

CALIBSUN

Charte graphique

Charte graphique

Déclinaisons couleurs & baseline

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In situ Veritas

CALIBSUN
In situ Veritas



Couleurs du logotype & baseline



#292d64

C 100
M 95
J 30
N 14

R 41
V 45
B 100



#e96030

C 2
M 73
J 84
N 0

R 233
V 93
B 48



#f08f33

C 2
M 52
J 85
N 0

R 240
V 143
B 51

Espace de protection



Charte graphique

Interdits



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In situ Veritas

Déformations de tout types



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In situ Veritas

Rotation de tous angles



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*Beyond
solar data*

Changement de la baseline



Mauvaise gestion des couleurs
selon le fond



Non respect de la zone
de protection : image



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In situ Veritas
LOREM IPSUM

Non respect de la zone
de protection : texte



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Rajout d'éléments au logotype



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In situ Veritas

Modification partielle ou
totale des couleurs



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Modification partielle ou totale
de la typographie

Typographies

TITRES

ARCHIVO

«Google Font»

Light à Bold
+ italics

light

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz - à é è ç @ ! & ? ; { (
1234567890
italic : a b c d e f g h i j k l m n o p q r s t u v w x y z

medium

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abcdefghijklmnopqrstuvwxyz - à é è ç @ ! & ? ; { (
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italic : a b c d e f g h i j k l m n o p q r s t u v w x y z

bold

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italic : a b c d e f g h i j k l m n o p q r s t u v w x y z

TEXTES

INTER

«Google Font»

Light à Bold
+ italics

light

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bold

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1234567890
italic : a b c d e f g h i j k l m n o p q r s t u v w x y z

