



AURORA® represents a groundbreaking advance in immersive enterprise platforms, specifically designed for intelligence collection and analysis. Its innovative approach transforms how organizations gather and interpret critical data. Aurora provides an agile, insightful, Artificial-Intelligence (AI) driven, Intelligence-as-a-Service (IAAS) for securely ingesting any data with the sole mission of helping you make better decisions.

The AURORA:IAAS® platform solves the fundamental productivity problems caused by siloed and inaccessible data, inadequate data collection, and stymied decision-making. AURORA is a revolutionary SaaS platform focused on exploring and answering questions via an intuitively-driven artificial intelligence and a game-like user experience. AURORA is designed to bring an enhanced level of confidence surrounding the discovery of answers for two reasons: (1) our proprietary ability to know where to look among the vast libraries of data across the internet, and (2) our model-free organic learning and contextual gravity approach to mitigate bias and observe otherwise indecipherable data patterns for better insight. Welcome to Sovereign Intelligence.

AURORA is engineered to help analysts answer risk intelligence questions by intuitively illuminating new insights as part of the investigative process. For example, it finely balances intrinsic and extrinsic motivators while supporting the analyst's unique and often non-linear workflow. If an analyst gets a hunch to explore some adjacent idea, tools need to be available to naturally support this behaviour. AURORA does this by inviting the analyst to embark on a mission aided by a unique combination of ground-breaking artificial intelligence guides, a captivating user experience, and deeply integrated volumes of both open and hard-to-reach datasets, as needed metrics.

### **Aurora: Intelligence-as-a-Service**

Aurora:IAAS® addresses legacy problems discovered across commercial and government agencies.

### **Data Management**

Aurora: Intelligence-as-a-Service addresses the Data Management problem with our Global Collection Network. Aurora is data agnostic and has a universal collection apparatus, collecting unstructured and structured data. Our Global Collection Network includes API sources and operates via human heuristics based on mission or investigative workflow. The GCN includes: Open Source, Evidence Intelligence, GeoSpatial, Telecom, Satellite, LiDar, Social Media, Signals Intelligence, and Network Intelligence.

### **Data Migration**

Aurora: Intelligence-as-a-Service addresses the Data Migration problem with our proprietary Contextual Gravity algorithm. Aurora self-assembles data and visualises information relationships using elements of graph theory in multi-dimensions. All data structures become objects or entities with intrinsic contextual gravity in relation to other objects, locations, etc.

### **Workflow: User Interface**

Aurora: Intelligence-as-a-Service addresses the Workflow:User Interface problem with Workflow-as-Code, Mission-as-Code, and our intuitive, discovery based workflow. Each mission starts with a brief, which triggers automated collection and self-assembly of data, ultimately producing a narrative report which is collaborative for a team of analysts. Aurora operates with a simplified

cross-mission salience and similarity, allowing for graphical investigation summaries and reports. Aurora's intuitive, game-like environment solves the typically boring, static user-interface problem.

## Security

Aurora: Intelligence-as-a-Service employs a Security-as-Code approach. Security and access rules are derived directly from business rules. Aurora's Security Development Operations implants security coding deep into the heart of the software. Security-as-Code allows security to be deployed in a repeatable, consistent, version controlled manner. Security-as-Code determines who can share data and applications.

## Meaning: Analytics

Aurora: Intelligence-as-a-Service addresses the failure of current analytics to find meaning in data. Aurora integrates many open source software efforts including Python, Numby, SpaCy, Pandas, Jupyter, and others. Aurora combines these analytics with our own proprietary AI software including Contextual Gravity and token-free byte level artificial intelligence. Aurora includes core competencies for data analysis, spatiotemporal applications, graph theory analysis, 2D and 3D graphics, as well as structured and unstructured data understanding.

## Unique Value Proposition

### Aurora:IAAS®

Sovereign has developed the most disruptive intelligence software the world has ever seen. AURORA solves the problem of weak decision-making, whether instigated by siloed data, inadequate intelligence collection, biased AI assumptions, or stymied sense-making capacity.

