SATNAVIX

SATELLITE NAVIX TECHNOLOGIES FZE

Beyond Space. Beyond Boundaries.

THE GRAND VISION

Turning the World’s Satellites into the World’s Technology.

From satellite signals and imagery to the maps, software and services people use on Earth.



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SPACE INFRASTRUCTURE

THE SATELLITE ECOSYSTEM

Navigation

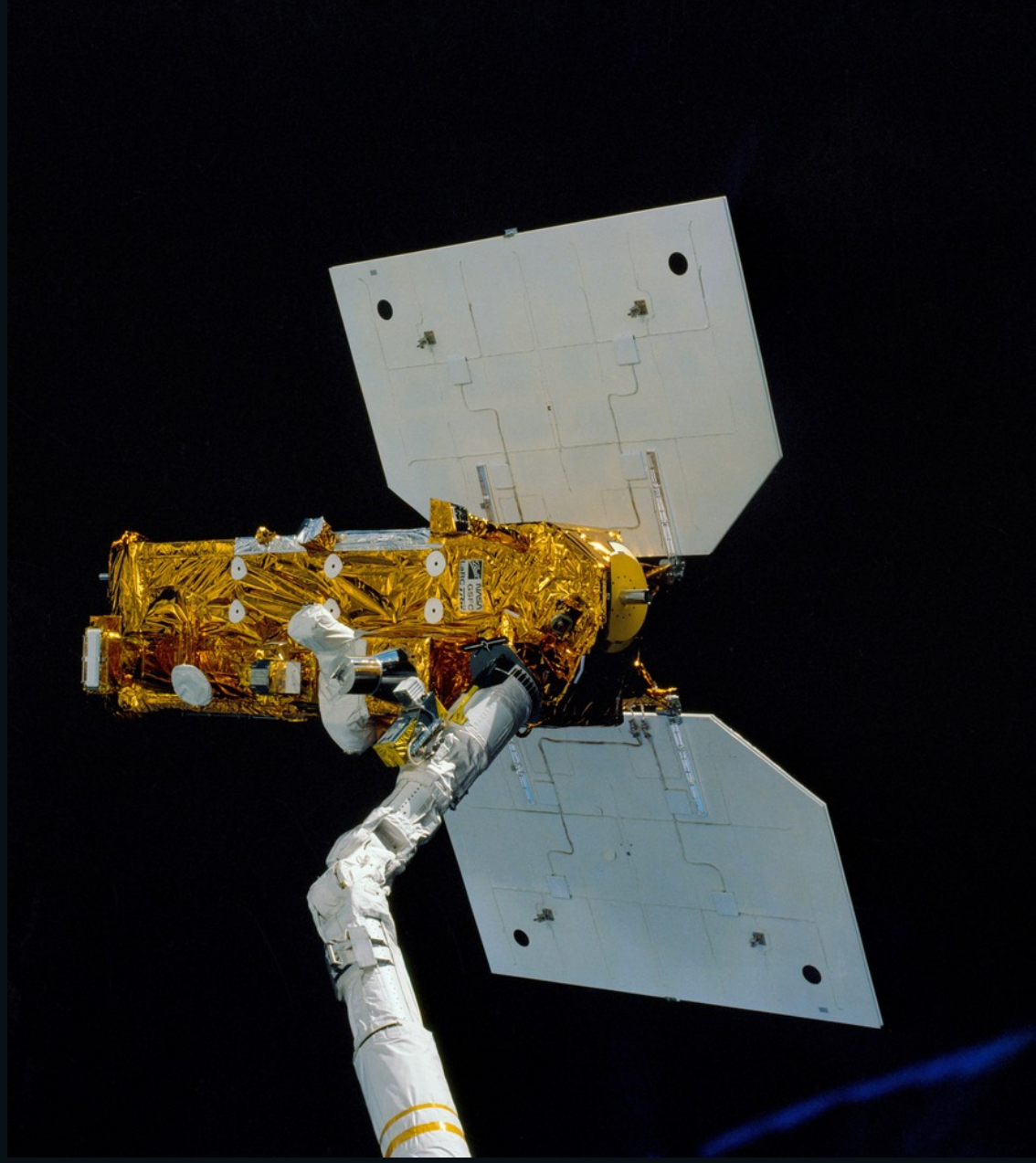
Navigation satellites broadcast their orbit and timing data. A receiver uses those signals to calculate its own location.