Niveau de lectures

Archivo regular bleu

Archivo medium orange

Achivo regular bleu

Inter bleu

Inter light N85% / Inter Medium orange

Puces System Inter

Titre de niveau 1

Titre de niveau 2

Sous-titres

Texte introductif

Texte / **Texte focus**

Puces : ✓ → ✗ ✓ → ✗

CTA

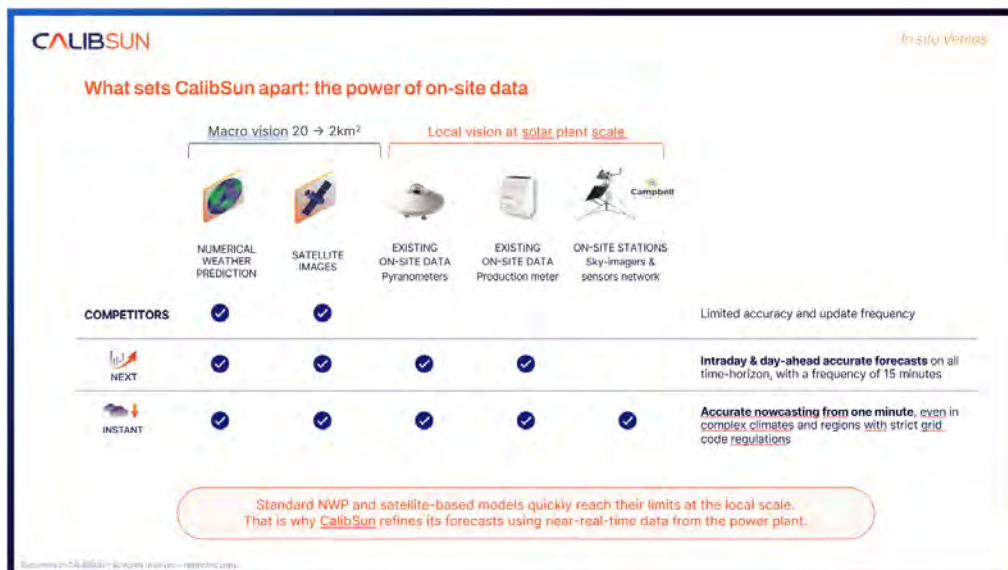
Bouton

Bouton

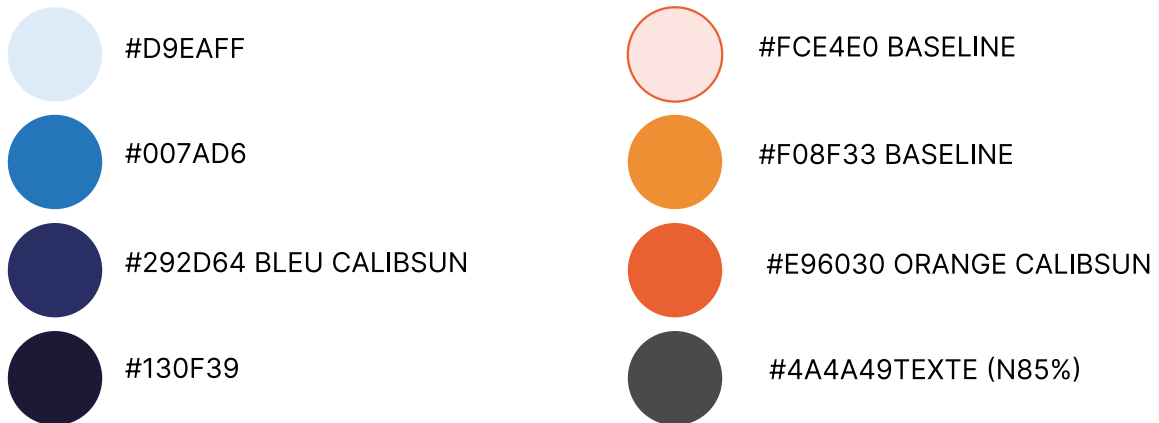
Eclaté

Conclusion ou notion importante

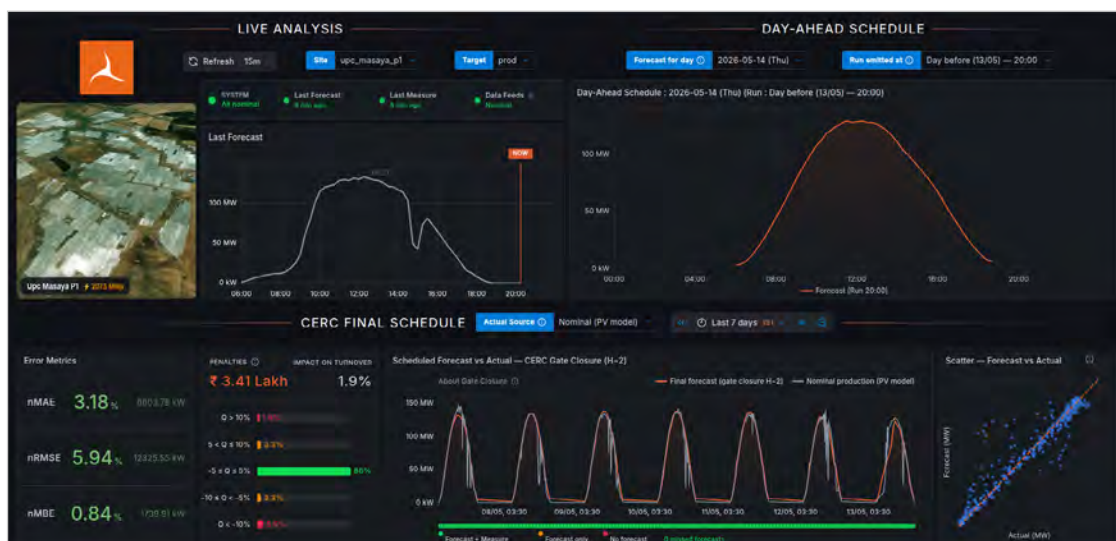
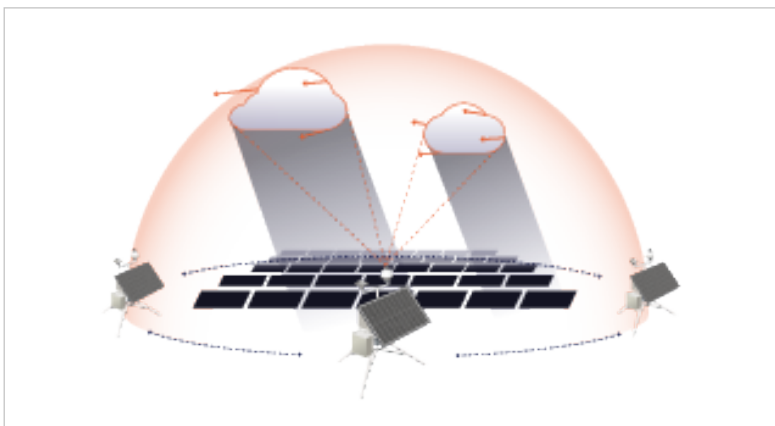
Exemple



