



# SPOTNIK DIGITAL TWINS AI STUDIO





# WHAT ARE DIGITAL TWINS?

Digital Twins are 3D digital representations of the physical spaces and things around us.

Urban Planning, Designing, Engineering, and Data Science work together across Digital Twin visualizations.









# Visionary Leadership

We provide a No-code platform creating Digital Twins  
Specialized on Smart City Sustainability Management

End2end from Consulting | Data | Design | Development | to PaaS

Cities  
  
 My TwinBooks

## Featured

**Abu Dhabi**  
United Arab Emirates

Livability | Sustainability

**SUSTAINABLE DEVELOPMENT GOALS**

LIVABILITY

## Discover

**Dubai**  
United Arab Emirates

Sustainability | Livability

**Sharjah**  
United Arab Emirates

Sustainability | Livability

**Ajman**  
United Arab Emirates

Sustainability | Livability

**Fujairah**  
United Arab Emirates

Sustainability | Livability

**Umm Al Quwain**  
United Arab Emirates

Sustainability | Livability

**Ras Al Khaimah**  
United Arab Emirates

Sustainability | Livability

### PROJECTS AND SUSTAINABILITY INITIATIVES

# Project ID - Al Dhafra Power Station Expansion

**PROJECT DATA**

**General Specifications**

DATE OF COMMISSION: 2017

GENERATION: Steam Turbine/Gas Turbine

Current Efficiency: 35% | Commission years: 25

**SDG PROJECT IMPACT**

**INVESTMENT AND TECHNOLOGY OUTPUT**

**AED 58M**

18,000 MW GENERATION CAPACITY

42,217 GWh ELECTRICITY PRODUCTION

CO<sub>2</sub>

Steam Turbine/Gas Turbine

**ASSETS ON MAP**

**SDG DOMAINS IMPACTED**

- 1. Increase the share of renewable energy in the company's energy production by 50% over the next 5 years.
- 5. Achieve a 20% reduction in industrial waste and emissions by 2030.
- 11. Minimize Air Pollution and Improve Air Quality in Urban Areas surrounding power plants by 50% by 2030.
- 12. Reduce Waste by achieving 80% recycling or reuse of by-products (e.g., ash, heat) generated by power plant operations by 2028.

**PROJECT KPIS**

**Emission Reduction**

Baseline Emissions: 1,000 tons CO<sub>2</sub>/year

↓ 32%

**Resource Efficiency**

20% by 2023

80% by 2028

**Social Impact**

Job Creation by 2030 = 23%

LOCAL EMPLOYMENT RATE

Health and Safety by 2026 = 0%

INCIDENTS RATE

ROI ratio 2030: 4:1

**SHAREHOLDERS**

EWEC

Cost Savings AED Million

**MILESTONES**

2022: planning and design | 2023: deployment | 2024: monitoring | 2025: improvement | 2026: improvement

