



NATIONAL SUSTAINABILITY CO-OPERATIVE

Circular Sustainability. Cooperative Strength.



EXECUTIVE SUMMARY

Purpose

Establish South Africa's integrated regenerative-economy cooperative platform combining environmental restoration, agritech, circular manufacturing, tourism and digital infrastructure.

Key facts:

- Pilot footprint: BioChar2Thicket pilot, Gouritz Bridge Sustainable Tourism Hub, national grid of Mobile AutoPods, agritech applied to household and schools through EcoPods, circular economy 'from seed to plant/equipment, to plates
- Platform: National apex co-operative + five regional hubs
- 10-year ambition: 5 flagship hubs; national carbon aggregation and export-oriented green industrialization.

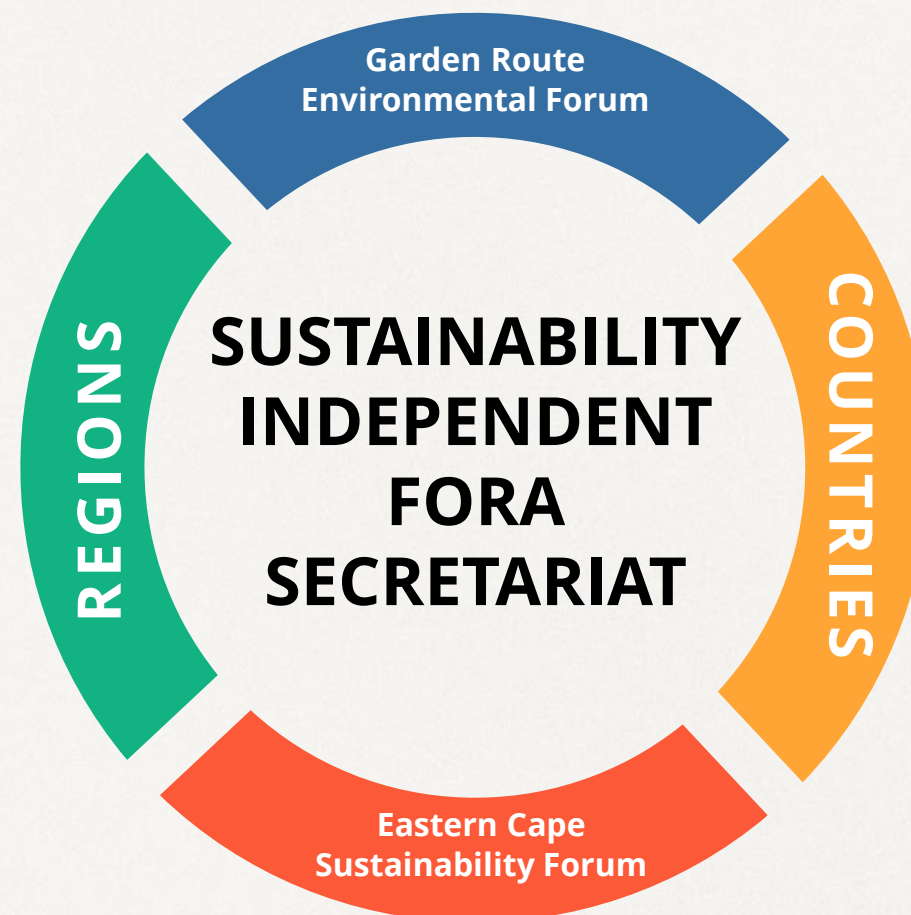


ENABLING ENVIRONMENT

- Portals
- EEE TechStack
- Developments - Gated
- Retrofits
- Manufacturing – plant/equip
- Crops - EcoPods
- Automotive – AutoPods/Hubs
- Tourism
- XChanges

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- Publishing capacities
- Enterprise formatting tools
- PPP readiness support
- Revenue streams
- Connectivity & IPTV access

Cobus.Tech

- MoPay.co.za
- OmniMo.co.za
- Smartfarms.co.za
- CarbonTaxSA.co.za
- Smarttechfunding.co.za
- ICTCompliance.co.za
- SmartBiometrics.co.za
- Water360.co.za
- MobileHub.co.za
- EquipmentXChange.net
- IOTServices.co.za
- SmartRetro.co.za
- IOTLogistics.co.za
- Communitysustainability.co.za

SPECIALIST SUPPLIERS

- Connectivity 360 degrees
- Software and apps
- IPTV
- Fintech
- Tokenization
- DFI liaison
- FMP's – MobileHub

