



Company Presentation

November 2018

Sky and Space Global at a glance

Sky and Space Global (ASX:SAS) is a **disruptive NewSpace** company set to provide **affordable communications** via innovative **nano-satellites**



Targeting the telecom market (B2B) through use of sophisticated nano-satellite design and proprietary software to enable significantly cheaper narrow-band communication services



The solution is fully developed and three satellites have already been launched into orbit as a proof of concept for the management software & network



Sky and Space is the first company in the world to build & operate a commercial telecom network via nano-satellites



Initial focus on the equatorial/tropical region – operational coverage in 2019, full coverage in 2020



First contracts signed, with US\$40-65 million in revenue in place, and a strong pipeline for 2019



Led by an experienced team comprised of satcom and telecom industry leaders



Award winning technology – Global Excellence (2017), People's NewSpace Company (2016 & 2017), Frost & Sullivan Innovation Award (2016), Frost & Sullivan Global Nano- satellites Company of the Year



Investment thesis: Reliable narrow-band connectivity

SAS is a sophisticated nano-satellite technology company set to revolutionise the satellite communications industry with its price disruptive first mover technology

Creating 'new space' technology	New communications infrastructure based on space proven , nano-satellites technology	Large barriers to entry	IP developed for a complex and sophisticated software system – combining unique expertise in space technology and network management
Provides low cost & affordable communications infrastructure	Up to 80% savings vs conventional satellites via a network of low cost nano-satellites with reduced capital expenditure, launch and operating costs	First Mover	Achieved a number of firsts for nano-sats, including first: intersatellite communication, data transfer, voice call, financial transaction, and cybersecurity integration
Enables technology upgrading capabilities	Constant upgrades built into the business model with short turn around timeframes	Competitive advantage	Significantly cheaper platform for voice, data and instant messaging services for the telecommunications and international transport industries where service is currently unavailable
Large and growing addressable market	Addressable market size estimated to be \$5.7 billion in 2020, rising to \$6.9 billion by 2024	On schedule for launch of first batch in Mid 2019	Very experienced SAS team working on schedule alongside partner, Gomspace, to complete construction of nano-sats for launch with Virgin Orbit in Mid 2019 .



The Problem



Existing tropical region connectivity via conventional satellites is:

1. Expensive
2. Inaccessible to everyday users



Demand for connectivity is continuously growing and not met by supply



Pricing of narrow-band coverage across the tropical region denies access to potential customers

Although reliable communication has become a commodity it is still inaccessible and unaffordable for most of the world



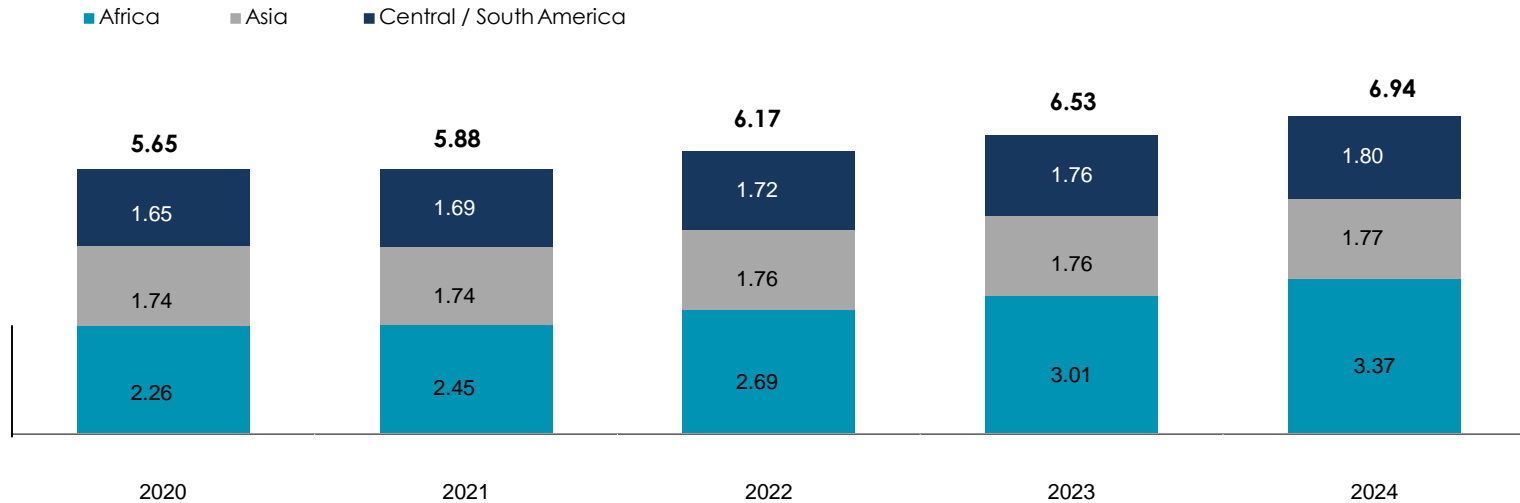
Today...

