Space42 Corporate Presentation

Space42 to become a global leader in AI-driven space technology

AI Analytics — AI-enabled advanced multi-intelligence data analytics generating insights derived from space assets

SatCom — Global connectivity enabler providing critical SatCom services

Geospatial — Comprehensive geospatial data from traditional mapping to space-based Earth Observation platforms

Earth observation

Traditional geospatial services
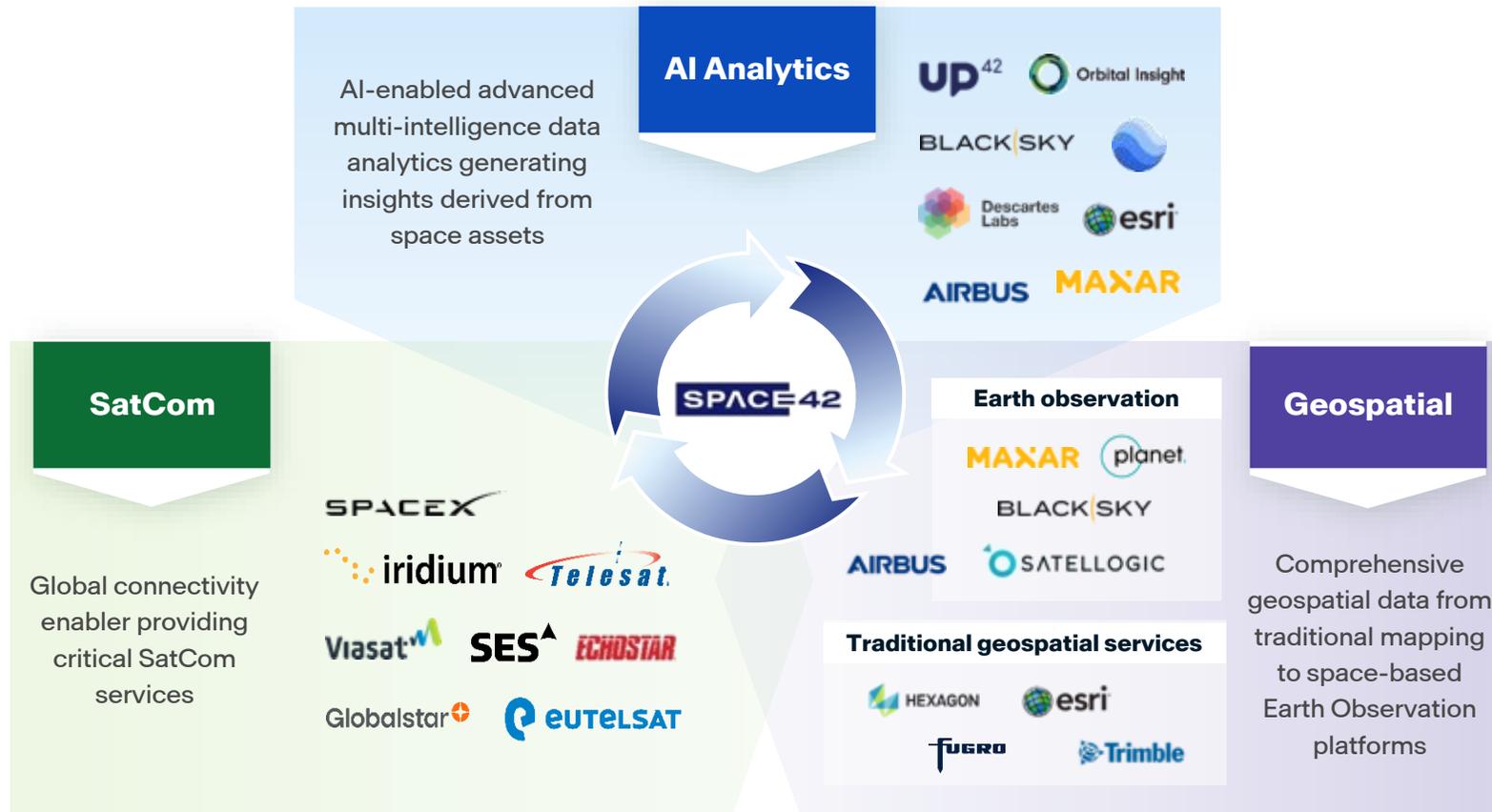
Space42 is uniquely positioned to leverage capabilities across all three sectors

Combination creates opportunities for synergies across data analytics, geospatial intelligence and satellite communications to unlock value for customers, partners and shareholders and position Space42 as global leader

Overarching position as a dual-use player brings further unique opportunities and ability to scale

SPACE42

Space Services

Business unit focuses on Upstream and Midstream infrastructure-centric activities, mainly covering satellite communications business
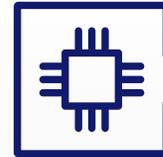
Smart Solutions