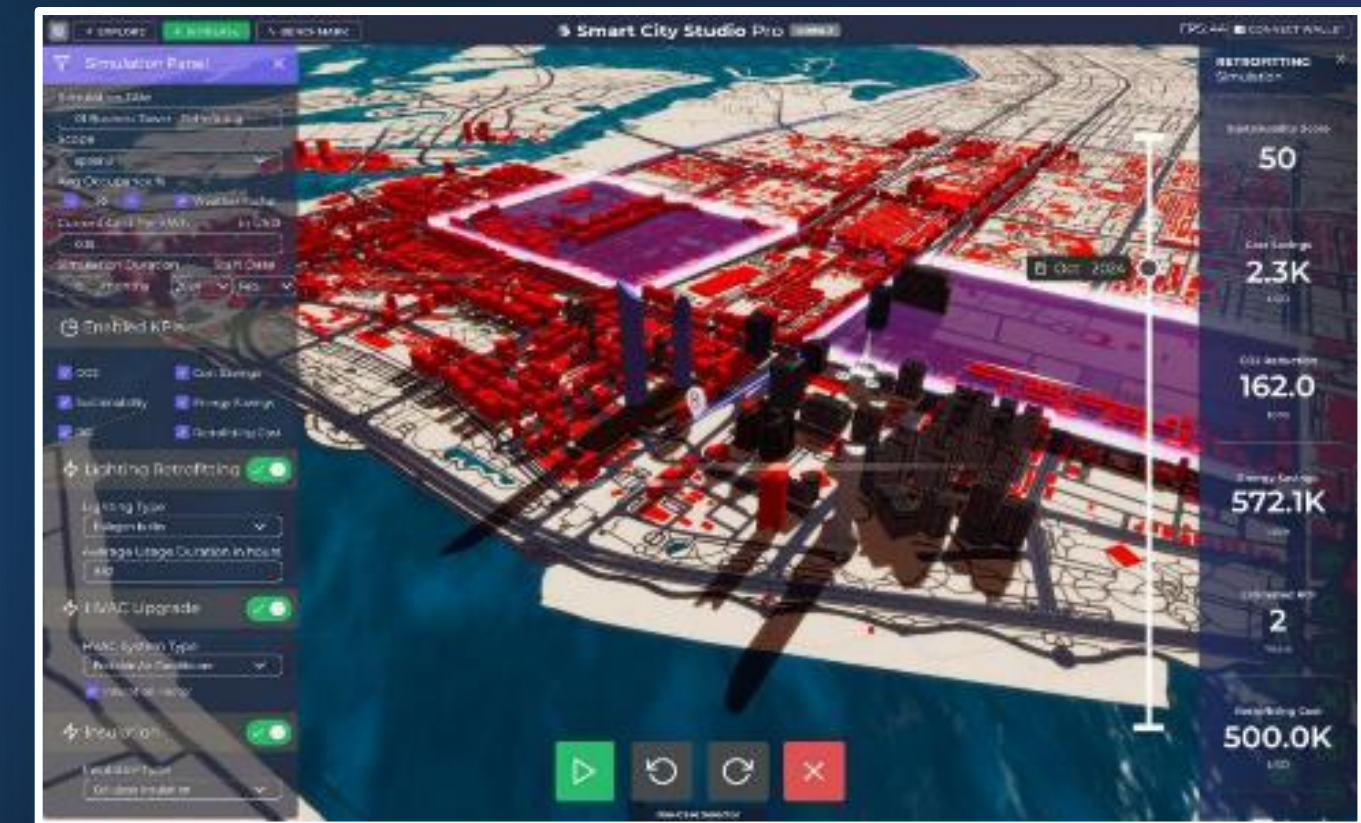
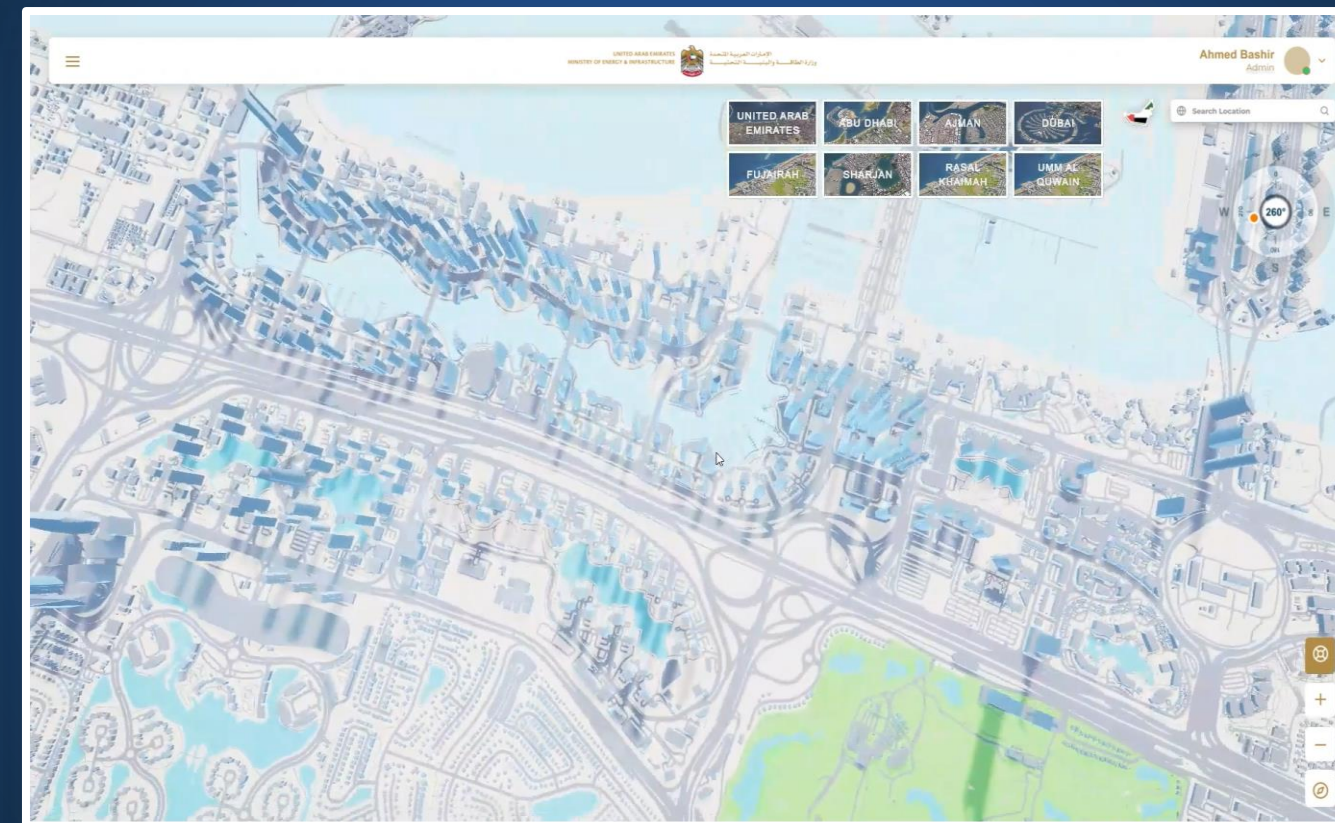
