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#### **Awards**

2017 Leadership Award of the year in Denmark
2006 Leadership Award for Northern Jutland
2005 Entrepreneur of the Year, Northern Jutland
2005 Initiative price for Northern Jutland
2004 Entrepreneur of the Year, Northern Jutland

## Background

More than 20 years of experience in the defence and security business at executive and non-executive level. Experienced at leading fast growth companies.

## Experience

- CEO, GomSpace Group AB, Chairman from start
- CEO, GateHouse A/S
- Vice President, Head of Radar Division, Terma A/S
- Executive R&D manager, Purup Prepress A/S

#### Education

- MSc at Aalborg University
- MSc at Imperial College
- Sloan Fellowship, Master in Management at London Business School



# | GOMSPACE AT A GLANCE |

## History and Status

- Founded in 2007. Commercial from the start
- Based on research at Aalborg University
- HQ in Aalborg and operations in Sweden, USA, Singapore and Luxembourg
- Approximately 170 employees
- Listed on Nasdaq First North Premier in Stockholm since 16 June 2016 ("GOMX")
- 70% Compound Annual Growth Rate from 2013 to the last four quarters

## **Market Traction**

- Customers in 55 countries
- Participated in more than 40 satellite missions
- Won the biggest nanosatellite order backlog in history





**European Space Agency** 



### **Achievements**

- Pioneered aircraft tracking from space
- Delivered the first nanosatellite to the European Space Agency
- Developed the strongest product portfolio in the industry

## Competitive Advantage

- Proven nanosat capability, flawless "flight heritage"
- World class radio technology capability





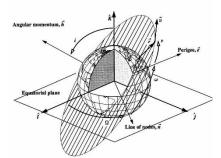
# NANOSATELLITES - FUNDAMENTALS

#### **Nanosatellites**

- Miniaturized satellites
- Based on cell phone technology
- 1-30 kg mass, beer casket size
- >1000 times cheaper than traditional satellites
- Satellite price of SEK 1 mio (120.000 USD) per kg with a volume of 10x10x10 cm "1U"



- Altitude of 500-800 km
- 7.5 km/s, 90 min for one orbit
- Min. 5 orbit planes in different angles to cover the globe with a constellation



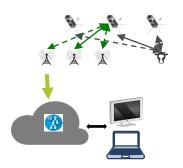
## Launch to space

- Back seat passengers on big rockets
- Or using small dedicated rockets
- Launch from: USA, Russia, China and India
- Launch price: SEK 0.9 mio. (107.000 USD) per 1U
- Increase in supply and thereby low prices



## **Application Areas**

- Internet of Things
- Tracking aircrafts and ships
- Communication solutions
- Remote sensing
- Defense/security solutions





# COMPANY STATEMENTS

## **MISSION**

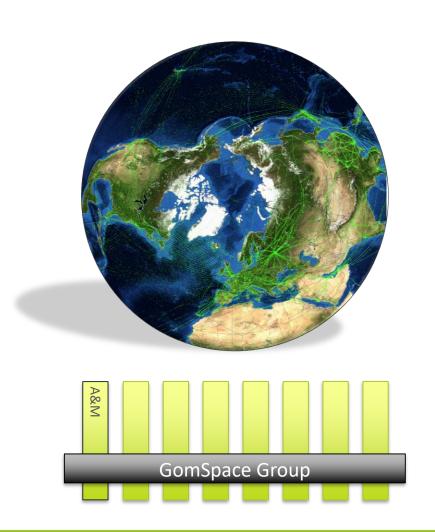
"We help teams across the globe achieve their goals in space"

## **VISION**

"To make nanosatellites the preferred choice for customers who have demands for professional mission critical radio based surveillance and communications solutions"

