FORTYGUARD Al-driven Temperature Intelligence for Cooler Cities



3.5 billion people live in hot climates

Urban heat (**measured at 2 meters above ground**) can be 10-15°C higher than temperatures in nearby areas just a few kilometers away, even within the same hour.

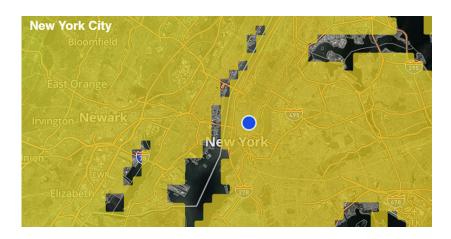
4.97 billion people worldwide were exposed to extreme heat between June 16-24, 2024.

Understanding The Problem

Urban Heat (2-meters from the ground)

- Urban heat can go higher by 10-15°C compared to surrounding areas. It's affecting your operations, site, battery, workers, energy consumption and properties value
- Your city is 0.00-something responsible for global warming, but you are 100% responsible for the increase in urban heat at your operations
- There is no software to map and quantify urban heat over an extended period of time, no data, no machine learning analytics for it, and urban heat is NOT weather data you get in the news

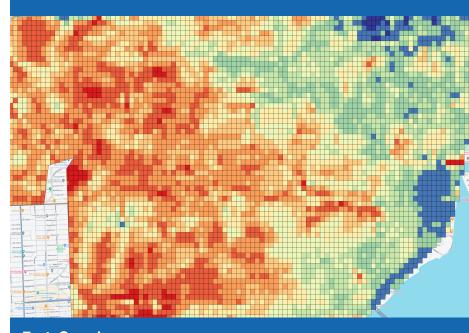
There are no outdoor granular temperatures at scale



Competition

is expensive, high-level, hardware cost

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FortyGuard 300x accurate, 100x cheaper, cloud stream

The Solution Is Here

A 100 times Cheaper Alternative annually \$4,800 vs. \$300,000

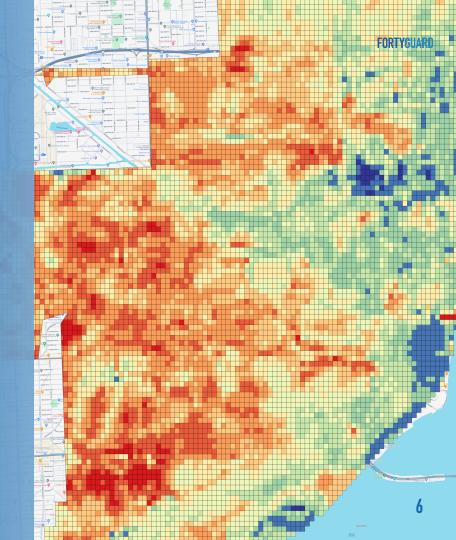
300 times Greater Accuracy

10 m² vs. 30 km² Up to 15°C difference only a few kms apart

A 100% cloud solution

No hardware & 1-minute updates
vs. hardware & 4-hours updates

The Future of Temperature Intelligence begins with Data



Experience the world's first temperature technology



A comprehensive and integrated system that leverages AI to advance urban temperature analysis, facilitating interaction across various applications. It's a scalable and transformative approach to temperature management and analysis, providing a platform for various temperature-related applications and uses.

"LTMs" Large Temperature Models

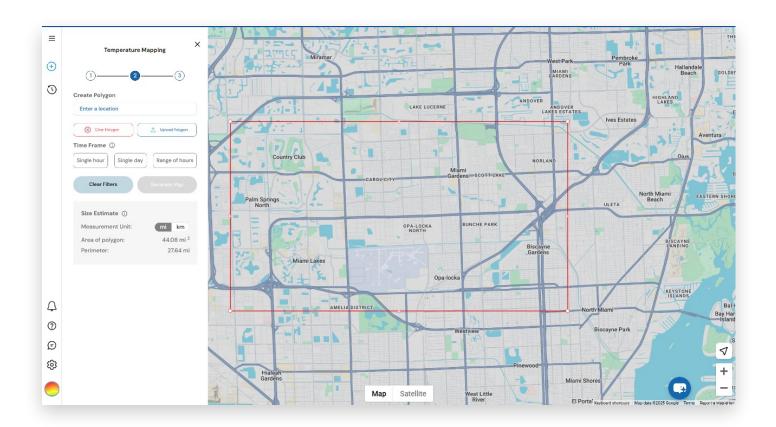
Our proprietary LTMs deliver advanced, comprehensive insights into urban heat dynamics with speed and accuracy. Our team spent 3 years designing our models with a variety of quality data sources, to excel in predicting temperature patterns on a grand scale, and offer intricate and extensive data analysis with detailed temperature dynamics insights.