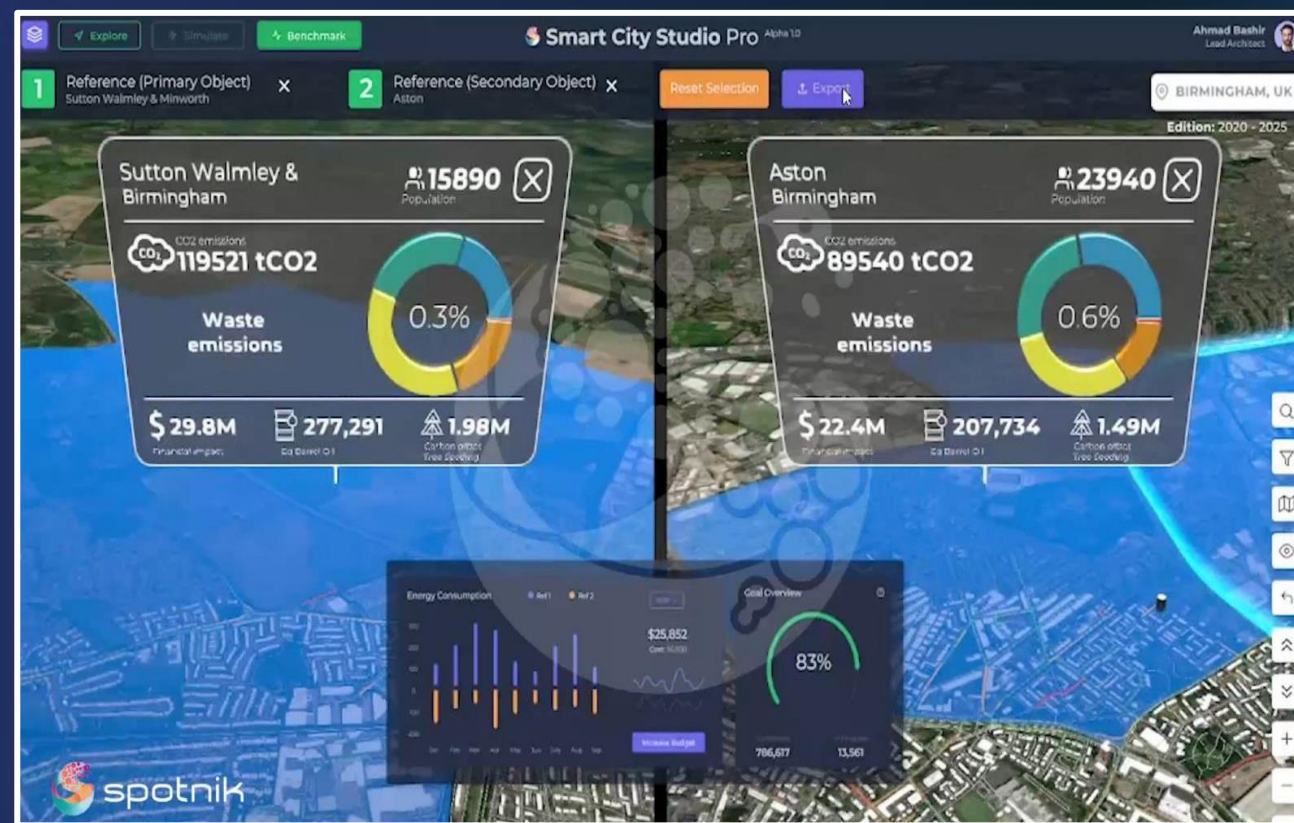
Project Timeline and Milestones updated on (DATE of DATA)

