



PHILIPPINE ROOT CROP RESEARCH & TRAINING CENTER

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SWOT ANALYSIS MATRIX

Year: 2022

Office/Unit: PHILIPPINE ROOT CROP RESEARCH AND TRAINING CENTER (PhilRootcrops)

Key Areas	PESTLE (External Factors)	#	ACTIVITY/PROCESS	STRENGTHS (S)	WEAKNESSES W)	OPPORTUNITIES (O)	THREATS (T)
RESEARCH AND INNOV	ATION PROGRAMS						
Ensuring Research Relevance (G2, KRA1) Communication of Research Results (G2,	POLITICAL		Publication of research outputs				PRCRTC-22-T1 High competition for funding among research institutions with similar research agenda
KRA5)	ECONOMICAL					PRCRTC-22-O1 Collaboration between research institutions and funding agencies	
	SOCIAL						
	TECHNOLOGICAL		1				
	LEGAL						
	ENVIRONMENTAL						
	Human Resource (Internal)			PRCRTC-22-S1 Pool of experts with diverse background in research			
	Operations (Internal)			PRCRTC-22-S2 Existing on-going internal and external funded research projects/studies	OVPREI-21-W4 Weak financial accounting process for RDEI funds OVPREI-21-W5 No research seed funds for returning scholars and newly-hired faculty		
					PRCRTC-22-W1 Majority of senior faulty researchers are due for retirement PRCRTC-22-W2 Lack of cutting-edge laboratory facilities for research and innovation		

	Financial (Internal)					
	Marketing/Promotion (Internal)					
Ensuring Research Relevance (G2, KRA1) Partnership (G2, KRA2)	POLITICAL	Utilization of research outputs by the industry or other beneficiaries			PRCRTC-22-O2 Development of rootcrop industry through Industry Strategic Plans (ISP) of the Department of Science	
r artifership (Oz, KIVAZ)					and technology	
Knowledge Protection, Transfer and Commercialization (G2, KRA3) Communication of Research Results (G2,KRA5)	ECONOMICAL				PRCRTC-22-O3 Growing market for rootcrop based products and technologies	OVPREI-21-T3 Reluctance of industry players to engage in new businesses brought about by Covid-19 pandemic affecting utilization of research
(02,1(140)	SOCIAL				OVPRE-21-09	OVPREI-21-T4
Commercializing VSUs IP Asset (G4, KRA2)	3001/12				High percentage of Filipino population engaged in social media and other digital platforms	Institutionalization of technology and business incubation program by other SUCs
					PRCRTC-22-O4 Sustained and stable partnerships between public and private organizations/industries	OVPREI-21-T5 Potential intellectual piracy of other SUCs with similar mandate
	TECHNOLOGICAL		_			
	LEGAL				OVPREI-21-08 Philippine Technology Transfer Act, Innovation Act and Innovative Startup Act	
	ENVIRONMENTAL				,	
	Human Resource (Internal)		PRCRTC-22-S3 Researchers actively involved in RDEI	PRCRTC-22-W3 Employment turnover and contractual status of Science Research Assistants		

	Operations (Internal)			PRCRTC-22-S4 Available of	OVPRE-19-W8		
	Operations (Internal)			innovative rootcrops based	Weak university-industry		
				technology readily available	partnership / technologies		
				for dissemination and	generated not totally aligned		
				transfer to interested partner	to industry needs		
				cooperators and	to industry needs		
				stakeholders	OVPREI-21-W7 TBI		
				Stakeriolders	operation is project-based		
				PRCRTC-22-S5 Availability	operation is project-based		
				on-air and digital broadcast			
				program "Magmalambuon			
				sa Lagutmon" for			
				technology promotion			
				toomology promotion			
	Financial (Internal)				OVPREI-21-W8 No funds		
	` ,				appropriated and plantilla		
					position to hire new IP		
					Technical Experts		
					·		
	Marketing/Promotion (Internal)			PRCRTC-22-S6 BPI	PRCRTC-22-W4 No/less		
				Accredited PhilRootcrops	participation to trade		
				nursery for sweetpotato and	fairs/exhibits to promote and		
				cassava planting materials	market technologies due to		
				distribution	travel restrictions/community		
					quarantine		
B. TECHNICAL ADVISOR	RY EXTENSION PROGRAM						
Partnership (G2, KRA2)	POLITICAL	Partnerships	s with Local				
	ECONOMICAL		t Units (LGUs),				
Knowledge Protection,	SOCIAL		Ion-Government			PRCRTC-22-O5 Emerging	
Transfer and	OOGIAL	Organization				partnerships with LGUs,	
Commercialization (G2,			t Agencies, MSMEs,			NGOs, NGAs, MSMEs and	
KRA3)			akeholders as a			other stakeholders in the	
		result of exte	ension			period of pandemic and	
Community						climate change	
Empowerment (G3,						Sgo	
KRA2)	TECHNOLOGICAL						
		L		L	L	1	l .

