



TRACXN REPORT : DRONES

December 2015

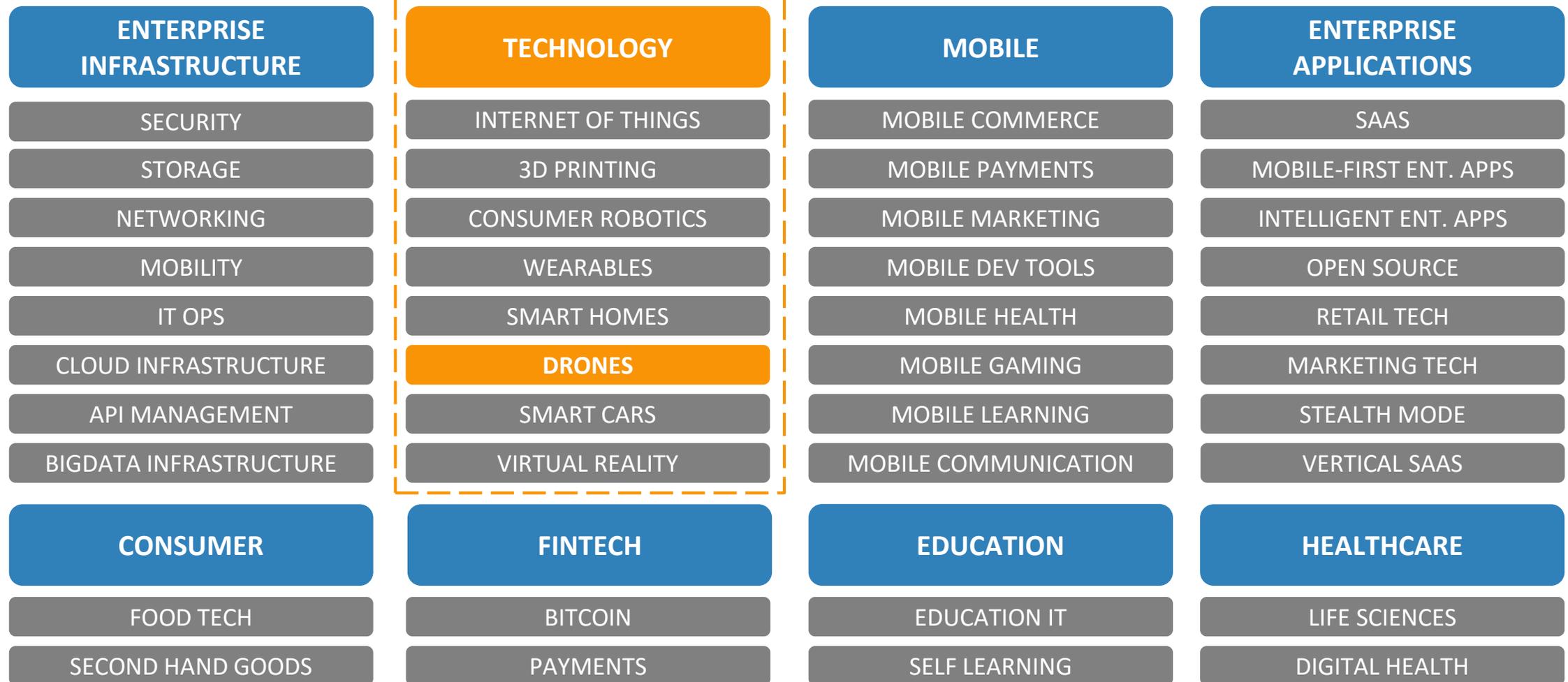
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Contents

Topic	Page
Sectors we track	<u>04</u>
Overview	<u>05</u>
Market Map	<u>09</u>
Company List	<u>16</u>
About Tracxn	<u>124</u>

Illustrative Sectors We Track



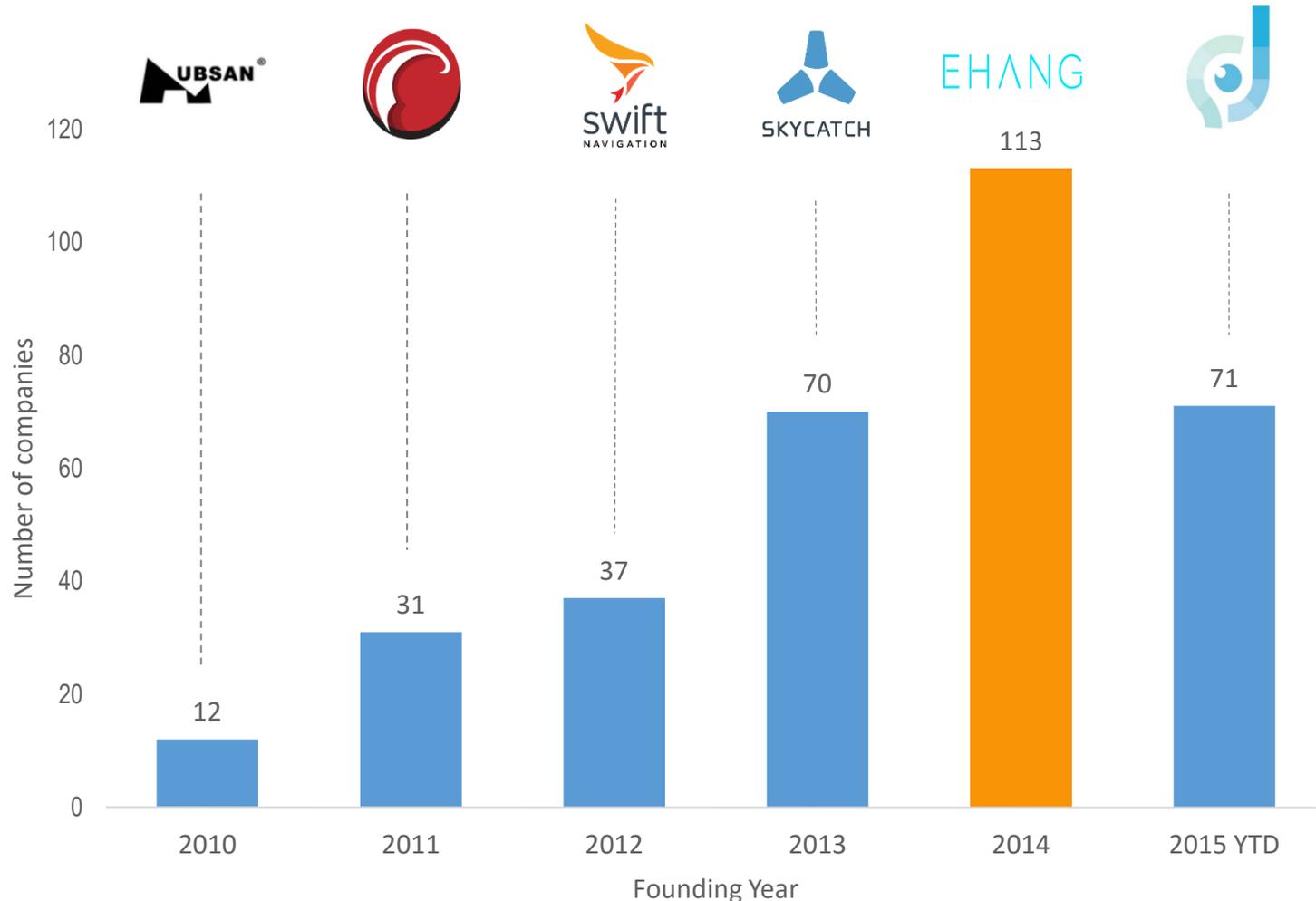
Drones: Sector Overview

Scope: This report covers companies across the Drones industry – UAV Manufacturers, Software, Parts & Peripherals, End-to-End Solution Providers & Service Providers.

