

ESG Ratings MVP: Real-Time Risk Tool for Transition Finance

A data-driven approach to transition finance risk assessment

 **3 Contributors**



Today's Agenda

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Introduction

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The Problem

Current challenges in assessing transition finance risks and opportunities

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Our Solution

ESG Ratings MVP: Real-time risk assessment tools and data-driven approach

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Market Analysis

Target market and competitive landscape assessment

5

Business Strategy

Marketing, sales, and operational implementation plan

6

Financial Projections

Funding request of €150,000 and revenue streams

7

Vision Forward

Driving data-backed transition finance for sustainable future

Management Team



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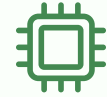
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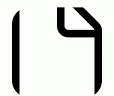


What is Transition Finance?

- Financial strategies helping high-emission sectors shift to low-carbon operations
- Supports industries unable to meet green criteria
- Recognizes structural challenges in decarbonizing



Significance of Transition Finance



Climate Impact

Mobilizes capital where emission reductions have massive impact



Inclusive Transition

Realistic pathway for developing economies and legacy industries



Drives Innovation

Encourages private-sector investment in emission reduction technologies



Prevents Greenwashing

Promotes transparency and measurable KPIs in carbon-heavy sectors

Transition Finance vs. Green Finance



Transition Finance

Targets high-emission industries with plans to reduce impact:

- Steel
- Cement
- Aviation
- Shipping
- Oil & gas



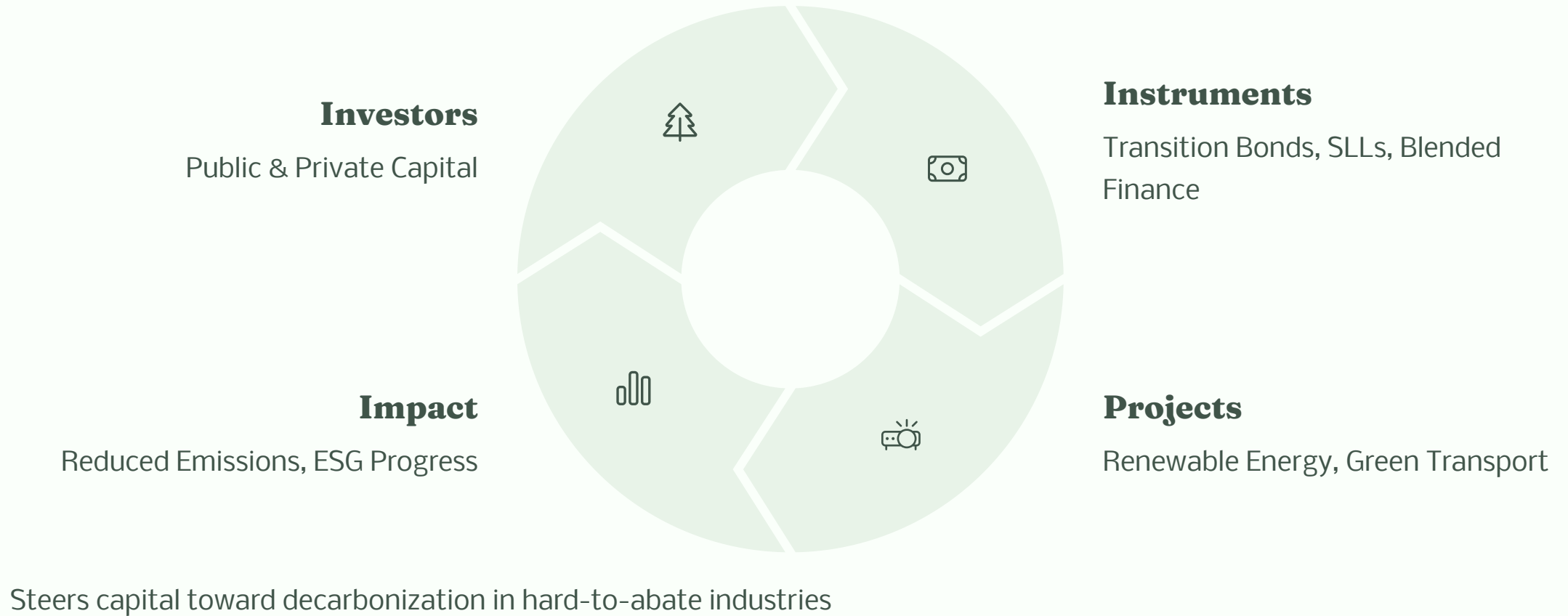
Green Finance

Focuses on already sustainable projects:

