

# National Innovation System



Republic of Mozambique Ministry of Education and Culture  
National Directorate of Science, Technology and Innovation



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## Strengthening the National System of Innovation in Mozambique

**Hammamet, Tunisia**  
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DNCTI

# Presentation objectives



**Provide an overview  
of the technical  
assistance.**



**Share progress and  
highlight the initial  
findings.**



**Outline how  
Mozambique plans to  
foster innovation.**

# Scope of Technical Assistance

*NIS Framework & Roadmap for Low-Carbon Climate-Resilient Development — Mozambique*

**Objective:** Introduce an effective NIS that fosters low-carbon and climate-resilient economic development in Mozambique through endogenous innovation.

1

## NIS Working Group

- Form multi-sector WG (up to 20 members)
- 2-day in-person inception workshop
- 4 quarterly validation meetings

WG member list · Workshop report · Meeting minutes | **Month 1–13**

2

## National Innovation Environment Assessment

- Policy & regulatory landscape mapping
- Stakeholder & sector ecosystem mapping
- SWOT analysis (strengths, weaknesses, opportunities, barriers)

National Innovation Environment Report | **Month 2–4**

3

## NIS Framework & Roadmap

- NIS Framework: vision, governance & priority actions
- Implementation Roadmap: timelines, budgets & KPIs
- Aligned with NDC, NAP & STI Strategy

NIS Framework · Implementation Roadmap | **Month 5–10**

4

## Institutional Innovation Support

- Revitalization strategy: Maluana S&T Park
- University Innovation Support Centre concept
- ≥3 financing mechanism concept sheets

Park strategy · Centre concept · Finance concepts | **Month 7–10**

5

## Communication & Engagement

- Multi-stakeholder communication plan
- National Innovation Dialogue (50 participants)
- Press release · closing webinar

Communication Plan · Innovation Dialogue Report | **Month 9–15**

# Context: The National Development Ambition



**Strategic vision**



**Role of innovation**



**Policy and  
institutional reforms**

# Context: Climate Reality



**Climate vulnerability**



**Impacts of climate change**



**Economic and development challenges**

## Context: Why Strengthen Mozambique's National Innovation System?

1

**Bridge the  
policy-  
implement  
ation gap**

2

**Connect  
knowledge  
to market**

3

**Mobilize  
risk capital**

4

**Build  
systemic  
resilience**

5

**Foster  
inclusive  
participatio  
n**

# Preliminary results of the National Innovation Environment Assessment (1)

System Architecture

Legal & policy framework



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graph TD; A[Legal & policy framework] --> B[Research capacity]; B --> C[Innovation ecosystem]; C --> D[Academia-industry linkages]
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Research capacity

Innovation ecosystem

Academia-industry linkages

# Preliminary results of the National Innovation Environment Assessment (2)

## Stakeholder Perceptions: Key system challenges

Policy execution  
gaps

Weak research–  
industry  
linkages

Funding “Valley  
of Death”

Limited private  
sector  
engagement

Centralized  
innovation  
ecosystem

# Initial findings on the National Innovation Environment Assessment (3)- SWOT ANALYSIS.

## **STRENGTHS (Internal)**

- Young and energetic demographics
- Modernized policy framework
- Strategic institutional centers

## **WEAKNESSES (Internal)**

- Prohibitive cost of capital
- Knowledge sovereignty risk
- Functional fragmentation