- About **\$1.1B** invested in last 5 years, with ~ **\$950M** invested in **2015 YTD**.
- **88** rounds of funding between **2014 – 2015 YTD**. Consumer & Commercial UAV Manufacturers are top funded sectors
 - *Consumer UAV Manufacturers – 14 investments worth ~ \$820 M*
- Most active funds
 - **Qualcomm Ventures** (*3D Robotics, Skycatch, SwiftNav, Inova Drone, SkySense*)
 - **Andreessen Horowitz** (*Airware, Matternet, Skydio*)
 - **Intel Capital** (*Yuneec, Airware, Precision Hawk*)
 - **Felicis Ventures** (*Airware, Cyphy Works, Swiftnav*)
 - **Google Ventures** (*Airware, Skycatch, Hivemapper*)
- Notable investments in last six months
 - *DJI (Chinese based consumer drone manufacturer) - \$500M from New China Life Insurance, GIC, and New Horizon Capital - September, 2015 & \$75M from Accel - May, 2015.*
 - *Yuneec (consumer drone manufacturer) - \$60M, Series C from Intel – Aug, 2015.*
 - *Aeryon Labs (Canada based manufacturer of small UAS) - \$46M from Summit Partners – Oct, 2015.*
 - *Ehang (the Ghost Drone maker) - \$42M, Series B GGV Capital, ZhenFund, and PreAngel – Aug, 2015.*

Over 330 companies have been founded in last 5 years with ~33% founded in 2014

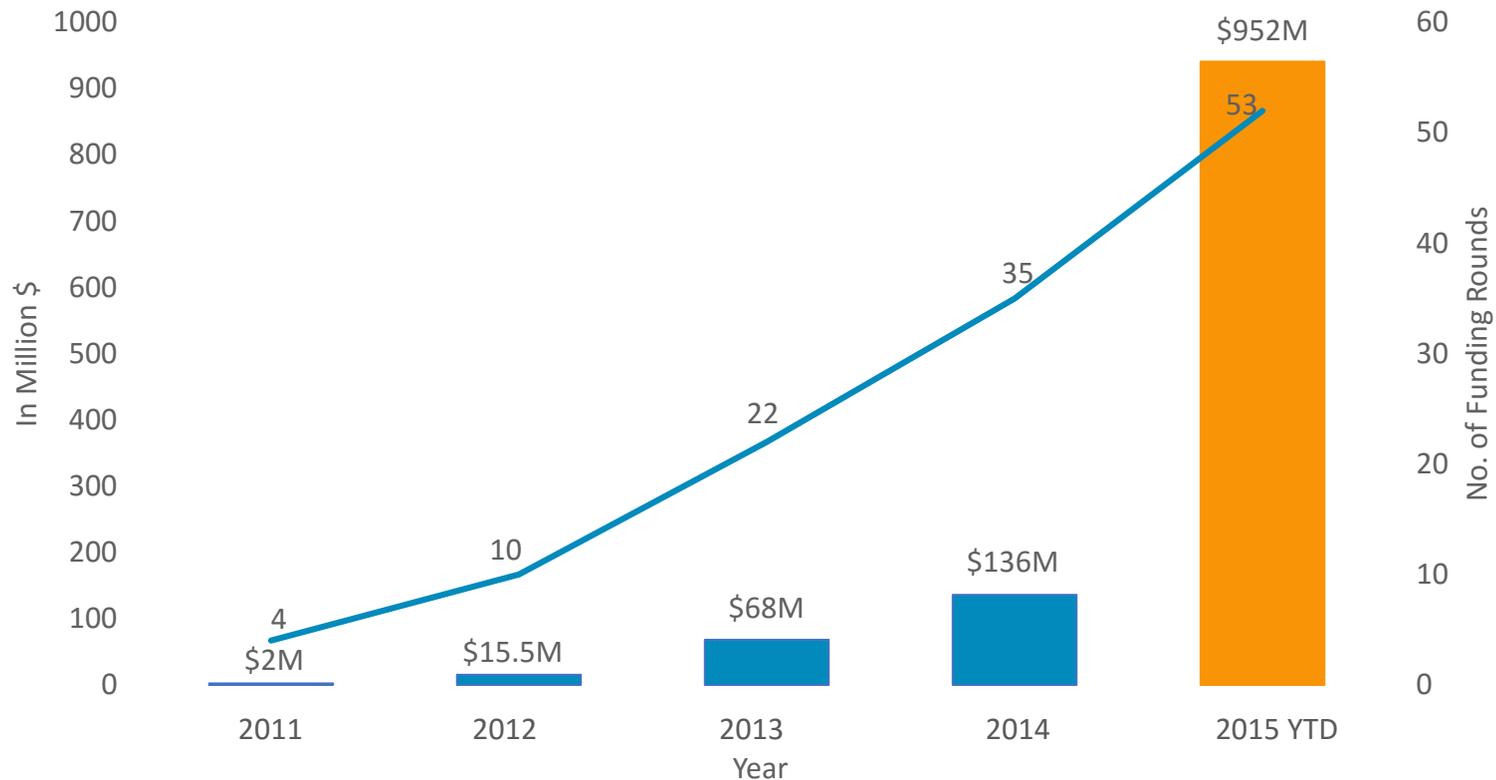
Companies Founded Year-on-Year



- Over **180** companies being founded in the **last 2 year** with **85 companies** have been founded in **US** alone despite of laws being unfavourable for using drones until now.
- Reason could be the safer, cheaper, & faster data acquisition (& delivery) service offered by drones, not only specific to industries but for humanitarian services as well.
- In 2015, Federal Aviation Administration of US **permitted** some companies to **use drones** for **commercial applications**, and will formulate the rules for using drones by the early 2016. This will set a platform for more players to enter.

Over \$1.1B has been invested in drones in last 5 years with ~80% in 2015 alone

Cumulative Funding Growth Year-on-Year (2011-15)



