

HAWKEYE 360

Commercialising space-based precision RF detection and analytics

January 2018

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HawkEye 360 mission statement

Commercialising space based RF signals mapping and analytics



RF (radio frequency) spectrum is a highly valuable resource that is critical to the global economy



HawkEye seeks to become the first commercial company with the capability to detect and independently geo-locate sources of diverse RF signals emission from space, using proprietary algorithms and formation flying clusters of LEO microsatellites



Harnessing commercially available hardware, and proprietary big data algorithms, HawkEye will combine RF signals detection with other forms of geospatial information to produce contextually relevant analytic reports for multiple end market applications

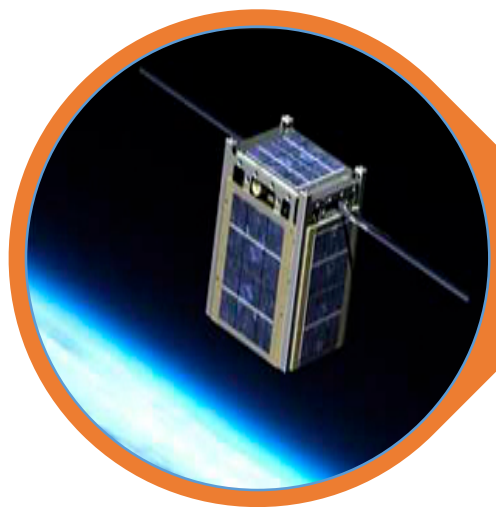


For reference, the commercial satellite imagery market is forecast to be worth \$6.9bn by 2023⁽¹⁾ - indicating there is considerable potential value in commercializing other forms of space-based data collection and analytics

(1) Source: "Global Commercial Satellite Imaging Market Size, Share, Development, Growth and Demand Forecast to 2023" – P&S Market Research

HawkEye 360 system overview

Commercially available hardware combined with proprietary software and analytics



Component

Formation flying, LEO,
small satellite clusters

Function / comment

Potentially unrivalled
accuracy
Microwave sized
Low cost (c \$2 – 3m)

Signals processing
(SDR)

Processing of multiple
/ diverse RF signal
types into user friendly
analytics

Big data analytics
products

Combine RF data with
other geospatial
information to produce
contextual analytic reports

Provider



Proprietary



HawkEye 360 management team

Best-in-class technical, management, and sales staff



John Serafini
CEO

- *10 years of dual-use venture capital experience
- *Former SVP at Allied Minds for Technology Portfolio
- *10th venture capital backed start-up company



Beau Jarvis
Chief Revenue Officer

- *20 years in geospatial sales & marketing
- *NewSpace veteran most recently led International Sales at Planet



Rob Rainhart
SVP, Engineering

- *Technical leadership and expertise in engineering sophisticated systems
- *Managed complex teams in software and hardware development



Dan CaJacob
Director, Space Systems

- *Over 10 years experience building and operating small satellites and commercial constellations
- *Expertise with SDR for ground station networks



Chris DeMay
Founder, COO

- *Experienced 14-year US Federal Gov leader
- *Specializes in space-based RF technology



Charles Clancy, PhD
Founder, Interim CTO

- *Professor, Virginia Tech
- *Director of Hume Center for National Security & Technology
- *Senior Member, Editorial Board Member of IEEE



Brian Chapman
Director, Product & Programs

- *Led Boeing product portfolios across satellite & Big Data platforms
- *Holds multiple product patents



Nick McCarthy
Director, Principal Engineer

- *Experienced 10+ year US Federal Gov researcher
- *Provides technical leadership in software and algorithms development



Alison Alferts
Chief Legal Officer

- *20 years corporate counsel experience
- *Former CLO of DigitalGlobe, Inc. and Space Imaging, Inc.



