

PROPOSAL TO THE GOVERNMENT OF LAO PDR

Freeze-Dry Revolution

A National Food Security and Rural Development Partnership

*Organic freeze-dry processing, anchored in Champasak Province, built to
strengthen Lao food security, farmer incomes, and regional infrastructure*

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Table of Contents

Table of Contents	2
1. Executive Summary.....	4
2. National Context & Alignment.....	5
3. Our Founding Farms & Pilot Facility	6
3.1 Our Avocado Farm	6
3.2 Partner Farm: Mystic Mountain Coffee	6
3.3 Facility Siting: Pakse City Area	6
4. National & Regional Food Security: An Emergency Reserve Partner	7
5. Economic & Social Benefit to the Lao People	8
5.1 Smallholder Farmer Support	8
6. The Regional Reinvestment Model.....	9
6.1 Pilot Commitment: Pakse	9
6.2 A Replicable Model.....	9
7. Project Description: Technology & Operations.....	10
7.1 Freeze-Drying Process.....	10
7.2 Equipment.....	10
7.3 Facility & Staffing	10
7.4 Real-Time Global Inventory & Marketplace.....	10
8. A Diversified Funding Strategy.....	12
9. What We Ask From the Government	13
10. Creative Marketing & National Branding Strategy	14
10.1 'Lao Organic' Origin Brand.....	14
10.2 Farm-to-Freeze-Dry Agri-Tourism	14
10.3 QR Farm-to-Shelf Traceability	14
10.4 'Taste of Laos' Diplomatic Gifting	14
10.5 Named-Infrastructure Crowdfunding	14

10.6 School & Community Nutrition Pilot	14
11. Implementation Roadmap.....	15
12. Risk & Sustainability Commitments.....	16
13. Appendices & References.....	17

1. Executive Summary

Freeze-Dry Revolution proposes a decentralized network of organic freeze-dry processing facilities, starting with a pilot hub in the Pakse city area of Champasak Province. The network converts Lao organic produce and coffee into high-value, shelf-stable products, strengthens national food security through long-life emergency reserves, and reinvests a share of its profit directly into regional infrastructure.

- Founded on 30+ ha of certified organic farmland already secured across two founding farms
- Designed to create 15-20 direct jobs per facility, plus guaranteed organic offtake for smallholder farmers
- Contributes a domestically produced, 25+ year shelf-stable food reserve to national resilience
- Funded through a diversified strategy spanning founder equity, crowdfunding, private investment, development finance, and requested government support
- Commits a share of operating profit to regional infrastructure - roads and connectivity - in every region the network operates

2. National Context & Alignment

Lao PDR sits in the Mekong basin, where recurring floods and droughts periodically disrupt food supply and increase reliance on imports. At the same time, national development priorities emphasize rural income growth, export diversification, and reducing dependence on imported processed food.

- The global organic and freeze-dried food market is growing 6-8% annually (IndexBox), and Lao-grown organic coffee already commands premium export prices
- An opportunity exists to convert Lao organic produce into higher-value, shelf-stable products domestically, rather than exporting raw commodities alone
- A decentralized, regionally-sited processing network supports rural areas directly, rather than concentrating value-add in the capital or abroad
- The project is designed to complement, not duplicate, existing national food security and rural development programs

3. Our Founding Farms & Pilot Facility

The network's model is already proven at the source. Two founding organic farms in Champasak Province anchor the network's first hub, with a processing facility planned for the Pakse city area.

3.1 Our Avocado Farm

- 5 ha certified organic Hass avocado farm, founder-owned and already producing
- Directly supplies raw material for the flagship freeze-dried avocado product line

3.2 Partner Farm: Mystic Mountain Coffee

- 25 ha certified organic coffee farm on the Bolaven Plateau, Paksong District, Champasak Province
- Established 2010 by owner Khamstone Souvannakhily; already exports organic coffee to Japan, Cambodia, Vietnam, and Thailand
- Will supply the network's freeze-dried coffee product line

3.3 Facility Siting: Pakse City Area

- Combined, the two founding farms secure over 30 ha of certified organic farmland ahead of the first facility coming online
- The processing facility itself is planned for the Pakse city area rather than on either farm, for better road, river, and air transport access
- Positions the facility as a hub-and-spoke aggregation point: smallholder farmers around Mystic Mountain Coffee already grow a wide range of local vegetables and fruits alongside coffee, giving the facility a ready-made, diverse supply base beyond the two founding farms

4. National & Regional Food Security: An Emergency Reserve Partner

Food security is the centerpiece of this proposal. Freeze-drying is uniquely suited to strengthening Lao PDR's resilience to the floods and droughts that periodically affect the Mekong basin.