Notable Funding

CyPhy Works
\$1.2M

Prioria Robotics
\$5.5M
3D Robotics \$5M

3D Robotics
\$30M
Airware \$12.2M

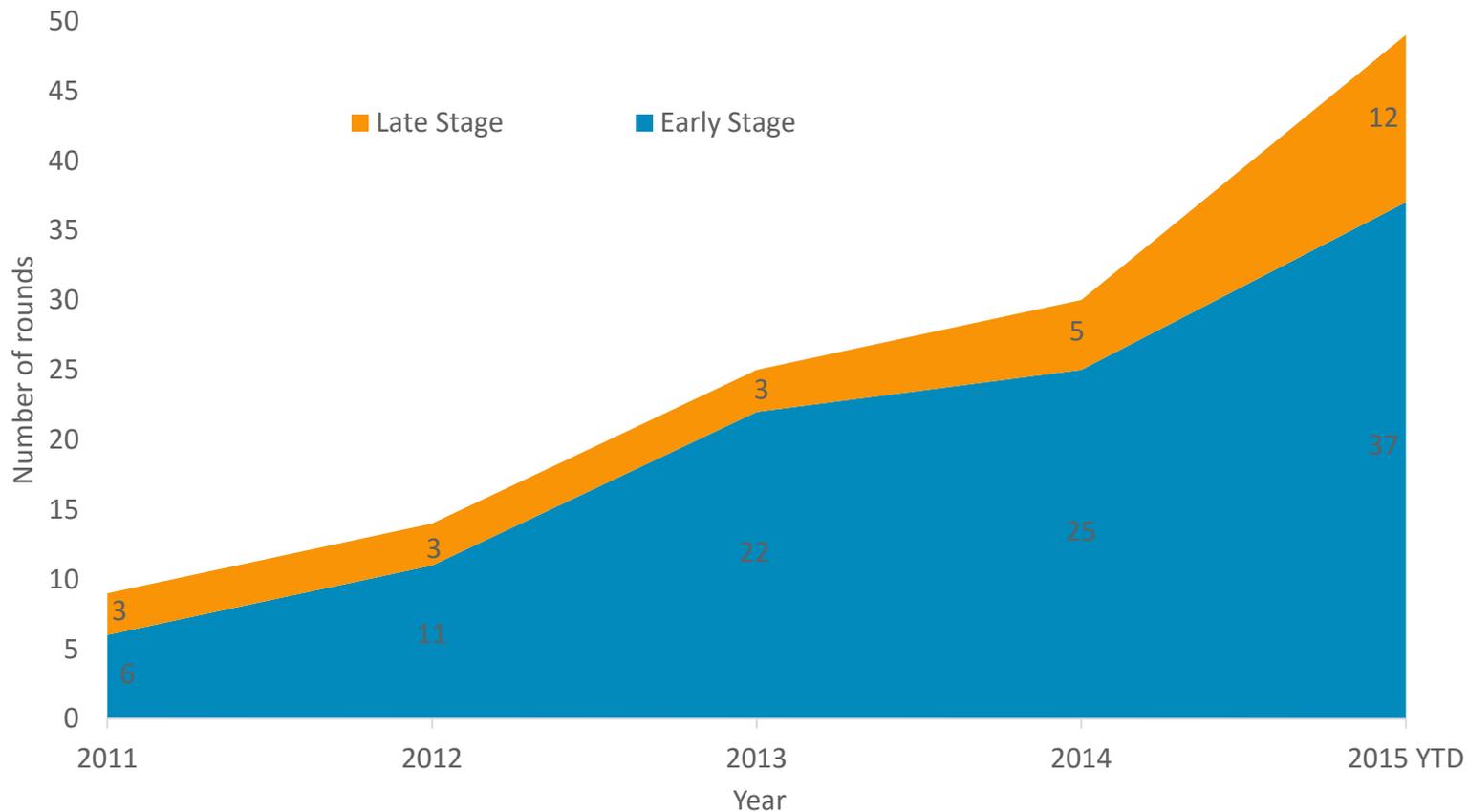
DJI \$30M
Airware \$25M

DJI \$575M
3D Robotics
\$64M

- **\$1.1B** has been invested in last 5 years with around **90%** of the amount being invested in last 2 years (2014-15) Majority of this funding landed outside of US, esp. in China.
- Out of **\$952M** invested in 2015, **60%** went to DJI alone.
- No. of funding rounds per year have seen an upward trend since 2011 and reached its peak in 2015 YTD.
- **CAGR of funding** of the sector for in the years 2011-2015 is **267%**.

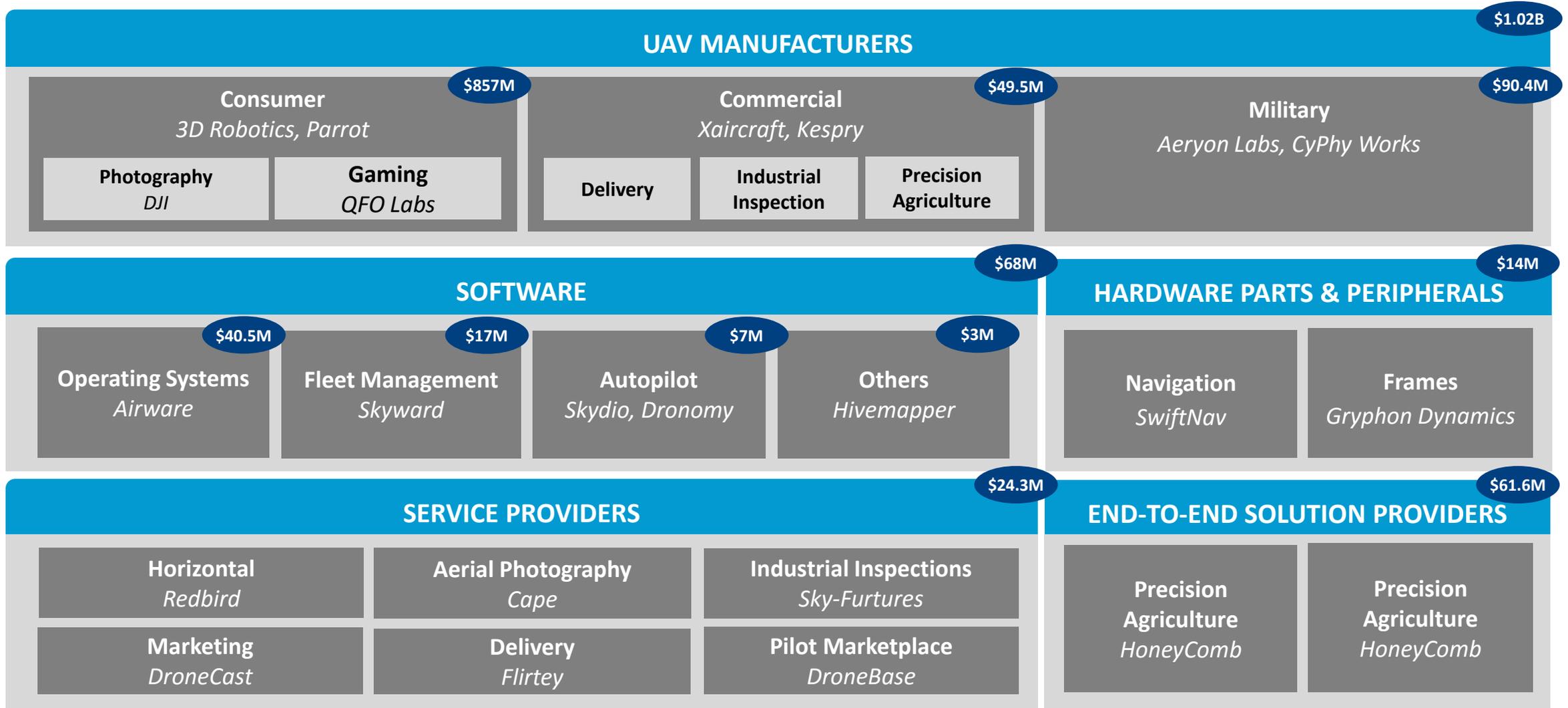
More late stage rounds have been observed in 2015

