

Star Navigation Systems Group Ltd



STAR NAVIGATION SYSTEMS GROUP LTD.

2017STATUS - Corporate and organization

Organization focused on cash flow management, and specific Programs

- Reduced team
- Maintaining of level of certifications and qualifications
- **MMI activities focused on the existing products maintenance and repairs, to meet the current customers satisfaction and confidence, and to generate revenues**
- **ADS activities focused on:**
 - **SSU Gen 3 to meet customer's request (feedback from first implementation),**
 - **V-trk finalization and entry on the market.**
 - **R&D (funded) activities for new applications**

STAR NAVIGATION SYSTEMS GROUP LTD.

STAR-A.D.S.® Product Line

STAR now offers a wide variety of cost effective real-time solutions to operators and airlines:

- To track their flights and vessels anywhere in the world,
- To provide a quicker response time in case of accidents,
- To communicate,
- To monitor the status and health of their platforms.



STAR-A.D.S.® fielded to commercial Airlines and business aircraft operators



Star-TTT™, certification in progress (China & Transport Canada) for helicopters and Mid-size aircraft
TTT = Track Talk Text



Star- V-trk™, tracker available 2017 for small platforms in 4 incremental versions :

1. Tracking and positioning through satcom
2. On-board data collecting, processing and downloading
3. GSM
4. Military applications



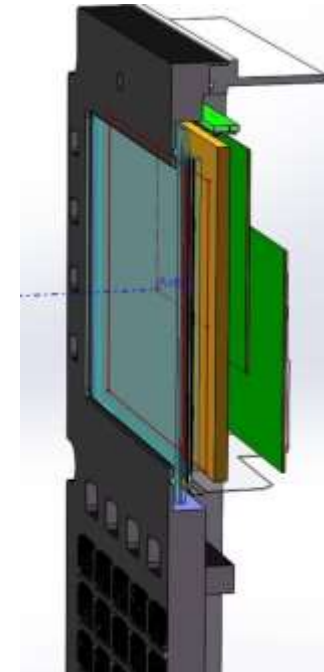
Star-TTT- Maritime™ :

- global voice & data communication, e-chart real time navigation , tracking and positioning
- Meets the application requirements of far-ocean communication, marine navigation, distress aid, distress warning, sailing course management and vessel tacking.

STAR NAVIGATION SYSTEMS GROUP LTD.

2017 Products STAR- MMI™

- Past products carried over and branded by Star
- New products coming , but only when under contract by customer
- Centered on niche market of military retrofit: long time cycles
 - RFPs with new prospects still in competition and review



STAR NAVIGATION SYSTEMS GROUP LTD.

2017 STATUS – ADS Programs

- **Skyservice: positive insertion:**
 - live “show case”
 - Gen 3 with GSM transmission for 2018
- **Mid East VVIP operator:**
 - Installation of Gen3 completed and certified (TC)
 - Waiting certification from Gulf transport Authorities
- **Two mid-east ADS prospects:** ongoing discussions on implementation
 - Proposals with airlines : long process, Large airlines adverse to small suppliers.
- **Star- V-trk™ :**
 - First order from Chinese ZLT
 - Development to be completed Nov 2017 and deployment of the solution in China and in NA, potentials on UAV
- **Star- TTT™:** 7 units to be shipped to Star for conducting TC testing in Canada
- **Mitigation = Partners network**
 - KELOWNA distributor – dealership agreement for all ADS
 - Dealership-partner agreement in Europe for ADS, V trk and MMI products
 - BDA dealer- sales partner to increase work force
 - ZLT in China for V-Trk and MMI
- **Train tracking and monitoring:**
 - Indian Railways RFP answered – technical evolutions and re evaluation of project



STAR NAVIGATION SYSTEMS GROUP LTD.



2017 STATUS – ADS Programs ctd. - R&D

- **CIMES program (with CRIAC-CARIC and Bombardier):**
 - a STAR-A.D.S.® platform is on a G7000 for an extended flight test program under a Canadian – European research framework. The STAR-A.D.S.® is used as a multi-function data collection , recording and transmitting platform
- **MEDEVAC application:**
 - **MEDEVAC 1 R&D:** a STAR-A.D.S.® is used as the core system to transmit bio-data from an EMS platform to the hospital . Feasibility demo to be run end of this year
 - **MEDEVAC 2 R&D:** under preparation with Federal for 2018 onwards with advanced features
 - Discussion with large EMS helicopter operators and manufacturers to propose STAR - ISAM™ (medevac application) as standard offering package
 - Discussion with avionics manufacturer to propose STAR - ISAM™ on military fleet
 - Mandatory to provide Tracking and liaison to Operation center and mandatory beyond 2018 to provide Flight data monitoring. STAR-A.D.S.® and STAR - ISAM™ already comply.

STAR NAVIGATION SYSTEMS GROUP LTD.

2017STATUS – MMI Programs



- **Already designed , qualified , fielded products** carried on by Star , with renewed contracts
- **Product Support activities on going**
 - Major customer, Lockheed Martin (for US Navy) signed up for long term maintenance and support until 2021. Extensions beyond 2021 as yearly options.
 - Legacy customers to previous Luxell: NGI, Rheinmetall
- **RFP** on new displays and new programs
- **MRO** distributor agreement opens the way to European Military replacement opportunities, and to their own customer portfolio.

STAR NAVIGATION SYSTEMS GROUP LTD.

STAR-A.D.S. ®

Forward path

First customers :



➤ Business Aviation :

- **Skyservice** : Preparation for SSU Gen 3 for beg 2018.
- “**Business jets classics**” : Learjet 45, Global express classics and OEM post production aircraft support – proposal stage
- **Business jet high end (VVIP)** : A 310, B737, Global Express

➤ Commercial Airline : A320 and B 737 fleet targeted

- **Medical Service applications RxD** – EMS helicopters, Fixed wing EMS transport (commercial and Military) and partnership for both SSU and V trk

Proposals :

- ADS : 3 proposals in Mid east – long discussions
- V trk : setting up the partnership + first demo units with Chinese partner
- Medevac : R&D phase 2 + entry into market

Alliances :

- BDA sales partner – proposals on going (North America)
- MRO and distributor (Europe and UAE) for ADS and MMI, military, commercial, helicopters and business aircraft platforms

STAR NAVIGATION SYSTEMS GROUP LTD.

STAR M.M.I.™

Forward path



Legacy customers of STAR - M.M.I.™

- **Lockheed Martin** Maintenance + New repeat
- **NGI** Maintenance
- **JEPICO (Japan)** New repeat orders, and new opportunities

Current prospects for STAR - M.M.I.™ - to add new customers

- **MITSUBISHI** for helicopters
- **ALSTOM** New displays (trains)
- **STUDELEC** : Helicopters simulators
- **HOWELL Instruments** Helicopters (US) retrofits
- **European** Distributor and Repair center (military and commercial)
- **IRTS** , previous MMI partner, discussion for optical modules supplies for Indian market