HeatWise Consultancy

By : LaGasa Team

Key questions and our answers

Question	Our Consultancy's Response
1. What problem are we solving?	Urban "heat islands" increase city-center temperatures by 5–7 °C, inflating cooling bills, endangering health, and accelerating infrastructure wear.
2. How big is the problem?	 10 000+ cities (>100 K inhabitants) worldwide €200 B+/yr spent on site feasibility and climate-risk studies
3. Who experiences it?	• Municipal planning departments• Architects, engineers & real-estate developers• Operators of hospitals, data centers, solar farms
4. How urgent is it?	• Growing frequency of extreme heat events• EU climate-adaptation mandates by 2027• Rising energy costs demanding proactive siting choices
5. Why solve it now?	• Up to 15 % savings on cooling capital & OPEX• Fewer heat-related health incidents• Stronger ESG credentials and eligibility for green financing



Startup Rewiew

Product: SaaS platform delivering hyper-local urban heat maps, microclimate forecasts, and AI-driven site recommendations Core Technologies: Thermal satellite imagery + dense IoT sensors + on-demand drone surveys Machine learning for anomaly detection & 7–14 day forecasting 3D digital twin with "what-if" scenario engine Go-to-Market: Freemium tier (1 km²) → Pay-per-report → Enterprise licenses + consulting API marketplace for GIS, BIM/Revit, Smart-City integrations Revenue Streams: Annual SaaS, one-off feasibility reports, premium

advisory services

How do we solve the problem?



Data Fusion & Validation Merge satellite (30–100 m), IoT ground sensors, UAV thermal surveys \rightarrow 1–5 m resolution Continuous cross-calibration ensures ±5 m positional accuracy and data quality scoring Predictive AI & Digital Twin 7–14 day microclimate forecasts and heat-wave early warnings 3D city model with material properties (asphalt vs. vegetation) for "what-if" testing (green roofs, reflective pavements, tree planting) Automated Design Recommendations Site-suitability scoring and orientation/material guidance generated by AI Exportable BIM/Revit plugins and "permit-ready" compliance reports Monitoring & Alerts Dashboard with daily/on-demand updates Custom alerts for emerging hotspots or regulatory thresholds

Competitive advantage

Ultra-Granular, Always-On Data 1–5 m resolution, daily or on-demand refresh via drones & IoT – vs. 30–100 m monthly data in legacy tools End-to-End Decision Support From raw heat maps \rightarrow predictive forecasts \rightarrow actionable design guidance \rightarrow compliance documentation **API Ecosystem & Network Effects** Freemium model incentivizes sensor deployment; crowdsourced data continually improves accuracy for all clients REST APIs enable seamless integration with GIS, CAFM, Smart-City platforms **ESG & Carbon-Credit Integration** Auto-generated CO₂ savings metrics, "Climate-Adaptive Design" certification for green bonds Tokenization of carbon credits from recommended green infrastructure interventions