Early Stage & Late Stage Funding Rounds Year-on-Year



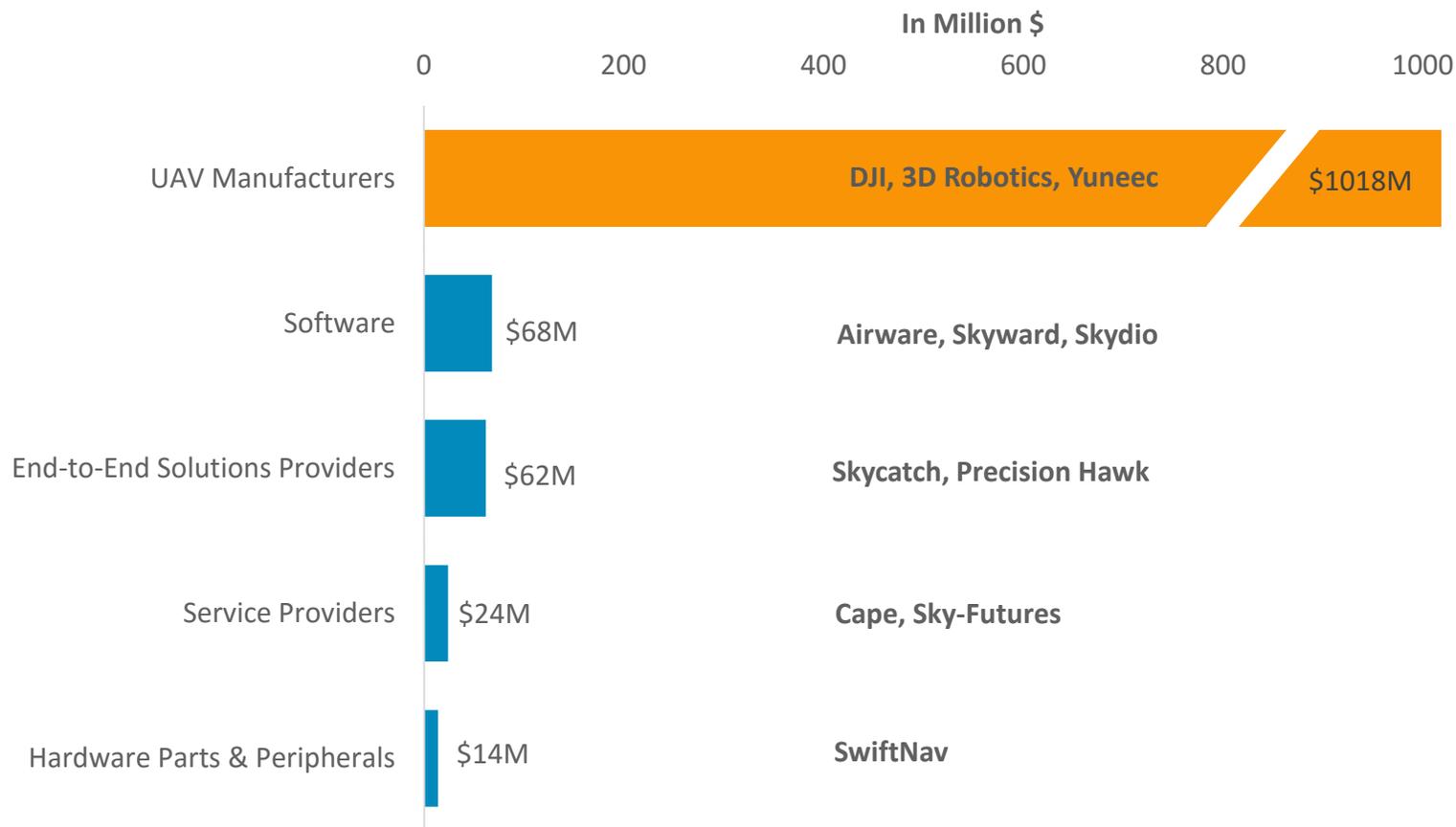
- Early stage rounds includes seed, angel & series A investments. Series B & onwards are considered as late stage investment rounds.
- There has been an increasing trend in the number of both early stage & late stage rounds.
- Number of late stage rounds is increasing at a faster rate than rise in numbers of early stage rounds, which shows how promising the sector is.
- Major chunk of late stage funding has been invested in UAV Manufacturers, esp. in consumer sector.

Drones – Market Map

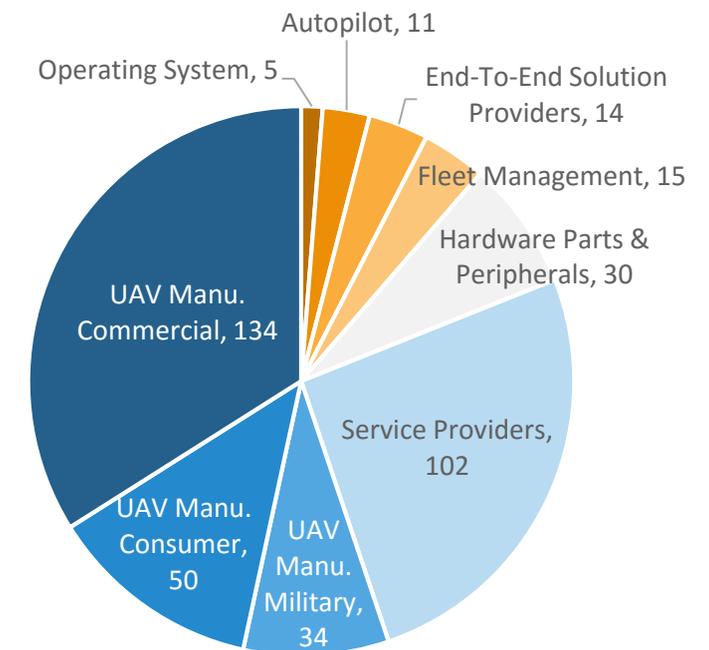


With half of the companies being UAV Manufacturers, the sub-sector bagged 85% of the total funding