- Renewable energy
- Electric vehicles
- Energy-efficient buildings

"Complementary approaches—we need both to meet global climate goals"

Financial Instruments





Limitations and Risks

Greenwashing Risks

40% of transition bonds lack clear climate pathway alignment

Lack of Standardized Frameworks

Inconsistent criteria across regions (EU vs Asia vs Latin America)

Investor Skepticism

Many avoid transition bonds due to unclear KPIs or verification

The Problem

Current ESG Ratings Fall Short:



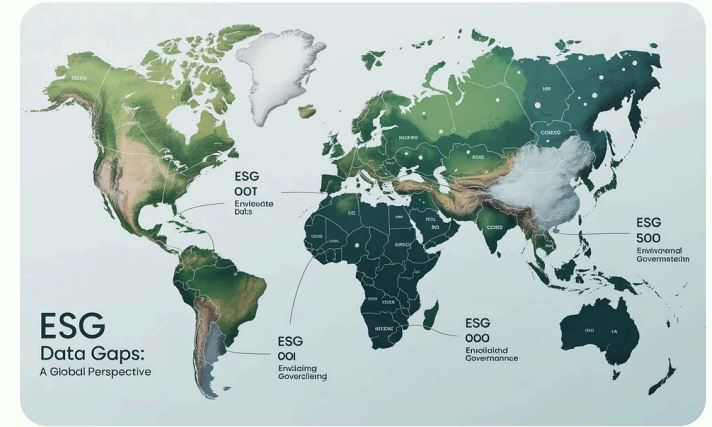
Self-reported data

Companies control what information they share, leading to incomplete and potentially biased ESG assessments



Delayed updates

ESG ratings often rely on outdated information, creating a significant gap between reported and actual performance



Limited coverage

Many sectors and regions lack comprehensive ESG assessment, creating blind spots for investors focused on transition finance

Our Solution: ESG Ratings MVP

- 1 IoT sensors collecting environmental data
- 2 AI/ML models generating dynamic ESG scores
- 3 Real-time risk classification



Real-Time insights – Powering a sustainable Future

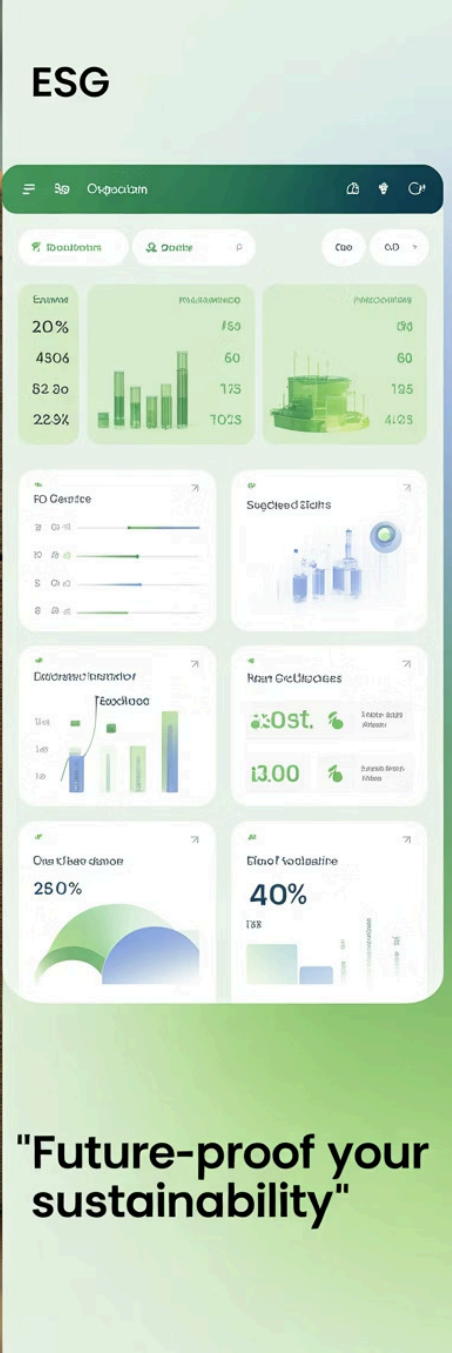
Real-Time Dataset & Analytics

Comprehensive Energy Dataset

- Source: Kaggle
- Hourly time-series data across one full year
- Power consumption, voltage, current, grid frequency
- IoT environmental sensors on smart grids: temperature, humidity, weather
- Multiple energy sources: grid, solar, wind, hybrid systems

Analytics Capabilities

- AI-driven forecasting for energy demand, renewable generation, and efficiency optimization
- Proprietary Energy Efficiency Score (0-100) quantifies overall sustainability performance
- Real-time monitoring for demand response events tracking and peak load management
- ESG risk classification: low, moderate, or high risk