Hank Courson
Interim CFO

- *20 years telecom, technology and software experience
- *Senior executive experience for both publicly traded & private companies
- *Former Treasurer, Intelsat



Chris Gregory
Director, Processing

- *20 years in SATCOM hardware, software, and system development
- *Focus on waveforms and high throughput, large scale networks



Brett Antonides
Director, Analytics

- *14+ years in geospatial and Big Data software engineering & architecture
- *Development of end-to-end software systems from R&D through production



HawkEye 360 advisory board

Strategic counsel, insight & access



David Deptula

- *Lt Gen, USAF, Retired
- *Expertise in Intelligence, Surveillance and Reconnaissance
- *Dean, Mitchell Institute



Letitia Long

- *Fmr Director of National Geospatial-Intel Agency
- *Senior Executive in National Intelligence Communities



Rand Beers

- *Fmr Deputy Homeland Security Advisor to President
- *Fmr Acting Secretary of Homeland Security



Scott Large

- *Fmr Director of National Reconnaissance Office
- *Expertise in intelligence, space systems & analysis



Arthur Money

- *Fmr Assistant Secretary of Defense for C3I
- *Deep tech expertise in signals processing
- *Board Member, HE360



Robert Work

- *32nd Deputy Secretary of Defense
- *Fmr Under Secretary of the U.S. Navy
- *Fmr CEO of CNAS



Richard Clarke

- *Chairman, Good Harbor Consulting
- *Served 3x US Presidential Administrations



John Mulholland

- *LTG, USA, Retired
- *Fmr Associate Director for Military Affairs, CIA
- *Fmr Deputy CDR, USSOCOM & CDR, USASOC



Gwyn Whittaker

- *Fmr CEO, Mosaic Systems
- *Expertise in intelligence, counterterrorism and enterprise data sales



Mike Sheehan

- *Fmr CEO, Hill Holiday & Boston Globe
- *Seasoned ad & media executive



Stewart Baker

- *Fmr General Counsel of National Security Agency
- *Partner at Steptoe LLP specializing in technology & privacy policy



Norm Coleman

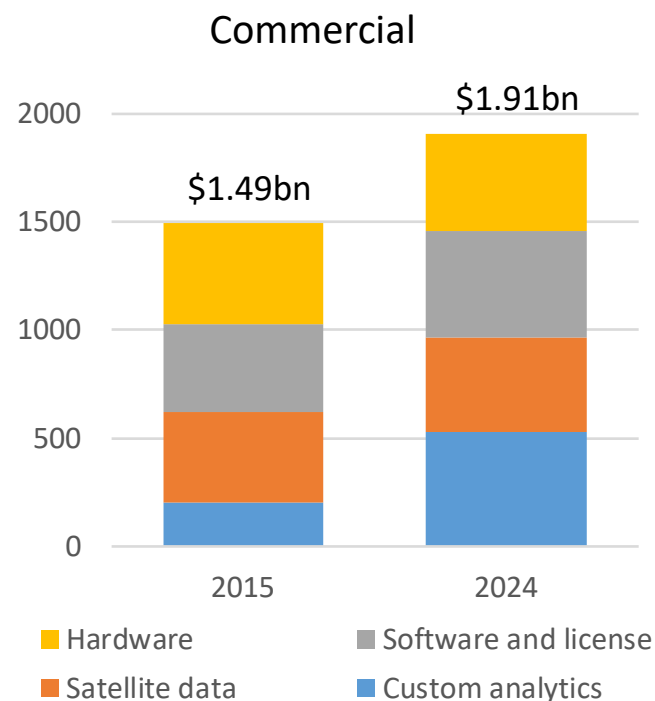
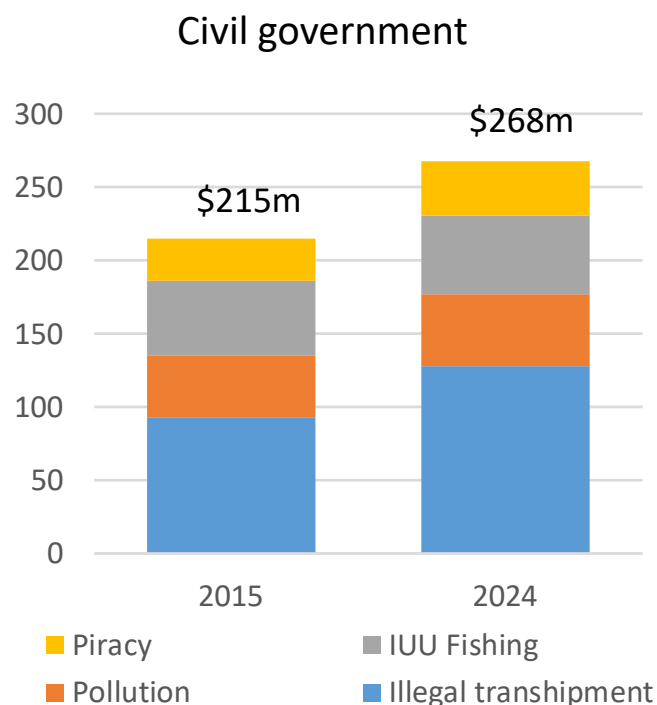
- *Fmr US Senator (R, MN)
- *Partner at Hogan Lovells LLP specializing in USG regulatory policy