Cumulative funding across major sectors since 2010

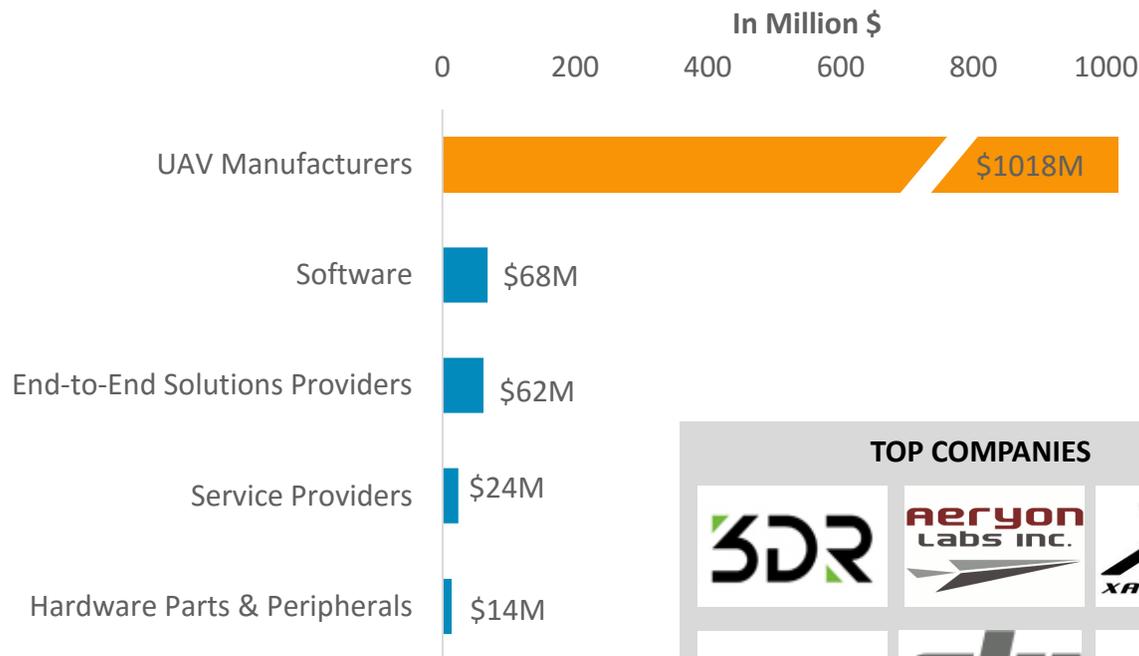


Number of companies within different sectors

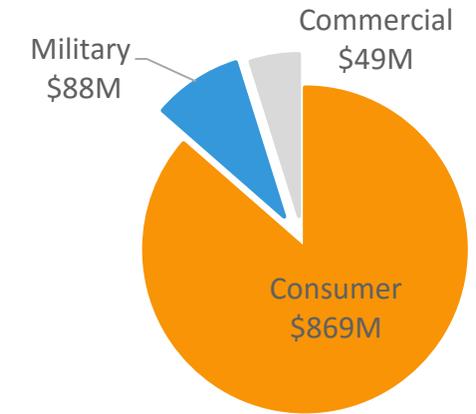


UAV Manufacturers Teardown: Exponential rise in consumer drones funding

Cumulative funding across various sectors in drones since 2010



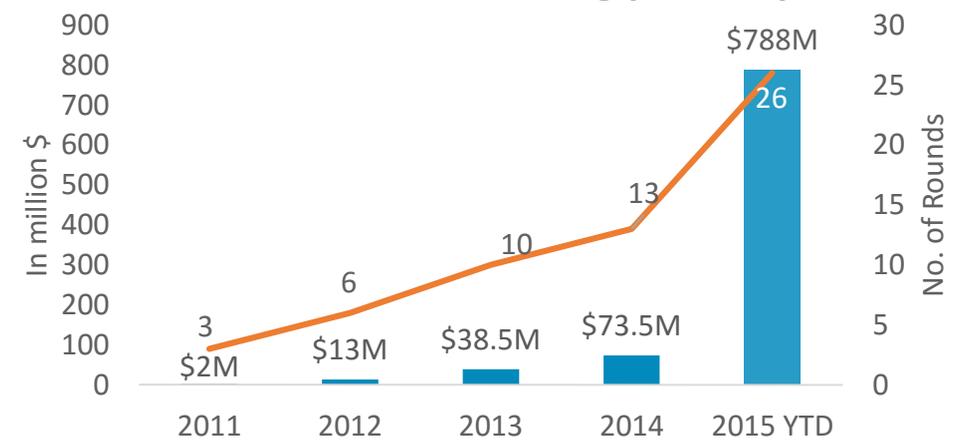
UAV Manufacturers have received around 90% of the total amount invested in 2015 YTD, with consumer drones manufacturers grabbing ~80% (\$760M) of this.



Funding In Different Sectors In UAV Manufacturers



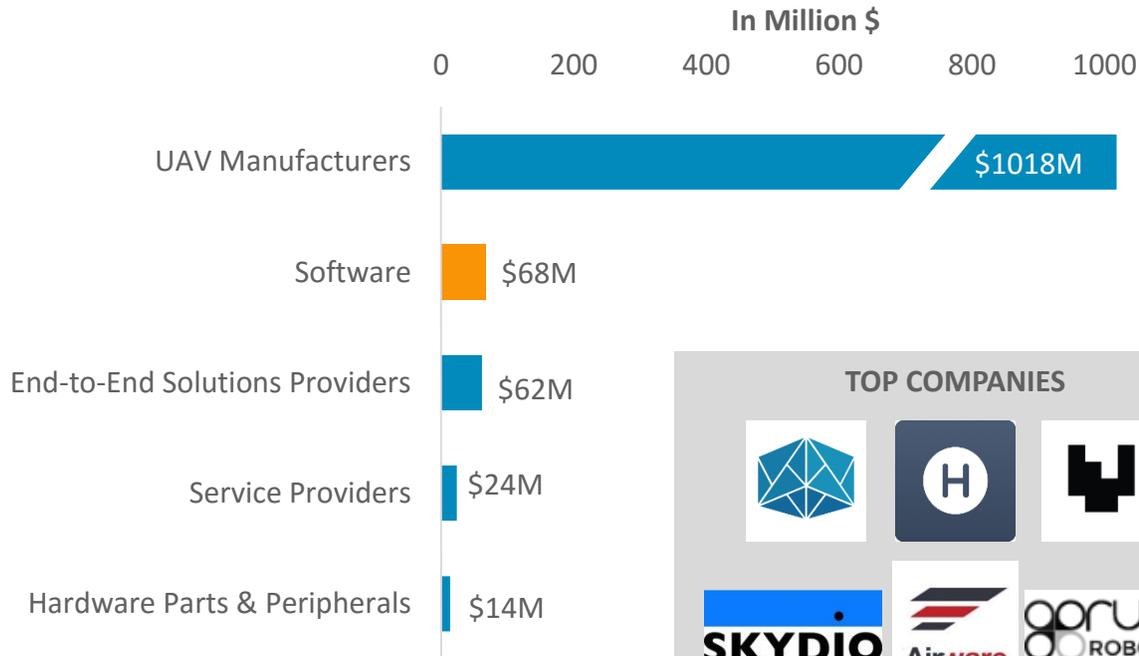
UAV manufacturers funding year-on-year



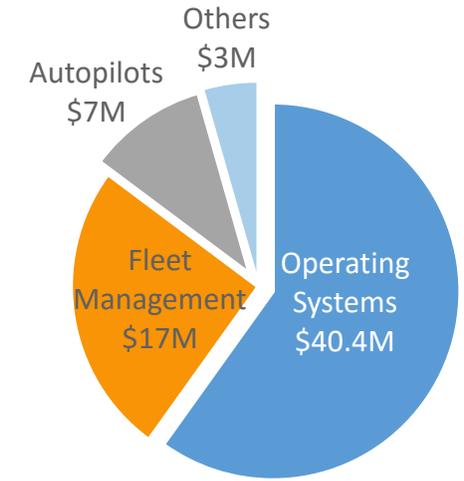
Funding CAGR 256% (2011-2015)

Software Teardown

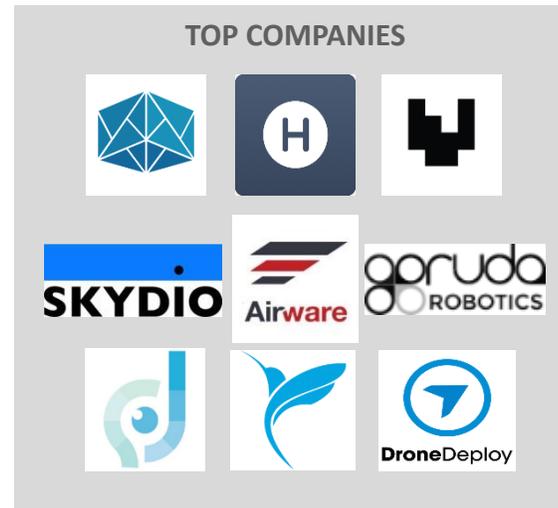
Cumulative funding across various sectors in drones since 2010



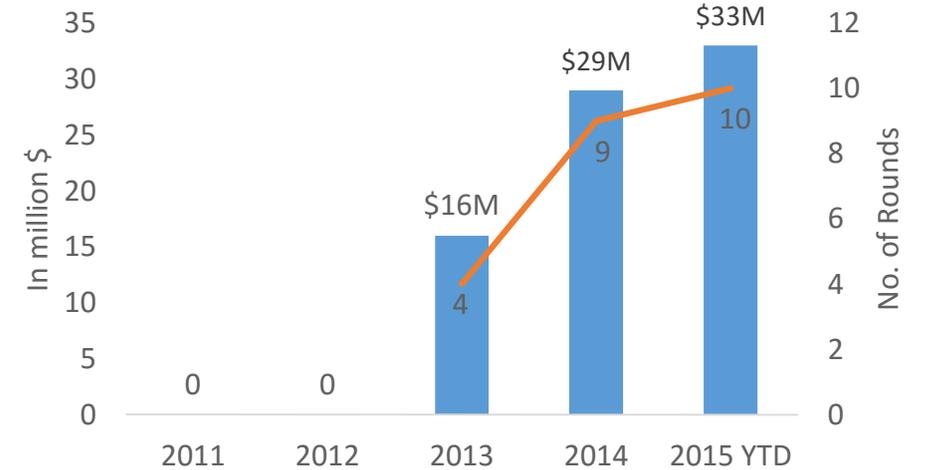
Softwares for drones started getting attention from investors since 2013. With majority of the funding being grabbed by Airware alone.



