

# DEMOCRATIA

DEMOCRATIA - AQUA - TECHNICA

## Current Scenario

Plastic pollution - harms wildlife & human health  
Takes centuries to degrade

## Solution

Biodegradable plastics (e.g., cactus-based) - eco-friendly alternative

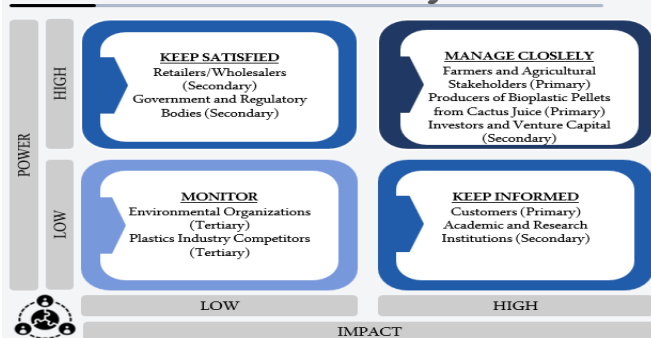
Break down naturally, but hard to bring to market

## Challenge

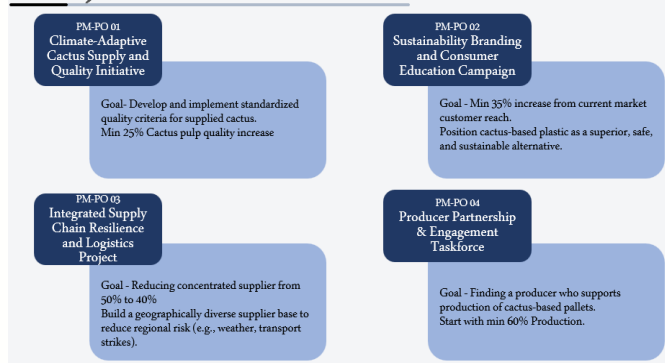
Risks - regulations, raw material supply, finances, consumer trust

Companies without structured risk management struggle

## 1 Stakeholder Analysis



## 4 Projects Overview



## 6 Key Performance Indicators



*Risk management strategy for stakeholders in the cactus juice biomaterial transition project, to ensure its long-term sustainability*

Servina Bardeskar

## 2 Risk Severity Matrix

Consequences	Highest (10% of planned EBIT)		11. Demand uncertainty	1. Quality inconsistency 19. Scale-up challenges			Category A: Extreme
	Significant (5-9% of planned EBIT)				23. Lack of producers		Category B: Very High
	Moderate (3-5% of planned EBIT)		21. Market competition	8. Regulatory 12. Quality exp 14. Order fluctuate 17. Stable Funding	16. Distribution challenges		Category C: High
	Low (1-2.5% of planned EBIT)		13. Awareness gaps	2. Market price 3. Resource 5. Crop failure 10. Compliance	4. Labor shortages 6. Activism Mono 18. Misalignment 20. Collaboration	7. Changing standards 24. Temperature Endurance	Category D: Moderate
	Lowest (1% of EBIT)						Category E: Low
Risk Severity Matrix		1	2	3	4	5	
		Rare <10%	Unlikely 10-20%	Possible 20-40%	Likely 40-60%	Frequently >60%	
		Likelihood					

## 3 Proposed Strategies



## 5 Risk Severity Matrix After Treatment

Consequences	Highest (10% of planned EBIT)		11. Demand uncertainty	1. Quality inconsistency 19. Scale-up challenges			Category A: Extreme
	Significant (5-9% of planned EBIT)				23. Lack of producers		Category B: Very High
	Moderate (3-5% of planned EBIT)		11. Demand uncertainty 1. Quality inconsistency	19. Scale-up challenges 23. Lack of producers	16. Distribution challenges		Category C: High
	Low (1-2.5% of planned EBIT)			16. Distribution challenges			Category D: Moderate
	Lowest (1% of EBIT)						Category E: Low
Risk Severity Matrix		1	2	3	4	5	
		Rare <10%	Unlikely 10-20%	Possible 20-40%	Likely 40-60%	Frequently >60%	
		Likelihood					



[HTTPS://DEMOCRATIA-AQUA.ORG](https://democratia-aqua.org)

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