



AREYLight AI

Street Lights as a Path to Sustainable Revenue

Illuminating Profit through Innovation

Empowering smart cities through energy-efficient lighting and AI-driven solutions

Problem : Energy Demand of Urban Infrastructure



Environmental & Emission Challenges

- High Emissions
- Air Quality Impact
- Environmental Strain



Energy Waste & InEfficient Lighting

- Overconsumption
- Rising Costs
- Lack of Adaptive Control



Maintenance Costs and Unexpected Failures

- Rising Costs from Reactive Maintenance
- Frequent System Breakdowns
- Inefficient Use of Maintenance Resources



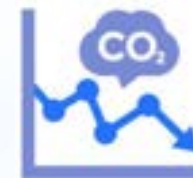
Dynamic Lighting and Smart Management



Up to 80%
Energy Savings



Up to 50% reduce
maintenance costs



Up to 30% Reduction
in Carbon Emissions

Dynamic Lighting and Smart Management

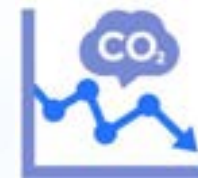
urban
test



Up to 80%
Energy Savings



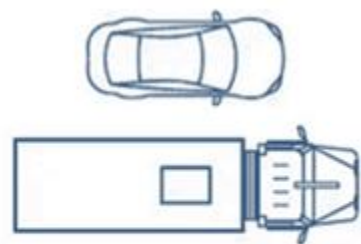
Up to 50% reduce
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Up to 30% Reduction
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AREYLight Generative AI Technology