Software Market Sub-segments



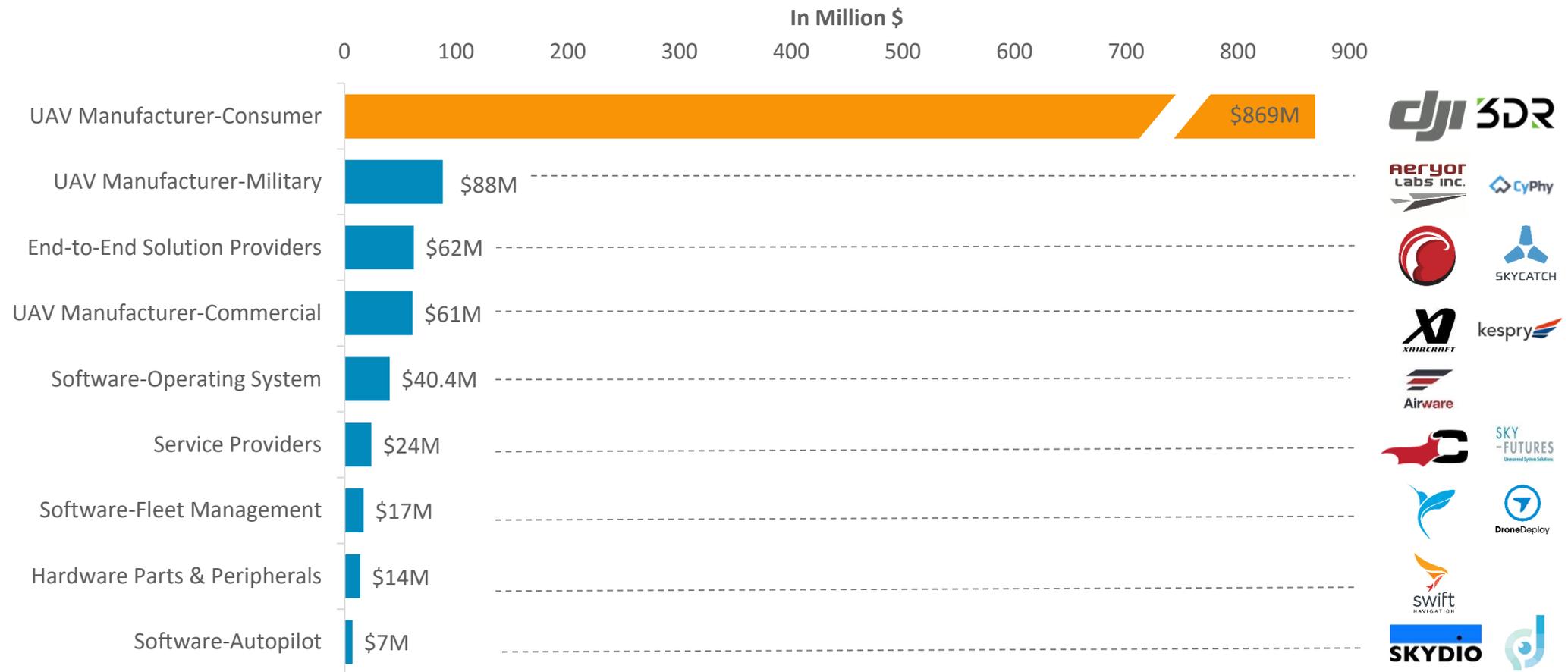
Software Funding Year-on-year



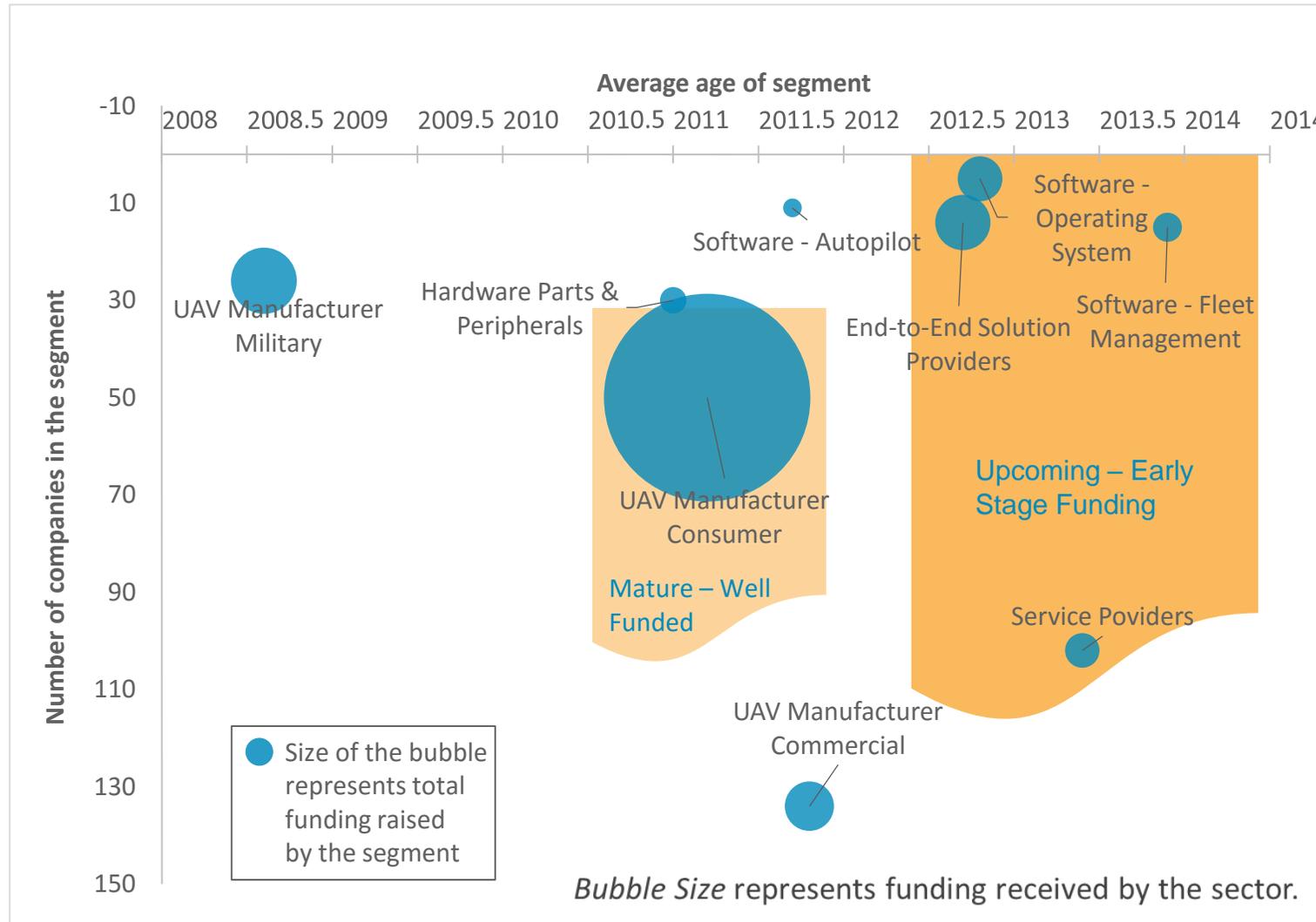
Funding CAGR 33.5% (2014-2015)

Consumer UAV manufacturers is the top funded sub-sector

Cumulative funding across various sectors in drones since 2010



Average age of various segments within the drones sector



- Average age of UAV Manufacturers—Military does not include giants like Boeing, Northrop Grumman, Lockheed Martin & General Atomics.
- Service providers despite of being an upcoming sector has a lot of companies and has recently started bagging funds. Cape bagging \$10M from NEA in October 2015.
- Consumer UAV Manufacturers have bagged huge amounts of funds in last 3 years. DJI has already crossed the bar of \$1B in valuation making it the only unicorn in the sector. Its competitors like 3D Robotics, Yuneec & Parrot too have got huge investments this year.