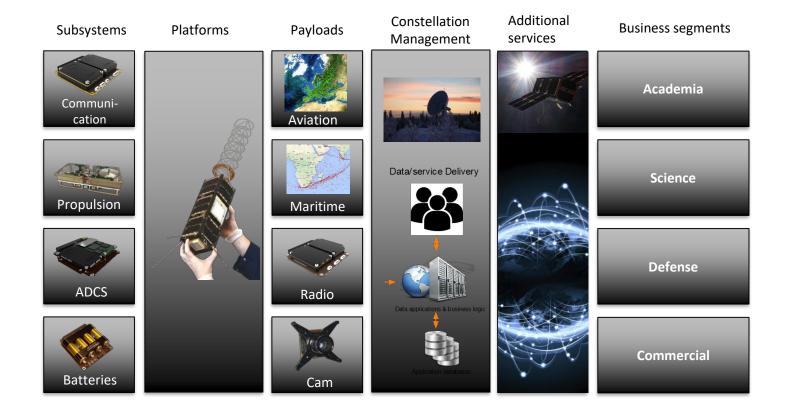
## **CORE STRATEGY**

"Independent horizontal supplier of technology for commercial service providers and government, education and research institutions – and spin-out activities in new untouched domains"





# BUSINESS MODEL |





# DISRUPTING THE CONVENTIONAL SATELLITE BUSINESS |







Mainframe computers were disrupted by personal computers







Telephones were first disrupted by mobile phones which then again were disrupted by PDAs





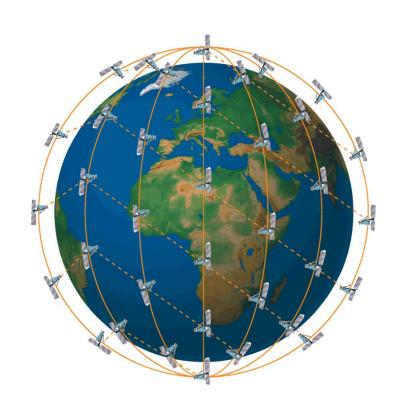


We will disrupt the conventional multi-million satellite market with low cost, highly flexible nanosatellites



# | SATELLITE CONSTELLATIONS |

- To cover the Earth for a global service, the satellites must be launched into a minimum of 5 orbits, each requiring a dedicated launch vehicle
- For simple applications, 80 satellites can provide global coverage
- For demanding applications, such as providing high bandwidth communication, up to 3,000 satellites may be required for global coverage
- The equatorial region and the polar areas are special cases where coverage can be provided with a few satellites
- Satellite constellations must be replaced every 5 years in orbit – I.e. 20% of all launched satellites must be renewed every year





# | CUSTOMER CASES |

Sky and Space Global Ltd.	AISTECH	Aerial & Maritime Ltd.	
In February 2017, GomSpace was contracted to deliver the full equatorial constellation. Order is valued at EUR 48-70 million	In September 2017, GomSpace and AISTECH signed a binding framework delivery agreement for supply of 100 nanosatellite platforms. Order is valued at up to EUR 12.5 million	In December 2016, GomSpace and Aerial & Maritime Ltd. entered into a turn-key delivery contract for a constellation of satellites into a low-inclination Equatorial orbit. The contract has a value of approximately USD 10.0 million	
<b>Sky and Space Global Ltd</b> . is a UK-based company with a parent company listed in Australia	<b>AISTECH</b> is a Spanish company with a subsidiary in Luxembourg	<b>Aerial &amp; Maritime Ltd.</b> is an associated company of GomSpace	
They pursue a business plan to operate an equatorial constellation of <b>hundreds</b> of satellites before 2020	The company will deploy the full constellation from 2018 to 2022	The company is to own and operate a constellation of 8 nanosatellites to be launched into equatorial orbit. The plan is to make a global constellation with 80 to 100 satellites	
Will <b>provide</b> IoT, data connectivity (low bandwidth) and voice services as subscriptions through local resellers focusing on developing countries	AISTECH focuses on three different business areas: Bidirectional Communication for Asset Tracking; Space Imaging, and Aviation Tracking & Surveillance	Aerial & Maritime Ltd. is a global data provider and the company's satellites will be capable of monitoring civilian aircraft and vessels based on reception of ADS-B and AIS-signals, respectively	
GomSpace delivered the first three <b>test satellites</b> which were launched in 2017	Delivery of the first platforms is expected to be in the first quarter of 2018	The constellations will be deployed from 2018	