	LEGAL					OVPREI-21-T6 Restricted working environment due to community quarantine (recast) PRCRTC-21-T2 Reduced engagements to potential partners outside of the region due to COVID restrictions
	ENVIRONMENTAL					
	Human Resource (Internal)		PRCRTC-22-S7 Competent faculty researchers in sustaining partnerships with public and private industries			
	Operations (Internal)			OVPREI-21-W12 Absence of MIS of rehabilitated land, water and forest areas for protection purposes PRCRTC-22-W5 Absence of established mechanism for		
				extension capability building		
	Financial (Internal)			for faculty and staff		
	Marketing/Promotion (Internal)					
0 127 5	DOLUTION:	0 1 1 11 :: 1				
Capability Development (G2, KRA4)	POLITICAL	Conduct of trainings and provisions of advisory service				
(OZ, NNA4)	ECONOMICAL	Provisions of audisory service				
Enhanced capacities of faculty, staff and students to engage in extension (G3, KRA1)	SOCIAL				PRCRTC-22-06 Increase clientele awareness and flexibility in availing training and advisory services through online platforms	
Community	TECHNOLOGICAL					
Empowerment (G3, KRA2)	LEGAL					PRCRTC-22-T3 Limited face-to-face trainings and advisory services due to IATF travel restrictions

	ENVIRONMENTAL					
	Human Resource (Internal)		PRCRTC-22-S8 Presence of experts in extension and advisory services	PRCRTC-22-W6 Absence of faculty researcher focused on extension and communication		
	Operations (Internal)			PRCRTC-22-W7 Unstable internet connectivity for online trainings and webinars		
	Financial (Internal)					
	Marketing/Promotion (Internal)		PRCRTC-22-S9 PhilRootcrops Learning Site and demo farms			
Communication of Research Results (G2, KRA5)	POLITICAL	Delivery of extension programs consistent with the SUC's mandate and priority programs			OVPREI-21-O14 Internet infrastructure of the country is a priority program of DICT	
Enhanced capacities of faculty, staff and students to engage in	ECONOMICAL	, , , , , , , , , , , , , , , , , , , ,			PRCRTC-22-07 Funding support to rootcrop extension programs for pandemic and climate change response	PRCRTC-22-T4 Competition between institutions with similar extension agenda
extension (G3, KRA1) Community Empowerment (G3, KRA2)	SOCIAL					OVPREI-21-T10 Proliferation of private and public institutions offering NFE certification courses OVPREI-21-T11 Other SUCs with similar mandate have better website presence
	TECHNOLOGICAL					website presence
	LEGAL					
	ENVIRONMENTAL					
	Human Resource (Internal)		PRCRTC-22-S8 Presence of experts in extension and advisory services	PRCRTC-22-W8 Insufficient institutional budget allocation for extension		

