Sharing Sustainable Business Best Practices, Success Stories Among APEC Economies: Food and Agri Products and Services - Bio Natural Solutions

Submitted by: Bio Natural Solutions
ORGANIC WASTE CENTERED COMPANY

Bio Natural Solutions

2022

Miguel Malnati - CEO
Miguel Malnati

- Biotech Researcher
- Peruvian Entrepreneur
- Engineer & Food Science Master Degree
- Innovation Fellow - UK Royal Academy of Engineering
- Global Innovator - Dubai Expo 2020
- BNS Worldwide Co-founder & CEO

2022

@miguel.malnati
In the world, 1 300 million tons of food are lost per year

(FAO 2019)
This food would be enough to feed 2 billion people.

(FAO 2019)
Green Technology
Increases shelf life up to 200%

- Natural Compounds
- Organic Certification
- Natural Liquid
- Colorless Odorless
- Keep their properties
- Patented Technology

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<table>
<thead>
<tr>
<th>Fruit</th>
<th>Life Cover Plus®</th>
<th>No treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mango</td>
<td>170% to 21d from 35d</td>
<td></td>
</tr>
<tr>
<td>Orange</td>
<td>150% to 28d from 42d</td>
<td></td>
</tr>
<tr>
<td>Avocado</td>
<td>120% to 35d from 42d</td>
<td></td>
</tr>
<tr>
<td>Lemons</td>
<td>170% to 21d from 35d</td>
<td></td>
</tr>
</tbody>
</table>
Scalability

Fresh Food:

Economies:

- United Kingdom
- United States
- México
- People’s Republic of China
- Spain
- Brazil

- PERUVIAN INNOVATION CENTER
- INTERNATIONAL PCT PATENTS (3)
PER LITER OF LIFE COVER

EXW-FOB Price

Certifications

SENASA
PERU

CAAE
USDA ORGANIC

K PERU
VEGETABLE
GRADE KOSHER

CONFIDENTIAL
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Our Impact - 2021

62k
Ton of fruit with Life Cover

35k
Kilograms of fruit waste reused

20k
Ton of fruit not wasted on the shelf

ODS:

2022: Capacity: 1 ton of waste per hour (10x Impact)
Background

- **2016** StartUp was Born
- **2018** PCT Patent
- **2019** Market Development
- **2020** Agri-partners
- **2021** Global Accelerators
Pandemic Effect

100% fruits waste based products for housewives

@KUMANAT.PERU
We improve competitiveness and sustainability in family farmers
Next Global Steps

Sustainable Global Distributors & Partners

- Markets interested in natural alternatives.
- Consumers attracted by sustainable proposals.

Global Impact creating Circular solutions

- Innovation center with global partners to impact the world
Be part of the change!

Thank you!

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