Inputs



Traffic Data



Weather Data



Road Incidents

Process

ML Algorithm

Traffic, Peds
& Annomaly
Prediction

AREYLight AI
Rules Engine

**AREYLight AI
DMA**

Decision
Making
Algorithm

Light & AIoT
Managment
Platform

Output



AREYLight AI
Real-Time
Lighting
Optimization

AREYTech AI Technology Offering



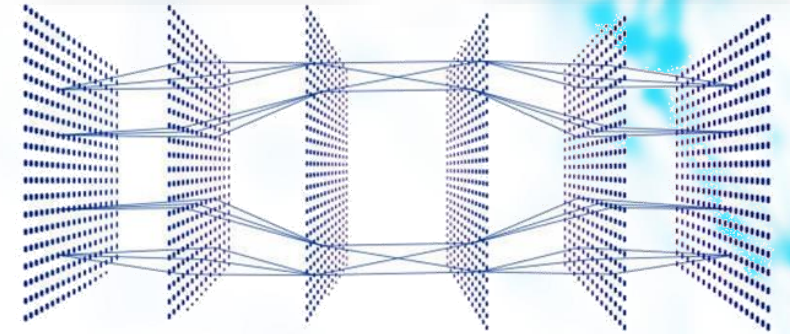
CityOS-NET

Real-Time Data Collection
Effortless Connectivity
Secure Transmission



Controller & AIoT Sensors

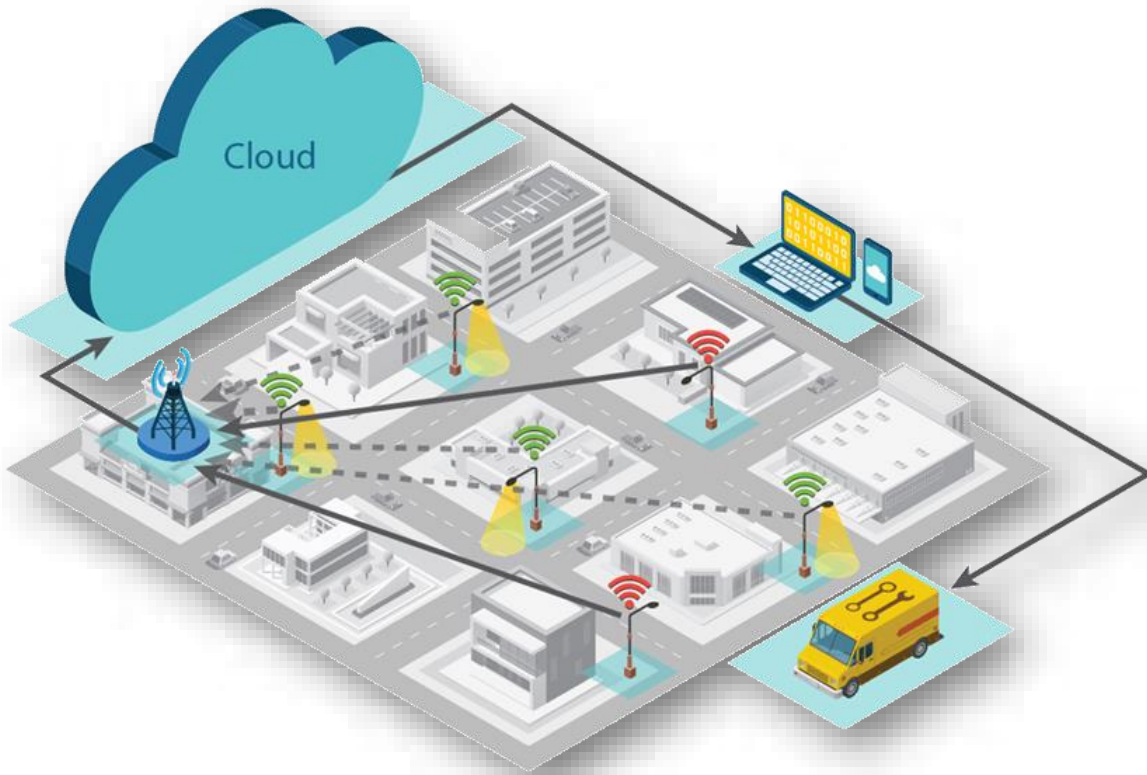
Edge-AI Processing with Integrated Camera
Lidar-Based Motion Detection
Autonomous Drone for Urban Monitoring



AI Solutions

Intelligent Image & Video Analysis
Predictive Insights with Radar-Lidar Fusion
Advanced Deep Learning Models

AREYTech AI: End-to-End Connected City Solutions



AREYLight AI Smart City Platform



Data-Driven Decision Making

Analytics for Smart City Management



Real-Time Insights, Alerts & Efficiency Processing

Real-time insights



Predictive Maintenance

Extended lifespan, minimized downtime

Target Market

Airport



Energy Efficiency

Industrial Zone



Operational Efficiency

Residential Area



Smart Lighting

Parking Lot



Optimized Traffic & Energy

A Growing Smart Infrastructure Ecosystem

- **City governments** : Cost-effective, sustainable living solutions
- **Commercial Buildings** : Energy-efficient and sustainable.
- **Campuses & Airports** : IoT-driven crowd and energy management.
- **Residential Area & Parking Lots** : Enhanced safety and efficiency

Expanding Market & Target Segments for Connected City Solutions



U.S. Market



Nordic Countries



Central EU



MENA & GCC

Total Market Size

2025 ~ \$30 Billion

to grow 23% annually by 2025

Driven by increasing demand for sustainable infrastructure solutions



European Bank
for Reconstruction and Development



**Funded by
the European Union**

Business Model & ROI: Sustainable, Scalable, and Profitable Growth

Revenue Generation

- Subscription licenses
- Maintenance & tech support
- Hardware sales

Distribution Channels

- Government Contracts
- B2B sales
- Distributor collaborations

Profit Margins

- **High-Margin Revenue Streams**
- Cost Advantages
- Strategic Pricing

- Global Customer Presence **District Ankara, Lodz, Gdansk Poland, New York NYC, Riverside CA, and Erie PA,**