C. NEEDS OF INTERE	Financial (Internal) Marketing/Promotion (Internal)		PRCRTC-22-S10 Presence of strong extension program "Integrated Extension Program for Rootcrops"	OVPREI-21-W15 Non-compliance of Non-Formal Education (NFE) facilities to accreditation standards OVPREI-21-W17 Highly static website content and low presence in digital media		
Interested Party:	POLITICAL	Research mentoring				
Students	ECONOMICAL					
	SOCIAL				PRCRTC-22-08 Interdepartmental collaboration for research mentoring through OJT and immersion programs	PRCRTC-22-T5 Limited interaction with students due to COVID-19 restrictions
	TECHNOLOGICAL				PRCRTC-22-09 Available technologies for alternative approaches of research mentoring	
	LEGAL					
	ENVIRONMENTAL					
	Human Resource (Internal)		PRCRTC-22-S1 Pool of experts with diverse background in research	PRCRTC-22-W9 Inadequate S&T background/foundation of students		
	Operations (Internal)		PRCRTC-22-S2 Existing on-going internal and external funded research projects/studies PRCRTC-22-S11 Available laboratory facilities for research and innovation	PRCRTC-22-W10 Unstable internet connectivity for online consultation		
	Financial (Internal)					
	Marketing/Promotion (Internal)					

Vision: Mission:

Interested Party:	POLITICAL		Good and safe working				
Employees (Faculty,	ECONOMICAL		environment in research			PRCRTC-22-O10 Available	
Staff, and Administrative and			laboratories/experimental areas			funds from funding agencies	
Support Staff)	SOCIAL					for S&T facility improvement	
, , ,	TECHNOLOGICAL						
	LEGAL						OVPREI-21-T12 Non-
	LEGAL						compliance to safety standards (BFP, GAP, GMP, etc)(W21)
	ENVIRONMENTAL						, , , ,
	Human Resource (Internal)						
	Operations (Internal)			PRCRTC-22-S12 Project for repair, rewiring, and provision of additional research equipment and facilities (Rootcrops Genomics: Securing Rootcrops Genetic Diversity and Enhancing Crop Improvement for a Climate Smart Agriculture)	OVPREI-21-W20 Deteriorating and/or inadequate research and processing laboratories (e.g.non compliant to GMP) OVPREI-21-W21 Unstable power supply and inadequate electrical connections		
	Financial (Internal)						
	Marketing/Promotion (Internal)						
	POLITICAL		Job security /tenure				
	ECONOMICAL						
	SOCIAL						
	TECHNOLOGICAL						
	LEGAL		 				
	ENVIRONMENTAL						
	Human Resource (Internal)				PRCRTC-22-W11 Limited regular positions and job order status of researchers and administrative officers		

Operations (Internal) Financial (Internal)		PRCRTC-22-S13 Available plantilla positions for Science Research Assistant/Aide, Administrative Officer	ovprel-21-W-22 No regular staff (administrative and technical positions) assigned to some research centers (eg. RCCRDC, ARIC, ViCARP, Extension, Research and Innovation)		
Marketing/Promotion (Internal)					
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POLITICAL	Training and personnel				
ECONOMICAL	development				
SOCIAL				PRCRTC-22-O1 Collaboration between research institutions and funding agencies	PRCRTC-22-T5 Limited opportunity for hands-on training due to COVID-19 restrictions
TECHNOLOGICAL				PRCRTC-22-O11 Available on-line training/webinars	
LEGAL					
ENVIRONMENTAL					
Human Resource (Internal)		PRCRTC-22-S1 Pool of experts with diverse background in research PRCRTC-22-S14 New faculty researchers are receptive to training and mentoring	PRCRTC-22-W2 Majority of senior faulty researchers are due for retirement		
Operations (Internal)		PRCRTC-22-S15 Existing Information, Education & Communication Committee	PRCRTC-22-W12 No proper turnover of documents from outgoing to incoming researchers (faculty and research assistants)		
Financial (Internal)			,		
Marketing/Promotion (Internal)					
	_				
POLITICAL	Adequate facilities and				
ECONOMICAL	resources				
SOCIAL					