Business unit focuses on Downstream AI-enabled services and new technology incubation, mainly covering geospatial analytics business

Expertise

Satellite communication (SatCom) services

Geospatial data acquisition and management

SatCom satellites and ground station operations and management

AI driven multi-intelligence leveraging geospatial data

Earth observation satellites[1] and ground station operations and management

Smart Autonomous Mobility

1. In the near future

Pioneering platform – optimizing unification of SatCom, Geospatial, and AI

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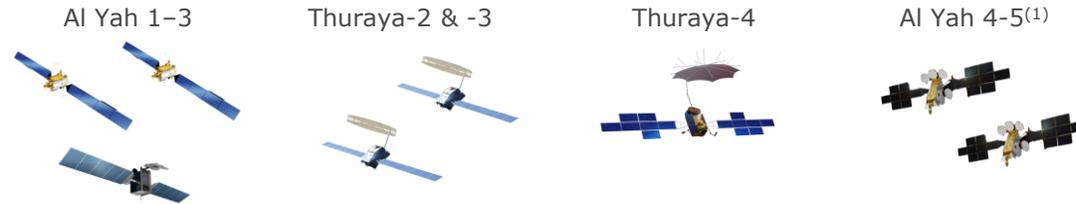Satellites in orbit and two in pipeline

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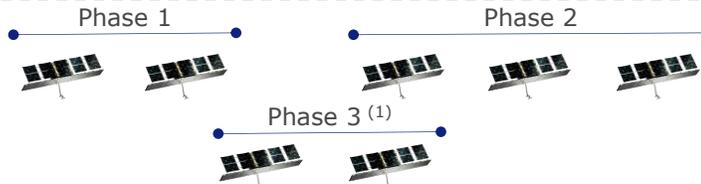Satellites in orbit and two in pipeline

600k+ km
Autonomous Mobility distance traveled

Geostationary Orbit (GEO) Satellites
(36,000 km above Earth)

Al Yah 1–3   Thuraya-2 & -3   Thuraya-4   Al Yah 4-5[1]

Low Earth Orbit (LEO) Satellites
(160-2,000 km above Earth)

Foresight Constellation

Phase 1   Phase 2

Phase 3 [1]

On-Earth

Space Systems   Cloud and Data Center   Ground Station   4/5G communication network   Voice, data, tracking, Terminals. Land, Sea, Air   Autonomous Mobility   Drones   Aerial

Shared core infrastructure

Unlocked synergies

GIQ SPACE42

AI Multi-intelligence Platform

SPACE42 — **Integrated for SatCom and Geospatial**

GIQ, AI-powered multi-intelligence platform, integrates geospatial data and ground assets

- Optimized decision making
- Enhanced situational awareness
- Improved operational effectiveness

Example: AI assessment of earthquake damage

1. In pipeline

Overview: Market segments and target customers

Land	IOT/M2M	Government	Maritime	Aero	Solutions

Land

Enterprise
Oil and Gas
Mining
Media
NGOs
Finance

Consumer
Remote workers
Travelers
Unserved individual/community

IOT/M2M

Industrial
Transportation
Energy
Utilities
Mining
Agriculture
Civil Govt.

Government

Defense and Security
Land
Air
Sea

Civil
VVIP
Law enforcement
Govt. Institutions
Disaster prevention agencies

Maritime

Commercial
Merchant ships
Fishery
Offshore
Passenger
(Cruise, ferries, yachts)

Aero

Commercial
Business Jets
General aviation

Solutions

Commercial Government
Wildfire Prevention
Smart Agriculture
Perimeter Intrusion
Logistic
Remote Management
Power Line Protection

Selected Customers

etisalat by e& • ADNOC Offshore • ADNOC Logistics & Services • ALFATTAN • AL MARAKEB Boat Manufacturing Company • AL SEER MARINE • NAVAL GROUP • In-Situ

Government services

Secure satellite solutions for land, sea and air

Coverage

- Global Beam
- GCC Beam
- L-Band Coverage

Services

	Space Services and 3rd party bandwidth
	Equipment leasing
	Operations and maintenance
	Consultancy