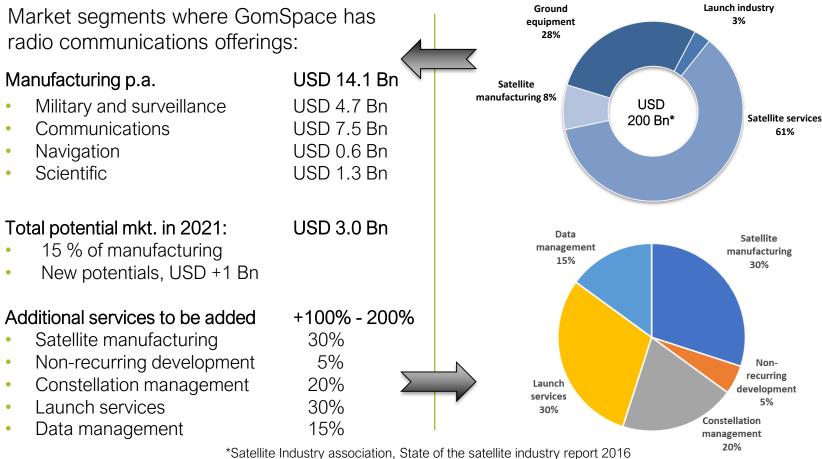








# POTENTIAL NANOSATELLITE MARKET |



http://www.sia.org/wp-content/uploads/2016/06/SSIR16-Pdf-Copy-for-Website-Compressed.pdf



# LONG-TERM NANOSATELLITE VISION |

- Nanosatellites are the "Ford-T" model in the space economy; opening up for low cost through mass production
- We see it as likely that nanosatellites will become the "radio towers" of the future, allowing radio services to be offered globally from space at lower cost than setting up terrestrial infrastructures
- Replacing the satellites every 5 years allows the infrastructure to stay competitive, taking advantage of advances in technology driven by Moore's law
- International regulation, as in airspaces, will ensure that hundreds of thousands of satellites can co-exist in space providing services to users







Morgan Stanley

Space: Investing in the Final Frontier

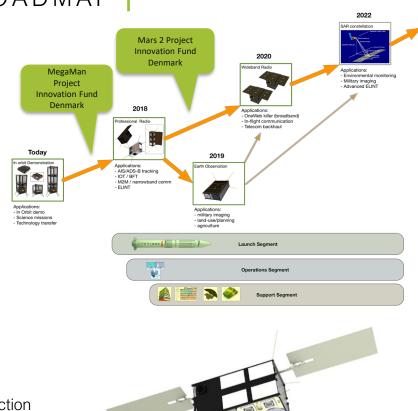






# COMMERCIAL SOLUTIONS ROADMAP

- Our roadmaps are aligned to deliver "Strategic Platforms" each enabling a new wave of commercial solutions
- 2018: Professional Narrowband Radio
  - Ship and aircraft tracking
  - Internet of things
  - Voice communication and data connectivity
- 2020: Wideband Radio
  - Proprietary communication systems for large companies
  - Space based internet service provision like OneWeb
  - Telecommunication backhaul integration with 5G
- 2022: Synthetic Aperture Radar
  - Imaging literally through the clouds with radar technology
  - Weather forecasting: ice monitoring, sea state monitoring
  - Environmental monitoring: oil spill monitoring, change detection
  - Military and security: geospatial intelligence
- All solutions are driven by our radio technology focus. In parallel we support other applications, e.g. imaging





# SPIN-OUT STRATEGY FOR NEW APPLICATIONS

## GomSpace will develop new applications

## **Breadth of knowledge**

- Many new applications become viable as the cost is reduced by using nanosatellites
- Application development requires deep space knowledge
- Service providers do not understand the new possibilities with nanosatellites

## Push technology

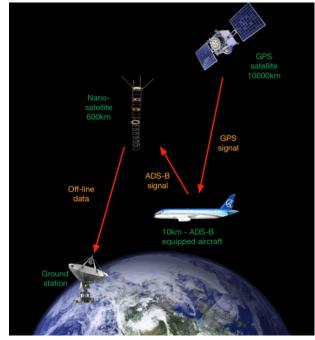
- Develop new and innovative payload instruments for new applications
- Spin-out service-oriented entities where we are first movers

#### **Examples**

- Airline tracking; spin-out as Aerial & Maritime to provide service in 112 countries from 2018
- Satellite performance monitoring is being prepared for spin-out – BeamWatch
- VHF connectivity between airlines and air traffic towers via satellite









# EXECUTIVE MANAGEMENT |



Niels Buus, CEO - born 1957

More than 20 years of experience in the defence and security business at executive and non-executive level.

