




Satellite Data to Climate Intelligence


Contact : partnerships@blueskyhq.io for more info





About us : BSA at a glance

A high growth DAAS company


 Started operations in **2019**
1st enterprise customer in 2020


 **15** strategic partners
1+M revenue till date


 **30** employees working
remote from **3** continents


 **300+** users on Dev portal
50 terabytes of data analyzed

Backed by Deep Tech

 In house forecasting models
with **high accuracy**

 Climate data as **daas**
delivered via **API**

 **Visualization** platform
for multiple datasets

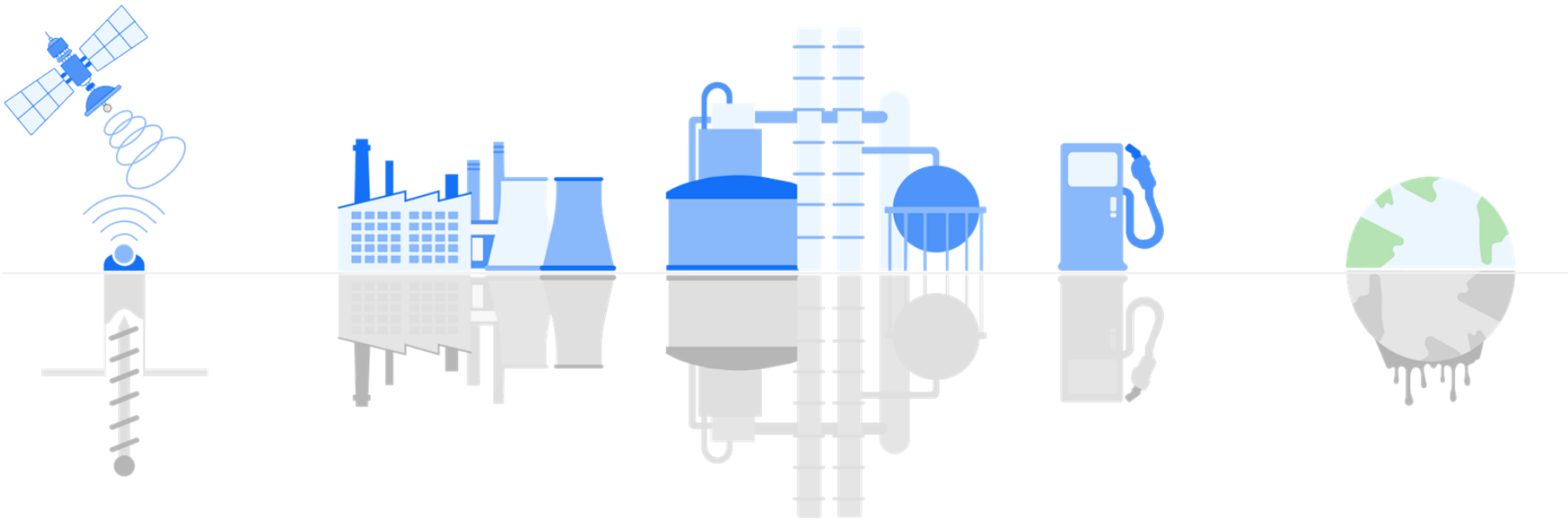
 **Automated** tech infra for generating
datasets in **minimal time**

Mission : Satellite Data to Climate intelligence

Blue Sky Analytics provides extensive Climate Intelligence by refining and modelling Satellite data and delivering in real time to support variety of high value & high impact use cases

Building world's largest geospatial data refinery

Satellite and Sensors Blue Sky Data Refinery AI Models APIs Sustainable Ecosystem



Oil wells Oil refinery Fractional Distillery Petrol Pumps Carbon Economy

Process : Monitor and Measure

Input **latitude** and **longitude**



Forests



Power plants



Home loan
portfolio



Industrial credit
portfolio



Real
estate
assets

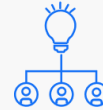


Power
infrastructure

Allow us to



To do the **analysis** and find **satellite data**



Build our **proprietary models**, work with **domain experts**
and **extract relevant intelligence**

Deliver the insights via



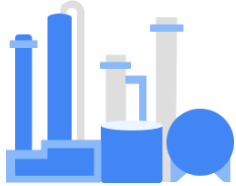
Visualization through our tool
Spacetime