INTERNATIONAL APEX'S

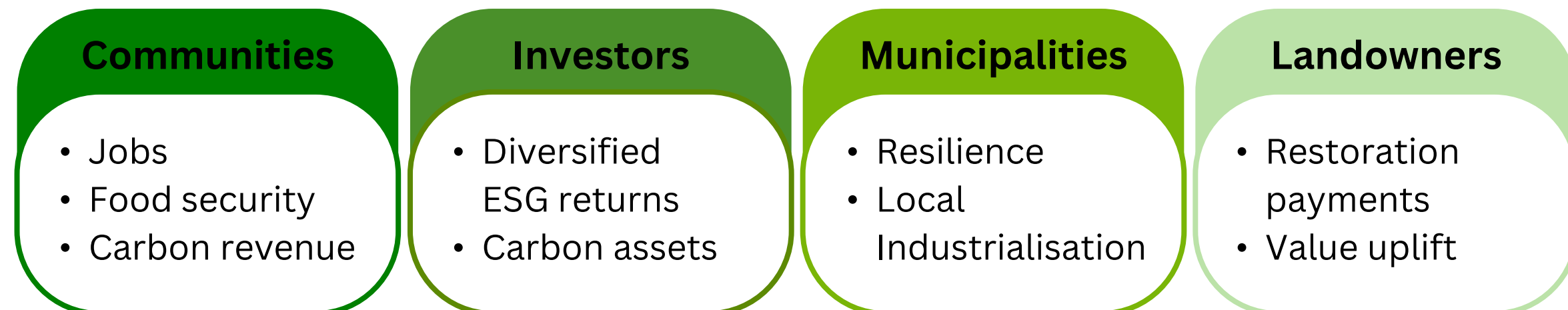
- 11 Professional Associations
- 8 Industry Apex Associations
- 13 Fora and Regional Associations
- 26 Recognized Channel Thought Leaders Panel
- 17 Technology Collaborations

VALUE PROPOSITION

Why EnviroDev matters

- Integrated systems: agriculture, carbon, manufacturing, tourism, fintech, Facilities Management Platforms
- Circular economy: feedstocks → biochar → soil & building materials and plants.
- Community ownership: carbon as a community asset; cooperative finance pathways.

Stakeholder benefits



DIVISIONAL OVERVIEW

TECHSTACK

- ❑ Portals
- ❑ Facilities Management Platforms
- ❑ Connectivity Layer
- ❑ IPTV – broadcasting
- ❑ Transactional portal, fintech
- ❑ Developers' Packs
- ❑ Retrofit Kits
- ❑ 5IR design, fabrication

GATED COMMUNITIES

- Assessment Bundles
- HOA Support Platforms
- EquipmentXChanges
- Circular EcoXChanges
- Reciprocities Platforms-
 - Property
 - Vehicles
 - Skills
- Token/Fintech Exchanges
- Water 360 catalogue

SUSTAINABILITY

- ❖ Modular Production-
 - Crops – food, moringa, hemp
 - Biochar, fertilizer, health supplements
 - Construction- and road-building materials
- ❖ Education
- ❖ Venues and programmes
- ❖ Off-taker community support
- ❖ PPP facilitation
- ❖ Carbon Credit Hubs/Co-ops
- ❖ MVP360 projects

FUNDING

- ✓ Collateral instruments
- ✓ Project pipeline funding
- ✓ MVP and Twinning Platforms
- ✓ Human Capital Development Hubs
- ✓ DFI Collaborations
- ✓ Sustainability and Green Energy Banks
- ✓ Asset Tokenization Funding Channels
- ✓ Green Finance Hub

FLAGSHIP PROJECTS OVERVIEW

BioChar2Thicket

1,000-ha pilot integrating thicket restoration, carbon finance, manufacturing and rural development.

EcoPod

Modular water-efficient rotating hydroponic pod for gated estates, schools and hospitality.

Gouritz Bridge Development

Boutique container hotel, Biosphere and Sustainability educational exhibition, renewable energy and visitor precinct.

AutoPods

Mobile workshops using fleet telematics, predictive maintenance and carbon accounting for consumer and corporate fleets.

BIOCHAR2THICKET

Objective:

- Restore degraded landscapes
- Produce biochar, reduce alien species
- Generate verified carbon credits
- Manufacture carbon-negative products.