Over 3 billion people across the equatorial / tropical region
have no access to reliable, affordable communications



Large and growing global addressable market

Total addressable market by geography (\$ Billion)



Based on the geographies that SAS is targeting, taking into account a portion of the rural population with access to electricity and segments of the labor force that are in need of communication infrastructure

Sky and Space Global's solution

Reliable and affordable satellite communication provided by a constellation of routers on nano-satellites

SAS has developed a disruptive solution based on routers on nano-satellites coupled with unique & proprietary management software enabling autonomous deployment, orbit control, and communication between satellites

Through the combination of software and hardware, Sky and Space is deploying a constellation of ~200 nano-satellites to provide narrowband communications across the equatorial / tropical region belt – and eventually the world

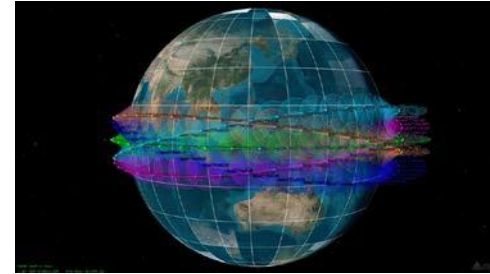
Services are based on Data and include Voice, IM, Data Transfer, M2M/IoT, and Asset Tracking



The Solution:

The Pearls Constellation and Orbit

- ~200 satellites covering 15-18 degrees north and south of the equator
- Altitude of 700-750 km, inclination 0-13 degrees
- Orbit in 5 distinct planes at different altitudes
- ~40 nano-sats in each plane with a distance of ~1000km between each
- Each satellite functions as both a node and a router which is the building block for an efficient mesh network
- Utilizes traditional cellular network management algorithms combined with Inter Satellite Links and ground stations to create a complete network in space
- Check Point (NASDAQ:CHKP) encryption hardware will be integrated into SAS network setting a new standard of secure narrowband communications



Check Point[®]
SOFTWARE TECHNOLOGIES LTD.



GomSpace is manufacturing the SAS constellation

- Construction partner for the “3 Diamonds”, GomSpace (GOMX.ST), has been selected to construct and deliver the full SAS constellation
- GomSpace has participated in more than 50 satellite missions
- GomSpace delivered the first nano-satellites to the European Space Agency (ESA)
- Gomspace strengths include systems integration, nanosatellite subsystems and advanced miniaturised radio technology
- Gomspace's international team consists of approximately 220 employees and serves customers in more than 50 countries within the commercial, academic, science and defence sectors
- Gomspace has recently invested in a new production facility which has the capacity to produce one satellite a day
- Cost and delivery of ~200 nano-satellites spread over 4 years (commenced in 2017)
- Critical Design Review (CDR) milestone completed successfully in October 2018, on track for launch of first batch in Mid 2019
- Satellites will be manufactured in batches and according to ESA standards



The Pearl Nano-Satellite

An Innovative New Satellite

- Designed for Low-Earth Orbit
- Operational life of 5-7 years

Powerful Communications Payload

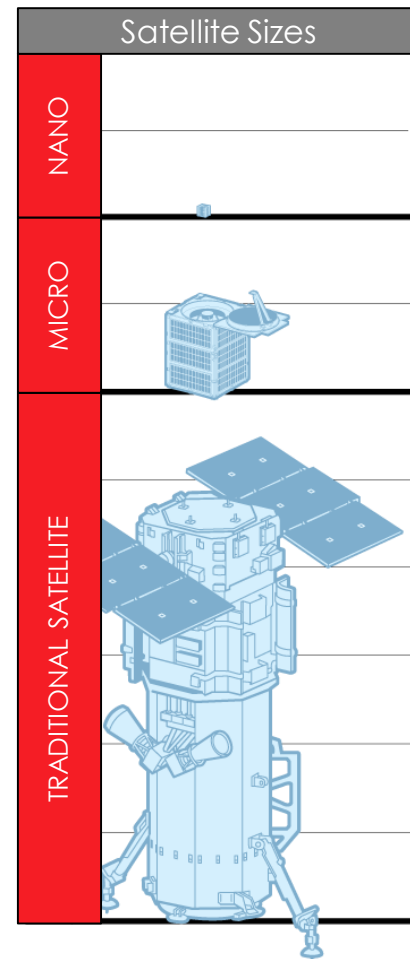
- Total power of 150 watts, about 90 watts dedicated to the payload
- Multi-channel space-to-ground Customer Satellite Link (CSL) to accommodate simultaneous users
- Inter Satellite Link (ISL) enables communication between satellites across the constellation