API calling through our tool
Dev Portal

USP : Differentiated value for users at 3 different levels

Technology



Geospatial Data Refinery

- Automated, scalable and reusable
- Ingest data from various different sources
- Required output in the minimal timeframe

Platforms



Configurable APIs

- Data in spatial and temporal context
- Visualize multiple datasets on the same platform
- Datasets through API in standardized form

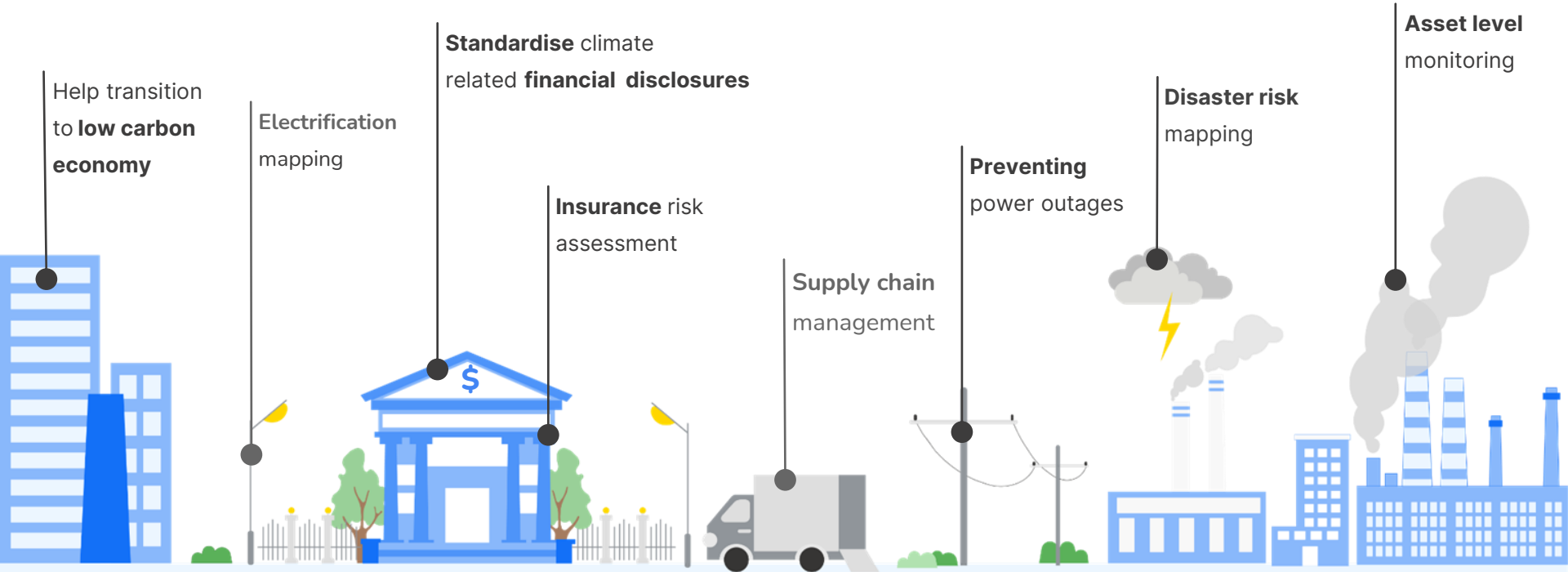
Solutions



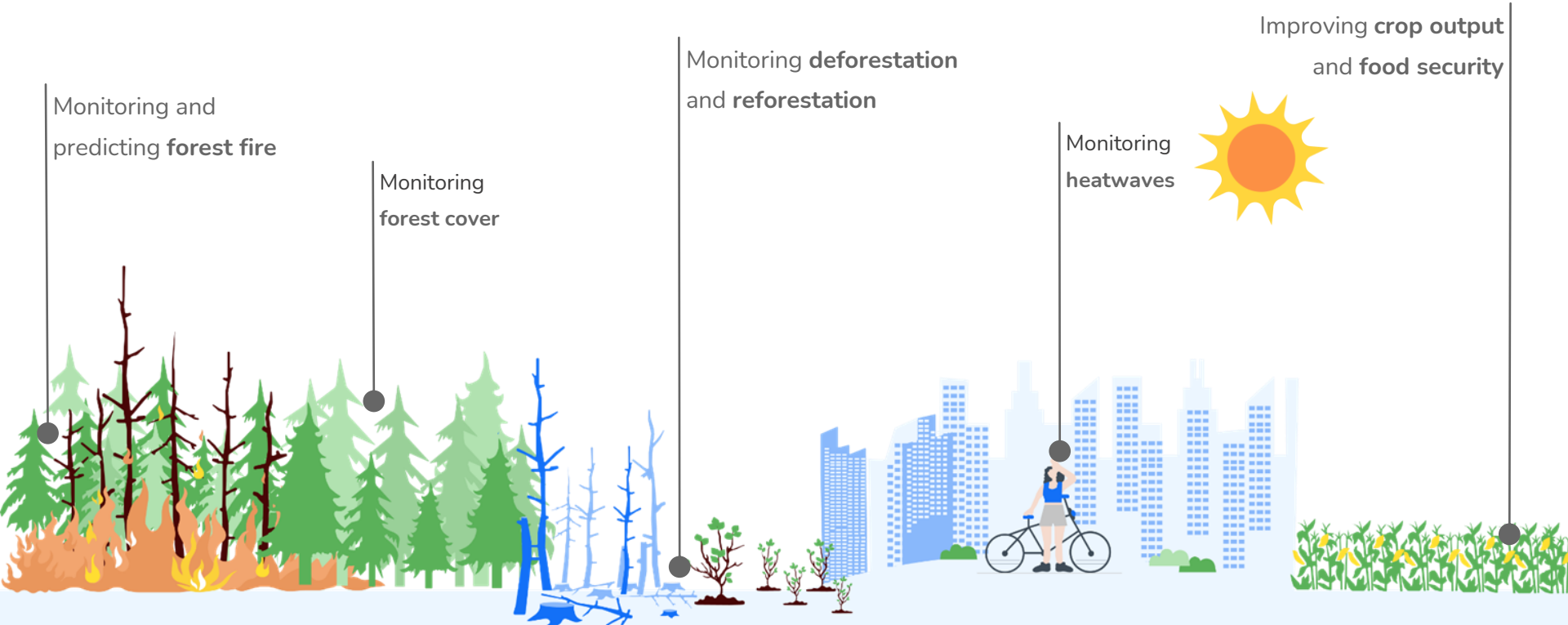
Business insights