Layers:

- Restoration (Spekboom, moringa, hemp)
- Carbon (MRV, verification, credits)
- Manufacturing (Biochar, soil enhancers)
- Rural Economy (Jobs, SMEs, skills).

Outputs (per 1,000 ha pilot)

OUTPUT	INDICATIVE ANNUAL
Biochar (t)	3,000 – 6,000
Carbon sequestration (tCO ₂ e)	25,000 – 60,000 (biochar stream)

Scale pathway: 1,000 ha → 10,000–50,000 ha → 100,000+ ha.

ENVIRODEV ECOPOD & FOOD SYSTEMS

EnviroDev EcoPod features:

- Removable top crates (4–6).
- Central service core and return flow reservoir (No waste).
- 360° rotating base for even exposure.
- Optional transparent/shade covers; modular expansion.

Deployment Models

- Estate rollouts (Gated communities).
- Schools and community hubs (Nutrition & skills).
- Hospitality supply (Hotel kitchens, restaurants).

Performance Metrics

METRIC	TARGET / NOTE
Water use reduction	Up to 90% vs open field
Pod crates	4–6 removable crates
Typical uses	Homes; schools; restaurants; community projects



SUITABLE FOR

-  Homes
-  Schools
-  Patios
-  Restaurants
-  Community Projects



SUNTURN 360° ROTATING BASE



-  **360° even exposure**
More even sunlight and more uniform growth.
-  **Low-profile steel base**
Strong, durable and built for long-term use.
-  **Locking pin**
Locks the pod securely in place for stability and safety.

 The low-profile steel base with high-load bearings enables smooth, stable 360° rotation.

How EcoPod Works

A smart, water-conscious food production system that uses every drop efficiently.



-  **REMOVABLE TOP CRATES**
4-6 crates for vegetables, herbs and crops.
-  **GROWING MEDIUM AND ROOT ZONE**
Supports strong root development and healthy plants.
-  **ADJUSTABLE SIDE PIPES**
The side pipes can be adjusted outward; the lower pipe extends farther out than the upper pipe so plants do not sit directly under each other and can receive more light.
-  **CENTRAL SERVICE CORE**
The core distributes water through the system to the top crates and side pipes.
-  **WATER RESERVOIR**
The water reservoir below stores water for the entire system.
-  **RETURN FLOW**
Excess water returns to the reservoir for reuse. No waste.
-  **SUNTURN 360° ROTATING BASE**
Rotate the pod for better sunlight and more even growth.



MODULAR — ADD PODS AS NEEDED

Start with one pod and expand as your space or needs grow. Each EcoPod works independently and can be easily added to the system.



Add more pods as your space or needs grow. Simple. Flexible. Effective.



FULL COVER OPTIONS

Choose the cover that works best for your climate and needs.

TRANSPARENT COVER



Full protection with maximum light for optimal growth.

SHADE NET COVER



Reduces sunlight intensity to help manage temperature.

TOP-ONLY COVER



Protects from rain and dust while allowing airflow.

-  **REMOVABLE TOP CRATES**
4-6 removable growing crates for vegetables, herbs and greens.
-  **GROWING MEDIUM**
High-quality medium for strong root development and healthy plants.
-  **ROOT ZONE**
Roots grow in the medium and absorb nutrients from the water.
-  **SIDE GROW CHANNELS**
Nutrient-rich water flows through the side channels to feed the plants.
-  **CENTRAL SERVICE CORE**
The central core houses the pump and distributes water to all channels efficiently.
-  **RETURN FLOW**
Used water flows back to the reservoir for reuse. No waste.
-  **WATER RESERVOIR**
Stores water in the unit. Less frequent refills between maintenance periods.
-  **PUMP**
The pump circulates water through the system. Durable, energy-efficient and reliable.



SunTurn 360° rotating base

The low-profile steel base with a heavy-duty bearing system delivers smooth 360° rotation. Improves sunlight exposure and more even growth from all sides.



GOURITZ BRIDGE DEVELOPMENT

Vision

Africa's gateway to regenerative tourism – adaptive reuse of heritage bridges into a sustainability precinct.

Community & education

Spekboom centre, restoration showcases, skills training, local enterprise incubation.

Components

- 30-room container hotel (15 per side).
- 3 public area modules over support piers.
- 10m Ø pool; restaurant (80–100 seats); welcome centre; biosphere exhibition.
- Renewable energy: 50 vertical axis turbines + solar PV; battery storage; rainwater harvesting.