Earth observation

An orbiting instrument measures the Earth. Dated observations show where land, water or infrastructure may have changed.

Communications

A terminal moves readings or messages over a contracted link. Field teams can send them through terrestrial networks where those are available.



Earth Radiation Budget Satellite on Challenger's robotic arm, October 1984.

Photograph courtesy of NASA.

EIGHT VERTICALS, SEVEN PRODUCT FAMILIES

Six SATNAVIX verticals shape the tools that planners, asset owners and field teams use. NAVIX Labs and NAVIX Space support the full geospatial portfolio.

NAVIX Earth — NAVIX Atlas

Publishes shared maps and source catalogues.

NAVIX Intelligence — NAVIX EarthWatch

Turns dated observations into change cases.

NAVIX Resources — NAVIX Land Register

Organises land, forestry and mineral records.

NAVIX Digital — NAVIX Asset Twin and NAVIX Civic Desk

Connects physical assets, permits and decisions.

NAVIX Navigation — NAVIX Field Survey

Qualifies positioned inspections and surveys.

NAVIX Connect — NAVIX Field Link

Delivers remote site and field messages.

NAVIX Labs tests methods and release criteria.

NAVIX Space specifies collection and ground delivery.

A SHARED MAP FOR A DELTA SURVEY



WHAT THE MAP SHOWS

The Zambezi Delta in Mozambique. ESA WorldCover classifies the land from satellite observations. In this extract, permanent water, mangroves and herbaceous wetland remain separate. Other classes are grouped.

WHAT NAVIX EARTH ADDS

Atlas would publish the dated layer alongside survey sites and the custodian’s records. A field crew can open the same layer at its assigned site.

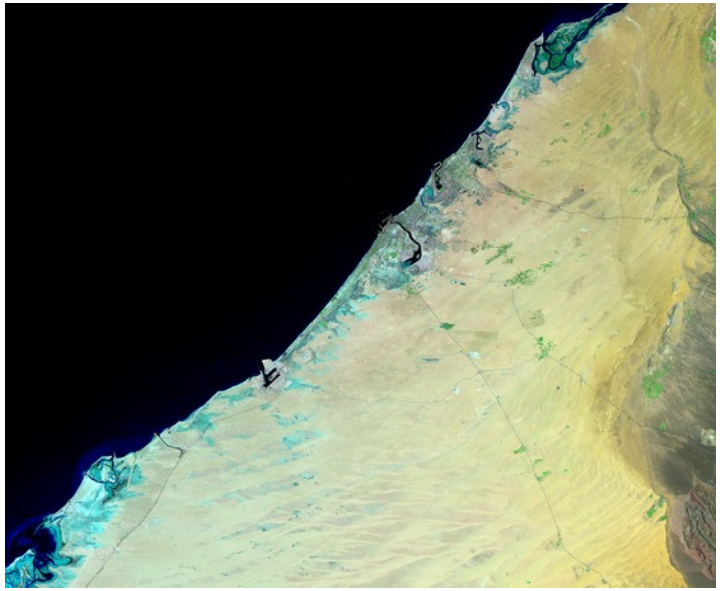
CUSTOMER HANDOVER

A searchable map service and export with source, class definitions, coordinate reference system and approved revision.

ESA WorldCover project 2021. Modified Copernicus Sentinel data (2021) processed by the ESA WorldCover consortium. Classes grouped. CC BY 4.0.

READING CHANGE ON THE DUBAI COAST

Compare the same stretch of Dubai coastline over time. Offshore islands appear in the later scene. An analyst can identify a site for review and trace it back to both observations.



3 May 1991

Landsat 5



17 June 2022

Landsat 9

WHAT THE ANALYST CHECKS

Acquisition dates, alignment, usable coverage, sensor differences and water conditions can affect the comparison.

WHAT EARTHWATCH DELIVERS

A model can flag candidate changes. The reviewed layer records source scenes, an extent and the analyst’s decision.

Source imagery courtesy of the U.S. Geological Survey, EROS Center.

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NAVIX LAND REGISTER

THE GROUND BEHIND A RESOURCE RECORD

At Bingham Canyon in Utah, benches and waste-rock deposits can be seen from orbit. To manage a concession, the operator also needs its approved boundary, permitted uses and dated field evidence.