Satellite Bus

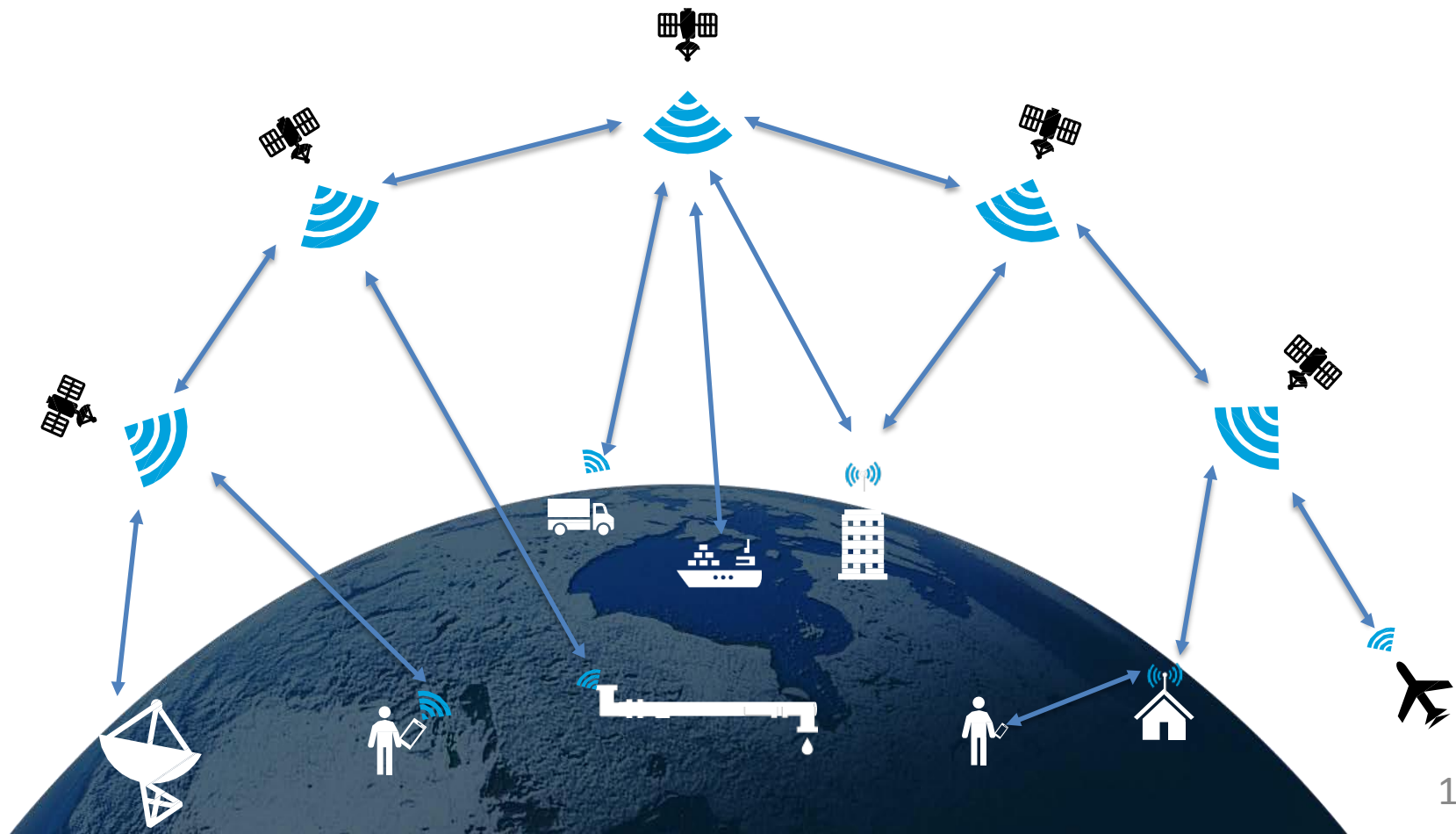
- “8UL” CubeSat form-factor (4U x 2U x 1U)
- Weighs up to 12 kg (incl. payload)
- Solar powered with butane fuel propulsion system
- Autonomous operations & fault protection enabling automatic correction of nano-sat course within its prescribed orbit

Multiple Redundancies

- Design with One Fault Tolerance (i.e. hardware switchover, bit flipping, software reset, latches, etc..)
- Network can lose up to 5% of satellites without losing core capabilities



Pearls constellation in action



On track for launch of first batch of constellation in Mid 2019

- 3 Diamonds piggy-backed on PSLV from India (polar orbit)
- Future launches will require dedicated launchers as at least 15-30 nanosatellites will be sent at a time
- 4 dedicated launches (with an option to procure 2 more) have been secured with Virgin Orbit
 - Advanced technical work has begun, with the first launch scheduled for Mid 2019
 - The next three launches are scheduled for each quarter following the first launch
- MOU signed for a launch service with China Great Wall Industries Corporation
- No commitment has been made to use any one supplier for all of the launches, so decisions will be made according to price, launch capacity, and the launcher's performance
- Currently in discussions with other potential launch services providers for securing additional launches
- Launch, In-Orbit operations and revenues will be fully insured with zero financial exposure for the company



Proven leadership team

Michael Malone Non-Executive Chairman



A highly regarded board member with over 25 years' experience in the telco and technology industries, Mr Malone has previously held multiple Director and Chairman positions at both listed and unlisted companies. He currently holds Board roles at multiple large companies including SpeedCast (ASX:SDA), Superloop (ASX: SLC), Seven West Media (ASX: SWM) and nbn co.