BROADER PERSPECTIVES AND AMBITIONS

- ❖ A series of such hospitality venues, comprising a Sustainability Route around SA
- ❖ Integration with all ports of entry to SA
- ❖ Full own IPTV Sustainability Channel
- ❖ International route expansions
- ❖ Array of Public-Private Partnerships
- ❖ Regional technology-driven support centre for local tourism offices and tour operators
- ❖ Incubator for Human Capital Development in Sustainability, driven by e-learning/IPTV
- ❖ Fly-in academic tourism - Sustainability

During The Day:

GOURITZ BRIDGE CONTAINER HOTEL

30 CONTAINERS | 15 PER SIDE | SUSTAINABLE. HERITAGE. UNFORGETTABLE.

PUBLIC AREA – LOUNGE

- SKY LOUNGE & BAR
- LIBRARY & RELAXATION
- OUTDOOR TERRACE
- 10m Ø x 1.2m DEEP POOL

PUBLIC AREA – DINING ROOM

- RESTAURANT (80–100 SEATS)
- PRIVATE DINING
- OUTDOOR TERRACE

PUBLIC AREA – KITCHEN & FACILITIES

- COMMERCIAL KITCHEN
- COLD ROOMS & DRY STORAGE
- STAFF FACILITIES
- LAUNDRY & SERVICE LIFT

WELCOME CENTRE

- RECEPTION
- HERITAGE EXHIBITION
- COFFEE SHOP
- SHUTTLE LIFT TO BRIDGE

50 x VERTICAL AXIS WIND TURBINES
MOUNTED TO STEEL TRELLIS BEAMS



SOLAR PV SYSTEMS
ON ALL ROOFS



VERTICAL AXIS
WIND TURBINES



BATTERY STORAGE
& ENERGY MANAGEMENT



RAINWATER HARVESTING
& GREYWATER REUSE



SUSTAINABLE
BY DESIGN



MODULAR CONSTRUCTION
LOW IMPACT INSTALLATION



HERITAGE RESPECT
ADAPTIVE REUSE

EASTERN WELCOME CENTRE



LOUNGE TERRACE & POOL



DINING ROOM INTERIOR



GUEST CONTAINER ROOM



DAYTIME VIEW



PROJECT HIGHLIGHTS

- 30 LUXURY CONTAINER ROOMS
- 3 PUBLIC AREAS OVER SUPPORT PIERS
- 10m Ø POOL AT LOUNGE TERRACE
- 50 VERTICAL AXIS WIND TURBINES
- SOLAR PANELS ON ALL ROOFS
- WELCOME CENTRE WITH SHUTTLE ACCESS
- SUSTAINABLE, MODULAR, REVERSIBLE DESIGN

ELEVATION – 30 CONTAINERS



KEY PROJECT DATA

- TOTAL CONTAINERS: 30
- ROOMS: 15 PER SIDE
- MAX GUESTS: 60 (BASED ON 2 PER ROOM)
- RESTAURANT CAPACITY: 80–100 SEATS
- LOUNGE CAPACITY: 80 SEATS
- POOL: 10m Ø x 1.2m DEEP
- STAFF ESTIMATE: 25–35

At Night:

GOURITZ BRIDGE CONTAINER HOTEL

30 CONTAINERS | 15 PER SIDE | SUSTAINABLE. HERITAGE. UNFORGETTABLE.

PUBLIC AREA – LOUNGE

- SKY LOUNGE & BAR
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WELCOME CENTRE