WHAT NAVIX RESOURCES DELIVERS

A versioned concession record that links critical-mineral exploration targets, rehabilitation plots and field inspections to the correct plan.



Bingham Canyon copper mine, Utah, 20 September 2007.

NASA / Johnson Space Center, Expedition 15 crew.

WHEN A MAPPED CHANGE BECOMES AN ASSET

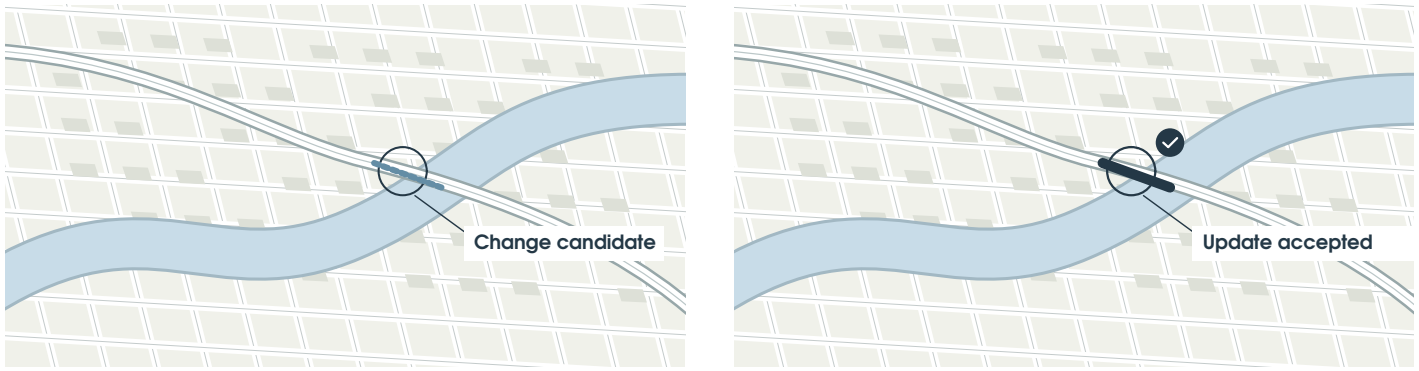
A service road has moved. The works permit describes what was authorised. A surveyed as-built drawing records what the crew built. The asset owner decides which revision enters the maintenance model.

01 OBSERVATION

Change seen in a dated image pair

02 ASSET REGISTER

Field check accepted by the asset owner



Illustrative municipal corridor. The asset owner controls the published record.

NAVIX CIVIC DESK

The case officer links the permit, plans and conditions to a site. After the works, the officer records the decision and its supporting survey.

NAVIX ASSET TWIN

The asset owner accepts the surveyed alignment. The maintenance team can reopen the prior version, current geometry and supporting evidence.



GNSS survey at Ackerson Meadow, California, June 2023.

Photograph courtesy of the U.S. Geological Survey.

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NAVIX FIELD SURVEY

A POSITION THE ASSET OWNER CAN CHECK

At a water point or on a construction site, the survey team records the feature ID, position, time and method. It also records the coordinate reference system and uncertainty.

WHAT NAVIX NAVIGATION DELIVERS

An inspection that a reviewer can check against an agreed control point and task tolerance before accepting it into the register.

A FIELD RECORD THAT SURVIVES A COVERAGE GAP

A coordinate and a transmitted message are separate events. At a remote site, the crew needs to know what was captured, when it arrived and whether the office accepted it.



GPS antenna and a separate satellite data link at station P712 near Yellowstone.

Scott Johnson, EarthScope Consortium / USGS, July 2025.

WHAT HAPPENS AT THE SITE

Field Link queues the signed-in user’s inspection with its asset ID and capture time. The device sends it over an agreed cellular or satellite connection when service returns.

WHAT NAVIX CONNECT DELIVERS

A receipt, delivery status and a record of retries. Licensed operators supply capacity, including remote broadband where required.

FROM ORBIT TO A COASTAL WORKS ORDER

A coastal planning authority needs to know which waterfront changes warrant an inspection. The following workflow uses the Dubai observation to illustrate what the proposed service would deliver.



Illustrative review extent on the 2022 USGS scene.

ORBIT AND SOURCE DATA

NAVIX Space specifies the observation window. NAVIX Earth records the source scene, date and right to use it.