In 1993, Mr Malone founded iiNet, Western Australia's first internet service provider and grew the company to service over one million households across Australia, returning revenues and a market capitalisation in excess of \$1 billion, prior to being acquired by TPG in 2015 for \$1.56 billion. He was the founding Chairman of .auDA, the industry body for all .au domain names; Austism West, a charity supporting families of children on the spectrum; and Diamond Cyber, a company established to provide military grade information security to the private sector.



Proven leadership team

Meir Moalem CEO & Managing Director



A jet fighter pilot, Lt. Col (Res.) of the IAF, has over 20 years of experience in management, R&D and operation of state-of-the-art projects in Space Systems and Unmanned Aerial Systems, among those acting as a deputy sq. commander and leading the MEIDEX experiment on Space Shuttle Columbia (STS-107) as the project manager for Israel's first astronaut flight, managing Israel's satellite projects (such as Ofeq, Tecsar) and more.

Meir has a B.Sc. in Physics and Computer Sciences (with honours) and an M.A. from the Diplomacy and National Security executive program (with honours). Currently he is working on his PhD in national security and space programs in Tel Aviv University, Israel. Meir has also received the Israel National Defence award in 2009.



Proven leadership team

Meidad Pariente Chief Technology Officer



With more than 22 years of satellite and aerospace industry experience, Meidad Pariente is a founder of Sky and Space Global and its Chief Technology Officer. Meidad started his space career in 1995 as AMOS-1 satellite operator, later was the Deputy Mission Manager of AMOS-2, Chief systems engineer of AMOS-3, Special engineering advisor for AMOS-5, and chief architect for AMOS-6. Meidad was also the chief systems engineer and led a team of Israeli engineers and scientists designing the VENUS project, an Israeli-French hyperspectral satellite.

He's is a leading nanosatellite expert, having led projects in Israel, Europe and the USA. In 2014 Meidad and Maya (SAS CCO) led the "Duchifat-1" project, the first Israeli nanosatellite which was launched successfully in June 2014 as part of a high-school project. The nano-satellite is still fully operational. Meidad was also chief engineer for "The three diamonds", the world smallest communication satellites, launched in June 23rd, 2017, achieving eight "world first" including for the first voice calls and inter-satellite links on nanosatellites.

Since 2010 Meidad works as an advisor to space underwriters and brokers, following and educating the insurance market regarding new space and nano-satellites. Recently Meidad was invited to be a keynote speaker for the annual Insurance Institution of London (IIL) Meeting, held at Lloyds old library

Meidad holds a B.Sc in Physics from Tel Aviv University and a M.E. in Systems Engineering from the Technion Aerospace faculty, and is considered a 'black sheep' in a family of artists.