**SDG PROJECT DASHBOARDS AND BENCHMARKING**



# Proven Success

We've successfully deployed urban digital twins, integrating GIS data, AI analytics, and 3D city replicas for benchmarking and simulations



FAST COMPANY  
MIDDLE EAST

11-22-24 | 1:00 PM

## Digital twin tech takes center stage in UAE's climate action at COP29

Here's how the UAE aims to leverage digital twin technology to propel sustainable construction practices and projects after COP29.

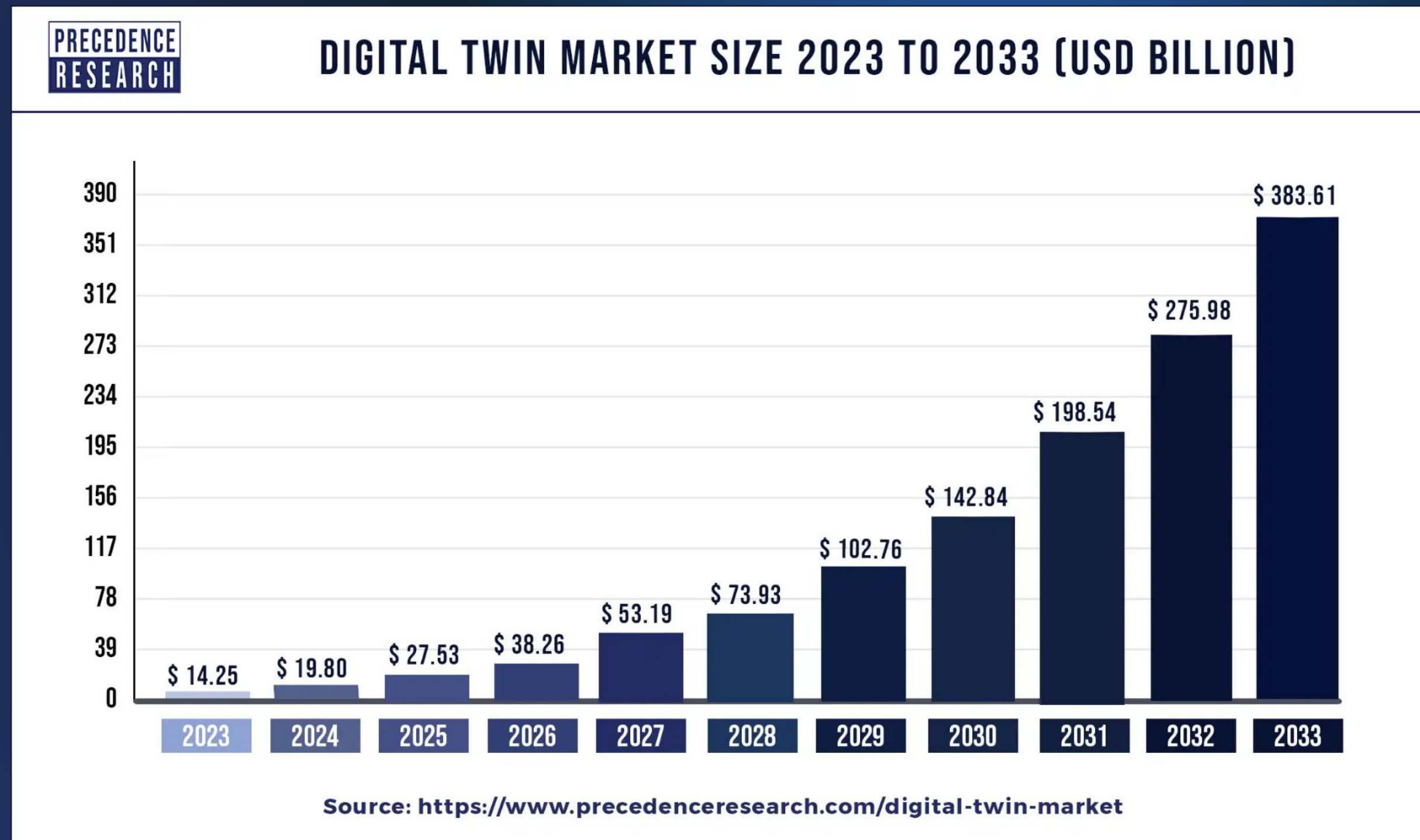


INCEPTION PROGRAM