Govt. Solutions Architecture

YSS Anchor   Govt. HQs

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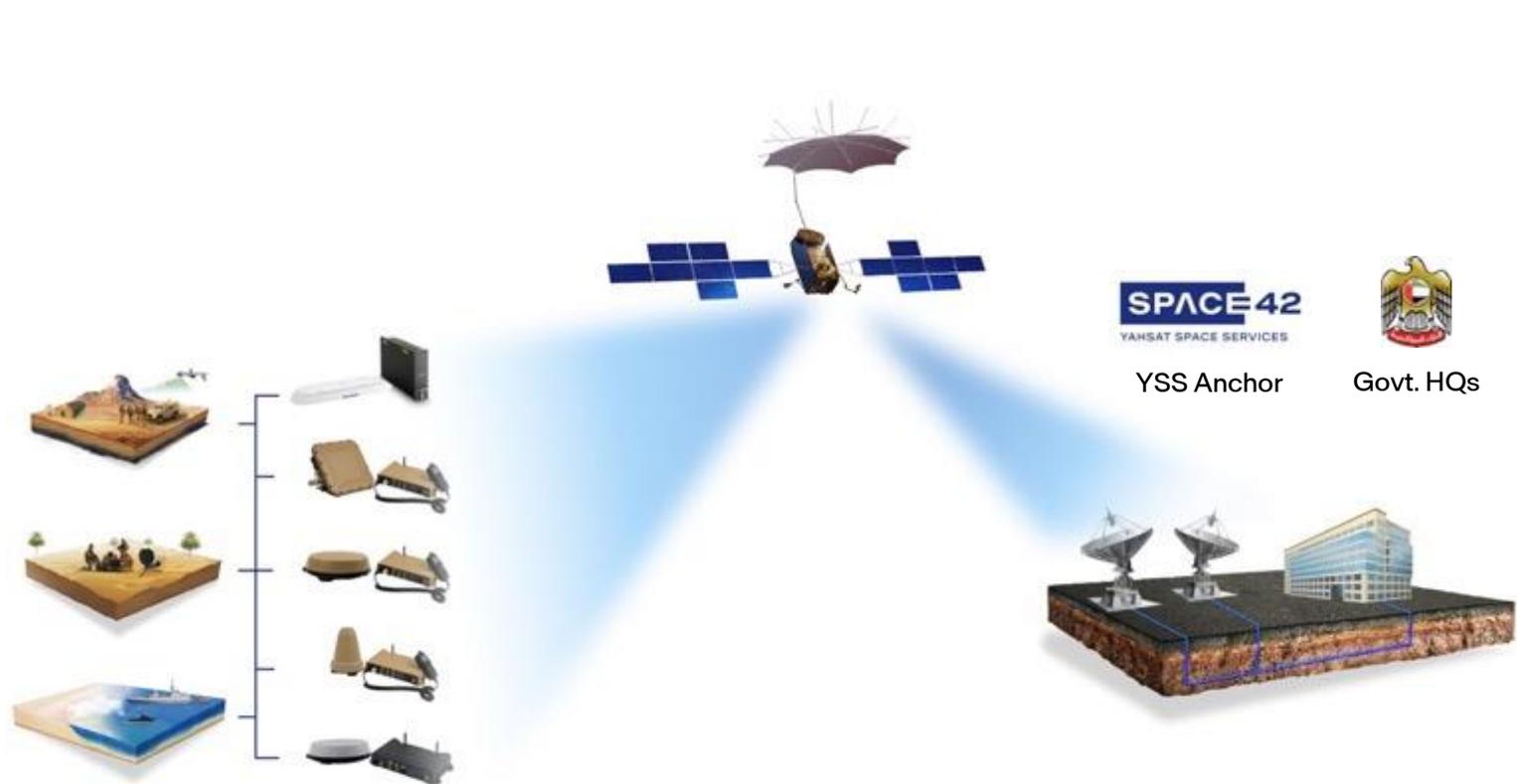
Commercial services 1/2

Mobility solutions - Thuraya

Coverage

⬤ T2 L-Band Coverage ⬤ T4 Extended Coverage

Products

Land voice	Land data	Maritime	Aero	IoT & M2M
Compact handheld terminals	Mobile data connectivity (>1Mbps1)	Connectivity for vessels and offshore users	Connectivity for fixed and rotary wing aircraft	Ubiquitous connected smart applications

Key Highlights

| **+1 million** Terminals sold | **150+** Countries covered by Thuraya satellites | **5 Bn people** Covers more than 2/3rd of the world's population | **No.1** Market leader of voice solutions within coverage | **T4** Next-gen program delivering superior capabilities | **Delivering solutions** on Land, Sea and Air | **402+** roaming agreements in 178 countries |

Commercial services 2/2

Data solutions - YahClick

Coverage

Africa JV*

*Africa JV with Hughes owned 80% by Space Services

🔵 AY2 & 3 Ka-Band　🔵 AY3 Ka-Band　🔵 AY1 C-Band

Services

📍	Community Wi-Fi hotspot
📶	High speed broadband
🖧	Enterprise networks
📡	IP trunking & backhaul

YahClick Architecture

Backhaul

Director End User

Corporate Network

Wi-Fi Hotspot

Gateway

Dedicated IP or MPLS

Internet Other networks (e.g. telecom, corporate)