Proven leadership team

Yonatan Shrama VP Business Development

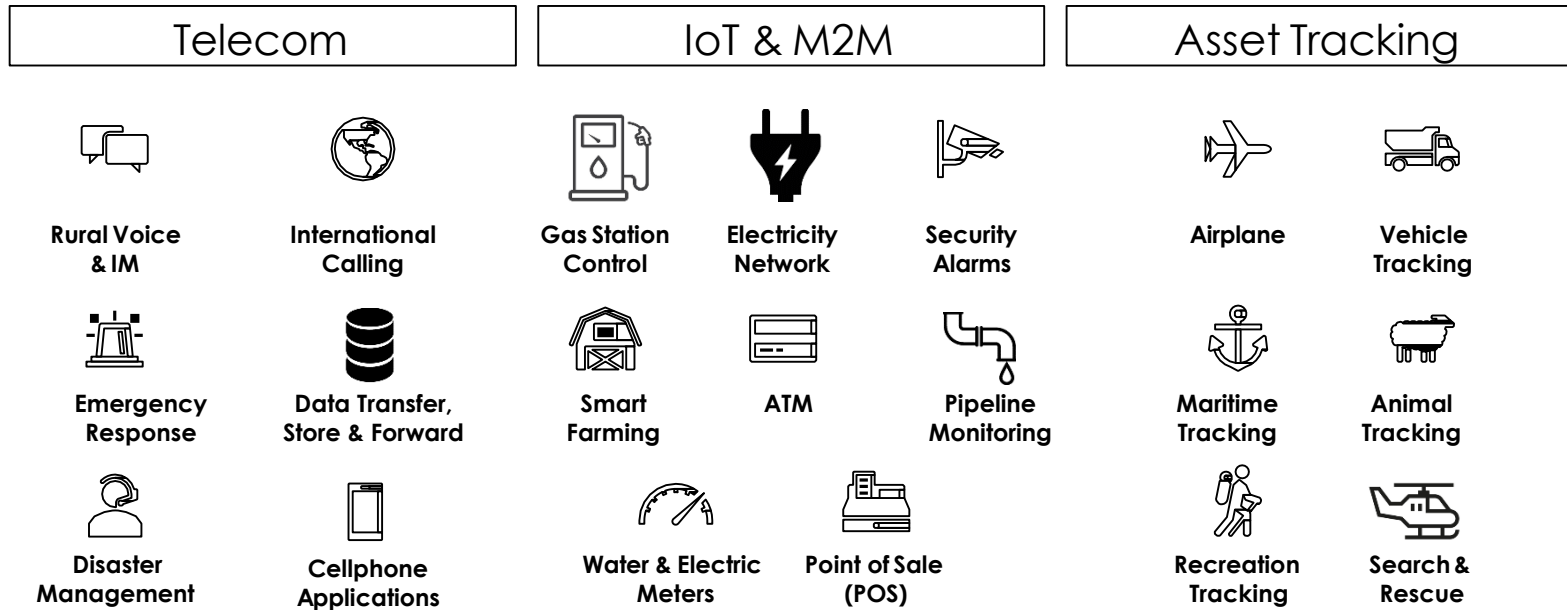


Yonatan has over 15 years of experience in business development and entrepreneurship in automotive technology systems, medical equipment and high technology security equipment. Yonatan has extensive experience in managing teams and processes. Yonatan is currently the chairman of Enigmo, a Cyber company, and VP Bizdev at SPACECIALIST



SAS services & use cases

SAS can provide any type of narrow-band connectivity service



Go-to-market strategy

- SAS is selling narrow-band connectivity to a variety of companies, for example;
 - Service Resellers (B2B2C) – selling connectivity to telecom providers which is then re-sold to their own customers
 - Service integrators (B2B) – selling connectivity to other enterprises which is then integrated into their own offering
 - Direct (B2B) – selling connectivity services direct to corporates
- Rollout of services is staged as the number of nano-satellites increases;
 - Stage 1- after the launch of the first batch M2M/IOT and asset tracking services will be provided
 - Stage 2- after the launch of the second batch messaging services will be provided
 - Stage 3- after the full constellation is launched we will provide real time 24/7 voice, messaging, asset tracking, data and M2M/IOT services



Nano-satellite industry comparables – other products

SAS is focused on providing communication services across the equatorial belt, through M2M, Voice, Data and Messaging services and has achieved a number of world firsts in these areas using nano-satellites. However, it is not the first nano-satellite business and other companies have built multi-million dollar companies by using nano-satellites for the provision of other services, such as earth observation imaging (Planet Labs) or Maritime tracking and bathymetry (Spire Global).



- ❖ **Planet Labs**, which was founded in 2010 as Cosmogia, is an American private Earth imaging company
- ❖ The company designs and manufactures Triple-CubeSat miniature satellites constellation which will provide a complete image of Earth once per day relevant to climate monitoring, crop yield prediction, urban planning and disaster response
- ❖ Planet Labs has about 180 nano-satellites launched into orbit
- ❖ **Market valuation:** \$ 1.1 Billion*
- ❖ **Selected active investors:** AME Cloud Ventures, Founders Fund, Frontier Tech Ventures, Lux Capital, Space Angels Network



- ❖ **Spire Global** is an American private company which builds and launches nano-satellites in order to track the movements of ships, to help catch occasional piracy and to provide weather information.
- ❖ It has successfully deployed more than 70 Earth observation CubeSats into low Earth orbit, taking snapshots of the world's oceans with a variety of sensors to provide a complete picture of maritime shipping for its customers
- ❖ **Market valuation:** \$ 875 Millions**
- ❖ **Selected active investors:** The Luxembourg Future Fund, Promus Ventures, RRE Ventures, Empiricus Capital, Lemnos VC, Jump Capital, Bessemer Venture Partners

* <https://www.cnbc.com/2017/05/23/10-start-ups-that-reached-1-billion-in-record-time.html>