Long-term contracts with high-value clients

Team – Experienced, Skilled and Passionate Professionals



Haluk YILMAZ
Co-Founder | CEO

10+Years in AI & Smart Cities



Ayşegül KOÇ | COO

Head of AI



Ozan FİDAN | VP

Tech Innovation Leader



Servet KIŞLA | CFO

Finance & PR Expert



Qín LìMǐN

IoT & HW Specialist



EBRD GREEN CITIES



DIGITALEUROPE

Global Partnerships

Scalable & Replicable Solutions for Global Markets



From Single Building to Entire Cities



Flexible & Replicable Growth Model

- Faster Implementation (50% reduction)
- 5 new markets in 6 months
- Generated €480,000 in profit
- Rapid scaling potential



Adaptable Regional & Global Markets

- Meets regulatory standards in 20 countries



Certifications enable regulatory compliance

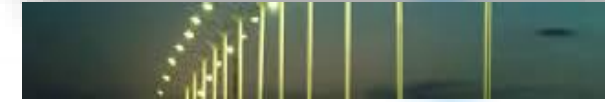


Sustainable Revenue Streams

40% increase in annual recurring revenue model.



3x Hospital , Campus TR-PL



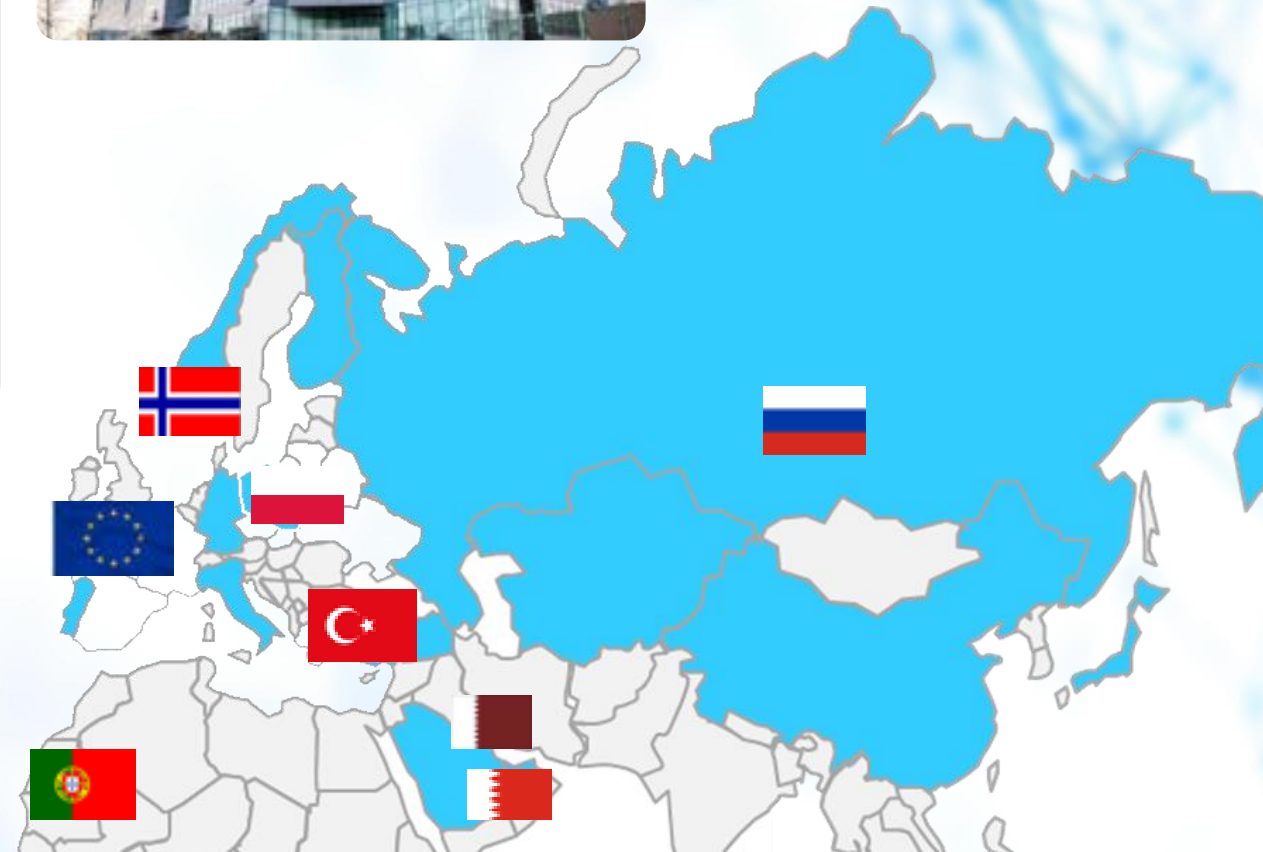
1x Smart Airport TR



2x Smart Port – US



3x Smart City App US,PL,TR



AREYLight AI: Key Investment Gains

1 80% Energy Savings

Maximize Efficiency: AI solutions reduce energy costs by up to 80%.

2 20% Guaranteed Returns

Predictable Profits: 20% annual returns via ESCO model

3 40% Share Growth by 2025

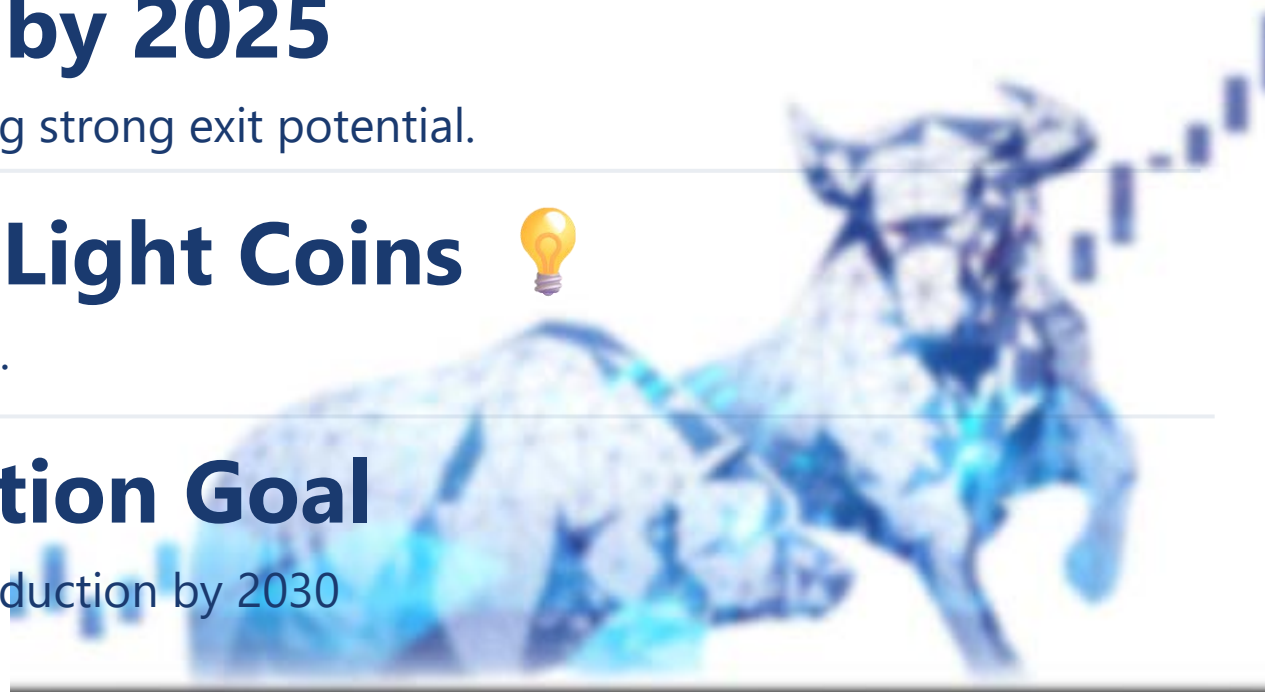
IPO Boost: Projected share value increase, offering strong exit potential.