Tier-1 connection
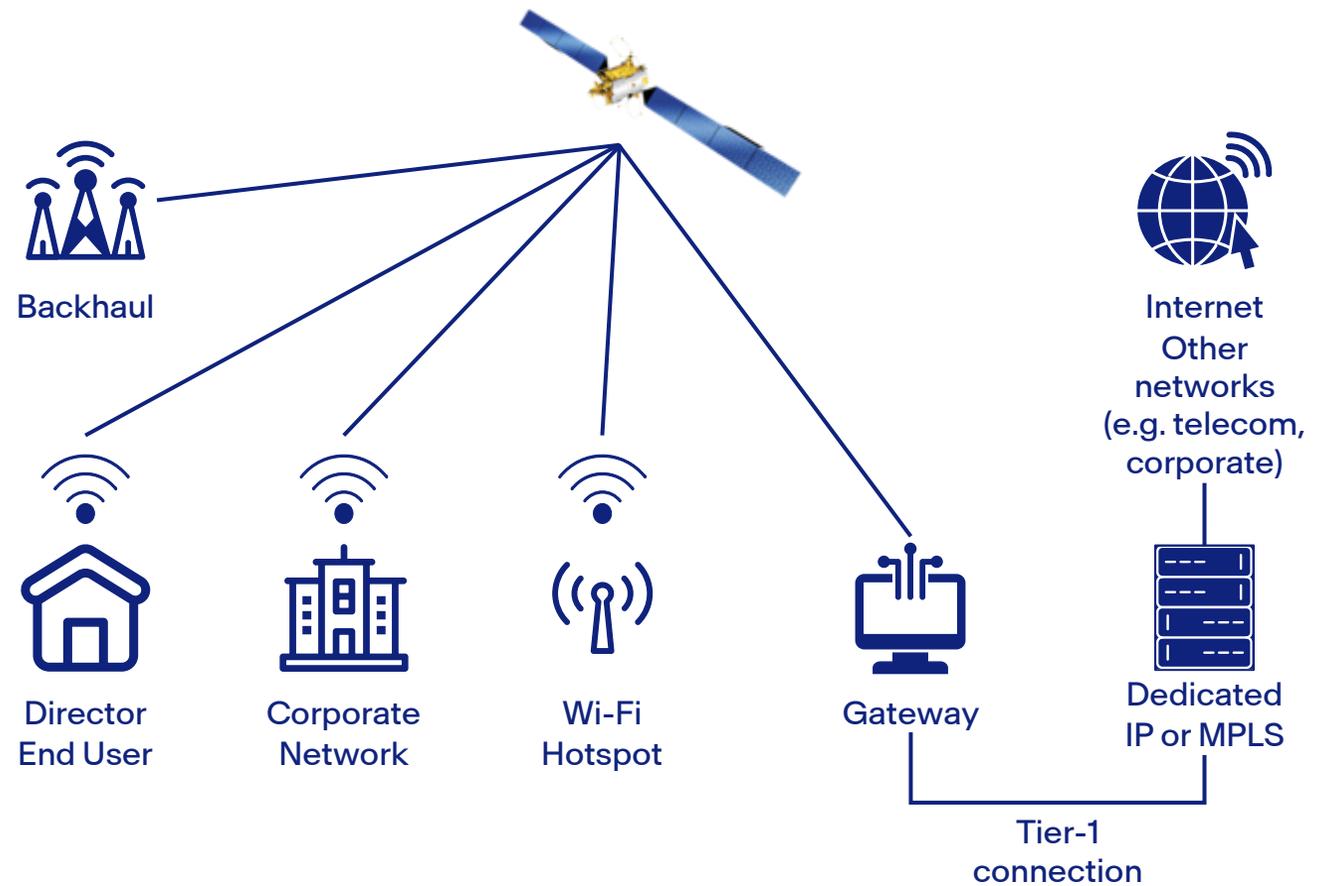
Access SAR images through Space42's Foresight SAR constellation (1/2)

State-of-the-art Foresight Constellation

In August 2024, Space42 launched UAE's first SAR Satellite, Foresight -1, placing the UAE among **top 20 countries** operating SAR satellites

FORESIGHT-1

BAYANAT   yahsat ياه سات

A name that reflects Space42's global vision and commitment to pioneering space exploration and anticipating future challenges to benefit humanity.

Comparative Advantage of the Foresight Constellation:

Resolution: Foresight provides high resolution, matching industry leaders such as Airbus's TerraSAR-X and surpassing many other competitors

Multi-sensor constellation: The constellation will incorporate optical and additional sensing satellites, creating a multi-sensor network to deliver more comprehensive Earth Observation (EO) solutions.