# Market Opportunity

The global digital twin market is projected to grow exponentially.  
Spotnik is positioned to capture this momentum



Our target:

- Smart Cities MSIs
- Public Ministries
  - Municipalities
  - Tourism
  - ICT
  - Transport
  - Health Care
- Large Corporations
- Real Estate Developers
- Energy Suppliers



# Technology edge = traction and impact

Spotnik Gen AI and Data models work for Digital Twin Studio Innovation Roadmap

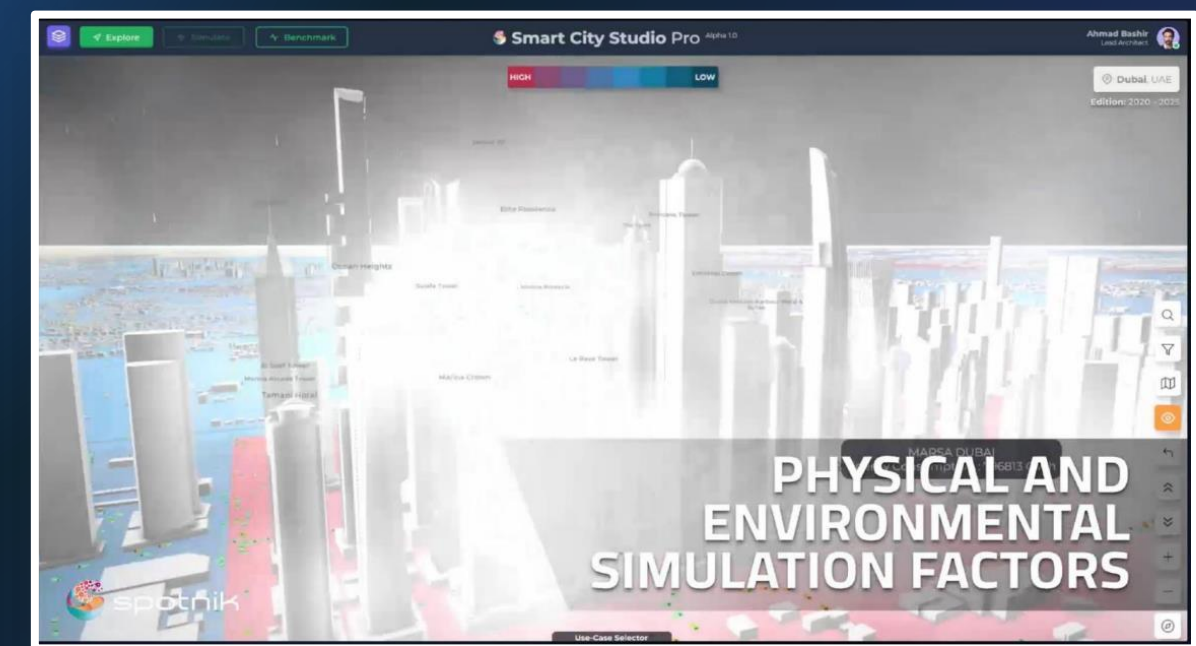
- Gen AI models for City 3D Models Creation and Simulations



