VHF Activity Observed by Kleos Satellites
AIS: Negative

VHF Activity Observed by Kleos Satellites
AIS: Positive

VHF Activity Observed by Kleos Satellites
AIS: Negative

VHF Activity Observed by Kleos Satellites
AIS: Positive

VHF Activity Observed by Kleos Satellites
AIS: Positive
“The Earth Observation data market is projected to grow exponentially”

- Mordor Intelligence

Kleos is engaged with target customers worldwide to help provide answers to major global challenges
**CORPORATE SNAPSHOT**

- Incorporated in Luxembourg June 2017 leveraging 5+ years R&D activity
- Targeted and experienced team comprising Mission, RF, Data Science & Analytical Engineers
- Data delivery strategy through critical partnerships
- Strong non-equity financial support from Luxembourg Government
- Early adopters pre-orders and sales channel partner contracts signed
- L3Harris (NYSE:LHX) signed as partner for marketing to government agencies
- MOU with EarthLab to develop new commercial applications for Kleos Data – targeting the insurance sector and other GEOINT applications
- Collaboration with Spire Global on ‘Safety at Sea’ project combining Spire AIS data with Kleos data
- Satellites build complete - launch scheduled for Q4 2019 with a 37 degree inclination orbit delivering more frequent data polling in key regions

**ASX: KSS**

**KLEOS.SPACE**

### KEY METRICS

<table>
<thead>
<tr>
<th>Metric</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDIs on Issue</td>
<td>106,627,500</td>
</tr>
<tr>
<td>Escrowed CDIs</td>
<td>35,555,000</td>
</tr>
<tr>
<td>Tradeable CDIs</td>
<td>71,072,500</td>
</tr>
<tr>
<td>Market Cap (at A$0.30)</td>
<td>A$31.99 million</td>
</tr>
</tbody>
</table>

CDIs are issued 1:1 with underlying fully paid ordinary shares to facilitate trading in the securities. Kleos is incorporated in Luxembourg. Data at 13 August 2019.

### SHAREHOLDERS

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of CDI Holders</td>
<td>730</td>
</tr>
<tr>
<td>Board and Management</td>
<td>25%</td>
</tr>
<tr>
<td>Top 20 Shareholders</td>
<td>59%</td>
</tr>
</tbody>
</table>

### BOARD AND MANAGEMENT

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chairman</td>
<td>Air Commodore Peter Round</td>
</tr>
<tr>
<td>Co-Founder &amp; CEO</td>
<td>Andy Bowyer</td>
</tr>
<tr>
<td>Co-Founder &amp; CTO</td>
<td>Miles Ashcroft</td>
</tr>
<tr>
<td>Non-exec Indep Director</td>
<td>David Christie</td>
</tr>
<tr>
<td>International CFO</td>
<td>Iain Hackston</td>
</tr>
<tr>
<td>US Strategy Director</td>
<td>Karyn Hayes-Ryan</td>
</tr>
<tr>
<td>South American Sales Rep</td>
<td>Pierre Duquesne</td>
</tr>
</tbody>
</table>

Karyn Hayes-Ryan (former Director US National Geospatial Intelligence Agency and US National Reconnaissance Office)

Pierre Duquesne (former Managing Director for Airbus Intelligence South America)
**Products Tackling Global Challenges (US$80Bn)**

<table>
<thead>
<tr>
<th>Kleos Data Products</th>
<th>Application</th>
<th>Target Market</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low-Level Data Products</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satellite Data</td>
<td>Maritime situational awareness</td>
<td>Defence &amp; Security</td>
</tr>
<tr>
<td>Georeferenced RF Data</td>
<td>Enhanced maritime situational awareness</td>
<td>Defence &amp; Security, Commercial Geospatial Intel providers</td>
</tr>
<tr>
<td>Location enabled analytical data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maritime Pattern/Anomaly/ Comparator Data</td>
<td>Maritime operations, logistics, port and terminal management, maritime trade, risk management, commercial shipping and port stakeholders, fleet capacity analysis and forecasts, reporting on illegal activities</td>
<td>Defence &amp; Security, Search &amp; Rescue, Fishing Monitoring (regulatory) Insurance and Shipping Companies</td>
</tr>
</tbody>
</table>

- **Cost of illegal fishing (source UN):** US$23Bn per Annum
- **Marine insurance (source IUMI):** US$15Bn
- **Global cost of marine terrorism/piracy (source the IET):** US$25Bn
- **Maritime security market (source Mordor):** US$17Bn

- **Marine insurance:** US$15Bn
- **Global cost of marine terrorism/piracy:** US$25Bn
- **Maritime security market:** US$17Bn

- **Cost of illegal fishing (source UN):** US$23Bn

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A LARGE AND FAST GROWING MARKET