Experienced at leading fast growth companies. Chairman until 2014.

Engineering and commercial education; MSc at Aalborg University, MSc at Imperial College and Master in Management at London Business School.



Troels Nørmølle, CFO - born 1986
More than 10 years of experience in accounting.
Experience from EY, PwC and interim
Financial Manager, 1 year, in a public listed company, Aalborg Boldklub.
Financial management and accounting education at Aalborg University.



Dan Ulrich, CTO - born 1962

More than 20 years of experience with complex technology and business.

Experience with new business development, business unit management as well as development in Airspace and Defense.

PhD at Danish Technical University and MBA at Hult International Business School



Børge Witthøft, CCO - born 1952
More than 30 years of experience in the Defence, Security and Space business at executive level.
Experience with international business development in projectoriented technical organisations.
MSc Engineering at Danish Technical University and commercial education at IMD.



# OWNERS AND BOARD OF DIRECTORS

	Share %
BOREAN/NOVI	20
State-approved Innovation Incubator investing in technology-based projects for commercialization of new ideas and inventions	
Hansen & Langeland ApS	14
Spin-off of CRI A/S, which in 1995 was Denmark's largest IT Company	
Founders and management	19
CEO, management and founders	
SSC – Swedish Space Corporation	2
Floated on NASDAQ First North	45

#### **Jukka Pertola**

Ret. CEO Siemens A/S Denmark Chairman: GomSpace Group, GomSpace

## Jesper Jespersen

Ret. CEO NOVI Vice Chairman: GomSpace

## Carl-Erik Jørgensen

Investment manager BOREAN

#### Steen Hansen

Managing Director, CEO and majority shareholder of Hansen & Langeland ApS

#### **Anna Rathsman**

Senior Vice President & CTO, Technology & Innovation of Swedish Space Corporation



# | FINANCIALS KPI GOALS |

- Compound annual growth rate of 70 %
- Gross margin of min. 50 % in 2021
- Recruitment of employees, 350 in 2021

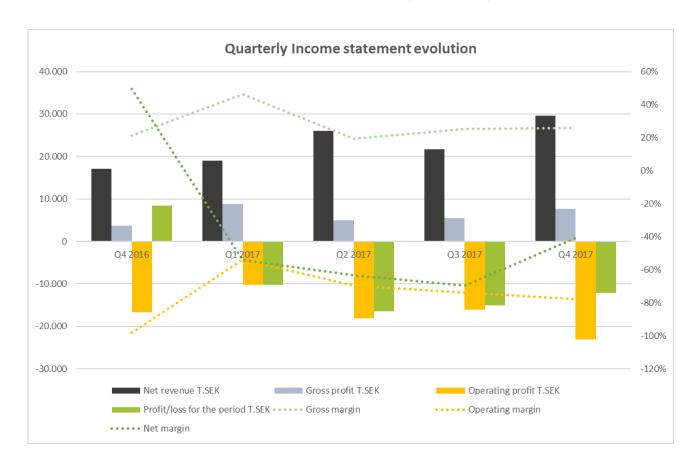
### **HISTORY**

MSEK	2013	2014	2015	2016	2017
Turnover	10.3	26.9	33.5	54.1	96.4
Gross margin	38 %	41 %	50 %	47 %	28 %
Number of employees	8	16	30	77	176
Profit b. tax	0.0	1.6	-3.1	5.5	-66.5





