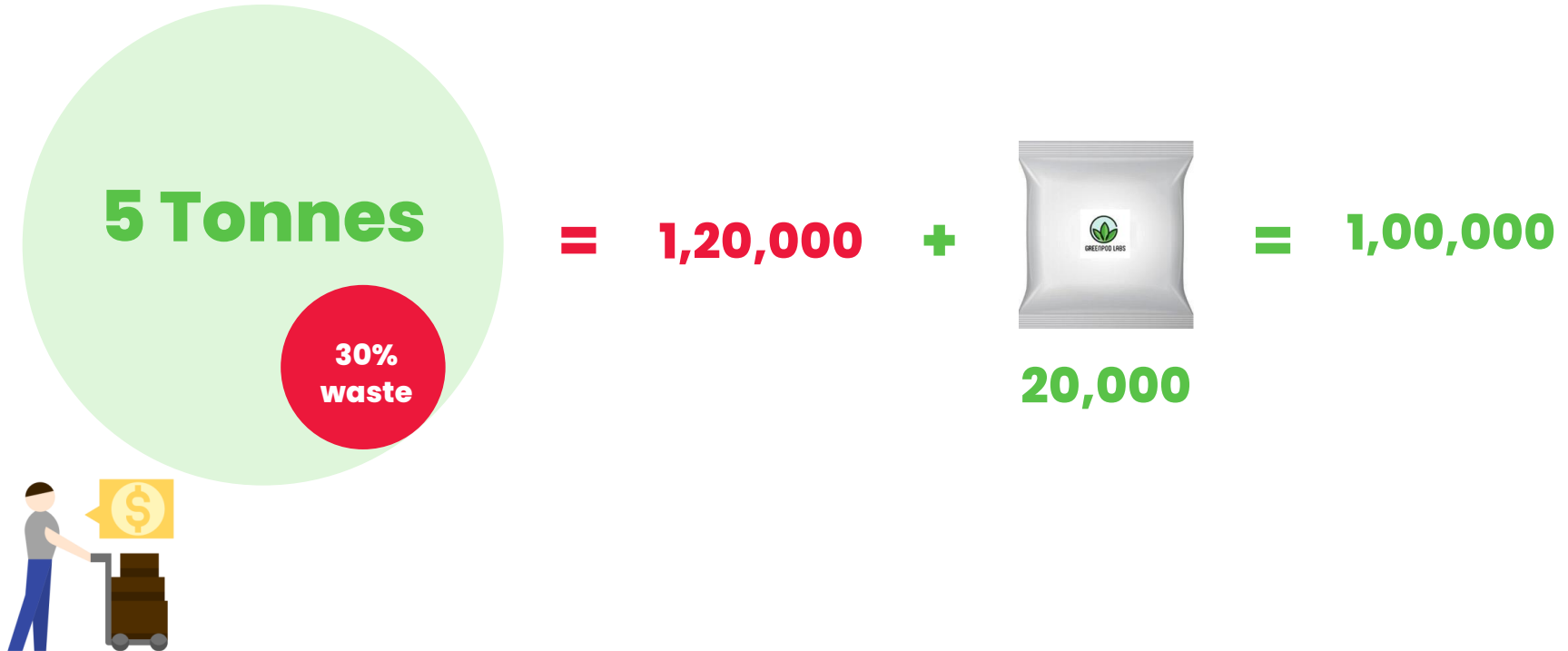


Retail



Farm to Fork

Cost Benefit Analysis



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



Timeline	Product Launch
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

Deepak@GreenPodLabs.com



Vijay Anand, CBO

14+ years of operations
experience

Vijay@GreenPodLabs.com

A close-up photograph of two hands holding a rustic wooden bowl filled with ripe red cherry tomatoes. The hand on the right is wearing a light-colored gardening glove with blue polka dots. The background is a soft-focus green field. A solid green horizontal bar is positioned above the text.

Food Waste is a Preventable Problem

<https://greenpodlabs.com/>