Targeting diverse, multi-market, high value direct & reseller agreement revenue streams

- The global space-based Earth observation data products revenues in 2016 was US$2 billion¹
- Global Maritime Information Market expected to be up to US$1.41 billion² by 2020.
  - KSS initial target is less than 1.5% of this market by 2020 (revenues of €19.5 million)

Competitive environment

- Only one other known company that is working to create Space collected commercial RF data
  - Successfully launched the first cluster of three formation-flying satellites
  - Reported to have over US$50 million in commercial contracts validating the demand for this data
  - Previous valuation of US$200 million
  - Kleos very well positioned against this peer offering

"Repeatable, profitable revenue from high quality customers"  
Andy Bowyer, Co-Founder and CEO

GLOBAL MARITIME INFORMATION MARKETS

Maritime Information Analytics, 43.60%
Automatic Identification Systems, 6.90%
Vessel Tracking, 18.20%
Maritime Information Provision, 31.30%

¹ 2017 State of the Satellite Industry Report
² Global Maritime Information Market 2016-2020, Technavio
Kleos offers a unique space-enabled DaaS Product – a powerful source of geospatial intelligence data (GEOINT) and signals intelligence data (SIGINT), attractive to both public and private sector clients.
# Kleos Data Products

| **Guardian LOCATE**  | Processed to deliver geolocated RF activity and capture metrics which is ready for further analytical activity by the customer within GEOINT and data fusion platforms  
<table>
<thead>
<tr>
<th><strong>Geolocated data (analytic ready)</strong></th>
<th>First Kleos DaaS Product: highly flexible pre-processed data attractive to a broad range of customers</th>
</tr>
</thead>
</table>
| **Guardian RF**  | Raw data that has not been processed through Kleos geolocation algorithms for customers who have their own geolocation/ signals intelligence capability.  
|**Satellite RF data** | Provided as a structured time aligned I/Q Level X data stream  
| | Primarily for highly sophisticated customers with in-house data processing capability |
| **Guardian UDT**  | A customised data set driven by customers requirements and bespoke quotation prior to order  
|**User defined data set** | Common customisation variables may include;  
| | Specific AOI, data frequency (geospatial filtering)  
| | Specific time (temporal filtering)  
| | Ground, ground station/s  
| | Enhanced security  
| | Event based triggers  
| | Customisable high value data to be processed and packaged for bespoke applications |

Monthly/yearly automated and programmatic ordering, available invoicing and usage reports
## ANNUAL REVENUE PER ‘GUARDIAN LOCATE’ CUSTOMER

<table>
<thead>
<tr>
<th>Daily Data Revisit Points</th>
<th>User Type</th>
<th>Annual Revenue Per Customer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>US$</td>
</tr>
<tr>
<td></td>
<td>Single User</td>
<td>90,000</td>
</tr>
<tr>
<td></td>
<td>Integrator</td>
<td>340,000</td>
</tr>
<tr>
<td></td>
<td>Government</td>
<td>680,000</td>
</tr>
<tr>
<td>1</td>
<td>Single User</td>
<td>140,000</td>
</tr>
<tr>
<td></td>
<td>Integrator</td>
<td>510,000</td>
</tr>
<tr>
<td></td>
<td>Government</td>
<td>1,020,000</td>
</tr>
<tr>
<td>2</td>
<td>Single User</td>
<td>280,000</td>
</tr>
<tr>
<td></td>
<td>Integrator</td>
<td>1,020,000</td>
</tr>
<tr>
<td></td>
<td>Government</td>
<td>2,040,000</td>
</tr>
</tbody>
</table>

- Revenue is driven by the frequency of the revisits in specific locations the Kleos satellites can provide within a 24 hour period.
- Per customer annual revenue is indicative – pricing model subject to change.
- Excludes revenue from fused data products.
- Excludes revenue from any Guardian RF or Guardian UDT sales which has own pricing model.
- Single Users, Integrators, and Government may also purchase Guardian RF or Guardian UDT.

## CUSTOMER PROFILES

### Single User
- Licence for single user (seat) locked to a single computer
- Primarily data viewing and local integration into existing workflows
- No reselling of data

### Integrator
- Licence for a single site
- Licence to allow for integration into other fused data products
- Reselling permitted if within fused data product

### Government
- Single site licence allowing for integration into other fused data outputs
- No reselling permitted
- Transfer/sharing with other government agencies permitted if within home country
First product launch to be Guardian Locate – Kleos processed geolocated RF data

Guardian Locate targeted towards customers with existing GEOINT or data fusion processing capabilities in existing workflows

Variable pricing to users dependent on daily data point re-visits provided

DaaS model allows an ‘unlimited’ number of potential customers

Existing two signed contracts are Integrator Users – additional Single User and Integrator contracts in negotiation