Temperature Dashboard®

Our flagship & killer product, built by clients feedback and paid services

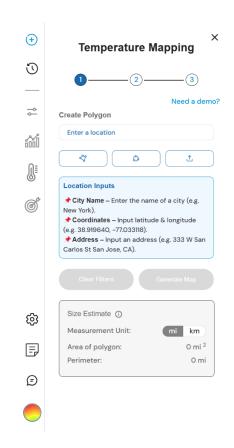
- Allows urban planners, engineers, and city managers to map localities (from an entire state to one district) with a granularity of 10 m² and 40 years of historical data anywhere across the US
- Delivers bespoke data visualizations and analysis, along with Al-powered predictive insights
- Automatically identifies factors contributing to urban heat with actionable recommendations
- Offers different viewing modes, including satellite view and a 360° digital street view for frame-byframe segmentation analysis
- Intuitive and easy to use, even for those with no prior technical knowledge





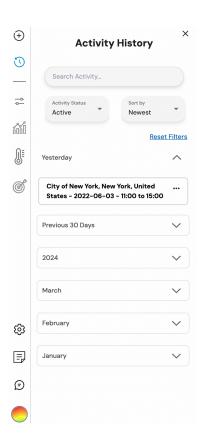
Dashboard Functions (1/5)

- **Temperature Mapping:** Dynamic visualization based on location, date, time, and tile size to identify temperature zones and trends.
- Customizable Heatmaps:
 - · Choose specific time frames.
 - Set granularity with tile sizes (100m, 80m, 60m).
- **Area Selection:** Upload, draw, or auto-generate polygons for targeted heatmap visualization.
- **Street View**: Clicking anywhere on the map gives users the ability to go into street view.

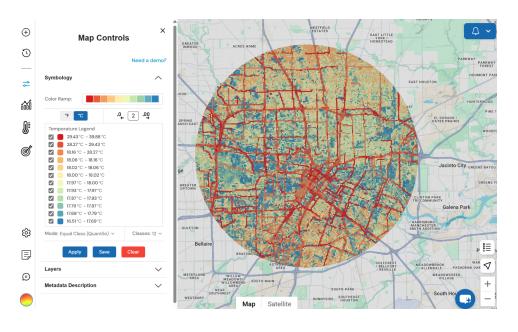


Dashboard Functions (2/5)

- Activity History: Centralized access to manage and revisit temperature maps, analytics, and insights.
- Hierarchical Organization: Activities are organized into main and sub-activities for easy workflow tracking.
- Flexible Management:
 - Rename, archive, search, filter, and sort activities for efficient exploration and analysis.
 - Sort activities by creation date (Today, Yesterday, Previous Days) or status (Active, Failed, Archived).
- Search & Filters: Refine activities by status or type (Heat Map, Analytics, Insights).
- Archiving: Move activities to a dedicated section to declutter and manage your history.
- **Customization:** Rename activities to personalize and organize your activity history.



Dashboard Functions (3/5)



Temperature Map Controls

- Customization: Switch temperature units, adjust color ramp, classification classes, and opacity.
- Map Management: Save, apply, or clear map settings.
- Interactive Features: Toggle layers, zoom to specific areas, and download heatmap data.
- Tile Temperature Popup: Clicking on any tile within a heatmap will open a popup that will show the temperature at the tile.

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Dashboard Functions (4/5)

Why it is hot.

Bringing the world's best analytical software tools to your finger tips and with speed.

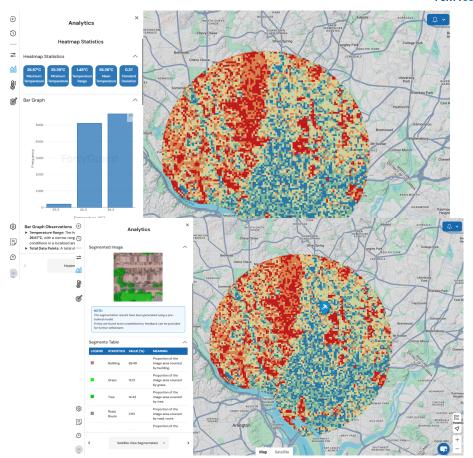
Analytics

Identifying the desired mapping parameters; our Al algorithms will analyze the data in order to pinpoint exact reasons for the thermal condition of the site, providing a comprehensive time-temperature breakdown of the map.

Segmentations

Surface-level intelligence in two powerful views:

- Satellite Segmentation identifies urban material patterns from above — classifying rooftops, roads, green zones, and more using remote sensing.
- Street-Level Segmentation zooms in to a human-scale — recognizing sidewalks, façades, tree canopies, even parked vehicles to create detailed surface profiles.



Dashboard Functions (5/5)

Why it matters.

Unlock what's *really* heating your environment — and what you can do about it.

Heat Dynamics

Dive deep into the forces behind local temperature change. Our reports analyze how Geographic Information, Environmental conditions, Urban morphology, Event-based anomalies, and Anthropogenic factors all converge to shape your area's unique heat profile.

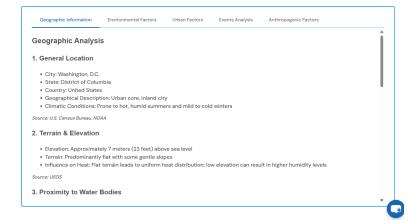
Decision-Ready

Built for planners, developers, and climate officers. Equip your next project with location-specific intelligence that empowers confident, climate-resilient choices — fast.



Heat Intelligence Report

Report ID: c5ad938f-ef36... *



FORTYGUARD

US, California: Riverpark Tower, 4th Floor, WeWork 333 W San Carlos St San Jose, CA 95110

UAE, Abu Dhabi: Al Khatem Tower, 14th Floor, WeWork Hub71, ADGM, Al Maryah Island, PoBox: 3317