"Future-proof your sustainability"

Objective Measurement vs. Subjective Reports



Collect objective data

Energy usage, emissions, resource consumption



Process with AI models

Pattern recognition, anomaly detection



Generate ESG scores

Real-time ratings with evidence trail

Target Market



Institutional Investors

ESG funds seeking verified data



Sovereign Wealth Funds

Green infrastructure investors



Regulators

Independent ESG audit trails



Project Developers

Energy, transport, logistics



Market Drivers

Regulatory Push

- Mandatory ESG disclosures
- CSRD, SFDR compliance
- Carbon reporting requirements

Investment Demand

- Climate finance > \$1T annually
- Growing ESG investor base
- Transparency demands

Competitive Edge

Competitor	Limitation	Our Edge
MSCI ESG	Annual, not real-time	IoT-driven monitoring
Sustainalytics	Backward-looking	Predictive capabilities
Greenly/Spherics	Carbon-only focus	Full ESG proxy model



Marketing & Sales Strategy

Phase 1

ESG consultants & accelerators

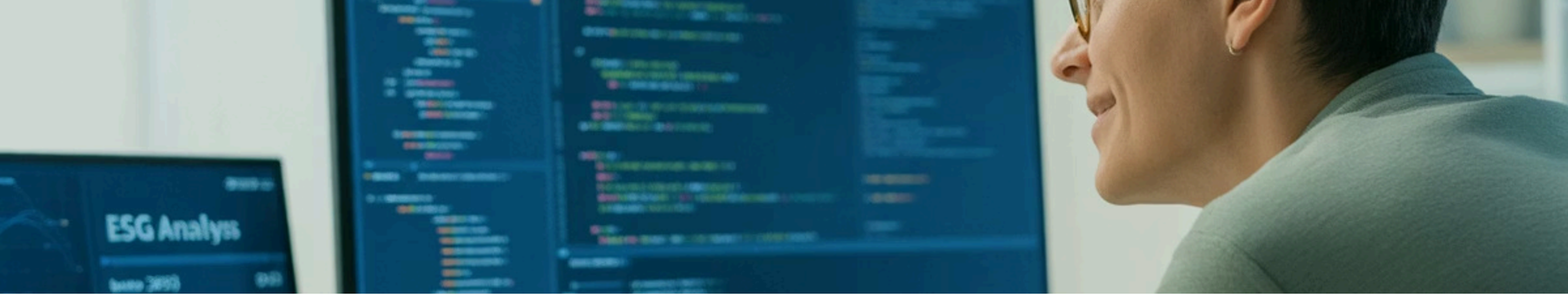
Phase 2

Pilot with infrastructure projects

Phase 3

Direct sales to banks/VCs

Channels: Thought leadership, ESG events, grant programs



Operational Plan

MVP Build

Python/Streamlit frontend, AWS backend

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2

3

AI/ML Module

Random Forest with explainability

Data Ingestion

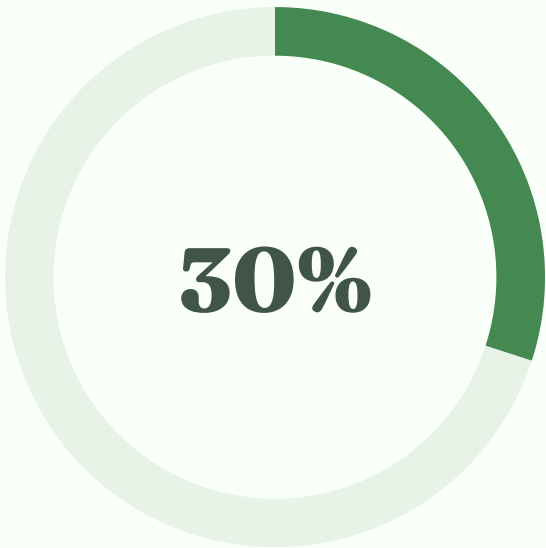
CSV/simulated data → live streaming APIs

Funding Request: €150,000



MVP Development

Tech infrastructure & development costs



Partner Onboarding

Pilot delivery and implementation



Legal & Compliance

ESG audit certification



Marketing

Investor outreach and branding

Revenue Streams

B2B SaaS License

Monthly fee for project-level
ESG tracking

API Access

For investment platforms and
auditors

Consulting Services

Custom ESG modeling for large clients



Driving Data-Backed Transition Finance

- 1 Real-time, verifiable sustainability data
- 2 Objective ESG assessments with evidence
- 3 Enabling informed green investment decisions

Contact Our Team

Request Demo