L3Harris (NYSE:LHX) Sales Channel Agreement for marketing of Kleos primarily to US Government agencies and other users

Kleos placed on GSA Portal – GSA contracts account for US$45bn in annual sales to US Govt agencies

New agreements with Spire Global and EarthLab partnering to increase value of Kleos data (fused data products) and develop new unique commercial applications
Market Engagement

- Significant progress made engaging the market with:
  - Organisational memberships and conferences
  - Development of Memorandum of Understandings
  - Channel Partner Agreements
  - Government Procurement Portals
  - Pre-orders

- A broad spectrum customer base with signed engagement from focussed small enterprises to global defence contractors such as:
  - L3Harris
  - Orbital Insight
  - Airbus
  - Ball Aerospace
  - IMSL
  - ImageSat International
  - Multiple significant US defence contractors

- Innovative collaborations, delivering value add solutions:
  - ‘Safety at Sea’ project with Spire combining maritime data
  - EarthLab developing new commercial GEOINT applications for Kleos data

"Our early adopters represent many end-users, each a possible further revenue source to Kleos as we roll out our DaaS Model."
Andy Bowyer, Co-Founder and CEO
Kleos to deliver maritime RF activity data to help disrupt US$80bn+ illegal fishing, smuggling, trafficking and security & border challenges

- Independently geolocating VHF transmissions to reveal dark, unseen, unlocatable, obscured, obfuscated, covert Maritime activity
- Complimentary to S-AIS/SAR/Imagery EO
- Data provided as-a-Service (DaaS), we aim to be:
  - Reliable
  - Repeatable
  - Easy to ingest via API
- Collection capability will grow to near real-time collection by launching:
  - further satellites (10x clusters targeted)
  - enhanced payload
- The data will be offered at a variety of levels from raw to processed to be ‘analytic ready’
- Distribution to be ‘integration partner’ centric

Our Mission
HOW THE CUSTOMER WILL USE THE DATA

Kleos data delivers a cost effective input for ABI ‘tipping and cueing’ of other EO and ISR Assets

Example Target Sectors:

- Defence and Security
  - Intelligence
  - Border Protection and Control
- Regulation
  - Fishery Protection
  - Pollution Control
- Commercial
  - Insurance
  - Asset Ownership

Enhancing maritime situational awareness through delivering data stream of geolocated VHF communication transmissions and delivering a cueing capability data stream of geolocated VHF communication transmissions

ASX: KSS
KLEOS.SPACE
Launch Provider for Kleos Scouting Mission changed to the Polar Satellite Launch Vehicle (PSLV)

PSLV launch gives Kleos satellites a $37^\circ$ inclination orbit

Orbit increases data collection capability of up to 4.5 times in the corridor with highest global maritime activity when compared with the previous Sun Synchronous Orbit

Significant increase in collection and value of data without launch of additional satellite clusters

Area covered includes high-activity high-demand maritime areas: Strait of Hormuz, South China Sea, Australian Coast, Southern US Coast and both East & Western African Coast

PSLV operated by the Indian Space Research Organisation – highly respected and reliable operator

Kleos Satellite access duration on $37^\circ$ inclination orbit targeting highest activity maritime corridor
Red = higher access duration
PROGRESS

- IPO August 2018
- Scouting Mission satellites pass final milestone; ready for launch
- Contract signed with L3 Harris (NYSE: LHX), 6th largest US defence company and top 10 globally – market cap US$42B
- Kleos on US Government Procurement platform – GSA Portal
- Expansion into South American market – Ex Airbus Intelligence Managing Director
- Initial Early Adopters contracts signed with leading Defence and Security Contractors
- Kongsberg Satellite Services (KSAT) appointed ground station service provider
- Release of initial product range, pricing strategy and pre-order functionality
- Targeting additional pre-orders and delivery contracts ahead of launch – taking advantage of improved launch orbit
- Q4 2019 PSLV launch contract signed with better outcome for Kleos
**Video Interview: Kleos Space business model**
https://youtu.be/hJveszsz-28

**Video Interview: Kleos Space funding model**
https://youtu.be/GPssmQUTgp4

**Video Interview: GEOINT2019**
https://www.youtube.com/watch?v=sojR3b0BN9I

**Written Interview: Kleos Space background**

**AGM Presentation**
https://vimeo.com/344764586

**Scouting Mission animation**
https://vimeo.com/339550512
UPCOMING MILESTONES

July 2019
Expansion of Development
Expansion of Sales Team

Q4 2019
Satellites Launch

Q4 2019/Q1 2020
Satellites Commissioned
Revenues Commence & Contract
Ramp-Up

Q2 2020
2nd Cluster Launch
Additional Higher Value Product Range

Q4 2020
3rd Cluster Launch
Further Increase to Revenues
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