- Asset level information
- Historical, near real time and predictive data
- Decision useful data for timely implementation

Vision : Comprehensive climate datastack

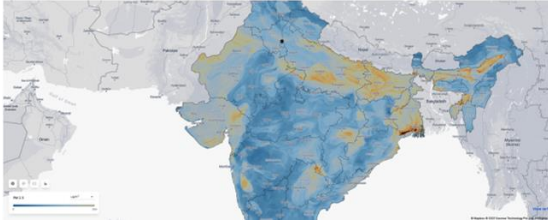


Vision : Comprehensive climate datastack



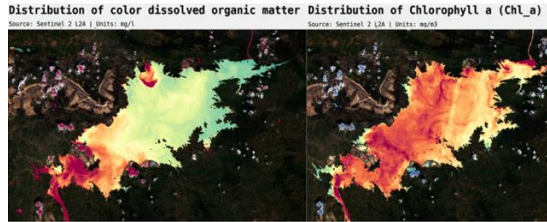
Incoming datasets in 2022-23

Spatial AQ



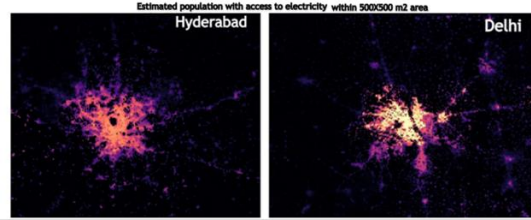
PM2.5 levels in North India

Water quality monitoring



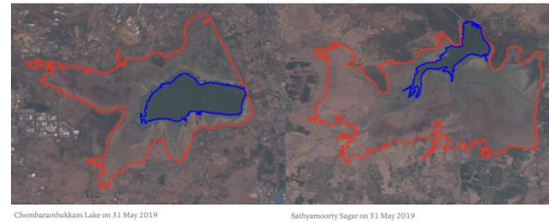
Water quality parameters for GB Pant Sagar, Singrauli