Specification

7	**1200** MHz
# of satellites in constellation	Payload technology
25cm	**Daily**
Spatial resolution	Revisit time
99%	**~150 kg**
Operational uptime	Satellite mass

Access SAR images through Space42's Foresight SAR constellation (2/2)

Comparative advantage	Contributors
High resolution	Advanced onboard sensors
Frequent revisits	Constellation of satellites
Frequent coverage over AOI	Mid-inclination orbits
Absolute Sovereignty	Sovereign ground stations and secure command and control

Use cases

- Disaster management
- Environmental monitoring
- Urban and infra monitoring
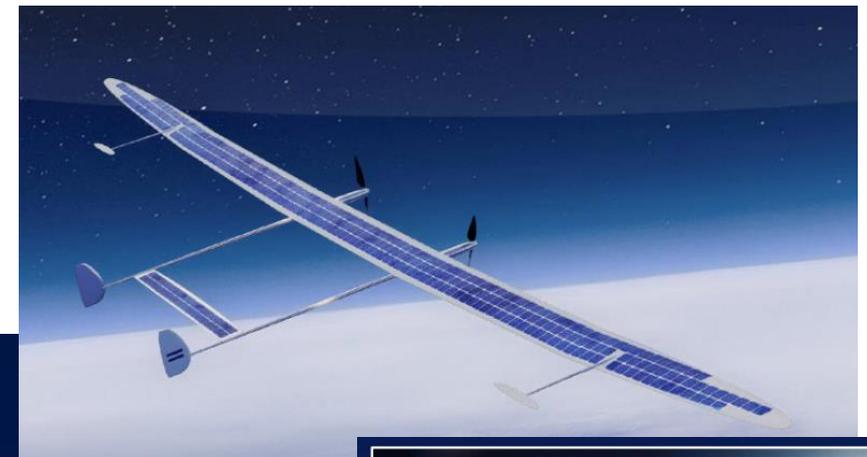- Defense and security
- Energy and natural resources
- Climate and weather studies
- Maritime applications

High Altitude Platform Systems

Services on demand

HAPS BACKGROUND

GEO Satellite Up to 36,000 km	
LEO Satellite Up to 1,200 km	COSMIC SPACE
	EXOSPHERE
	THERMOSPHERE
	MESOSPHERE
HAPS Up to 18 km	STRATOSPHERE
	TROPOSPHERE

- **High-Altitude Platform Stations (HAPS)** are **large, solar-powered, unmanned aerial vehicles designed to operate in the Earth's stratosphere**, above weather patterns and conventional air traffic