Colorimétrie



Exemple



Charte graphique

Icones services



INSTANT



NEXT



FUTURE



INSTANT

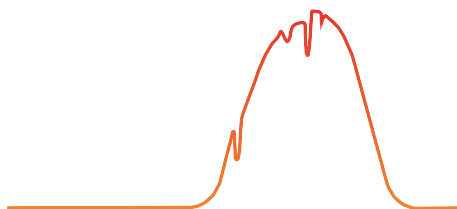


NEXT



FUTURE

Element graphique



Penalties



Storage



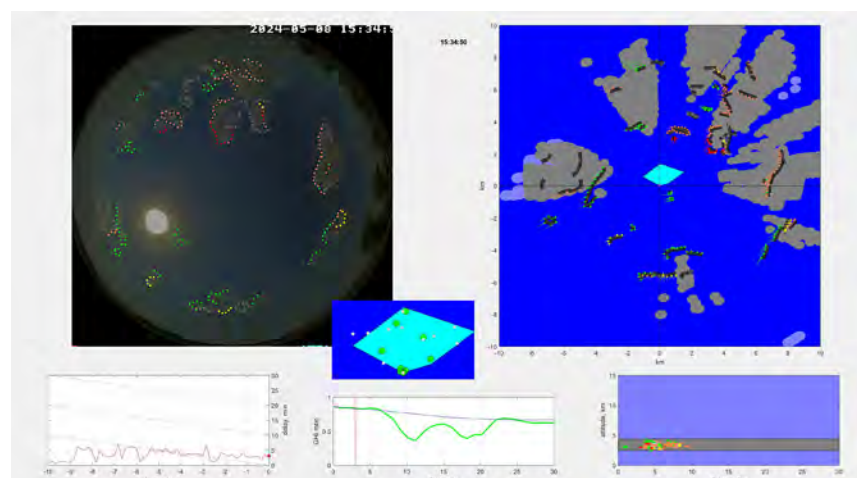
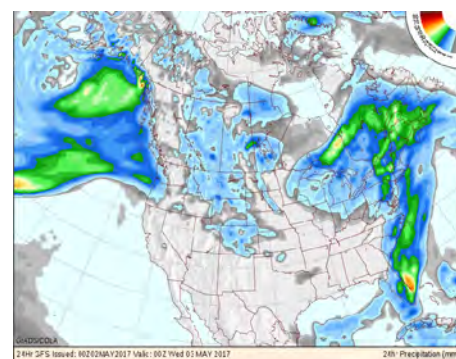
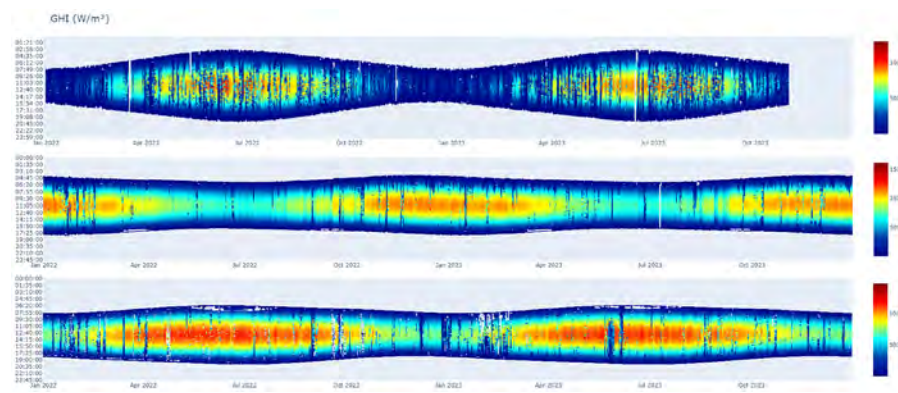
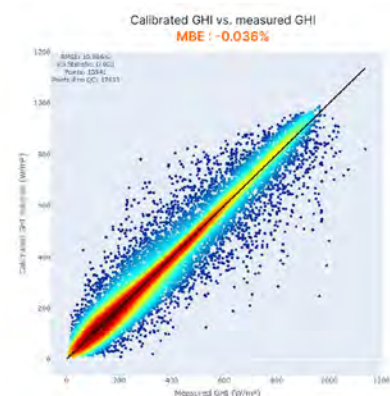
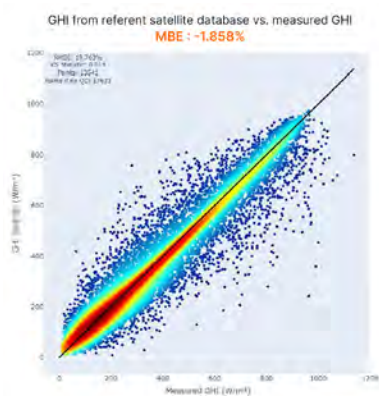
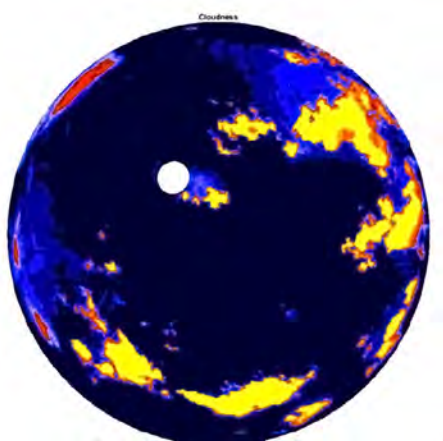
Trading