**shutterstock**  
Generative API Platform **BETA**

**shutterstock** + **nvidia**

- AI Models for Data Fusion and Physics Simulations





# Scalable Model

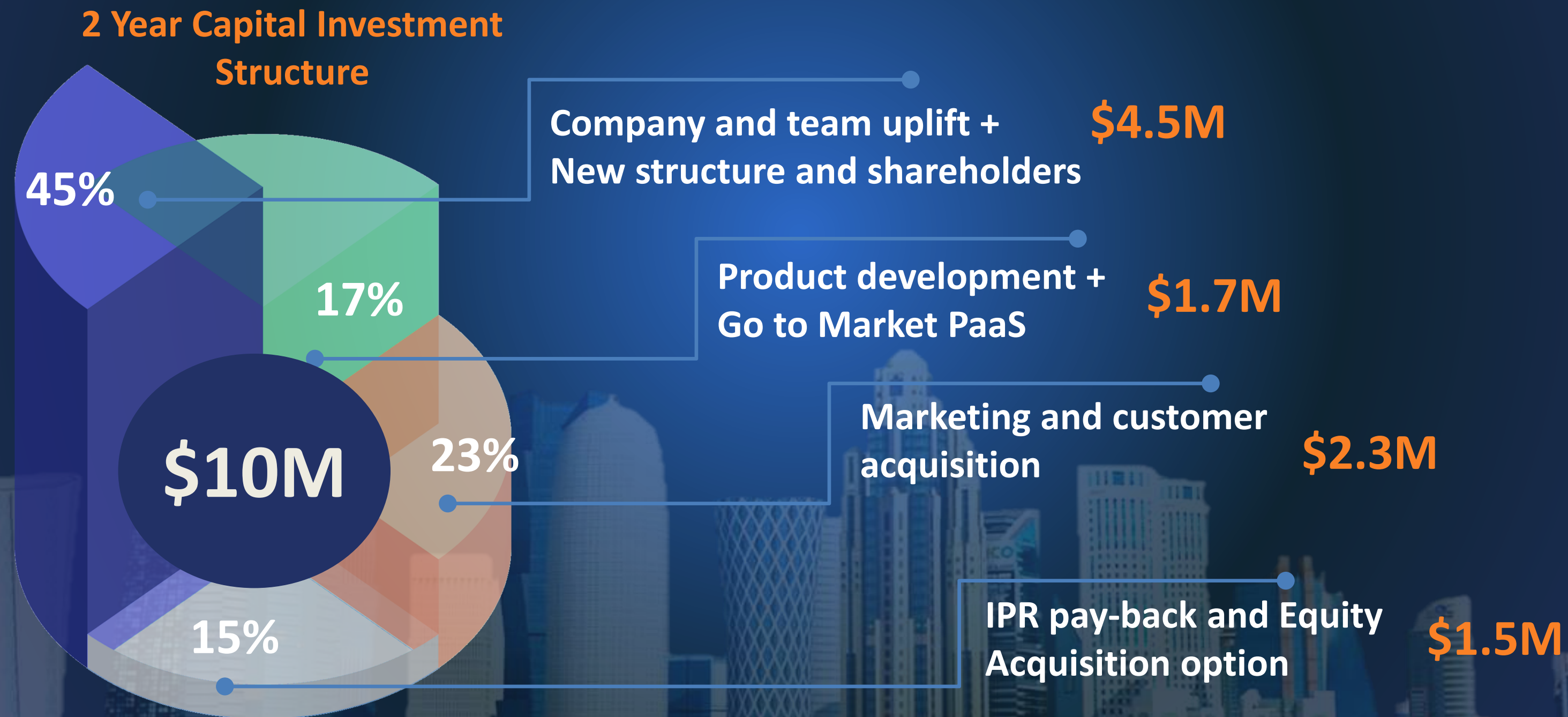
Funding will accelerate our expansion into key markets across EMEA, growing in competence and developing innovative tools

- Uplift our core team, nurture and retain talents
- Market access, partnerships, sales and marketing dedication
- Product roadmap development – go to market PaaS



# Strategic Growth – investment opportunity

Our goal is to set a Digital Twins competence center in Qatar and positioning Spotnik as a leader in the global market





**Thank you**