Service Offerings	Description of Unique Value Proposition
Data Fusion	AURORA correlates multiple sources of information to provide robust and confident assessments across a variety of use cases.
Global Collection (GCN)	AURORA ingests any data. Our GCN is a universal collection apparatus permitting structured and unstructured OSINT data collection, multiple API sources with the capacity for contextual or key-targetable crawling.
Contextual Gravity	Contextual gravity self-assembles, then visualises information as network relationships in multi-dimensional space. Layout distances are determined with a proprietary model and rendered into detail depending on the user's navigational altitude.
Machine Learning	Proven techniques in AURORA include: Entity Extraction, Parts of Speech, Sentiment, Stemming, Lemmatization, TF/IDF, Topic Modeling, Image Registration, Directed and Undirected Graphing, Map Matching, Linear Regression, as well as Statistics and Clustering.
Token-free Byte Level	AURORA incorporates a token-free byte level AI approach to eliminate the bias, achieve computational efficiency, scalability, and faster inference.
Gaming Environment	AURORA provides a stimulating, video game-like experience that keeps users invested in the outcome of their exploration.
Spatiotemporal Methodology	AURORA can <i>partition spatial and temporal queries</i> . The capability was developed to query inter-repositories and external data services and systems that can not support broad and/or large scale queries.
Reward System	AURORA includes a reward and ranking system that unlocks tools, data, and harder problems. It provides the analyst with intrinsic and extrinsic self-improvement motivators by ranking analysts against others for performance benchmarking.
Location Intelligence	AURORA's ability to organise, learn, understand, extract knowledge and manipulate the Location Intelligence environment include geolocation metadata, telecommunications, etc.
Advanced Forecasting	AURORA is able to rapidly detect anomalies in data at enterprise scales through a proprietary system called EyeRIS®. EyeRIS® is used to forecast activity levels for any location and alert the user when activity levels are lower than normal.

## Solutions Suite

### Aurora:laaS®

AURORA solves the problem of weak decision-making, whether instigated by siloed data, inadequate intelligence collection, biased AI assumptions, or stymied sense-making capacity.

### Aurora:GeoStudio®

Aurora: GeoStudio® helps you discover the geolocation of smartphone devices on a global scale. If you can observe *where* people go, you can learn *why* they are there. We observe over 16 billion geolocation events and over 600 million devices every day.

### Aurora:AddScore®

Aurora: AddScore® helps financial institutions verify the addresses provided by a loan applicant. To avoid fraud, and to prevent money laundering, banks need a fast, secure, and discrete method to confirm an applicant's home or work address. The Aurora: AddScore® utilises our Aurora: GeoStudio® data analytics to quickly confirm the actual presence against the claimed location of devices during a history look-back at the applicant's activity.

### Aurora:GeoCanvass®

Aurora: GeoCanvass® provides commercial or government entities with automated geolocation attribution of devices discovered during Area of Interest for sensitive site locations, retail marketing/advertising, as well as national security related intelligence collection.

### Aurora:NetIntel®

Aurora: NetIntel® not only provides a singular focus on in-network vulnerabilities and associated risk ratings but also expands and connects into the Threat Actor Landscape, revealing the potential for stolen or exposed Intellectual Property, Code, and PII. Built for IT Security Professionals.

Service	Aurora:laaS®	Aurora:GeoStudio®	Aurora:AddScore®	Aurora:NetIntel®	Aurora:GeoCanvass®
Type	Enterprise	Enterprise	Enterprise	Enterprise	Enterprise
Optimal Clientele	High Volume Data/Intel Service	Multinationals/ Cyber Security	Sophisticated Intelligence/Investor/Advisory Firm		Sophisticated Data Analytics Companies/Government
No. of Units	1 API	1 SaaS	1 API	1 API	1 API
Licence Term	1 Year	1 Year	1 Year	1 Year	1 Year
Pricing	Based on Scope/Usage	Licence Fee Based on Usage	License Fee Plus Pay-per-search	Licence Fee Based on Usage	Based on Scope/Usage
Payment	Yearly Upfront	Yearly Upfront	Yearly Upfront	Yearly Upfront	Yearly Upfront
Return	Full Software Interaction	Full Software Interaction	Metrics/Report	Metrics/Report	Geolocation Attribution Report

Contact us via [discover@sovereign.ai](mailto:discover@sovereign.ai) for more information.

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