Spotlight on maritime domain awareness

\$1.7bn market growing to \$2.3bn in 2024 (excluding defence & intelligence)

HawkEye's first derivative data analytic product, scheduled for market release in Q1 2018.



Note: Total spending across threats includes hardware, airtime, satellite data, platform, and integration expenses. Excludes military/intelligence spending for government

Sources:

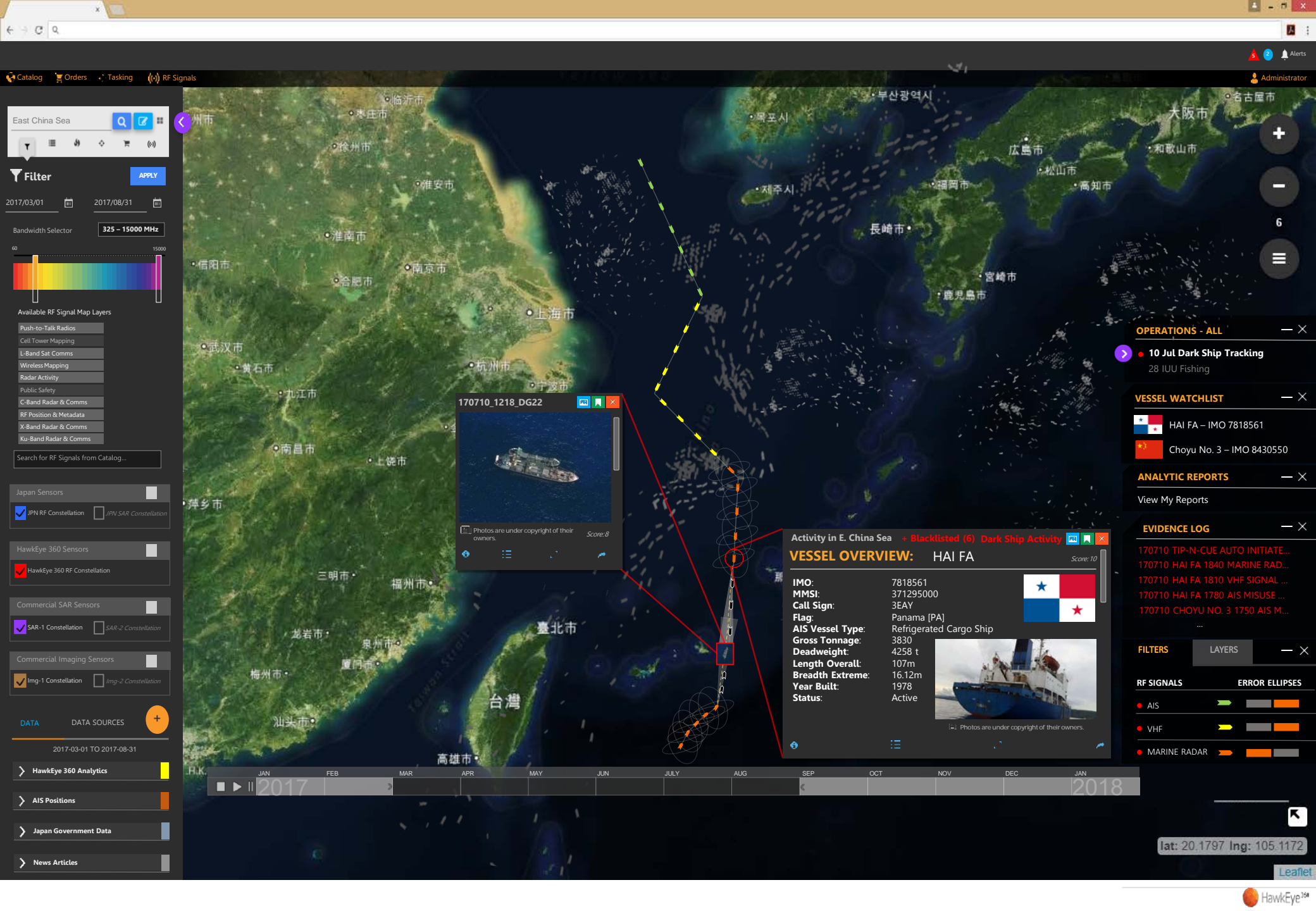
Frost & Sullivan; Global Commercial Satellite-Based Maritime Surveillance Market Assessment, November 2016