GEOSPATIAL PRODUCT

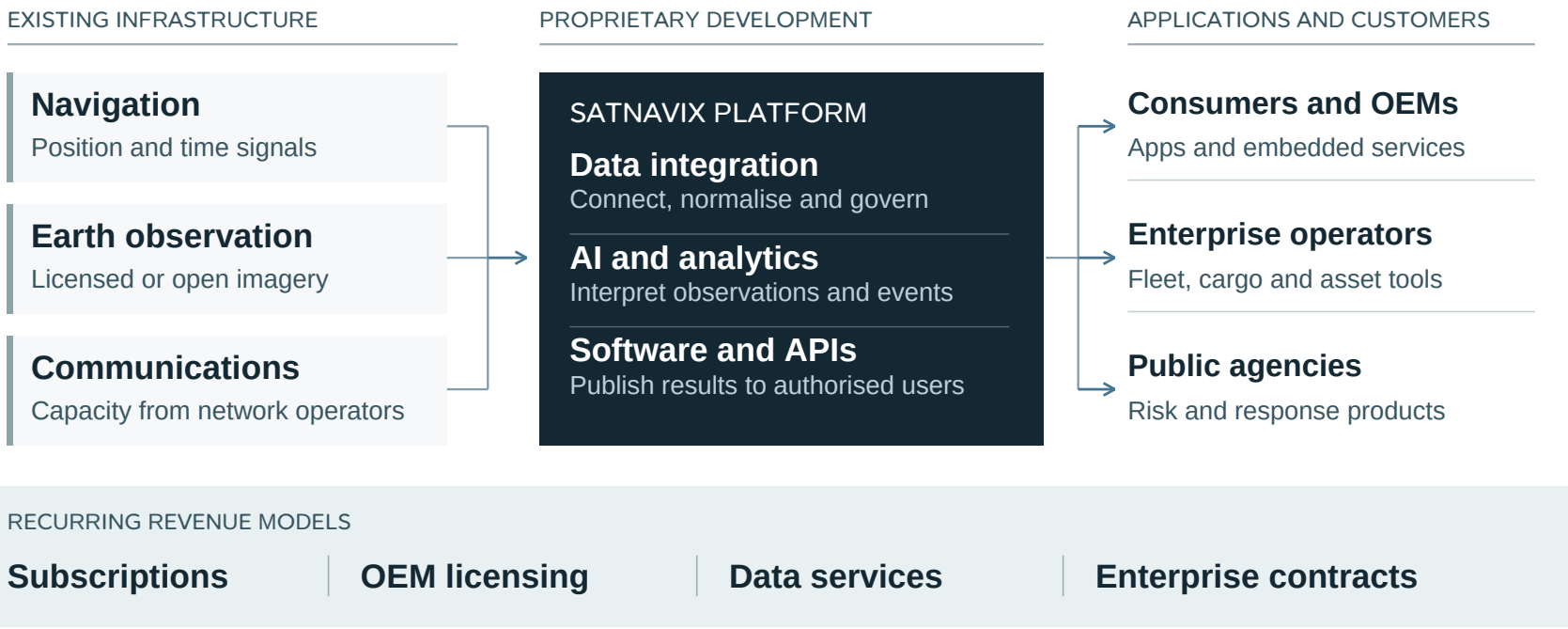
NAVIX Intelligence flags a candidate extent in EarthWatch. An analyst compares both dates and overlays the customer’s works plan in Atlas.

BUYER AND DECISION

The coastal planner receives a ranked inspection list with scene references. A field visit resolves the case. The authority could subscribe per monitored shoreline and review cycle.