Images illustratives => Photographies

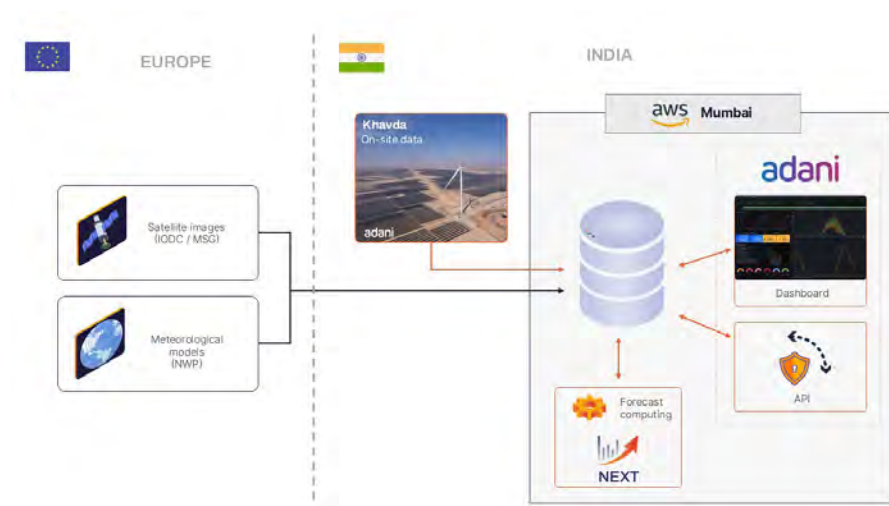
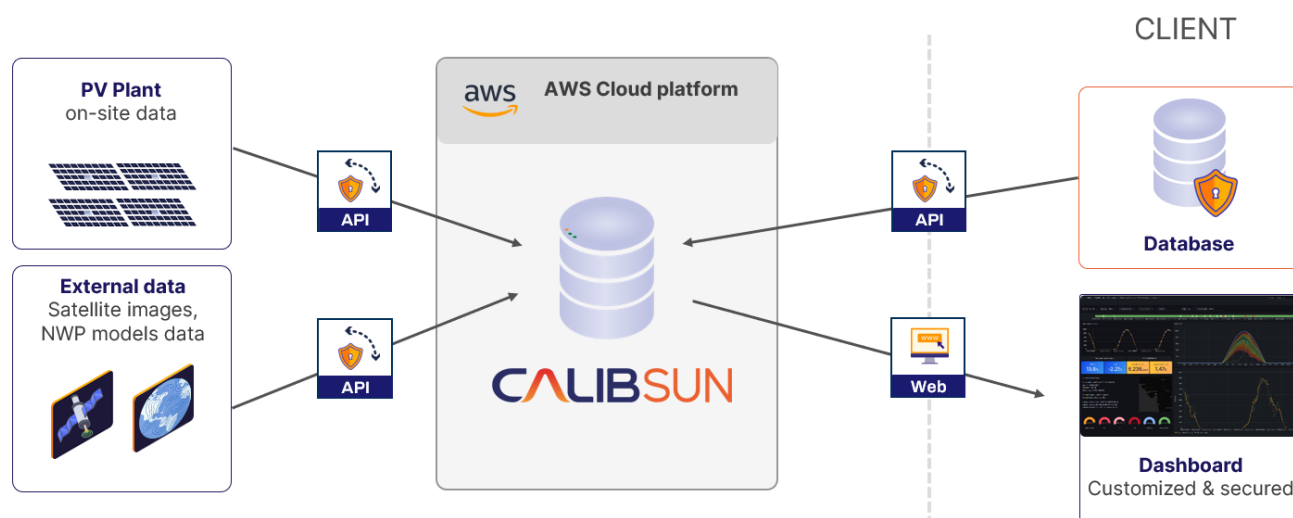
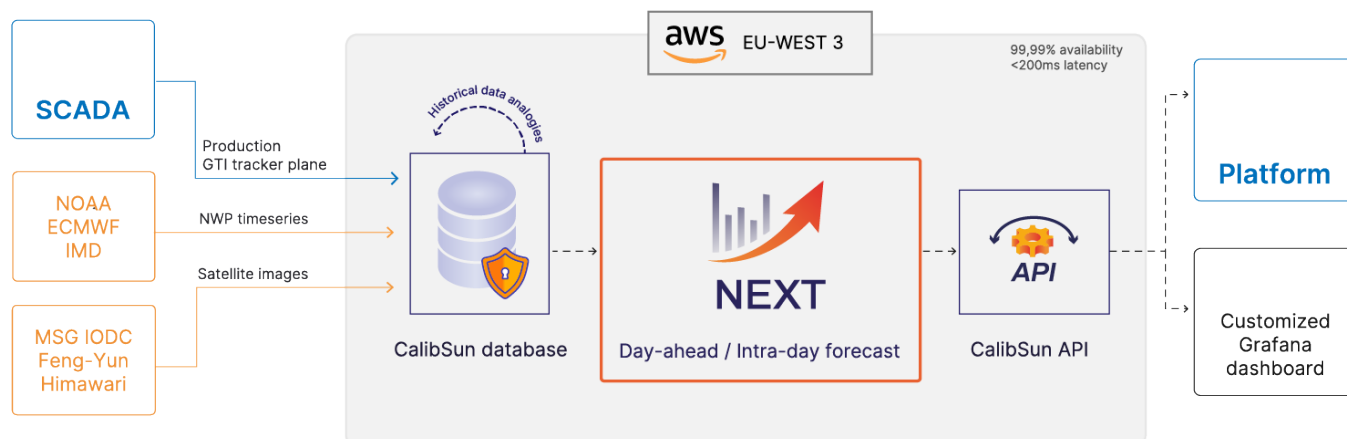


Charte graphique

Images techniques scientifiques



Infographies techniques



Charte graphique

Posts linkedin

On the 1st of April
CERC amendment will cut solar
forecast deviation tolerance
from **±10% to ±5%**

Forecasting tolerance is effectively cut in half !