- RECEPTION
- HERITAGE EXHIBITION
- COFFEE SHOP
- SHUTTLE LIFT TO BRIDGE

15 GUEST CONTAINERS WEST SIDE

15 GUEST CONTAINERS EAST SIDE

50 x VERTICAL AXIS WIND TURBINES MOUNTED TO STEEL TRELLIS BEAMS



SOLAR PV SYSTEMS ON ALL ROOFS



VERTICAL AXIS WIND TURBINES



BATTERY STORAGE & ENERGY MANAGEMENT



RAINWATER HARVESTING & GREYWATER REUSE



SUSTAINABLE BY DESIGN



MODULAR CONSTRUCTION LOW IMPACT INSTALLATION



HERITAGE RESPECT ADAPTIVE REUSE

EASTERN WELCOME CENTRE



LOUNGE TERRACE & POOL



DINING ROOM INTERIOR



GUEST CONTAINER ROOM



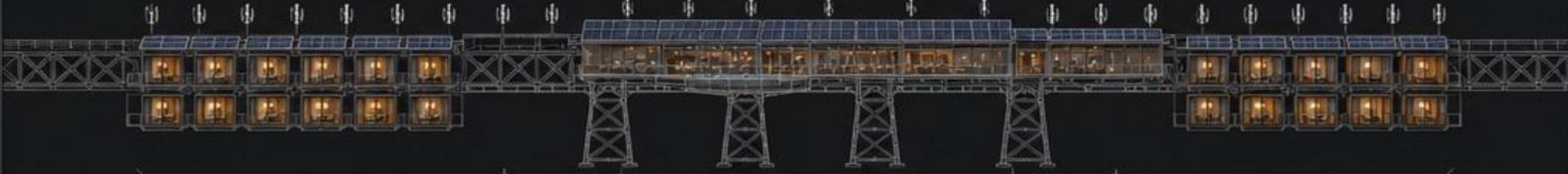
EVENING VIEW



PROJECT HIGHLIGHTS

- 30 LUXURY CONTAINER ROOMS
- 3 PUBLIC AREAS OVER SUPPORT PIERS
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ELEVATION – 30 CONTAINERS



15 CONTAINERS 3 PUBLIC AREA MODULES (OVER 3 SUPPORT PIERS) 15 CONTAINERS

KEY PROJECT DATA

TOTAL CONTAINERS: 30

ROOMS: 15 PER SIDE

MAX GUESTS: 60 (BASED ON 2 PER ROOM)

RESTAURANT CAPACITY: 80-100 SEATS

LOUNGE CAPACITY: 80 SEATS

POOL: 10m Ø x 1.2m DEEP

STAFF ESTIMATE: 25-35

During The Day:



1. BIOSPHERE EXHIBITION AREA
Showcasing the unique flora of the Gouritz Biosphere.

2. INFORMATION BUILDING
200m²
Educational displays and visitor information.

3. TOILET FACILITIES
150m²
Modern, eco-friendly ablution facilities.

4. GARDEN ROUTE TOURISM INFORMATION CENTRE
200m²
Tourism information, route planning and local experiences.

5. REST STOP RESTAURANT
250m²
Scenic restaurant with indoor and outdoor seating, showcasing local cuisine.



RENEWABLE ENERGY
5 Vertical Axis Wind Turbines integrated within the bridge structure.



Solar panels on all roofs generate clean, renewable energy to power the precinct.



A BRIDGE REIMAGINED
Honouring heritage while creating a sustainable destination that connects people with nature, culture and community.



SUSTAINABLE DESIGN
Low-impact architecture using natural materials, solar energy and rainwater harvesting.



ACCESSIBLE & INCLUSIVE
Universal access for all visitors with safe walkways, seating areas and viewing points.



HERITAGE PRESERVATION
Retaining the historic character of the bridge while giving it a new purpose and life.



ECONOMIC & COMMUNITY BENEFIT
Creating local jobs, supporting small businesses and promoting sustainable tourism in the Gouritz Biosphere.

GOURITZ BRIDGE DEVELOPMENT Continued

Key pilot project data

ITEM	VALUE
Total containers	30
Rooms	15 per side (30 total)
Max guests	60 (2 per room)
Restaurant capacity	80 - 100 seats
Lounge capacity	80 seats
Pool	10m Ø x 1.2m deep
Staff estimate	25 - 35

AUTOPODS NATIONAL MOBILITY PLATFORM

Executive snapshot: AutoPods will deploy a national grid of **AutoHubs** and **mobile AutoPods** to deliver fleet optimisation, diagnostics, predictive maintenance and verified carbon accounting into the EnviroDev National Sustainability Cooperative. **Self-funding model:** R1,000 per vehicle per month target.

Mission: Improve vehicle and driver efficiency using best-of-breed telematics and MRV technology, converting verified emissions reductions into cooperative carbon credits distributed through EnviroDev's Carbon Exchange.

Core offerings:

- **Telematics & Monitoring** OBD-II + SIM + satellite devices for continuous baselining and fuel monitoring.
- **Predictive Maintenance** Fleet analytics to reduce downtime and maintenance costs.
- **Carbon MRV & Aggregation** Telemetry feeds into EnviroDev MRV for verified tCO₂e and credit monetisation.
- **Marketplace & Services** Parts logistics, auctions, valuations, financial products and service-provider network.
- **Consumer Integration** Carpool app and cooperative consumer fleet onboarding with revenue sharing.