WHAT SATNAVIX INTENDS TO OWN

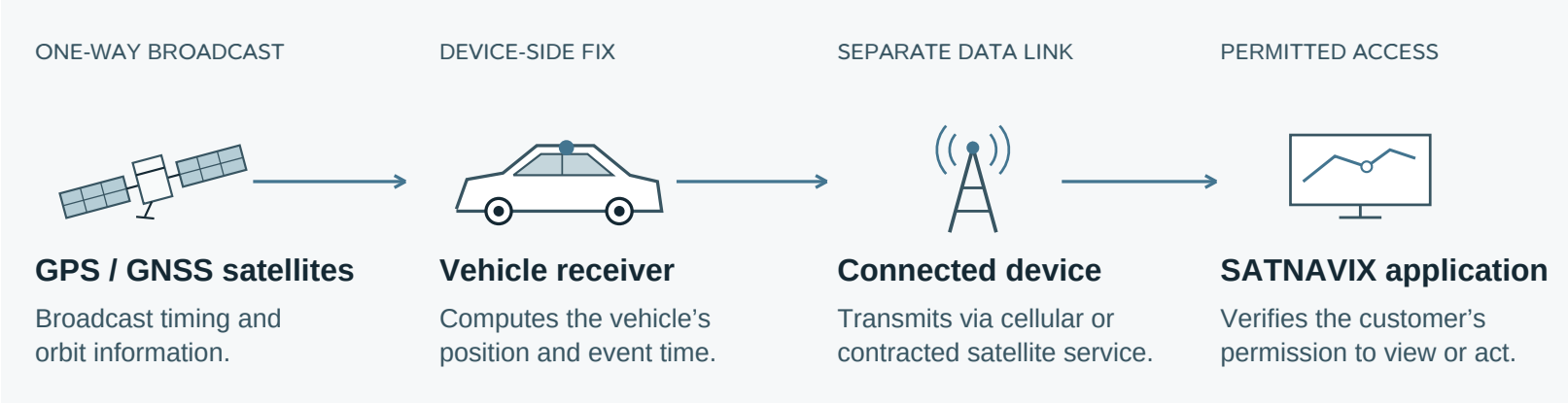
The same software can serve a coastal authority, a manufacturer and a consumer application. We intend to own the provider adapters, shared event records, permissions, AI models, analytics and APIs.



Working with manufacturers and software developers, we aim to enable thousands of practical applications and reach millions of customers worldwide.

HOW A CONNECTED VEHICLE REPORTS ITS POSITION

A vehicle receiver calculates its location from one-way navigation broadcasts. A separate cellular or contracted satellite connection reports that position to the people authorised to see it.



A fleet can subscribe to dispatch alerts. A manufacturer can license an embedded service. A driver can separately authorise a time-limited recovery request. Each use needs its own access permissions.

MOBILITY AND TRADE

Drivers, shippers and dispatchers pay for a timely status change they can act on. A ship position alone cannot locate a particular container.

SECTOR	APPLICATION	WHO BUYS IT	CHARGING BASIS
Automobiles	Vehicle navigation, tracking and owner-authorised stolen-car recovery.	Automaker or vehicle owner	Active vehicle / month
Trucking	Fleet dispatch, route optimisation and late-arrival alerts.	Fleet or logistics operator	Connected truck / month
Shipping	Track tagged cargo containers across borders with linked port and vessel events.	Cargo owner or forwarder	Active container / month
Aviation	Monitor aircraft and review flight routes using permitted operational feeds.	Airline or aircraft operator	Aircraft / year
E-commerce	Track deliveries and exceptions against dispatch and proof of receipt.	Retailer or delivery platform	Delivery event or API tier

CONSUMER AND ASSET SERVICES

An owner may pay for one collar or vehicle. An enterprise may cover a portfolio of assets, with access delegated to the people responsible for each one.

SECTOR	APPLICATION	WHO BUYS IT	CHARGING BASIS
Personal safety	Share an opt-in distress location with a nominated contact or contracted response service	Individual or workforce safety team	User / month
Pets	Locate a paired pet tracker and notify the owner when a pet leaves a defined area.	Pet owner or device brand	Active collar / month
Insurance	Combine permissioned asset events and imagery to assess exposure or triage claims.	Insurer or risk manager	Portfolio / year or data feed
Construction	Track authorised equipment movements and compare site progress with the work plan.	Contractor or equipment lessor	Active machine or site
Real estate	Map properties and monitor project or surrounding land-use changes.	Developer or portfolio manager	Portfolio / year

INDUSTRY AND PUBLIC INFRASTRUCTURE

Earth observations identify where to inspect. Field teams confirm what happened. The customer decides when an asset record or operating plan changes.