- HAPS serve as a bridge between conventional UAVs and traditional satellites, offering **long-duration, continuous flight capabilities** without the need for complex launch operations
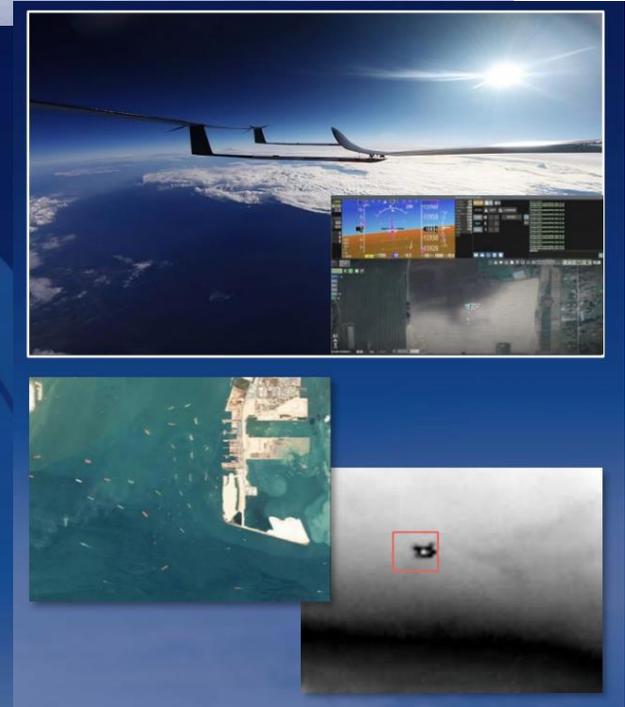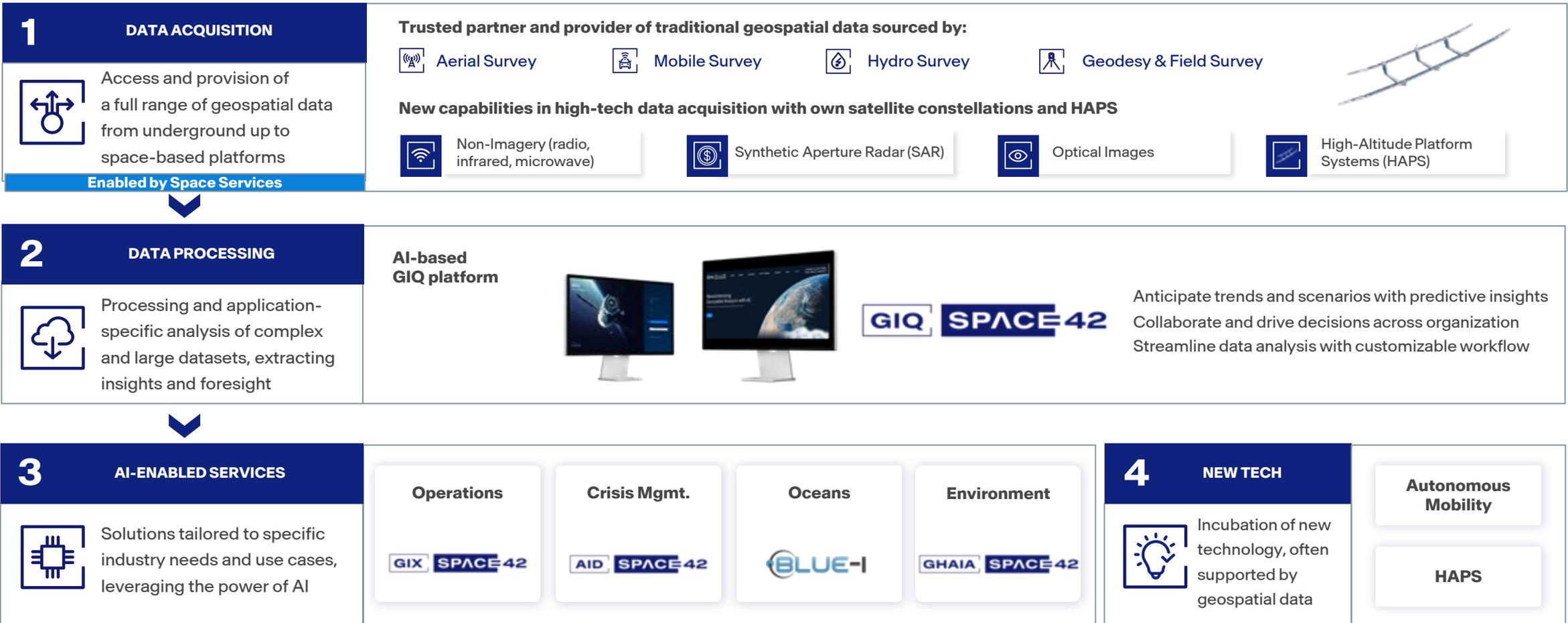
Smart Solutions generates actionable, meaningful insights

1 DATA ACQUISITION

Access and provision of a full range of geospatial data from underground up to space-based platforms

Enabled by Space Services

Trusted partner and provider of traditional geospatial data sourced by:

- Aerial Survey
- Mobile Survey
- Hydro Survey
- Geodesy & Field Survey

New capabilities in high-tech data acquisition with own satellite constellations and HAPS

- Non-Imagery (radio, infrared, microwave)
- Synthetic Aperture Radar (SAR)
- Optical Images
- High-Altitude Platform Systems (HAPS)

2 DATA PROCESSING

Processing and application-specific analysis of complex and large datasets, extracting insights and foresight

AI-based GIQ platform

GIQ SPACE42

Anticipate trends and scenarios with predictive insights

Collaborate and drive decisions across organization

Streamline data analysis with customizable workflow

3 AI-ENABLED SERVICES

Solutions tailored to specific industry needs and use cases, leveraging the power of AI

Operations	Crisis Mgmt.	Oceans	Environment
GIX SPACE42	AID SPACE42	BLUE-I	GHAIA SPACE42

4 NEW TECH

Incubation of new technology, often supported by geospatial data
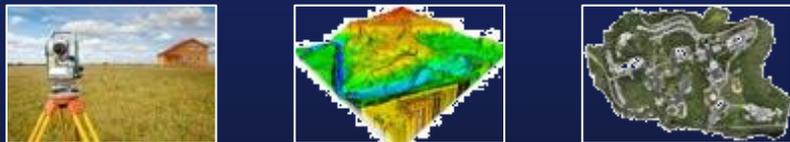
- Autonomous Mobility
- HAPS

Data acquisition

Strong foundation, built on unique access to differentiating data sources and assets

1 TRUSTED PARTNER FOR TRADITIONAL GEOSPATIAL DATA SOURCES

Building on its genesis as part of the Military Surveying Department (MSD), BSS is a trusted partner with exclusive access to national geospatial data and information amounting to **~1 Petabyte data volume**

- Aerial Survey
- Mobile Survey
- Hydro Survey
- Topographic
- Geodesy & field survey
- Bathymetric LIDAR
- Photogrammetry