- Freeze-dried organic reserves stay nutritious and edible for 25+ years, far longer than conventional stockpiles that require constant rotation
- A domestically produced reserve reduces Lao PDR's exposure to import disruption during floods, droughts, or regional shocks
- Positions Laos to grow from reserve consumer to regional reserve contributor, complementing frameworks like the ASEAN Plus Three Emergency Rice Reserve with a value-added organic layer
- Facilities can be designed to supply national stockpile programs as well as international humanitarian partners such as the World Food Programme
- Weighing up to 90% less than fresh or conventional reserves, freeze-dried stock allows more emergency food to move per truck, boat, or aircraft - critical when floodwaters cut roads

We welcome the opportunity to discuss how a pilot reserve allocation from the Pakse facility could support existing national or provincial disaster-preparedness planning.

5. Economic & Social Benefit to the Lao People

Benefit	Description
Direct Employment	15-20 jobs per facility across production, quality control, sales, and administration
Farmer Income	Guaranteed organic offtake pricing for smallholder farmers across the sourcing region
Export Earnings	Foreign exchange via existing coffee export markets in Japan, Cambodia, Vietnam, and Thailand
Technology Transfer	Freeze-dry processing and quality control skills new to the region
Rural Income Stability	Year-round processing demand anchors income beyond a single harvest season

5.1 Smallholder Farmer Support

The hub-and-spoke model works best when the smallholder farms feeding it are healthy, diverse, and resilient over the long term.

- We connect participating farmers with organic and regenerative farming resources, including permaculture food forest design and training from organizations such as Food Forest Abundance (foodforestabundance.com)
- Layered food forest systems - fruit trees, shrubs, herbs, and root crops - increase the variety of produce available to the network while improving soil health and lowering input costs for farmers
- Stronger, more diverse smallholder farms mean a more resilient, higher-quality organic supply base for every regional facility

6. The Regional Reinvestment Model

Each regional facility commits a defined share of its operating profit to that region's public infrastructure - private capital delivering public benefit, at no cost to the state budget.

6.1 Pilot Commitment: Pakse

- Facility profit from Pakse funds road conditioning along the Pakse-to-Bolaven Plateau corridor
- Facility profit also funds Starlink satellite internet connectivity, supporting logistics coordination, digital payments, and quality traceability with farms in areas underserved by conventional connectivity

6.2 A Replicable Model

- Designed to be repeated at every future regional facility, in Laos and internationally
- Strengthens the hub-and-spoke sourcing model directly: better roads and connectivity lower the cost and risk of aggregating from smallholder farms
- Builds lasting public infrastructure and goodwill in every community the network depends on

7. Project Description: Technology & Operations

7.1 Freeze-Drying Process

Lyophilization removes up to 99% of moisture through sublimation, preserving texture, flavor, and up to 97% of nutritional value - a process well suited to Lao organic avocado, coffee, and other regional produce. Because most fruits and vegetables are 80-95% water by weight, the finished product typically weighs up to 90% less than the fresh input, dramatically cutting shipping costs and easing distribution to remote areas - while its 25+ year shelf life produces virtually no spoilage waste.

7.2 Equipment

Model	Key Feature
Telstar LyoBeta Range	0.9 m2 shelf area, Lyonuc nucleation
Martin Christ Epsilon	0.98 m2 shelf area, 7 adjustable shelves
RLE II Series	Production scale, radiant heating

7.3 Facility & Staffing

- Facility sited in the Pakse city area for road, river, and air transport access
- FDA/EU-equivalent and organic certification maintained across the operation
- Initial staffing of 15-20 across production, quality control, sales, and administration

7.4 Real-Time Global Inventory & Marketplace

Every unit is QR-coded the moment packaging is complete at each regional facility, feeding a centralized inventory system built and operated by the network.