** <https://www.funderbeam.com/startups/spire-global-vs-teleport>



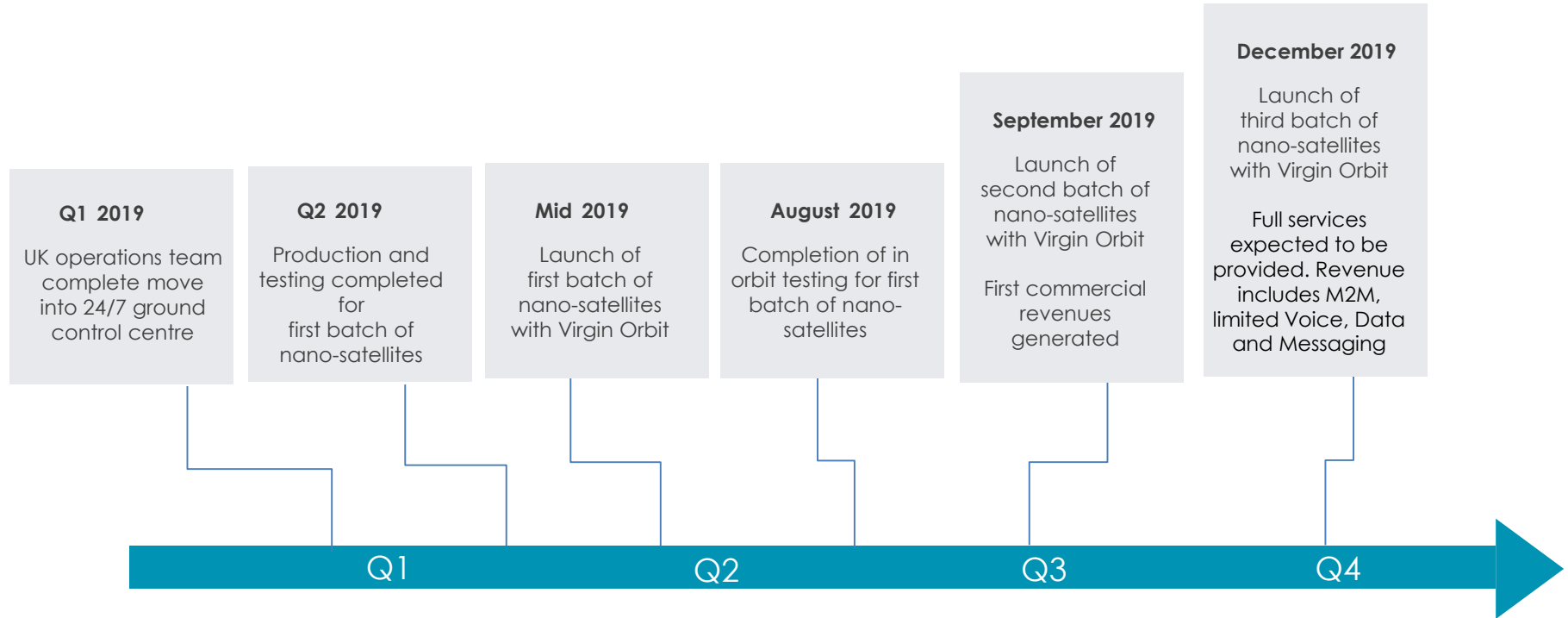
Commercial contracts for US\$40-65m already in place, with more coming

User	Category	Current status of agreement
Beeptool	Corporate - Africa	Binding agreement of US\$30m
Sat-Space Africa	Reseller - Africa	Binding agreement of US\$10-35m
GlobalSat Group	Telco - South America	Operation agreement
Air Traffic Automation Systems	International Organisation	Binding agreement
Universal Cyberlinks	Telco - Ghana	Binding agreement
Thaicom	Telco -Thailand	Binding MoU with financial terms
Foundation Busie Suriname	ISP	Binding MoU with financial terms
Applied Satellite Technology	Telco	Binding MoU with financial terms
Organisation of Eastern Caribbean States	Government	Binding MoU with financial terms
Wefarm	Corporate - Africa	Binding MoU with financial terms
Briskcom Business Technology	Telco - Brazil	Binding MoU with financial terms
Surge Telecom	Telco - Jamaica	Binding MoU with financial terms
Unizen Technologies	Telco - India	Binding MoU with financial terms

Contract example – Company A purchases connectivity services for 4 years from SAS to then resell to their own customers. Company A pays a mix of fixed and variable usage fees for the services provided by SAS, depending on their individual contract.



2019 planned milestones



Note: Launch schedule dependent on Virgin Orbit launch timing



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Appendices



Appendix 1 – Extended team



Management Team



Eran Amosy
CFO

Experienced CFO, investor, and accountant (CPA), with a BA in Economics and Accounting from Bar Ilan University, and an MBA in Financial Management from Tel Aviv University. Currently, Eran serves as CFO of Catalysts Investments and Cukierman & Co. Investment House, and previously held roles at KPMG and Clal Group. Eran also served as the Chairman of the Board at Miba.



David Zusiman
*Programs
Manager*

More than 16 years of experience in the field of satellites and aerospace. Was Program Manager for AMOS-3, AMOS-4, AMOS-7, Effective Space Solutions SpaceDrone and Currently for SAS Pearls Constellation.



Ori Hayuth
General Counsel

Experienced legal & business development professional with a successful track record & passion for transforming ideas into reality, growing businesses & products, closing complex transactions & establishing lucrative partnerships. Previously, Ori consulted funds and startups, was the founder & CEO of a NYC based startup in the smart transportation field, held a legal counsel position at a Nasdaq traded satcom company & practiced commercial and high-tech law at Israel's largest law firms.