2 NEW CAPABILITIES IN HIGH-TECH DATA ACQUISITION

Riding on the mega-trend towards space-based data, BSS adopted a high-tech data acquisition strategy to further diversify its data sources and achieve rapid growth – expected to add **1 Petabyte data** each year with the launch of its own satellite constellations

Own satellite constellations for Earth Observation (EO) program

- Non-Imagery: radio, infrared, microwave
- SAR
- Optical Images
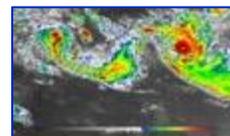
High-Altitude Platform Satellite (HAPS)

Unmanned aircraft which provides speed, accuracy and cost benefits compared to aircrafts and satellites in data acquisition

Data processing

AI-based GIQ platform is designed to revolutionize how we interact with geospatial data

KEY FEATURES

- Seamless ingestion and analysis of multiple data formats
- Immersive data exploration with the interactive 3D globe
- Precise annotation and segmentation for raster files
- Streamlined collaboration with customizable workspaces
- Access high-quality satellite imagery from leading providers
- Visualize insights and generate comprehensive reports

BENEFITS

- Informed decisions through powerful geospatial analysis
- Anticipate trends and future scenarios with predictive insights
- Collaborate, share and drive decisions across organization
- Streamline data analysis with customizable workflow

STRATEGY & FUTURE PLAN

- Develop AI solutions to **automate traditionally labor-intensive processes** related to data acquisition and processing activities
- Enhance geospatial platform for commercial clients to serve both verticals as well as **more sophisticated clients** who are able to conduct geospatial analysis in-house
- Improve the "marketplace" nature of the platform to **facilitate knowledge sharing and solution development**
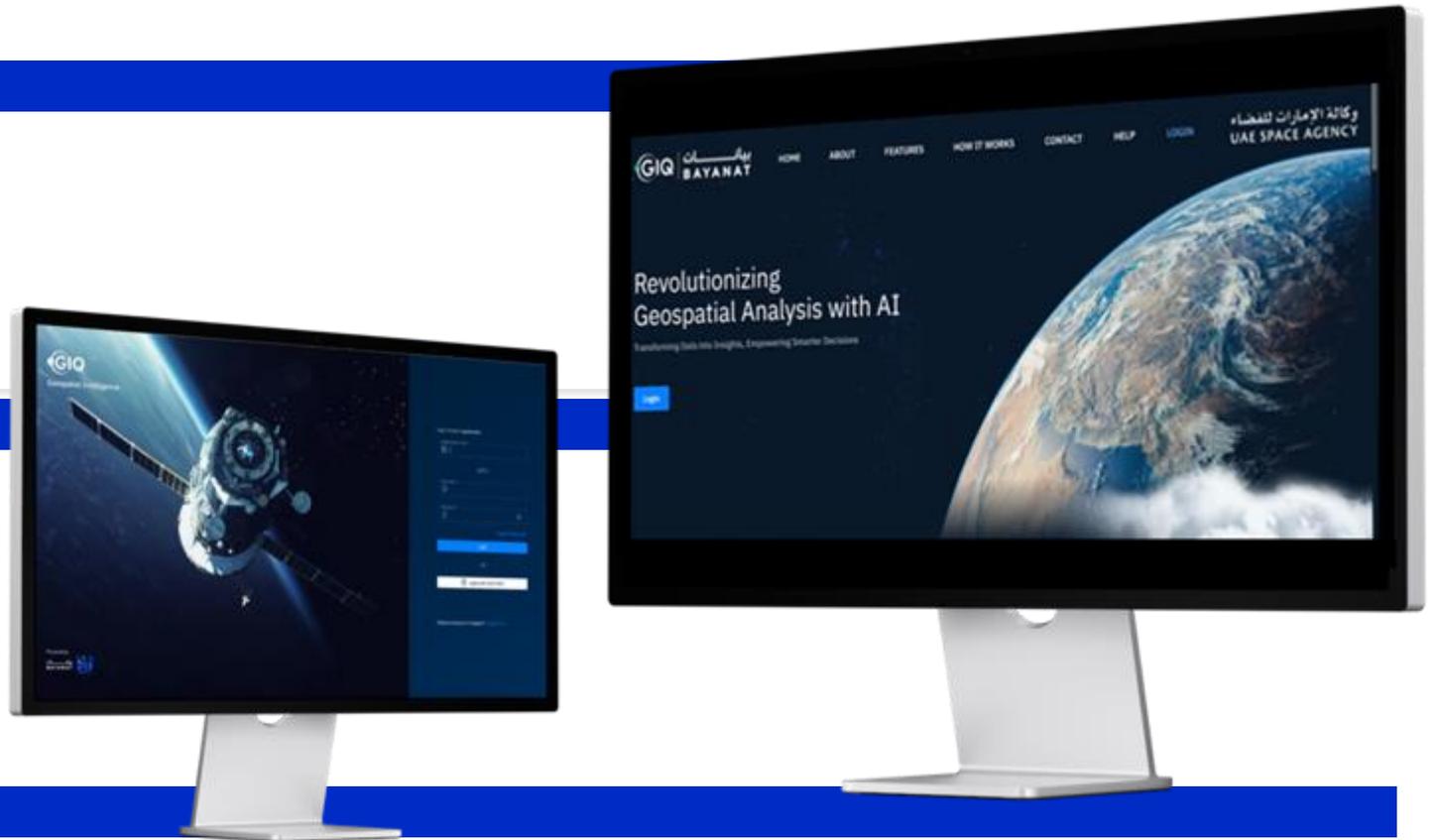
AI-enabled services

