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

A data-driven approach to transition finance risk assessment



## **Management Team**



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# Today's Agenda

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Introduction The Problem Our Solution

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Market Analysis Business Strategy Vision Forward

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Demo



# 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

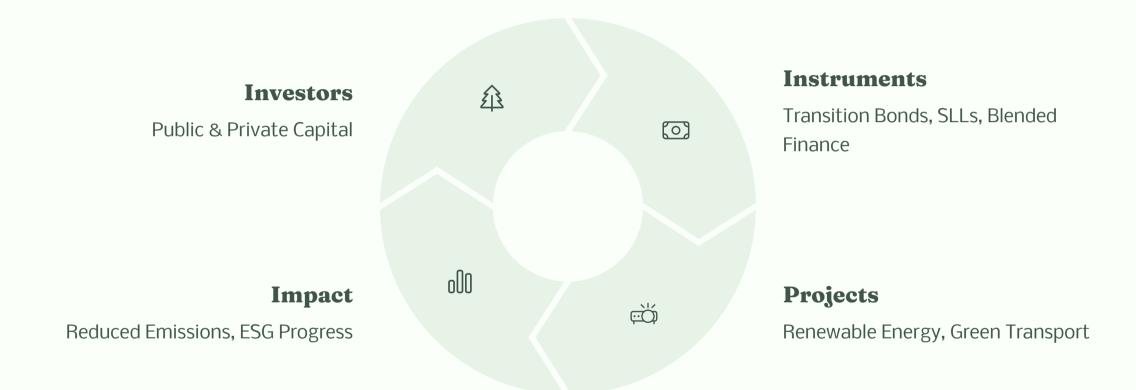
#### **Green Finance**

Focuses on already sustainable projects:

- Renewable energy
- Flectric vehicles
- Energy-efficient buildings

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

### **Financial Instruments**



Steers capital toward decarbonization in hard-to-abate industries



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ESG ratings often rely on outdated information, creating a significant gap between reported and actual performance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

- ML forecasting for energy demand, renewable generation, and efficiency optimization
- Proprietary Energy Efficiency Score (o-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



# Objective Measurement vs. Subjective Reports



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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	Quarterly, not real-time	IoT-driven monitoring
Sustainalytics	Backward-looking	Predictive capabilities
Greenly	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

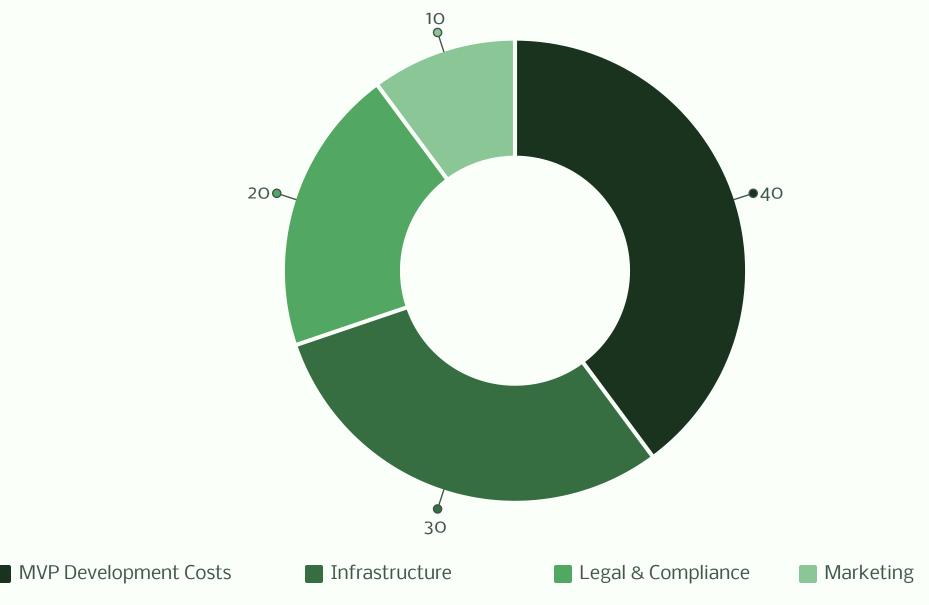


## **Operational Plan**



CSV/simulated data → live streaming APIs

### Funding Request: €150,000



Funding allocation breakdown for developing and launching our ESG Ratings MVP solution. MVP development and technical infrastructure represent the largest portion, followed by the technical infrastructure.

### **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** 