Shahar Haroush
COO

Seasoned sales and operations executive, with experience in B2B sales on six continents, as well as supply-chain management for complex and global projects. Shahar specializes in distilling the value in a company offering to deliver the most effective proposition to the market.



Senior Technical Team



Maya Glickman
CSO

Over 14 years of experience in satellite mission analysis and operations expert. Maya was a Senior Satellite Engineer of communications satellite with wide experience in satellite operations. She was part of the AMOS-3 development team, LEOP and IOT missions as well as the AMOS-1 end of life mission team. Maya designed and optimized several large scale constellations for earth observation and communication use, and was involved in the assembly, integration and testing of "Duchifat-1", the first Israeli Nanosatellites.



Itamar Zabari
CEO, SAS Poland

Itamar has a thirteen years of software development and team lead experience as well as nine years of experience in business management. Itamar was a team lead in the IDF, received awards for two management systems designed in the IDF for the IDF and participated and lead the software architecture of various commercial projects such as M911, 12MinutesAthelete, Phact and LIG – Making legal simple



Andrey Piletsky
Spectrum &
Regulatory Affairs

Previously consulted with several new-space startups where he was responsible for creating spectrum acquirement strategies and promoting key regulatory issues on a local and international level. Andrey holds a degree in Electrical Engineering from the Tel-Aviv University. He Started his career at the AMOS spectrum coordination team. From 2009 to 2015 the team managed to successfully coordinate spectrum for the operation AMOS-4, AMOS-5 and AMOS-6 projects.



Senior Technical Team



Sergey Uhaev
*Payload
Manager*

System Engineer & Technical Manager with vast experience in Wireless Communication Systems. Design, development and integration of the RT Embedded Public Safety Cellular devices & systems. Hand-on experience in the PHY/LMAC (Modem), Digital Communication, DSP development. Extensive experience in the technical & matrix management of the development teams. Lead and execute the Complex System Integration activities - 4G Data and VoLTE (Voice over LTE). Experience in Agile methodology and applying it to SW development projects



Roni Kanelbaum
*Chief Systems
Engineer*

Possessing vast experience in system engineering and project management in multidisciplinary system of systems projects. Proven record of successfully developing projects that push the limits of technology. Leading cross-wise programs such as system design reviews, operational processes, safety, reliability, cyber and licensing processes.



Ronen Zilberstein
*Terminal Program
Manager*

With over 18 years of experience in leading multi-disciplinary project/program teams, Ronen brings to SAS team his experience and skills from the leading technology and defense companies in which he worked and served. Including Gilat satellite network, Cobham Wireless, Tadiran Systems, SpacEL and IAI. Ronen started his professional career in an elite technological unit of the intelligence Corps. In his last positions in before joining SAS, Ronen had led various Aerospace and telecommunication projects as a Program Manager/Sr. project manager. Ronen Holds A B.Sc in Electronics Eng. And E-MBA from Tel Aviv University.