4 Earn AREYTech Light Coins

Extra Income: Coins for each 10% efficiency boost.

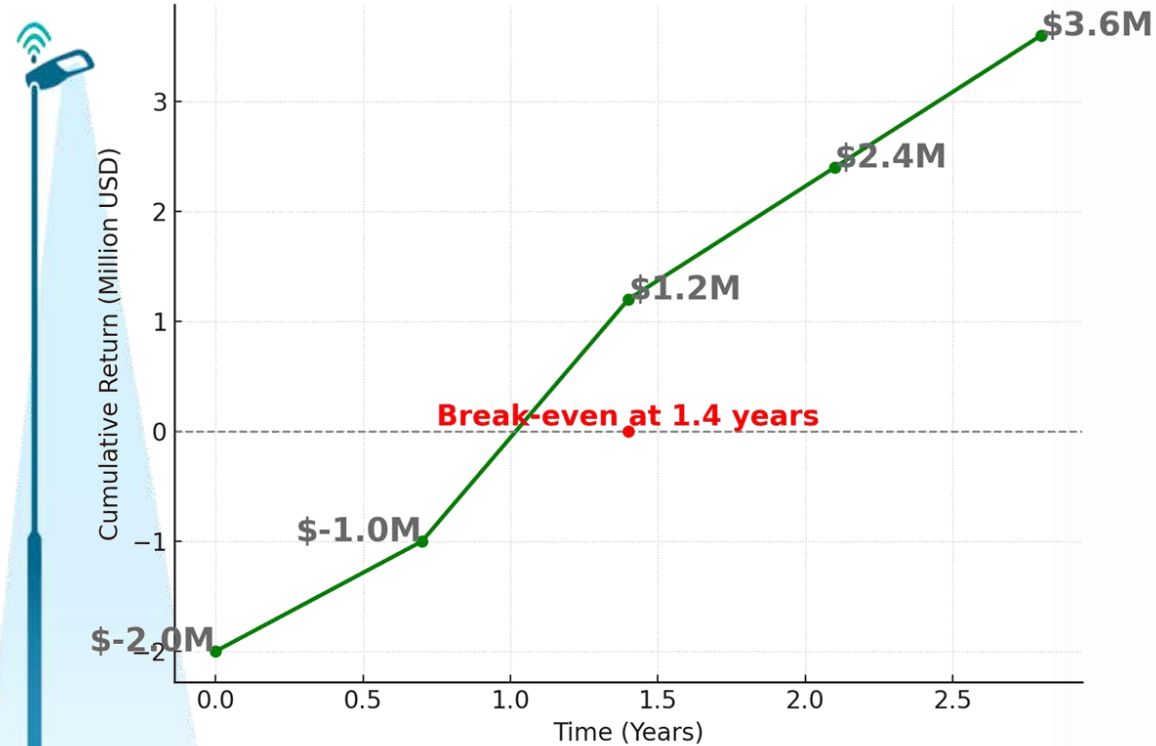
5 50% Carbon Reduction Goal

Invest in Sustainability: Targeting 50% carbon reduction by 2030



High ROI & Rapid Payback on Investment

Graphical Representation of ROI



Initial Investment **\$2M**

Roi Rate **%60**

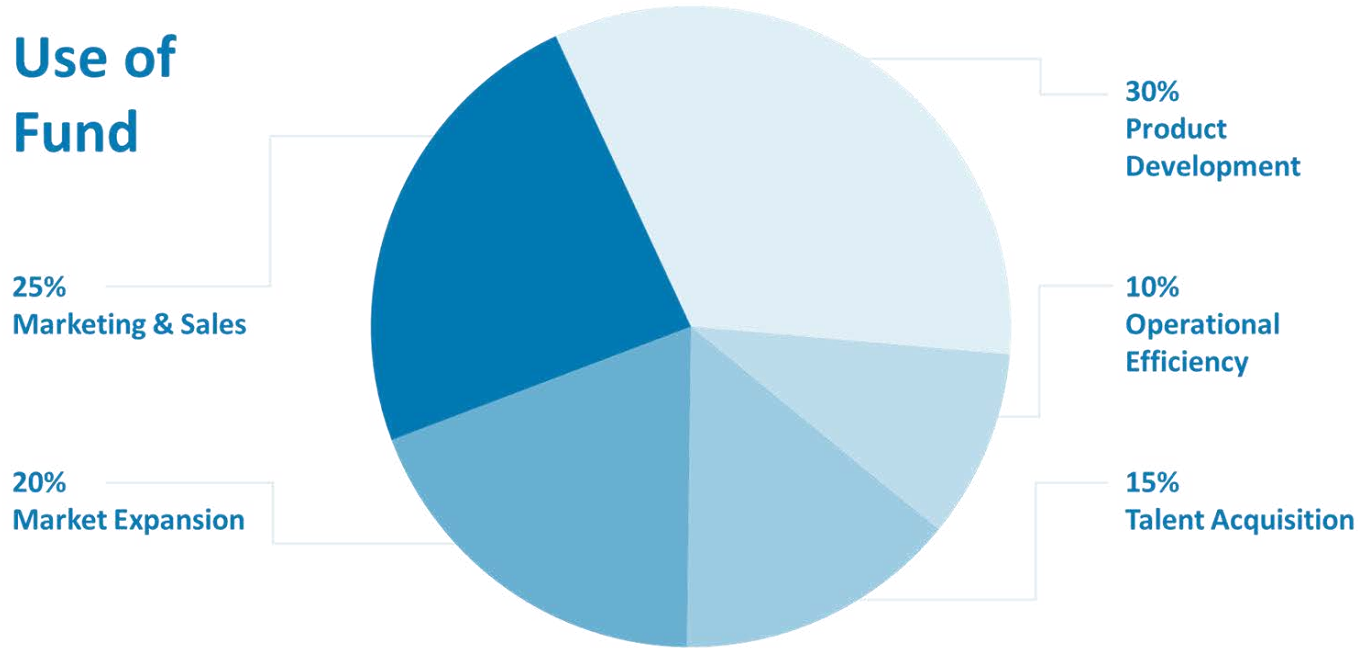
Payback Period **<2 Years**

Annual Revenue **\$1.2M**

End of 3 years **\$3.6M**

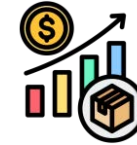
ASK: Key Questions and Gains

Use of Fund



Product Development (30%)

Adapting for the U.S., EU and Saudi markets



Marketing & Sales (25%)

Expanding brand reach



Market Expansion (20%)

Infrastructure & partnerships



Talent Acquisition (15%)

Team growth for success



Operational Efficiency (10%)

Process improvements

Annual Revenue Target: \$1.2M

Goal: Achieve rapid growth and break-even within 1.4 years

Funding will drive product adaptation, market entry, and scalable operations for AREYLight AI

AREYLight AI

www.entrepreneurshipworldcup.com

GLOBAL HOSTS



FOUNDING PARTNER



	AREYLight AI	Signify	Telensa	Dimonoff
AI Control Platform	✓	✗	✗	✗
Smart City Backbone	✓	✗
Big Data Support	✓	✗	✗	✗
Cross Technolgoy	✓	✗
Smart Maintance	✓	✗	✗	✗
Energy Efficiency Rates	%60	%35	%33	...