	TECHNOLOGICAL					
	LEGAL				PRCRTC-22-012 Regulatory policies of exchange in materials	
	ENVIRONMENTAL					PRCRTC-22-T6 Utilization of disease-infected planting materials clienteles (farmers and researchers)
	Human Resource (Internal)					
	Operations (Internal)		PRCRTC-22-S6 BPI Accredited PhilRootcrops nursery for sweetpotato and cassava planting materials distribution PRCRTC-22-S16 FDA compliant food processing laboratory PRCRTC-22-S17 Germplasm collections of 4 major rootcrops (cassava, sweetpotato, taro, yam) PRCRTC-22-S18 Established protocol for cassava and sweetpotato	PRCRTC-22-W13 Non-compliance of periodic equipment calibration in research laboratories PRCRTC-22-W14 Germplasm collections are exposed to biotic and abiotic stresses PRCRTC-22-W15 Slow procurement of resources and facilities for research and innovation		
			pre-planting treatment			
	Financial (Internal)					
	Marketing/Promotion (Internal)					
Interested Party:	POLITICAL	Communities' request problems				
Community	ECONOMICAL	are addressed based on needs				
	SOCIAL				PRCRTC-22-013 Available social media and communication routes for promotion and awareness	PRCRTC-22-T7 Losing stakeholders and target client's interest in the extension project
	TECHNOLOGICAL					
	LEGAL					
	ENVIRONMENTAL					

	Human Resource (Internal)				
	Operations (Internal)	1			
	Financial (Internal)				
	Marketing/Promotion (Internal)		PRCRTC-22-S5 Availability on-air and digital broadcast	PRCRTC-22-W16 Weak stakeholders engagement	
			program "Magmalambuon sa Lagutmon" for technology promotion	and participation in development programs and projects	
			PRCRTC-22-S19 RBME system to ensure relevance and alignment of extension projects		
Interested Party:	POLITICAL	Environmental protection and			
Government	ECONOMICAL	ethical behavior			
Agencies and Regulatory Bodies	SOCIAL				
Regulatory Boules	TECHNOLOGICAL				
	LEGAL				
	ENVIRONMENTAL				
	Human Resource (Internal)				
	Operations (Internal)		PRCRTC-22-S20 Exiting policy on solid waste management	PRCRTC-22-W17 Non- compliance of DENR regulatory requirements	
	Financial (Internal)			, ,	
	Marketing/Promotion (Internal)				
Interested Party:	POLITICAL	Compliance with standards and			
Accrediting Agencies	ECONOMICAL	requirements			
	SOCIAL				
	TECHNOLOGICAL	1			
	LEGAL				
	ENVIRONMENTAL	1			
	Human Resource (Internal)	1			
	Operations (Internal)		PRCRTC-22-S21 Compliant to ISO 9001 standards (No NC)	OVPRE-19-W36 Extensive paper works	
	Financial (Internal)	1	/		

	Marketing/Promotion (Internal)						
Interested Party:	POLITICAL	Proper and efficie					
Government, Non- government Agencies	ECONOMICAL	funds as indicated of reference	d in the terms				
and Accrediting	SOCIAL	of reference					
Agencies	TECHNOLOGICAL						
	LEGAL					PRCRTC-22-O14 Effective and efficient annual auditing of fund utilization	OVPRE-19-T18 Stringent rules and regulations on procurement law
	ENVIRONMENTAL						
	Human Resource (Internal)						
	Operations (Internal)			PRCRTC-22-S22 Established guidelines for procurement (PPMP and PR)	OVPRE-19-W35 Slow procurement process		
	Financial (Internal)			,			
	Marketing/Promotion (Internal)						
	POLITICAL	Timely submission	n of reports				
	ECONOMICAL						
	SOCIAL					PRCRTC-22-015 Scheduled reporting of project updates to concerned agencies	OVPRE-19-T19 Very short notice from concerned agencies on deadlines
	TECHNOLOGICAL						
	LEGAL						
	ENVIRONMENTAL						
	Human Resource (Internal)						
	Operations (Internal)			PRCRTC-22-S23 Submission of quarterly reports	OVPRE-19-W31 Delayed submission of reports from other concerned units (e.g financial, terminal reports) OVPRE-19-W33 Work overload		
	Financial (Internal)						
	Marketing/Promotion (Internal)						

Red – issues identified in OVPREI ROAM 2021 with risks that were not minimized or eliminated

Black- new issues identified by the center

Blue – non conformities detected and customer feedback

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