Itzik Magen
*Ground Station
Manager, SAS UK*

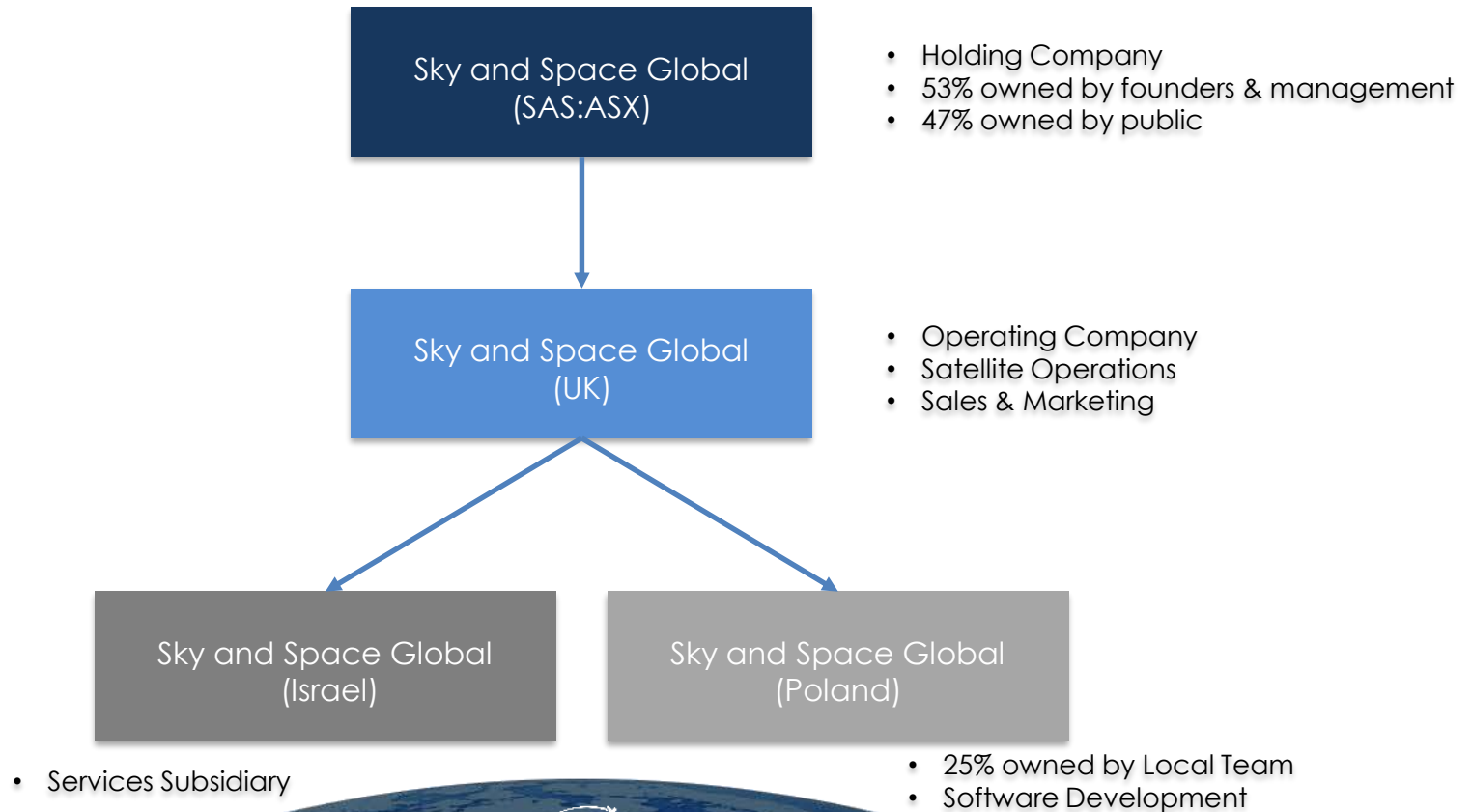
Itzik holds a BSc in Information systems and a practical engineer diploma in mechanical engineering. He has more than 17 years of operations management and project management of mechanical projects, IT projects (with a focus on Datacenters and Local & Wide Area Networks) and pharmaceutical projects (launch of innovative medicines and Quality Assurance)



Appendix 2 – Other information

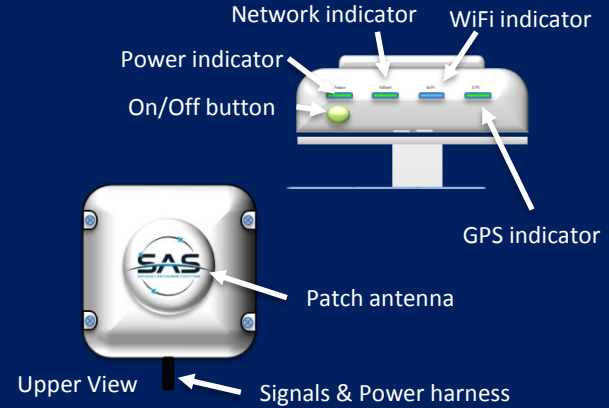
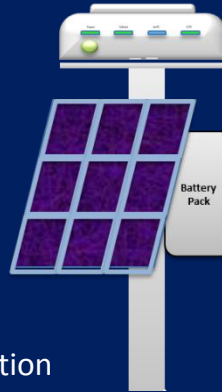


Corporate structure



Small portable plug & play terminal can easily integrate to any sensor and application

Pole installed terminal illustration



Capital structure



Key metrics (22.11.18)

Share Price: 6.8¢

Shares in issue: 1.845bn

Market Cap: AUD \$125m

Key Shareholders	% held
Founders	51.68
Other	48.32

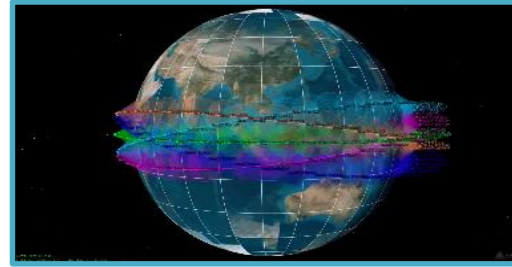


Key SAS links

SAS Full Equatorial Constellation

To view SAS's full operational equatorial constellation planned for 2020, click on the following YouTube link

<https://youtu.be/6i39T2eUGrc>



SAS on the WWW

SAS website <http://skyandspace.global/>

SAS webpage on the ASX <http://www.asx.com.au/asx/share-price-research/company/SAS>

SAS LinkedIn page https://www.linkedin.com/company/sky-and-space-global-uk-ltd?trk=top_nav_home

SAS Facebook page <https://www.facebook.com/skyandspaceglobal/>

The SAS YouTube channel <https://www.youtube.com/channel/UCRU4YCBI68NlqA-jyNfBbTg>