SECTOR	APPLICATION	WHO BUYS IT	CHARGING BASIS
Agriculture	Monitor crop condition and direct precision-farming field checks.	Grower, cooperative or agronomist	Area / growing season
Mining	Screen mineral exploration prospects and monitor disturbance and rehabilitation at operating sites.	Mine operator or exploration firm	Site / year
Governments	Monitor public infrastructure and territorial land-use changes for authorised civil planning.	Municipality or public authority	Agency service contract
Oil and gas	Screen pipeline corridors and remote facilities for conditions that merit inspection.	Pipeline or facility operator	Corridor length or site / year
Telecommunications	Integrate remote connectivity, site alerts and permitted satellite backhaul.	Telecom operator or remote-site owner	Active site / month

MACHINE NAVIGATION AND RESILIENCE

Manufacturers can license position-aware services. Environmental and civil response teams can contract for repeat observations, event reports and supporting evidence.

SECTOR	APPLICATION	WHO BUYS IT	CHARGING BASIS
Autonomous vehicles	Support precision positioning and navigation with quality indicators for an OEM’s driving system	Vehicle manufacturer or integrator	Equipped vehicle licence
Robotics	Provide outdoor robot position and operating-area updates.	Industrial robot maker or operator	Robot / month
Drones	Plan authorised missions, associate positions with observations and retain flight records.	Civil drone operator or OEM	Aircraft / month
Environmental protection	Monitor forest change, ocean conditions and potential pollution for review.	Agency or environmental operator	Area and update frequency
Disaster management	Assess flood, fire and earthquake damage using before-and-after observations.	Civil response or recovery agency	Standby contract or event

FOUR RECURRING REVENUE MODELS

The customer should be able to recognise the billable unit in its own operations. Each contract ties the charge to an account, an activated device, data rights or an agreed service.

SUBSCRIPTIONS

Individuals and operators

Monthly or annual plans per user, pet tracker, vehicle, machine or remote site. Renewals depend on activation, reliable delivery and continued use.

TECHNOLOGY LICENSING

Vehicle, equipment and device makers

License an SDK or embedded module against activated units. Define the supported integration, release cycle and maintenance term.

DATA SERVICES

Risk teams and software platforms

Deliver a licensed feed or API under agreed usage tiers, geographic coverage, refresh frequency and redistribution rights.

ENTERPRISE CONTRACTS

Companies and public authorities

Contract for a multi-site service, integrations and support over a defined term. Scope one-time deployment charges separately.

HOW THE SERVICE EARNS ITS NEXT CUSTOMER

A direct fleet deployment tests whether dispatchers use the software and whether the operator renews. A repeatable installation gives manufacturers and developers something concrete to integrate.

DIRECT SALE	Choose a dispatch exception that matters. A model estimates arrival from permitted trip history. Measure the missed windows, avoidable calls and support effort against the customer’s baseline.
EMBEDDED DISTRIBUTION	License an SDK to a manufacturer and publish documented event APIs for software developers. Each integration uses the same permissions engine. Retain only the evaluation and feedback data allowed by contract.
ACCOUNT ECONOMICS	Separate recurring fees from hardware or installation receipts. Deduct device, connectivity, data, cloud, channel and support costs. Expand after a paid renewal and a credible recovery of acquisition costs.

WORLDWIDE SCOPE FROM A UAE BASE

SATNAVIX is a UAE-based company designing for a global market. The Middle East, Africa and India are proposed entry markets for the same underlying platform.



GLOBAL ORIENTATION

UAE base · Reference location · Illustrative market link

Dashed links illustrate market priorities. Markers indicate geographic references for planning.

MIDDLE EAST

Start from the UAE with municipal asset owners and road-freight operators. Oman offers a related port-maintenance workflow.

AFRICA

Test field operations and cold-chain logistics in Kenya. Ghana offers forestry and crop-insurance applications.

INDIA AND BEYOND

Test mineral-site review and equipment integration in India. Extend elsewhere as local buyers, data rights, distribution and support justify entry.

Locations indicate proposed development markets and the UAE base. Cartography by SATNAVIX using public-domain Natural Earth data.

MIDDLE EAST

From the UAE, SATNAVIX can develop map-linked public works and fleet services for the wider Middle East. The first pilots would use records held by a local municipality or operator.



MIDDLE EAST

UAE operating base Oman reference market

United Arab Emirates and Oman are shown in regional context. Boundaries: Natural Earth.

UAE MUNICIPAL WORKS

Link a drainage permit, as-built survey and accepted maintenance record. The municipal engineer confirms the evidence and signs the asset revision.