- Aggregates real-time inventory across every facility worldwide - full visibility into what is in stock, and where
- The public can browse global inventory and purchase directly through the platform, turning transparency into a built-in direct-to-consumer sales channel
- For government and institutional partners, the same system provides real-time, auditable visibility into national reserve stock levels

8. A Diversified Funding Strategy

This project is designed to raise capital from every available source, reducing reliance on any single funder and demonstrating broad-based confidence in the model.

Source	Description
Founder & Partner In-Kind Equity	30+ ha of certified organic farmland already contributed
International Crowdfunding	Ulule, BlueBees, Kickstarter, and Indiegogo campaigns
Diaspora & Named-Infrastructure Bonds	Backers sponsor specific roads or connectivity towers
Private Equity / Impact Investors	Growth capital for regional scale-up
Development Finance Institutions	Concessional financing for rural agribusiness and food security
Corporate Offtake Partnerships	Pre-purchase agreements that de-risk the capital raise
Lao Government Support	Incentives, land, and permitting under Lao investment law

9. What We Ask From the Government

- Investment promotion support and expedited permitting for the Pakse facility
- Assistance identifying suitable land in the Pakse city area with strong transport access
- Applicable incentives under Lao PDR's investment law for organic agro-processing and export businesses
- Introductions to relevant ministries and Champasak provincial authorities
- A collaborative role in national food security and disaster-preparedness planning as the network matures

10. Creative Marketing & National Branding Strategy

10.1 'Lao Organic' Origin Brand

Built on the Bolaven Plateau's existing global reputation for quality coffee, extending trust and premium pricing to the network's full organic product line.

10.2 Farm-to-Freeze-Dry Agri-Tourism

Extends Mystic Mountain Coffee's existing farm tours into a Pakse visitor experience, letting travelers see organic produce move from farm to finished, shelf-stable product.

10.3 QR Farm-to-Shelf Traceability

Powered by the same Starlink connectivity funded by facility profit, every package can carry a QR code linking to its originating smallholder farm - a transparency feature that supports both export pricing and national pride. This same QR code feeds the network's centralized inventory and marketplace system (see Section 7.4).

10.4 'Taste of Laos' Diplomatic Gifting

Curated organic freeze-dried gift boxes, positioned as official gifts for state visits, embassies, and trade missions - turning the product line into a soft-power export.

10.5 Named-Infrastructure Crowdfunding

International and diaspora backers can sponsor named stretches of reinvested road or specific connectivity towers ('Adopt a Kilometer'), turning the regional reinvestment model itself into a fundraising and public-relations tool.

10.6 School & Community Nutrition Pilot

Subsidized freeze-dried fruit and vegetable snacks for rural schools near the facility, building goodwill, supporting child nutrition, and generating positive local and national press.

11. Implementation Roadmap

Phase	Timeline	Milestones
Phase 1: Pilot	Year 1	Pakse facility online; hub-and-spoke sourcing established; road and connectivity reinvestment begins
Phase 2: Regional Scale-Up	Years 2-3	Expansion to additional Lao provinces; reinvestment model replicated at each new facility; emergency reserve partnerships explored
Phase 3: International Network	Year 4 onward	Network extends to agricultural regions internationally, following the same regional hub and reinvestment model

12. Risk & Sustainability Commitments

- Organic certification maintained across all founding farms and smallholder sourcing
- Environmental safeguards applied at every facility, from water use to waste management
- Transparent, published profit-sharing for each region's infrastructure reinvestment fund
- Fair, guaranteed-offtake contracts with smallholder farmers, building long-term trust
- Equipment sourced from established vendors with maintenance contracts to manage operational risk

13. Appendices & References

Data Point	Source
Emergency Food Market Growth	IndexBox
Freeze-Dried Market Size	Straits Research
Equipment Specifications	Telstar, Martin Christ
Mystic Mountain Coffee Background	mysticmountain.coffee

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