



# SKY & SPACE GLOBAL

**Unique Investment Opportunity In A Major  
Disruptive Global Telecoms Technology**

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# SSG Overview

- Sky and Space Global (UK) Ltd (**SSG, the Company**) was formed in 2015 by highly credentialed and internationally renowned Israeli satellite and aerospace experts
- SSG is focused on providing communication solutions to the global satellite market through the use of highly sophisticated Nano-Satellite technology
- The global satellite communication market is currently worth +US\$5 billion per annum and growing
- SSG plans to disrupt the market by providing a significantly cheaper platform for voice, data and instant messaging services
- SSG has already achieved proof of capability through:
  - The founders participation in the successful launch and operations of one Nano-Satellite (currently in orbit for the past 18 months)
  - SSG founder's roles in charge of design, assembly, integration and testing of the first Israeli Nano-Satellite, on behalf of Herzliya Science Center
- SSG is embarking on a commercial pilot phase through the launch of 2-3 satellites to form an initial network

# SSG Business Model

- SSG's strategy is to provide global, low orbit communication infrastructure and services via SSG's own Nano-Satellite (NS) constellation
- The key component is reduced capital expenditure, launch and operating costs in developing the constellation
  - = Significant cost savings for Telcos / Customers
- Ability to develop technology upgrading capabilities in short time frames
- Unique software IP for Nano-Satellites and operating systems that will deploy, maintain orbit control and handle communication code between each of the Nano-Satellites to give a global coverage
- Highly credentialed team in international aerospace industry

# Existing Market - SSG Opportunity

- Global communication via satellites is expensive, hardly accessible to everyday users, and requires dedicated transceivers
- In-system redundancy is limited, due to the very high cost of satellites and ground systems
- The demand for bandwidth is always on the rise, and the industry is always behind with supplying this demand
- Current service pricing denies access to potential customers, not only in 3rd world regions
- There is a multitude of industries which could benefit such as aviation, shipping and remote location enterprises
- **SSG plan to provide affordable voice, data and messaging globally**

# Investment Highlights

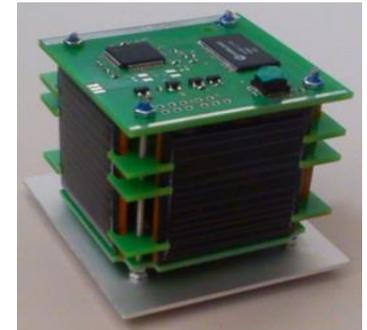
- Disruptive technology play – Nano-Satellites are the new paradigm for the global satellite industry
- Proven market interest in sector – SkyBox bought by Google for US\$500m
- Global Market Potential – Large Telcos and aviation/shipping as initial target markets, to reduce cost of current service and provide service currently unavailable
- Highly Credentialed and Proven Team - Leaders in Global Aerospace Industry
- 2016 SSG Catalysts – Global patent of key IP and secure launch contract
- Near term commercialisation expected within 18 months
- Significant interest already received from parties interested in securing bandwidth from SSG once in operation

# SSG - Disruptive Tech Solution

- A constellation of Nano-Satellites (approximately 200), placed in carefully selected orbits giving equatorial coverage of the Earth, creating a global communication network for voice, data and instant messaging
- The proposed SSG NS platform and strategy is – **“To provide affordable service for anyone, anywhere, anytime”**
- The SSG NS platform aim is to provide communication infrastructure for:
  - premium customers (global corporates, airline/shipping companies); and,
  - retail customers via deals with Global Telcos, especially attractive in remote or underdeveloped areas, with significant rate reductions