Most Active Investors

	Qualcomm Venture	Andreessen Horowitz	Felicis Ventures	Techstars	Drone.vc	Intel Capital	Google Ventures	Commercial Drone Fund	Start-up Chile
UAV Manufacturer Consumer	3D Robotics					Yuneec			
UAV Manufacturer Commercial	Inova Drone	Matternet		Inova Drone	Prenav, Vayu				Aerial Power
UAV Manufacturer Military			Cyphy Works						
Software		Airware, Skydio	Airware	Skyward	Airware, Vertical AI	Airware	Airware, Hivemapper		Archon Dronics
End-to-End Solution Providers	Skycatch					Precision Hawk	Skycatch		Event 38
Hardware Parts & Peripherals	SwiftNav, SkySense		SwiftNav	SkySense	Mavrx				
Service Providers					DroneBase			Cape, Sky-Fututres, Redbird	

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Drones- Company List

DETAILS OF 409 COMPANIES
(77 FUNDED AND 332 UNFUNDED COMPANIES)

COVERS THE FOLLOWING SECTORS

UAV Manufacturers - Consumer	UAV Manufacturers - Commercial	UAV Manufacturers - Military	Software	End-To-End Solution Providers	Hardware Parts & Peripherals	Service Providers
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UAV Manufacturers – Consumer (1/13)

Company	Details	Funding	Investors
 3DR Consumer	<p>3D Robotics [Berkeley, 2009]: 3D Robotics manufactures consumer drones for photography & other purposes. UAV products includes Solo, a smartphone controlled camera based intelligent drone; IRIS+, an easy-to-use fully autonomous (follow me technology based) small drone. Developed Pixhawk, an open source autopilot system which is utilized in the drones it develops. It is the manufacturing arm of the DIY Drones community at diydrones.com. Has offices in Berkeley, San Diego and manufacturing operations in Guangzhou, China.</p>	\$99M	True Ventures, O'Reilly AlphaTech Ventures, Qualcomm Ventures, Foundry Group, Mayfield Fund, SK Ventures, Atlantic Bridge, SanDisk, WestSummit Capital
 EHANG Consumer	<p>Ehang [Guangzhou, 2014]: Ehang, Inc. offers smartphone controlled consumer UAV called Ghost Drones. Creates and develops aerial systems for recreational and commercial usages. It does not requires a remote controller to carry around rather it works on a smartphone and a small G-Box. Winner of Tilt Video pitch contest at Tech Crunch Disrupt 2014. Headquartered in San Carlos, USA along with offices in Beijing and Guangzhou in China as well. Raised \$112k in crowdfunding pre orders on IndieGoGo. Xiaoping Xu (founding partner and executive director of ZhenFund), Nick Yang (venture partner at ePlanet Capital) also participated in the Series A round.</p>	\$52M	GGV Capital, PreAngel, ZhenFund
 Parrot Consumer	<p>Parrot [Paris, 1994]: Parrot designs, develops and markets UAVs that connect with smartphone or tablet, and AR/VR headsets. Currently focused on automotive, civil drones and connected objects. Parrot is expanding on the UAV market with the Parrot AR.Drone, a quadcopter piloted via Wi-Fi and using augmented reality and so with new solutions to address the UAV market for professional use. Manufactures a wide array of drones, and is listed on NYSE Euronext Paris since 2006. Was a leader in automotive infotainment area before it ventured into mobile application platforms. Acquired DiBcom, a fabless semi-conductor company in July'11. Invested in MicaSense, software provider to collect data on agriculture crops; and Airinov, provider of UAV farming applications and sensors in 2014.</p>	\$35.1M	Bpifrance
 Asi Consumer	<p>Awesomesauce Labs [Los Angeles, 2014]: Awesome Sauce Labs developing flying camera drones to capture personal shots.</p>	\$50k	March Capital Partners, Queensbridge Venture Partners, LLC

UAV Manufacturers – Consumer (2/13)

Company	Details	Funding	Investors
	<p>xCraft [Sandpoint, 2015]: xCraft has developed the X PlusOne UAV. A hybrid drone that combines both stabilized hover and fast forward flight. Also developed PhoneDrone Ethos, a remarkable device that smartphones wings, allowing user to deploy iPhone or Android phone as an autonomous aerial camera. They have leveraged sensor, processor, and wireless capability of smartphone to make it a powerful, cloud-connected aerial vehicle.</p>		
<p>Consumer</p>			
	<p>Prodrone Technology [Shenzhen, 2015]: Prodrone is developing Byrd, a portable, foldable quadcopter with removal 3-axis camera gimbal and ground control station. The drone sized as an ipad when folded but is 4 inches thick & the whole system weighs about 4 pounds including removable 7,000mAh battery which can reach up to 30 minutes of flight (depending up on flying speed & wind conditions). The product is supposed to be out in November 2015 for preorders. Its standard version is priced at \$950 & advanced version at \$1060. Priced at \$1,400, the premium version includes a 4K-resolution camera with a 3-axis gimbal for image stabilization that can be swapped for an infrared camera, a GoPro-ready gimbal or future add-ons.</p>		
<p>Consumer</p>			
	<p>Ebotic [Palo Alto, 2015]: Ebotic, a personal flying robotics company, developing a drone that performs tasks autonomously indoors and outdoors via voice commands. It contains sensors like a camera, radar, microphone, GPS, and actuators. Also provides easy-to-use APIs for obstacle avoidance, indoor mappings and self-localization for developers.</p>		
<p>Consumer</p>			
	<p>Manna [Stanford, 2015]: Manna is building an intelligent, personal drone that can do more than one application. This drone receives commands interacting with smartphones and making that on the internet and autonomous, instead of human-controlled, enables everyday people to use this technology.</p>		
<p>Consumer</p>			

UAV Manufacturers – Consumer (3/13)

Company	Details	Funding	Investors
	<p>Endurance Robots [San Francisco, 2015]: Endurance specializes in developing drones and robotic product targeting the consumer applications. Products includes laser cutters accessory for 3D printers, telepresence robot (rig), UAV quadcopter (under development). Developing Selfiebot, a smartphone holder, providing features like motion auto-tracking during video calls and recording, wireless charging of mobilephone devices and night vision for them. As of early Sept, 2015, they are aiming to raise \$20K through crowdfunding campaign on Indiegogo, a global crowdfunding platform. The company is a startup by ex-NASA contractor Matteo Borri and Russian entrepreneur George I Fomitchev, founded on Jan 11, 2015.</p>		
<p>Consumer</p>			
	<p>Ascent AeroSystems [Newtown, 2014]: Ascent AeroSystems develops and manufactures small unmanned aerial vehicles. Developed a unique coaxial vehicle configuration that is more portable, more durable and simpler to operate than typical multi-rotor designs. It is a highly scalable platform and ideally suited for recreational, professional, commercial and military applications.</p>		
<p>Consumer</p>			
	<p>AirButlr [Ypres, 2014]: AirButlr is an autonomous flying drone for indoor applications. It automatically cleans windows and keeps grass looking neat and tidy by using various AirButlr applications. The lawn mowing application and window cleaning application are hold in the base station which is a small box where AirButlr can be found in his state of rest or when it's charging. The AirButlr will inspect the house for dirt on a regular basis. When a housekeeping command was given the base station will automatically mount the right application on the AirButlr. The AirButlr will transport the right application to the right spot for cleaning it.</p>		
<p>Consumer</p>			
	<p>Erle Robotics [Alava, 2014]: Erle Robotics is developing artificial brains for robots and drones based on Linux. These brains build intelligence using the Robot Operating System (ROS) and have access to a cloud-based app store for robots and drones. Developed Erle-spider, a low cost robot and drone platforms developed to help in the process of learning, research and development of new ideas; and Erle-Copter, a Ubuntu Core powered drone along with SDK to develop apps to control it.</p>		
<p>Consumer</p>			