Electrification



Population with access to electricity using pixel-based classification on night-time light and population density data

Surface water quantification



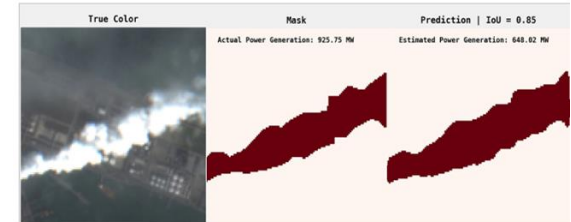
POC with the city of Chennai, in light of zero-water day. Surface Water Extent for two lakes in Chennai, May 2019

Landfill detection



Chennai Corporation Landfill, Growth overtime 2021

Power-plant emission



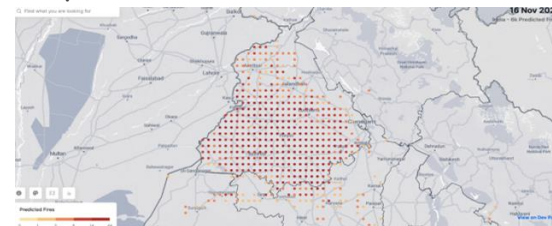
Actual vs Estimated power generation using Blue Sky's dataset

GHG fire emissions



Global contribution of CO2 estimates from biomass fires for June 2022

Fire predictions



Predicted fires in Punjab, India on 16 November 2021



Asset Managers



Carbon Markets



Electric Utility



Insurance



Reinsurance



Agriculture



Climate litigation



Government



Natural Capital



Smart Cities



Banking



Disaster Management



Grants and Foundation



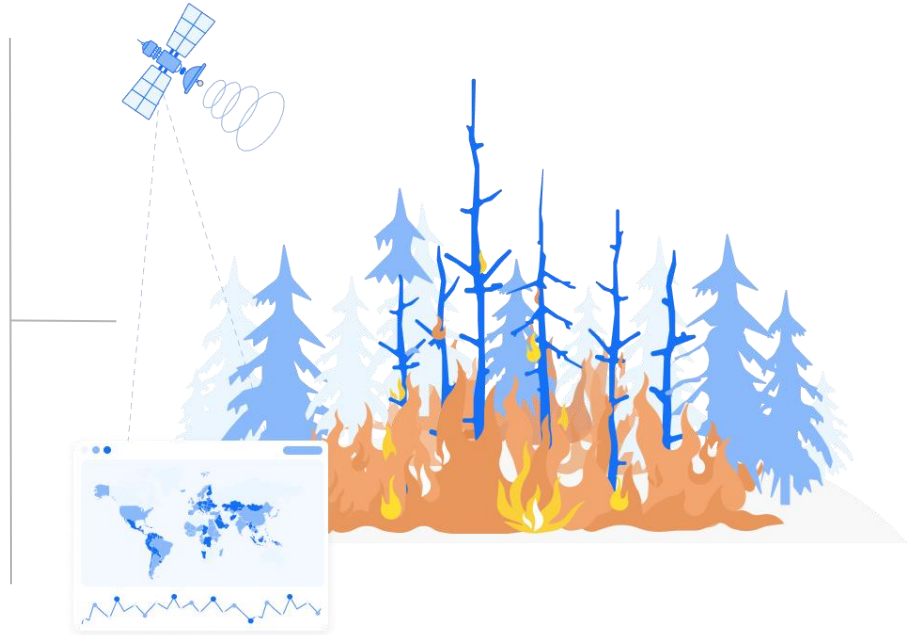
Real Estate



Stock Exchanges

Use Case : Evaluate wildfire risk for portfolio credit

- **More than 4 million km2 of wildfires were observed in 2021.** It is estimated that climate change has amplified global wildfires by 600%, emerging as the largest and most critical climate risk.
- Major wildfires were observed in US, Canada, Greece, Turkey, Russia, Indonesia, and Australia. The phenomenon is endangering towns, energy infrastructure, industries, and economic markets.
- We have built one of the largest repository of global wildfires data, comprising of detailed parameters like area burnt, carbon emissions, with upto 5 year historical, near real time, and 7 day prediction data.
- Our data can be accessed via APIs, SMS alert, mail notifications, or daily or weekly reports. Clients can also request custom dashboard for their area of interest. Alternatively, clients can input their asset/portfolio location data and fetch relevant wildfire risk data.