Frost & Sullivan; Satellite-Based Maritime Surveillance Market Assessment for Civil Government Customers, October 2016



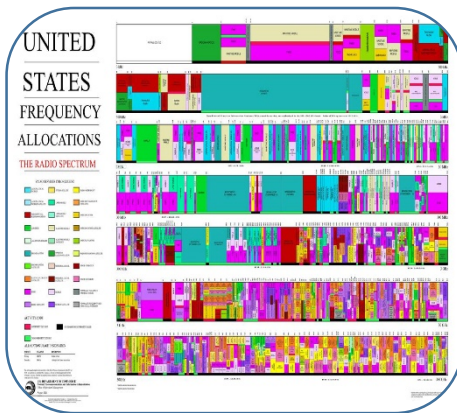
Exemplar of company capabilities in data science





Representative applications

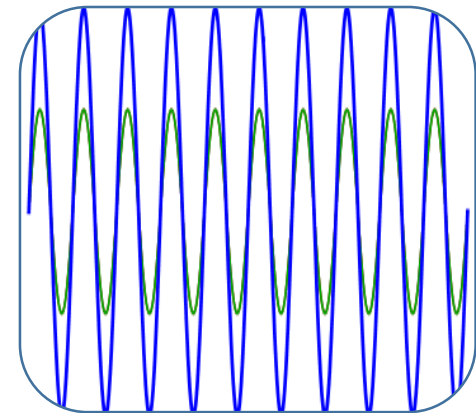
Platform technology producing RF data analytics of value across many applications



Spectrum mapping



Emergency response and search/rescue



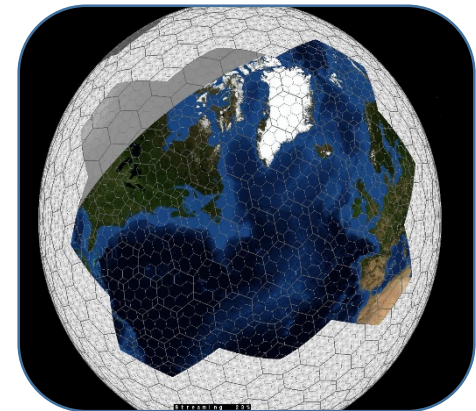
Communications / spectrum interference detection



Maritime domain awareness (MDA)