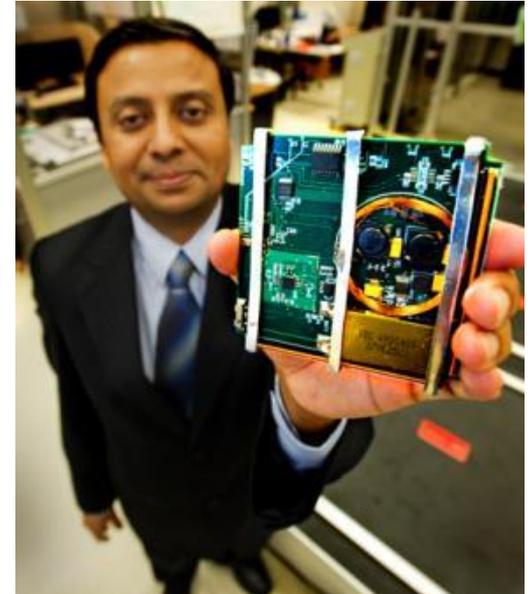
# SSG Competitive Advantage - Opportunity

- SSG founded and led by Israeli Aerospace and Satellite Experts
- SSG team consult to global aerospace industry (including Space insurance)
- Major Disruptive technology to existing providers = reduced retail rates
- **Proof of Capability COMPLETED:** Nano Sat designed, built and launched (Duchifat-1) on behalf of the Herzliya Science Center, still operational 18 months post launch
- Minimal funding required - US\$3m completes pilot
- Short timeline to complete pilot phase – 18 months



# Possible Markets

- Over 4 billion people currently without ANY mobile coverage.
- Existing satellite communication providers
- Mobile satellite customers
- Airlines and FAAs:
  - Passenger and vehicle communications units
- Latin American, Asian and African regions with poor coverage
- Disaster and crisis areas solutions
- Governments



# The Team – Meir Moalem



## CEO - Mr. Meir Moalem

- 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 UAS.
- Deputy sq. commander and led the MEDIEX experiment on Space Shuttle Columbia (STS-107) as the project manager for Israel first astronaut flight and led many of Israel's satellite projects including Ofeq and Techsar.
- Meir is currently the CEO of MultiModis, a Strategic Technology Consulting company for the aerospace market and industry.
- Meir holds a B.Sc. in Physics, M.A. in national security and is in final stage of his PhD. Meir was awarded the Israel National Security Award in 2009.

# The Team - Meidad Pariente



## CTO - Meidad Pariente

- With more than 20 years of satellite and aerospace industry experience, Meidad is a founder of SSG and its Chief Technical Officer.
- Meidad started as AMOS-1 satellite operator, later was the Deputy Mission Manager of AMOS-2, Chief systems engineer of AMOS-3 successfully launched in 2008, and special engineering advisor for AMOS-5, launched in 2011
- Meidad was the chief systems engineer and led a team of Israeli engineers and scientists designing the VENUS project, an Israeli-French hyperspectral satellite.
- Meidad is a leading nanosatellite expert, having led projects in Israel, Europe and the USA. In 2014 Meidad and Maya led the “Duchifat-1” project, the first Israeli nanosatellite which was launched successfully in June 2014 as part of a tertiary project. The Nano-satellite is still fully operational after 18 months.
- Meidad holds a B.Sc in Physics from Tel Aviv University and a M.E. in Systems Engineering from the Technion Aerospace faculty.