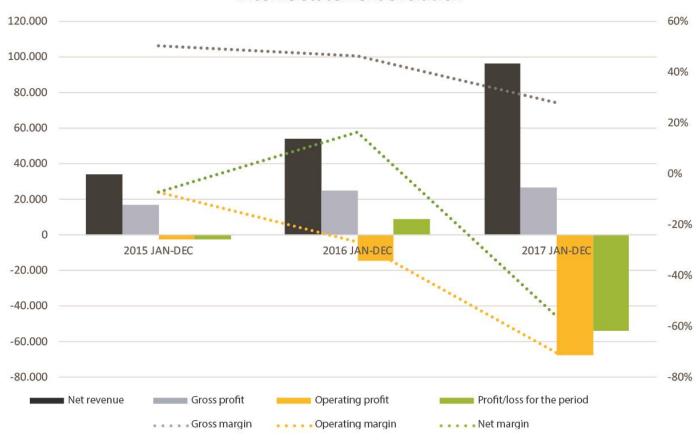
# FINANCIAL PERFORMANCE | FOR SEPTEMBER 2016 - DECEMBER 2017 (in T.SEK)





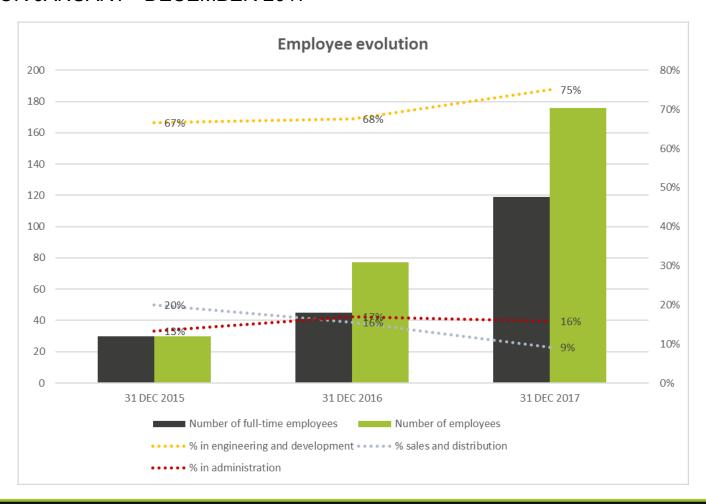
# FINANCIAL PERFORMANCE | FOR JANUARY - DECEMBER 2017 (in T.SEK)

#### Income statement evolution



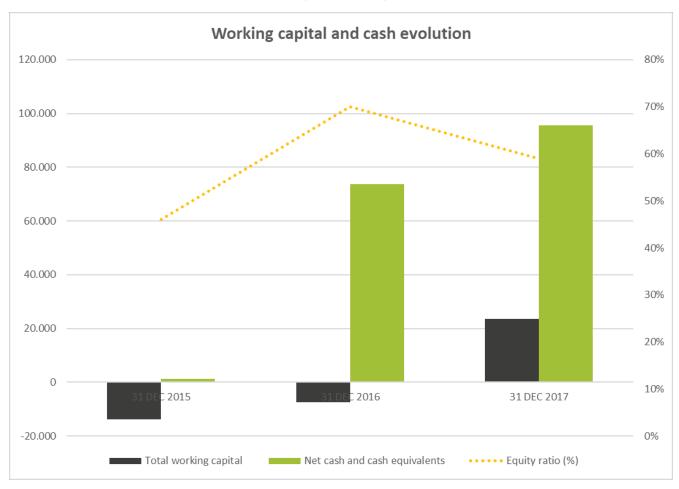


# FINANCIAL PERFORMANCE | FOR JANUARY - DECEMBER 2017





# FINANCIAL PERFORMANCE | FOR JANUARY - DECEMBER 2017 (in T.SEK)





# CONTINIOUS DEVELOPMENT |

## **Next steps for existing business**

- More sales, especially in the USA
- Continue development of existing products for industrial production
- Build production and accelerate outsourcing

## **Establish constellation management business**

- Develop new constellation management system
- Establish Luxemburg subsidiary

## **Development of new spin outs**

- Develop new applications
- Develop new service business cases







# "WE HELP TEAMS ACROSS THE GLOBE ACHIEVE THEIR GOALS IN SPACE"