ROAD-FREIGHT SUBSCRIPTION

A fleet dispatcher receives changed arrival times and report age. Compare missed windows, calls to drivers and cost per active vehicle.

OTHER ENTRY PROJECTS

An Omani port could link berth equipment to inspection tasks. A separate automaker or insurer service could support owner-authorised recovery.

United Arab Emirates and Oman / Proposed projects. Cartography by SATNAVIX using public-domain Natural Earth data.

AFRICA

Local partners and operators would shape each deployment. In Kenya, field and logistics teams can use the same location records for different decisions.



AFRICA

Reference country Country locator

Ghana and Kenya are proposed entry markets. Markers indicate representative locations in each country.

KENYA WATER SERVICES

A county water team matches a borehole to its register. A crew records the condition offline. The supervisor receives one repair task after synchronisation.

KENYA COLD CHAIN

A distributor links location and temperature to a refrigerated load. Bill per monitored load or active vehicle after accounting for logger, airtime and replacement costs.

GHANA LAND AND RISK

Forestry teams can review stand-level changes. An insurer or cooperative could license growing-season crop indicators with agreed imagery rights and field checks.

Kenya and Ghana / Proposed projects. Cartography by SATNAVIX using public-domain Natural Earth data.

INDIA

Mine operators, irrigation authorities and equipment manufacturers need different outputs from the same map, position and field-record services.



INDIA

India | Reference state | Disputed area

Country and state geometry follows Natural Earth. Hatching neutrally identifies disputed areas.

JHARKHAND AND MAHARASHTRA

Review disturbance and rehabilitation against a mine lease in Jharkhand. An irrigation team in Maharashtra could map canal defects and verify completed repairs.

EQUIPMENT MANUFACTURER

License the positioning interface to a construction OEM. The equipment operator activates a monthly machine plan. Reconcile activations with invoices and site visits.

DELIVERY PLATFORMS

License arrival and handover events to an e-commerce platform under a contracted usage tier. Keep customer permissions and driver access separate.

Jharkhand and Maharashtra / Proposed projects. Cartography by SATNAVIX using public-domain Natural Earth data.

WHEN OWNING A SATELLITE EARNS ITS PLACE

Build a base of paying customers using existing infrastructure. Consider a hosted payload, a dedicated satellite or a constellation only when owned capacity improves a proven service.

LAUNCH APPLICATIONS

Buy access as needed

License imagery and capacity. Build the software and win paying users.

→

PROVE REPEAT DEMAND

Compare supply options

Measure demand, coverage, delivery cost and retention across repeat contracts.

→

COMMIT SELECTIVELY

Own capacity if justified

Compare buying, reserving and owning capacity for the same service requirement.

INVESTMENT DECISION

Commit to owned assets only if their incremental value exceeds the full cost.

Include development, launch, operations, replenishment, financing and the value of keeping alternatives open.

Price collection and downlink rights against the full cost of owned capacity, including mission operations and replacement. Contracted imagery also needs clear rights to distribute derived products.

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LONG-TERM SPACE PROGRAMME

OUR OWN CIVILIAN ORBITAL ROCKETS

SATNAVIX’s long-term ambition is to design, build, operate and launch civilian orbital rockets for its own satellites and customer payloads.

A SEPARATE INVESTMENT DECISION

Fund a launcher only if committed mission demand, authorisation, independent financing and the economics of the intended orbit justify it against contracted launch.



Landsat 9 launch, Vandenberg, California, 27 September 2021.

Photograph by NASA / Kim Shiflett.

THE FIRST JOINT DEMONSTRATION

Choose a workflow with an identifiable decision owner. A fleet arrival exception is a low-capital first test. A coastal-change review offers the same discipline for a geospatial partner.

DEFINE ACCEPTANCE	Name the local buyer and technical leads. Agree the decision, source records, consent and data-use rights. Select sample events and the action a reviewer should take.
RUN THE COMPLETE WORKFLOW	SATNAVIX configures the map, integrations and user roles. The technology collaborator supplies agreed interfaces and support. The operator confirms whether the resulting case is fit to act on.
AGREE THE NEXT DEPLOYMENT	Review missed events, stale records, support effort and direct cost. Agree who pays, who owns the software and who handles service incidents. A paid repeat deployment is the next funding decision.

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