# Initial findings on the National Innovation Environment Assessment (4)- SWOT ANALYSIS.

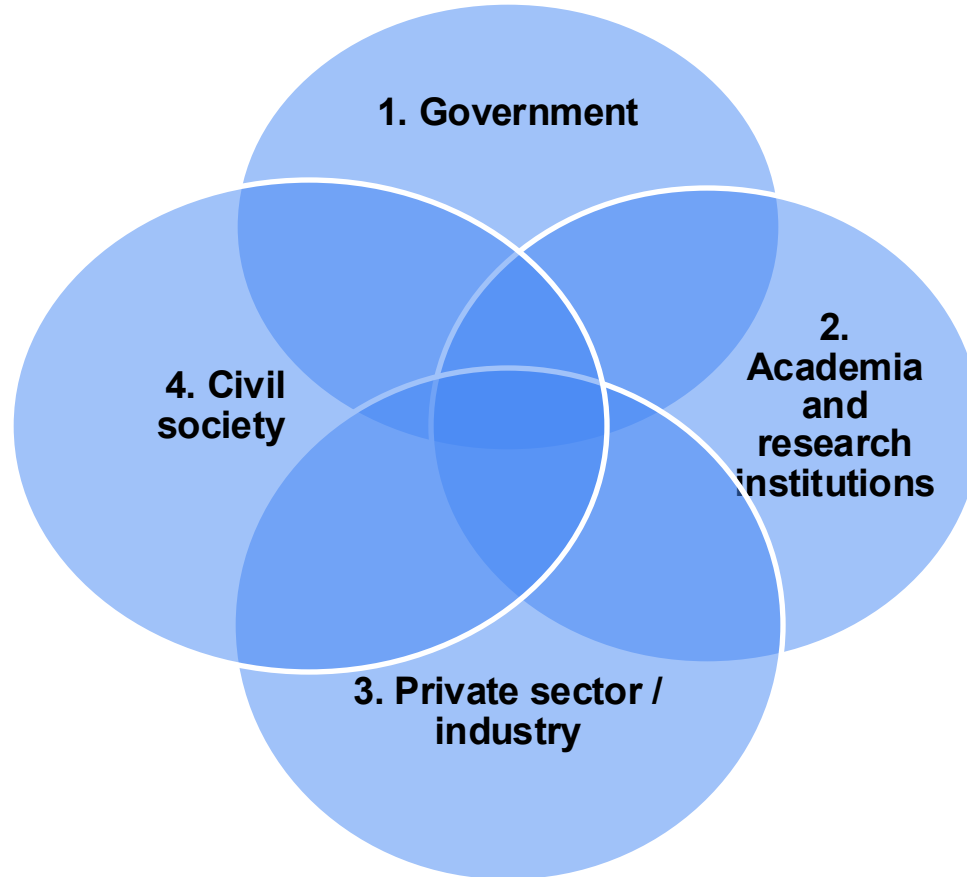
## **OPPORTUNITIES (External)**

- Regional markets and carbon finance
- SADC value chains
- Energy innovation

## **THREATS (External)**

- The “Resilience Trap”
- Carbon Border Adjustment Mechanism (CBAM) risks
- Infrastructure dependency

# The Quadruple Helix Innovation Model



# Priority Initiatives for Innovation Infrastructure

## 1. Revitalize Maluana science & technology park

*Objective:* Strengthen coordination across innovation actors.

*Addresses:* Functional fragmentation in the innovation ecosystem.

## 2. University innovation centres & strengthened incubators

*Objective:* Enhance entrepreneurship support and technology transfer.

*Addresses:* Weak academia-industry linkages.

## 3. Dedicated innovation financing mechanisms

*Objective:* Provide funding to scale promising ideas.

*Addresses:* The “Valley of Death” for early-stage innovators.

# Expected Results

*NIS Framework & Roadmap for Low-Carbon Climate-Resilient Development — Mozambique*

**Outcome:** Enhanced endogenous capacity for innovation through effective policies, institutional support, and strengthened innovation capacities across relevant stakeholders.

## **NIS Policy Framework**

A government-endorsed framework with vision, governance structures, and priority actions aligned with Mozambique's STI Strategy, NDC, NAP, and climate commitments.

## **Implementation Roadmap**

A sequenced, costed roadmap with timelines, lead institutions, and KPIs—bridging the NIS vision to actionable steps for climate-resilient innovation.

## **Innovation Environment Assessment**

Comprehensive mapping of policies, stakeholders, and sectoral capacity, plus a SWOT analysis establishing the evidence base for NIS design.

## **Strengthened Institutions**

Revitalization strategy for Maluana S&T Park, a concept for university innovation centres, and ≥3 tailored financing mechanisms for SMEs, startups & R&D.

## **Stakeholder Engagement**

An active NIS Working Group, inception workshop, quarterly consultations, and a National Innovation Dialogue catalyzing cross-sector ownership.

## **Communication & Visibility**

A multi-stakeholder communication plan, innovation dialogue report, press release, and closing webinar amplifying NIS adoption and attracting follow-on investment.

# Next Steps (1): Designing the NIS Framework & Roadmap

The NIS  
Strategic  
Framework

The  
Implementation  
Roadmap

Public-Private  
Co-Creation

# Next Steps (2) Operationalizing priority initiatives



Mobilize strategic partnerships



National stakeholder roundtables



Targeted SME support

# Continuing our momentum – Regional Peer Network



1. Regional collaboration & peer learning



2. Knowledge sharing & best practices



3. From strategy to implementation



MUITO OBRIGADO!  
Thank you very much for  
your attention!

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