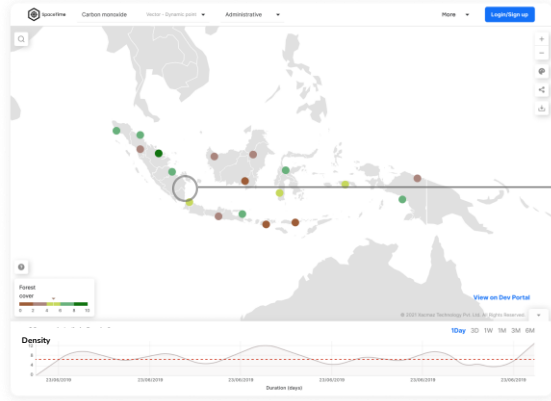
Natural Capital



Asset managers



Climate litigation



Level 1 : Country view

Presently, forests form 2% of global GDP, however with efforts around stopping deforestation, increasing land based carbon sequestration, the value of forest & hence management, monitoring services has exploded



Level 2 : Asset view

Blue Sky Analytics digs deep down in global forest monitoring, starting with wildfires, to deforestation & reforestation



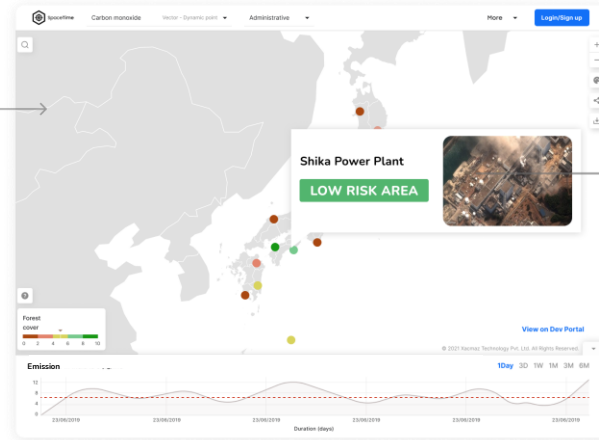
Level 3 : High Resolution

Clients can load their concerned land & access series of parameters



Level 1 : Aggregated

With rising climate risk, often exceeding existing models and predictions, and increased conservation efforts across board has resulted in demand for near real time asset level monitoring



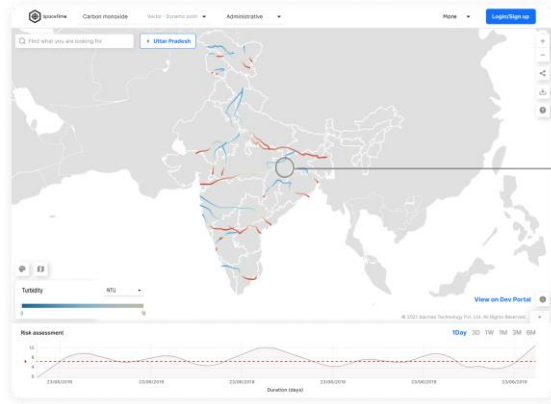
Level 2 : Asset view

Monitoring assets for both their impact on the environment in terms of pollution or emissions, or effect of climate change on them is demanded across sectors



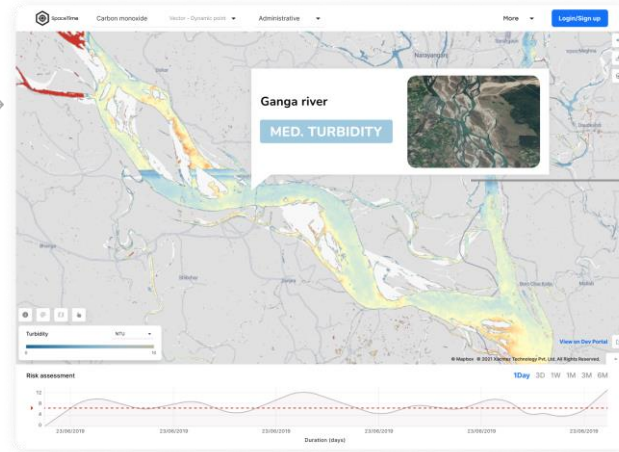
Level 3 : High Resolution

SpaceTime™ allows clients to monitor assets for series of use cases



Level 1 : Country view

Climate change poses one of the highest threats to global water security, in forms of extreme precipitation induced flooding and amplified droughts