Critical infrastructure awareness

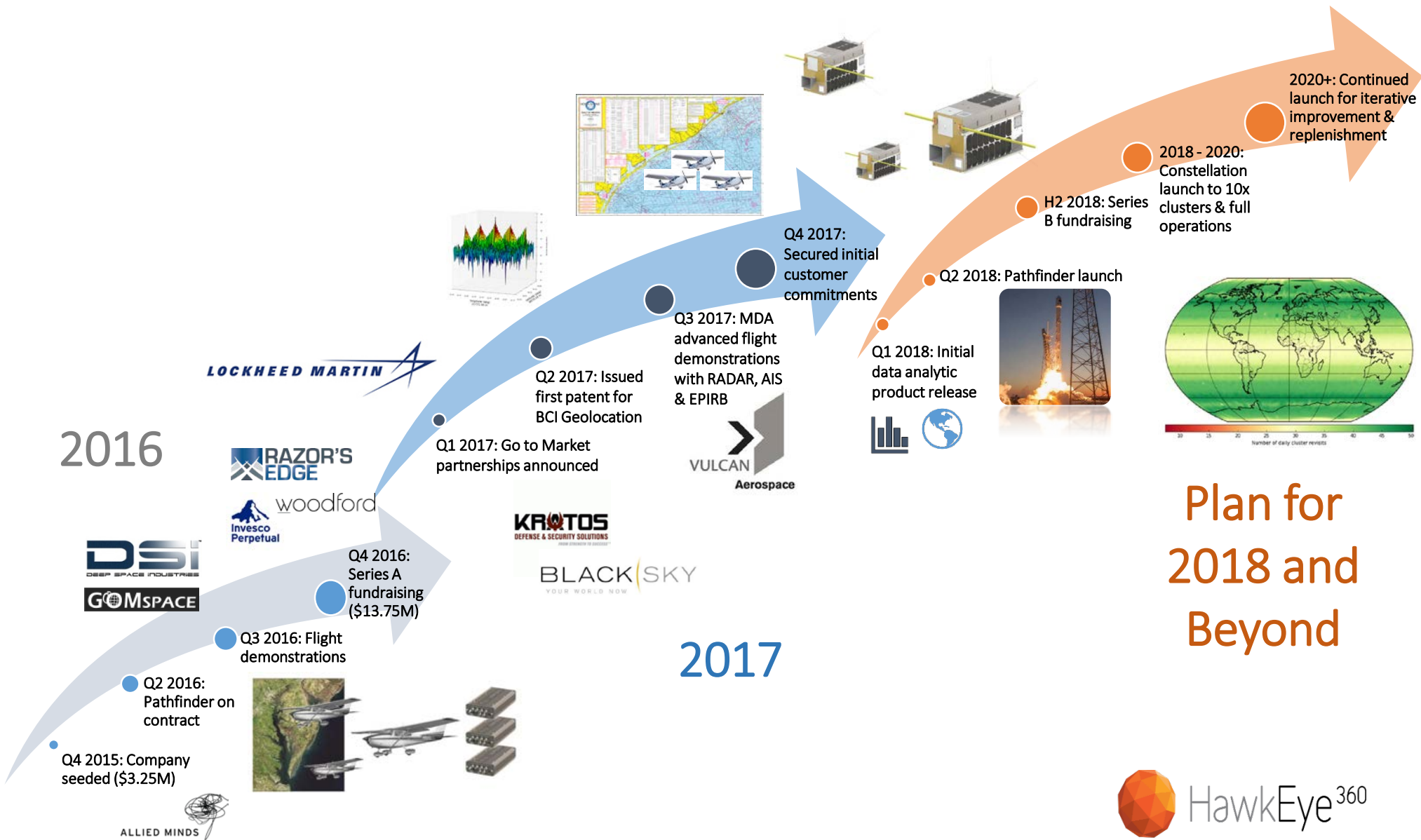


Government mission support



Progress to date

Groundwork laid for Pathfinder launch and testing with scalable revenue in sight



Unlocking a premium exit valuation

Disruptive innovation solving important problem	<ul style="list-style-type: none">• RF spectrum is a critical resource for the global economy• Currently, no commercial provider of RF signals mapping & analytics with the signal diversity and independent geolocation capabilities of HawkEye
Favourable market dynamics	<ul style="list-style-type: none">• Large, diverse government and commercial applications• Potential to commercialise in similar vain to satellite imagery market
Sustainable competitive advantage	<ul style="list-style-type: none">• First mover advantage• Formation flying clusters: precision mapping through triangulation• Signals diversity• Data science algorithms coupled with data fusion capabilities
Route to widespread adoption	<ul style="list-style-type: none">• Government first strategy: small number of key players. Interest from large number of US Government agencies
Capable management, with aligned interests	<ul style="list-style-type: none">• Strong management team with deep space, data & government• Best in class advisory board: insight, access, and strategy
Establish potential for competitive tension	<ul style="list-style-type: none">• First mover status provides powerful attraction for potential acquirers across diverse segments served by HawkEye products• Current syndicate includes US defence market leader

HAWKEYE 360

THANK YOU

196 Van Buren Street, Suite 450
Herndon, VA 20170
Phone: 571-203-0360
info@[HE360.com](mailto:info@HE360.com)