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CERC new DSM regulation for solar
Narrower Deviation Band + Formula Shift

Before After

Deviation penalties starts at
±10% → **±5%**

Penalty calculation shifts
Total capacity → **X factor weighting on available capacity**

The same forecasting mistake will
cost 1.5x to 2.2x more than before
depending on site behavior

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Mitigate the impact
Move from **generic** to **site-specific** forecasting
leveraging on-site measurements

Calibsun can help you
contain **deviation risk**
and **reduce penalty exposure**

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We integrate **on-site data**
with meteorological models
and satellite images
to **minimize DSM penalties**

Request a trial

Stress-test plant-level forecasting
accuracy with a **trial on your PV plant**.

contact@calibsun.com

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GridBeyond chose CalibSun
as its solar forecasting
provider for **intraday trading**
on a **48 MWp PV plant**

GridBeyond CALIBSUN

Fiche technique

CALIBSUN www.calibsun.com
contact@calibsun.com

Utility-Grade Solar Forecasting System
Intraday and day-ahead forecasting using on-site data, satellite imagery and NWP models

Service
Solar irradiance & PV production forecasting

Usage
Operational forecasting, dispatch support, grid compliance

Perimeter
Utility-scale PV plants

SYSTEM ARCHITECTURE & DATA FLOW

- Each PV plant is processed in a dedicated and isolated environment.
- All data remains the exclusive property of the client.
- CalibSun acts strictly as a data processor.
- Data used only for forecasting services.
- No cross-client data reuse.
- No third-party data sharing.

CORE ALGORITHMIC ARCHITECTURE

Forecasts are delivered as **deterministic** (mathematical expectation based on the distribution of quantiles) and **probabilistic** (calibrated quantiles from P5 to P95), consistent across **intraday and day-ahead horizons**.

NEXT is based on a similarity-search algorithm in the historical dataset of combined meteorological, satellite and **in-situ measurements** features. For each forecast time step, past situations with comparable configurations are identified, forming an empirical ensemble directly linked to the target variable.

This method natively generates probabilistic forecasts, capturing total predictive uncertainty, including intrinsic variability and model biases, beyond classical ensemble or bootstrap approaches.

NEXT performs direct PV power forecasting by assimilating real-time site measurements. Continuous recalibration ensures plant-specific behavior is accurately represented across all horizons.

DATA & MODEL INITIALIZATION

Each NEXT site-specific model is initialized using a minimum of one year of historical on-site data. This dataset is used to train on-the-fly the analog-based component of the forecasting engine and capture local climatic and operational patterns.

Data point	Mandatory	Strongly recommended	Nice to have
Irradiance measurements: horizontal (GHI), tilted (GTI) or both		x	
Production	x		
Cell temperature		x	
Ambient temperature		x	
Wind speed			x

The same on-site data streams are used in real time to continuously improve the PV plant's forecast accuracy.

INTEGRATION, SECURITY & SERVICE LEVELS

Integration

- On-site data integration
- Preferred: API-based integration using HTTPS (push mode)
- JSON data format (CSV optional)
- Compatible with EMS, SCADA, trading platforms, BESS controllers and data lakes

Forecast outputs (via API)

- API-based integration using HTTPS (pull mode)
- GHI forecast (W/m²)
- GTI forecast (W/m²)
- PV power forecast (kW)

Cloud

- Cloud infrastructure hosted on AWS
- EU-WEST-3
- Architecture compatible with sovereign cloud constraints

Deployment & data residency

- Default deployment: AWS EU-WEST-3 (Paris)
- Alternative regional deployments available on request

Service level

- Service availability SLA: 99.5% uptime

Security & access control

- HTTPS / TLS encryption
- OAuth 2.0 authentication
- Role-based access control (RBAC)
- Full logging and auditability of data access

Monitoring & traceability

- Historical forecast archiving
- Continuous monitoring and automated failure handling
- Full traceability of inputs and outputs
- Suitable for audit, regulatory review and post-event analysis

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