Pilot and scale pathway:

- **Pilot:** George — 1 AutoHub + 3 AutoPods; integrate with EnviroDev 1,000-ha pilot MRV.
- **Year 2:** Expand to 26 AutoHubs and 156 AutoPods; target ~117,000 vehicles under management.
- **Years 3–5:** National grid and cooperative consumer fleet integration.

Value proposition:

- **For fleets:** Lower fuel consumption, reduced maintenance costs, improved utilisation.
- **For communities:** Jobs, skills, local enterprise and shared carbon revenue.
- **For EnviroDev:** Additional verified carbon assets, richer MRV data and cross-sell into EnviroDev EcoPods and EquipmentXchanges.

GOVERNANCE AND PARTICIPATION

Legal structure

- EnviroDev National Co-operative Limited (apex).
- Regional primary co-operatives.
- Sustainability & Environmental Fora Secretariat.
- Commercial SPVs: Green Infrastructure Holdings; Carbon Exchange & Sustainability Services; Education & Human Capital Trust; EquipmentXchanges.

Governance model

Independent board; technical advisory councils; community representation; transparent reporting and ESG dashboards.

Participation pathways

Founding members; landowners; tribal authorities; municipalities; educational institutions; strategic partners; investors; sustainability organisations.

FINANCIAL SUMMARY – PILOT CAPEX

Single integrated pilot hub – CapEx (ZAR)

COMPONENT	ESTIMATE (ZAR)
Land preparation	25,000,000
Agrivoltaics	350,000,000
Hydroponics & aquaponics	120,000,000
Processing plants	90,000,000
Biochar sytems	75,000,000
Renewable energy storage	45,000,000
Smart infrastructure	35,000,000

FINANCIAL SUMMARY – PILOT CAPEX

Single integrated pilot hub – CapEx (ZAR)

COMPONENT	ESTIMATE (ZAR)
Digital platforms	45,000,000
Education facilities	35,000,000
Construction materials facility	110,000,000
Working capital	150,000,000
Professional services	40,000,000
Contingencies	120,000,000
TOTAL (APROX)	~1,400,000,000

10-YEAR EXPECTATIONS

Year-5 revenue (pilot)

REVENUE STREAM	ESTIMATE (ZAR)
Agriculture	180,000,000
Energy	95,000,000
Carbon Credits	60,000,000
Construction Materials	220,000,000
Technology Platforms	45,000,000
Education & Tourism	35,000,000
Waste Recycling	30,000,000
TOTAL (YEAR 5)	~665,000,000

10-year national targets

- Annual turnover: ZAR 8B – 15B.
- Carbon assets value: > ZAR 2B.
- Export revenues: > ZAR 3B p.a.
- Employment (10 years): Direct 15,000–35,000; Indirect 50,000–120,000.
- Carbon sequestration (5-hub portfolio): 250,000–600,000 tCO₂e annually.

IMPLEMENTATION ROADMAP

Foundation

(0–6 months)

- Register steering consortium
- Governance formation
- SIP engagement
- Prefeasibility studies
- land aggregation
- Carbon baseline.

**Phase
0**

Pilot Development (6–24 months)

- Agrivoltaic installation
- Biochar pilot
- EcoPod rollouts
- Processing facilities
- Digital platform deployment
- Education launch

**Phase
1**

Regional Scaling

(24–48 months)

- Additional hubs
- Manufacturing scale-up
- Export programme
- Expanded estate participation.

**Phase
2**

National & International (48–120 months)

- 5-hub deployment
- Continental replication
- IPO/listing preparation

**Phase
3**

RISK AND MITIGATION

Key Risk and Mitigation

RISK	MITIGATION
Capital intensity	Phased rollout; blended finance; PPPs
Regulatory delays	SIP Positioning; specialist legal advisors
Carbon market volatility	Diversified revenue streams; long-term offtake agreements
Technology integration	Modular pilots; strategic global partners
Community governance complexity	Clear governance charters; independent oversight

APPENDICES AND DELIVERABLES

Included files:

- EnviroDev_Brochure_Master.docx
- EnviroDev_Pitch_Deck.pptx
- EnviroDev_Financials.xlsx
- EnviroDev_Carbon_MRV_Framework.docx
- EnviroDev_Investor_Memo.pdf

Prefeasibility note:

“Estimated Range: R25 million - R60 million”

90-day next steps: Register steering committee; commission carbon baseline and agrivoltaic engineering studies; prepare SIP submission; build pilot financial model and investor memorandum.

THANK YOU



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