# The Team – Maya Glickman



## COO - Maya Glickman (Master STK certified)

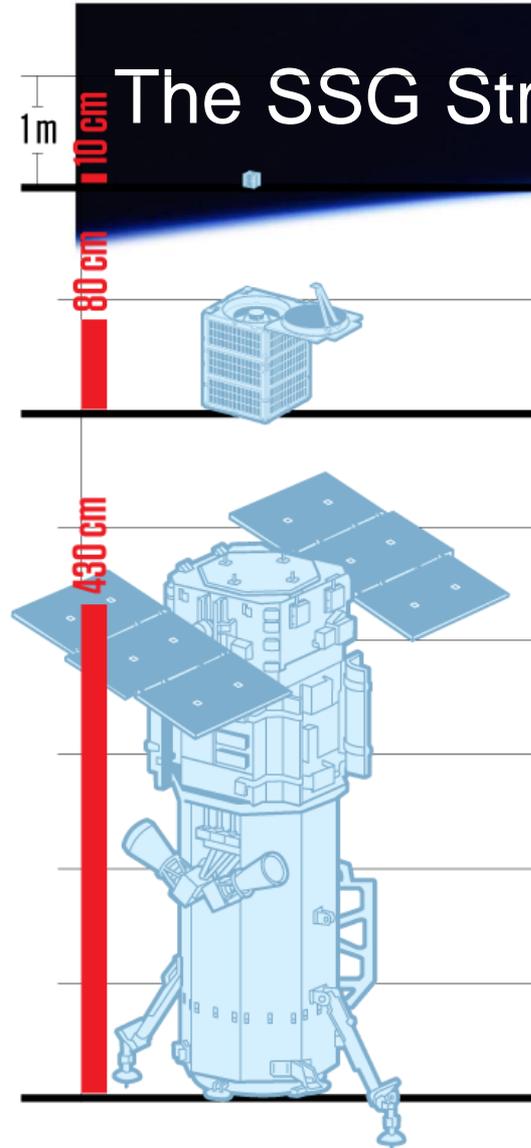
- With more than 14 years of hands-on experience, Maya Glickman is SSG's satellite mission analyst, orbit designer, and satellite operating expert.
- Maya was a Senior Satellite Engineer of communications satellites with Israel Aerospace Industries. Maya was part of the AMOS-3 development team, LEOP and IOT missions as well as the AMOS-1 “hand-over” to Intelsat and led the 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 nanosatellite.
- Maya has a B.Sc. in Aerospace Engineering and M.E in System Engineering, both from the Technion Aerospace faculty, and is also a graduate of the 2003 ISU summer session program in Adelaide, Australia.

# Current Satellite Comms Market Summary

## Global narrow band Satellite market:

- Current market is US\$5bn for of mobile satellite comms devices (excluding TV)
- Major existing players include Inmarsat, Iridium, Thuraya, Globalstar
- Cost to retail customers – currently ~\$1.80-2.50/min
- Demand significantly growing year/year – Asia, Africa, Latin America  
>4bn people are not connected today to the network
- Market forecast to grow +\$10bn by 2021  
>2.5m new subscribers per year

# The SSG Strategy - Solution



- An initial constellation of Nano-Satellites, placed in carefully selected orbits giving equatorial band coverage, and then additional constellations for full global coverage.
- Creating a global communication network for voice, data and instant messaging.
- SSG plans to also offer store-and-forward service at affordable rates
- The proposed SSG Nano-Sat platform will provide affordable service for anyone, anywhere, anytime.

# Timeline to Commercialisation

- **Satellite build and integration (launch ready) within 15 months**
- Ground and space segment software development (comm-network algorithms)
- **Launch and In-Orbit demo with 2-3 Nano-Satellites – Q3 2017:**
  - Point-to-point communication with single Nano-Satellites to base
  - Point-to-point communications with 2 Nano-Satellites (including inter-satellite communications)
  - Data hand-over between 2 Nano-Satellites
  - Store and Forward capability
- **Complete demo and begin initial limited service within 18 months**
- Full first constellation financing scale up and full service development

# First Strategic Market-Equatorial System

- 200 satellites coverage of +/-15 Deg.



# Competition - Future

- OneWeb – Virgin
  - 650 satellites at 1200 km;
  - Partnered with Qualcomm;
  - Estimated >US\$2bn investment
- Space-X – Google
  - Swarm of satellites at ~1000 km;
  - In space high speed communication;
  - Estimated >US\$10bn investment;
- Google – Global net of high altitude balloons (project halted)
- Facebook – Solar Powered Drones
- Time to market for all – minimum 5 years

Spire



PLANET  
LABS



Skybox + Google  
Imaging



# BUR / SSG Transaction Summary

- BUR executed binding agreement to acquire 100% equity of SSG group parent - SSG UK Ltd
- Consideration to acquire SSG UK:
  - US\$100,000 (paid)
  - 3,700m ordinary shares; and
  - 1,500m performance shares – to vest on material project milestones.
- US\$3m cash to fully fund Stage 1 work programs - build 2-3 new Nano-Satellites, launch and fully test operating performance of Nano-Satellites (Pilot phase)
- Loan of US\$500k for initial working cap to immediately fast track work programs - software and hardware engineering (part of US\$3m funding)



**THANK YOU**