Level 2 : Asset view

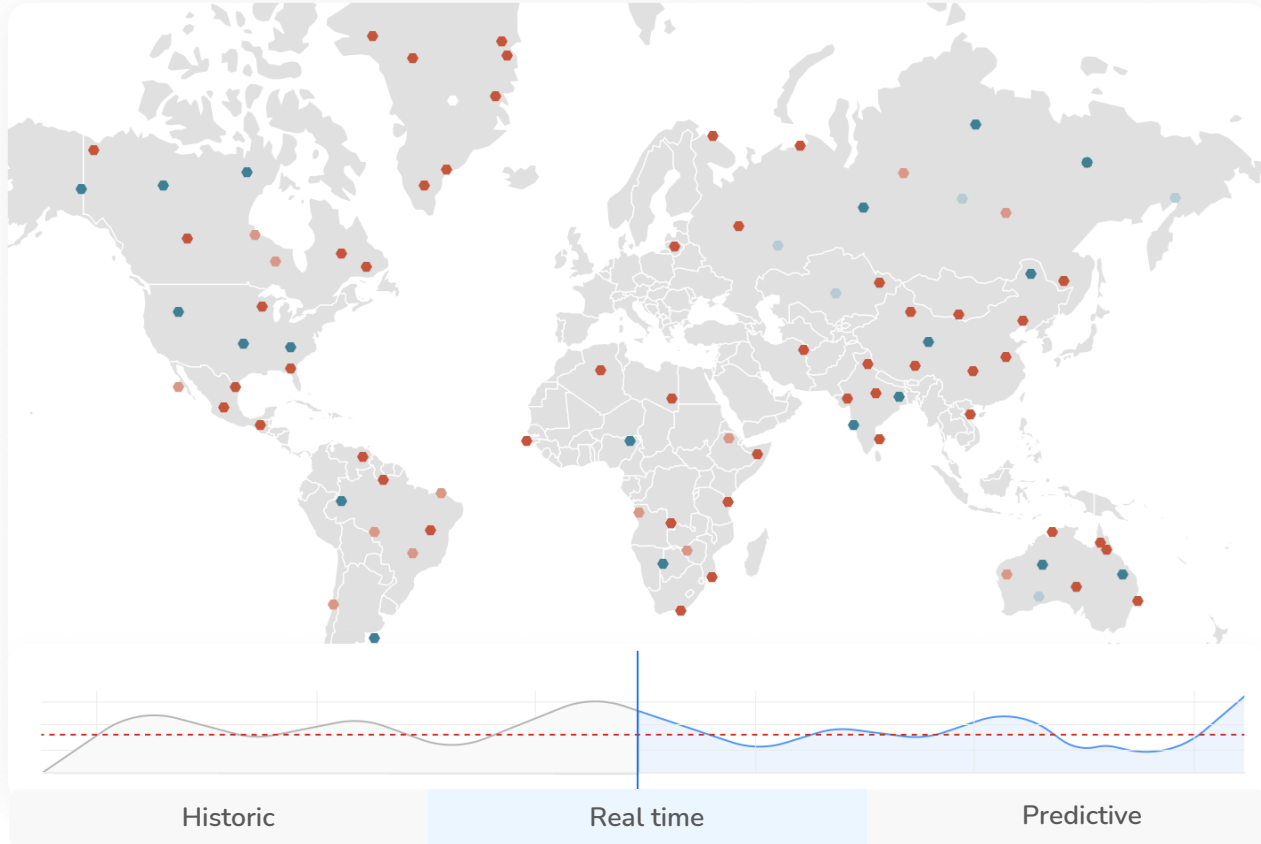
Various public & private organizations are actively engaging in river/lake monitoring for protection, risk mitigation, or long term planning



Level 3 : High Resolution

Access high resolution details of lakes and rivers on SpaceTime™

Mission : Satellite data to Climate intelligence



View multiple datasets together

Have a clear Spatio-temporal view

Select from a pool of 40+ datasets

View historic, real time and predictive data

API Gateway

For Data scientists & Developers

Easy integration by data teams of organization into existing software, different models, algorithms, or data products



Analytics

For Analysts & Operations

Bespoke reporting with insights, inferences for non-technical clients, project assignments in climate litigation/ investment due diligence.