Applications on GIQ can be spun off as stand-alone solutions to critical verticals

GIQ SPACE42

Platform of platforms
Focused on generic geospatial capabilities, with a heavy emphasis on remote sensing analysis and integration with all sorts of **Geo-referenced data,** connected directly to the **broader marketplace and the data acquisition** ecosystem

GIX SPACE42	**AID SPACE42**	**BLUE-I**	**GHAIA SPACE42**
OPERATIONS	**CRISIS**	**OCEANS**	**ENVIRONMENT**
Dedicated to operational excellence and multi-sourced remote sensing analytics, currently operating with UAE Space Agency (PPP) and MoD. At maturity, will provide cutting-edge capabilities to anticipate future events and support decision making	Global platform to establish a unified gateway for international crisis response. At maturity, AID should help mitigate crises before they happen, and coordinate effective and efficient global response during and after the events	National Portal for Marine Spatial Data Infrasturcture (MSDI), centralizing multi-sourced bathymetric data and marine bio-systems insights. At maturity, BLUE-I should empower its users to realize a greater potential from the blue economy	GHAIA is a comprehensive environment platform powered by AI and focused on interconnecting multiple environmental systems powered by AI

New technologies

Pioneering autonomous mobility in the UAE

Autonomous Mobility accomplishments led to prioritized interest in Abu Dhabi	H.H. Sheikh Khaled bin Mohamed bin Zayed Al Nahyan, issued a resolution to establish the Smart and Autonomous Systems Council (SASC)	Abu Dhabi ATRC announces ventures in Smart Autonomous Mobility	UAE Government issues federal decree-law on traffic regulation

1 — April 2024
First DriftX event, sponsored by Smart Solutions

2 — November 2023
First MoD deployment

3 — August 2023
First time moving the safety officer to the passenger seat on public road

4 — April 2023
Weride obtains first UAE federal autonomous driving regulation building on the success of TXAI

5 — November 2022
Expanded fleet types and scale

6 — December 2021
EXPO exhibition during Cabinet meeting

7 — November 2021
First Robotaxi fleet launched with USD 5.6M internal investment

Asset

20x Charging Service	**8x** Robo Taxi Fleet	**4x** Robo Minibuses	**3x** ART Fleet

Highlights

0 Accident since November 2021	**~400,000 km** Total autonomous mileage	**~18,000** Total number of trips	**120** Media entities featured our mobility solutions
1st Autonomous and public transportation operation center in the region on Yas Island	**1st** AVs operating in mixed conditions on public roads with commercial vehicles globally	**1st** Cabinet approved self-driving license	**1st** Autonomous operation on public road in the region

What is Equatys

Neutral, collaborative, global and sovereign-friendly
TowerCo in Space

Business Model
Neutral wholesale "Space TowerCo" – shared multi-tenant infrastructure

Spectrum Strategy
First global L- & S-band system, leveraging harmonized & protected rights in 180+ markets

Standards & Devices
Built on 3GPP NTN standards – works with standard 5G smartphones & IoT modules

Credibility & Track Record
Backed by MSS leaders with extensive track record and global regulatory/security expertise

Partnership Approach
Complementary to terrestrial networks; partner-centric with MNOs & local industries

EQUATYS

SPACE42 + **Viasat**

Phased deployment approach with commercial roll-out targeted within 3 years

Phase 1 Phase 2

Equatys: Catalyst for value and growth at Space42

GEO-like returns, 160+ market L-band value enhancer and potential to surpass current Space42 business

Smart Capital, Scalable Returns

Accretive investment in Equatys as co-founder, with capital commitment comparable to GEO-like mission investment and return i.e., double digit IRR

Spectrum Synergy, Global Reach

Unprecedented value enhancer of Space42 L-band spectrum, with existing access to 160+ markets

■ Markets served by Space42 L-band

Mobility Growth Multiplier

Exceptional business accelerator to Space42 as mobility services provider with TAM growing by three orders of magnitude in three years, with target revenue surpassing current Space42 business