

ONE DATA LAYER - MANY OPERATIONS

FIND YOURSELF

- Logistics & Supply Chain
- Ride-Hailing & Delivery
- Drones & UAM
- Agriculture & Forestry
- Energy & Utilities
- Marine & Fishing
- Travel & Tourism
- Insurance & Financial Services

WHAT'S NEXT

Extending nowcasting into a full severe-weather intelligence layer.

IN DEVELOPMENT

- Foundation Nowcast Model - 24 h multi-parameter horizon
- Low-altitude 3D wind - drones, airports, energy, maritime
- Hail & Lightning - convective-hazard intelligence

VALIDATION / R&D

- Cloud & Solar - intelligence for renewables



WORK WITH US

Rainbow.ai works with weather-technology companies, data providers and weather-dependent operators to validate, integrate and scale new capabilities.

TECHNICAL EVALUATION

Benchmark Rainbow data against your reference observations and decision thresholds.

JOINT DEVELOPMENT

Combine your sensors, radar and satellite with our AI.

ENTERPRISE DEPLOYMENT

Tailored delivery, regional tuning, controlled infrastructure.



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WEATHER INTELLIGENCE FOR DECISIONS THAT CANNOT WAIT

Global, high-resolution weather intelligence for faster operational decisions - with minute-by-minute precipitation nowcasts, developer-ready APIs and enterprise deployment options.

PRECIPITATION NOWCASTING

MAP-READY WEATHER LAYERS

WILDFIRE DETECTION

SEVERE WEATHER R&D

METEOROLOGICAL TECHNOLOGY WORLD EXPO
OCTOBER 2026

ABOUT US

Rainbow.ai is an AI weather intelligence company turning real-time Earth observation into better operational decisions. Its proprietary models combine satellite observations with radar data where available to deliver global precipitation nowcasts at 1 km2 resolution, refreshed every 10 minutes and forecasting up to four hours ahead.

OUR TECHNOLOGY

GLOBAL
commercial coverage

1 km2
precipitation grid

1 MIN
forecast intervals

10 MIN
model refresh

0-4 H
nowcast horizon

HOW IT WORKS

1 OBSERVATIONS
Five major geostationary satellite systems, 700+ radar data sources where available, ground sensors, static geospatial data and model inputs.

2 AI PROCESSING
Data harmonisation and spatial merging, ML-based denoising and feature extraction, forecast inference, classification and quality controls.

3 DELIVERY
REST / JSON APIs, CDN-delivered XYZ tiles, custom APIs, webhooks, SDKs and dashboards, with private-cloud and on-premise options.

OUR PRODUCTS

GLOBAL PRECIPITATION NOWCAST API
Minute-by-minute rain and snow intelligence for time-critical decisions.
REST / JSON | 1 km2 | 1-minute steps | 10-minute refresh | Up to 4 hours

WEATHER MAP TILES API
Global precipitation nowcasts and cloud cover as map-ready 256 x 256 raster tiles.
XYZ / CDN | Leaflet | Mapbox GL | deck.gl

UNIFIED WEATHER API
Hourly and daily forecasts for any location, alongside Rainbow precipitation intelligence.
REST / JSON | Temperature | Precipitation | Wind | Pressure | Humidity | UV | Visibility | Dew point

REAL-TIME RADAR
Processed radar with de-noising, blending and low-latency delivery. Resilient to gaps in individual radars.

HISTORICAL RADAR DATA
Custom regional datasets for model training, research and event reconstruction.

WEATHER ALERTS - AVAILABLE / CONFIGURABLE
Configurable alerts delivered into your app and operational workflows.

WILDFIRE DETECTION API - EARLY ACCESS
High-cadence satellite monitoring for earlier operational awareness. Geolocated candidate detections | Event tracks | Near-global monitoring

ENTERPRISE SOLUTIONS / PREMIUM SUPPORT
APIs, webhooks, SDKs, dashboards, white-label layers and tailored data products. Enterprise SLA options, private-cloud or on-premise deployment and dedicated support.

CLEAN PRECIPITATION DATA BY LAYERS

Rainbow.ai processes heterogeneous weather observations as interconnected data layers.

1 SATELLITE OBSERVATION LAYER
Geostationary satellite systems provide broad geographic coverage and frequent observations.

2 RADAR ENHANCEMENT LAYER
More than 700 radar data sources add local precipitation detail where available.

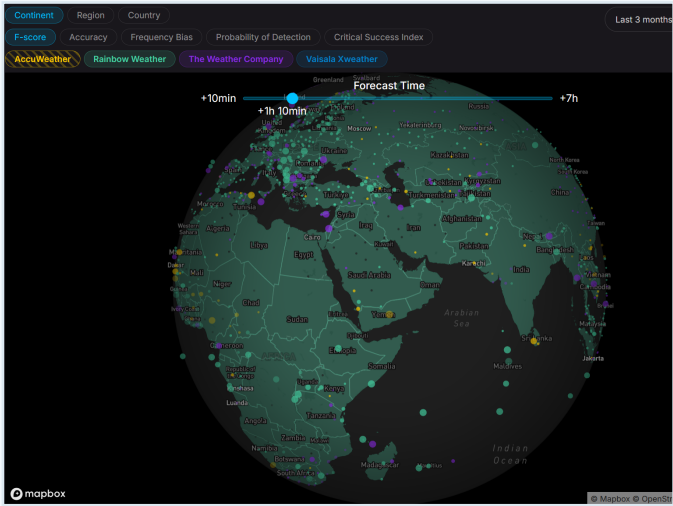
3 CONTEXT LAYERS
Cloud masks, ground observations and static geospatial data provide context for distinguishing meteorological signals from artifacts.

4 ML-BASED NOISE FILTERING
Proprietary machine-learning models compare patterns across the available layers, suppress inconsistent signals and extract coherent precipitation features.

5 QUALITY-CONTROLLED OUTPUT
Processed data passes through forecast inference, classification and quality controls before delivery.

#1 GLOBALLY FOR SHORT-TERM PRECIPITATION FORECAST QUALITY

According to WeatherIndex.ai, an open-source platform that objectively ranks leading forecast providers, Rainbow ranks first globally for short-term precipitation accuracy.



Evaluated on key metrics

F-score

Accuracy

Probability of Detection

Critical Success Index

Frequency Bias

LIVE | OPEN SOURCE | TRANSPARENT METHODOLOGY
weatherindex.ai