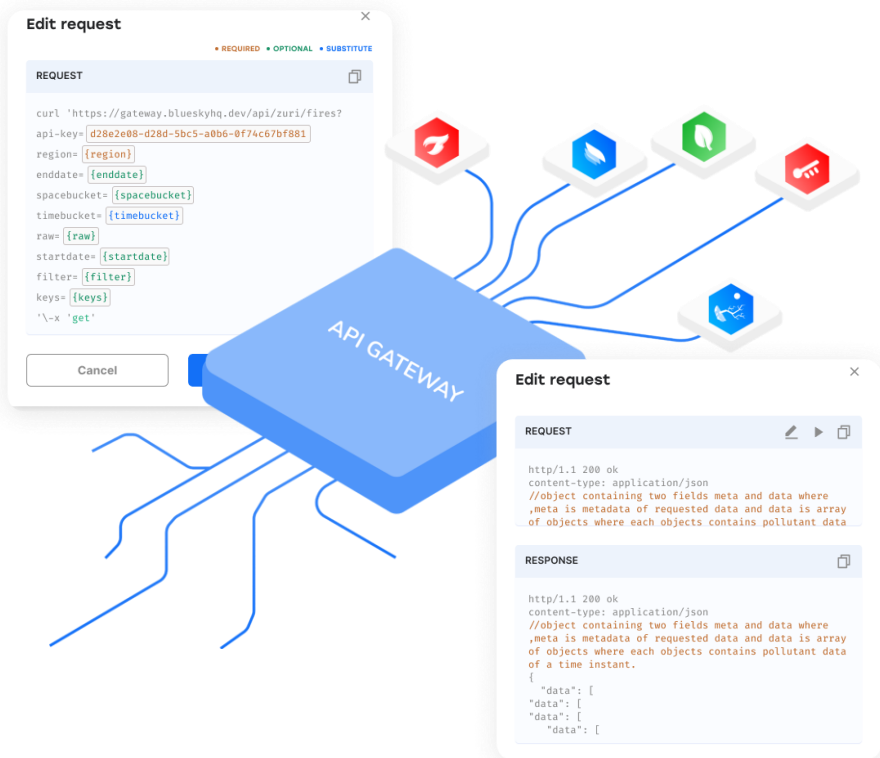
SpaceTime

For World

Freemium visualisation tool for general population for increasing awareness, assisting journalists, exploration by clients, marketing, etc.



A data & analytics based platform approach provides the opportunity to both, serve existing organizations and also enable emerging Climate-tech companies.



Dev portal

Data forms backbone of various internal algorithms across organizations, or feeds into internal dashboard or is a critical component of industry or problem focussed solutions.

In each scenario, the users typically need to hook datasets to their algorithms or solutions or dashboards.

With Blue Sky developer portal, users can access datasets straight from APIs and focus on their models or calculations, leaving complex remote sensing for climate modelling to us

About us : Team

Founders



Abhilasha Purwar, CEO



Kshitij Purwar, CTO



Our team



Advisors



Kailash Nadh
Co-founder Zerodha



Chandru Badrinarayanan
Ex - MSCI Head



Shobhit Shukla
Founder Near



Ashish Dhawan
Philanthropist, CEO of CSF



Prof Sagnik Dey
Centre for Atmospheric Sci., IIT Delhi



- Since the founding days, Blue Sky has been repeatedly recognized for persistence, integrity and innovation at various global forums
- In 2019, Blue Sky won MIT Solve Healthy Cities Challenge, Space Oscars. In 2020, BSA won AI Innovation Award. In 2021, Blue Sky Analytics won Tech for Global Good Laureate.
- In 2022, BSA represented in various high level meeting with Dutch PM and Indian President for discussions on innovations and partnerships for Water & Climate Action.
- And, selected for 2022 AWS Space Accelerator, Fast Company Climate Innovation, & more

Thank You

Reach out to me

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Find more about us

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