UAV Manufacturers – Consumer (4/13)

Company	Details	Funding	Investors
	<p>Emelody Worldwide [Atlanta, 2014]: Emelody Worldwide, a technical consulting and innovation company contains two divisions entitled Emelody Research Group and Emelody Inspirations Group. Emelody Inspirations Group maintains and supports the development of a radical next generation UAV aircraft, “Vindicatore”, which claims to differ from the existing technologies and having advanced aerodynamics.</p>		
<p>Consumer</p>			
	<p>ShenZhen Idea-Fly [Shenzhen, 2011]: ShenZhen Idea-Fly specializes in the R&D, manufacture, and sales of multi-rotor aircraft. Manufactures commercial and recreational unmanned aerial vehicles (UAV) for aerial photography and videography. Developed several multi-rotor products like IFLY-4, IFLY-4S, Mars-550, Apollo, Hero-550 & Storm-800. Also designed flight controller IFLY-V4M.</p>		
<p>Consumer</p>			
	<p>TechJect [Atlanta, 2011]: TechJet designed a Palm-sized robot 'Dragonfly' that flies like a bird and hovers like an insect. Designed for aerial photography, advanced gaming, R&D and security. The unique feature of this drone is that it not only hovers but also can glide for greater accuracy of movement. Research began on Dragon fly through a grant of \$1M from US Air Force. Raised more than \$1.1M on Kickstarter in 2012 from more than 3k backers.</p>		
<p>Consumer</p>			
	<p>Hubsan [Shenzhen, 2010]: Shenzhen Hubsan Technology is engaged in research and development, production and sale & sales service for hobbies and toys. Designs and manufactures consumer toys products like, helicopters, planes & Quad copters with auto-pilot capabilities, including the NANO Q4 and HUBSAN FPV X4, marketed as two of the worlds smallest quadcopters.</p>		
<p>Consumer</p>			

UAV Manufacturers – Consumer (5/13)

Company	Details	Funding	Investors
	<p>Robosoft Systems [Mumbai, 2008]: Robosoft is a robotics startup which designs air duct inspection for air-conditioning companies and aerial crop inspection robots. Robosoft designs and manufacturers microcontroller development tools and small single-board computers that are used by electronic engineers and hobbyists. Robosoft also develops Robotics Labs for various engineering colleges and conducts workshops for students interested in Robotics. It has Blue Star, Indian Navy and IIT Bombay among its clients.</p>		
Consumer			
	<p>Cheerson Hobby [Shenzhen, 2003]: Cheerson Hobby is a professional remote control toys and drones manufacturer. They have been researching, designing and manufacturing RC toys since 2003 under the name of Shantou SLH Toy Factory. In 2011, they restructured and became the Guangdong Cheerson Hobby Technology Company Limited. They appear to have a good global reputation and currently export their products all over the world. Cheerson drones include the CX-10, the CX-20 Auto-Pathfinder and the CX-30W. However, the company is not limited to quadcopters. They also produce RC helicopters and planes, although their focus is shifting more toward multicopter toys. The company and their 13,000 square foot manufacturing facility are located in Guangdong, China.</p>		
Consumer			
	<p>Walkera [Guangzhou, 1994]: Walkera involves in research & development, manufacturing & marketing of consumer drones. They have designed a variety of quadcopters for photography and FPV purposes. Products includes Scout X4 FPV, a lightweight, little & efficient quadcopter; Runner 250, a GPS based racing quadcopter; and many other entertainment and hobbyist drones.</p>		
Consumer			
	<p>DJI [Shenzhen, 2006]: Dajiang Innovations (DJI) is a developer and manufacturer of camera based consumer drones and its hardware peripherals. The product lines cover high-end UAV flight control system and ground control system, professional aerial photography drone platform, commercial Gimbal system, as well as an intelligent model aircraft products and high-precision control module. Main product line includes Phantom line of camera based quadcopters. The company was valued at \$8-10B during the latest round of funding.</p>	\$605M	Accel Partners, Sequoia Capital, GIC, New China Life Insurance Co., Ltd., New Horizon Capital
Consumer - Photography			

UAV Manufacturers – Consumer (6/13)

Company	Details	Funding	Investors
 <p>Consumer - Photography</p>	<p>Yuneec [Shanghai, 1999]: Yuneec International manufacture manned & unmanned aircrafts. It develops remote controlled, ready-to-use out of the box, camera supported quadcopters & hexacopters. Manufactures over 1 million units a year, sold under the Blade, Parkzone, E-Flite, Firebird, Firebird XL and Q500 brands. Also provides ground camera stabilization systems for cameras to record high quality action sports. Markets its manned aircraft in America through GreenWing International. The company hold 50+ patents. The HQ is in Shanghai, China. Has offices in Hong Kong, Los Angeles and Hamburg.</p>	\$60M	Intel Capital
 <p>Consumer - Photography</p>	<p>Flypro [Shenzhen, 2012]: Flypro is a smartwatch-controlled drone maker. The drone has an automatic-follow function at 330 feet or 100m distance as well as a tracking photo shot function. The watch can control the drone as it takes off or lands and adjust the flight speed. Based in Shenzhen, the company is involved advanced flight control systems, visual positioning systems and sonar technology.</p>	\$12.5M	
 <p>Consumer - Photography</p>	<p>AirDog [Palo Alto, 2013]: AirDog, a product of Helico Aerospace Industries is a fully autonomous personal 3D printed action sports drone. AirDog is a small, foldable quadcopter, especially designed for video shooting action sports with the GoPro camera. Users need to wear a wrist-strapped controller called AirLeash that the AirDog will follow. It can take off and land automatically and uses gyro stabilisation technology to ensure the subject is always in frame. Raised \$1.37M on Kickstarter with a goal of \$200K. Konstantin Othmer, Harry Cheung, Vinny Lingham, Chris Hulls and Arthur Watson also participated in the Seed round.</p>	\$2.5M	Seraph Group, Takehiro Shirai, FlyCap, Imprimatur Capital
 <p>Consumer - Photography</p>	<p>Aheadx [Beijing, 2014]: Aheadx is a Chinese startup company that designs & manufactures consumer drones. Their first product is Transdrone A4, which is named after its ability to fold up into something the size of an A4 piece of paper. This drone features 4000mAh capacity smart battery, auto follow module and comes with a clamshell remote control. The company also sells parts and components to make drones. The company received a seed funding of \$2M by Avenue Capital in Aug, 2015</p>	\$2M	Avenue Capital Group

UAV Manufacturers – Consumer (7/13)

Company	Details	Funding	Investors
 Consumer - Photography	<p>Lily Robotics [Menlo Park, 2013]: Lily is a throw and shoot camera mounted drone enabled with auto-follow technology. It automatically follows and focuses the user without any controller needed. This water proof drone can record videos at 1080p, slow motion with 720p and image captures 12MP. Started in the basement of UC Berkeley robotics lab, where Henry and Antoine built the first prototype using a Raspberry Pi and an Arduino. Supported by investors like Shana Fisher and SV Angel since 2014.</p>	<p>\$1M</p>	<p>Dorm Room Fund, Slow Ventures, SV Angel, Upside Partnership, Winklevoss Capital Management</p>
 Consumer - Photography	<p>Fleye [Liege, 2014]: Fleye is the first consumer friendly flying camera having features such as 360 panorama, people tracker, follow-me mode & more. With original form factor (spherical form) and smart control software makes Fleye safe, robust and extremely easy to use. No piloting skills needed to take awesome aerial photography and video as this robot is autonomous and can be controlled by a smartphone app. Also provides APIs and SDK for development of its app.</p>		
 Consumer - Photography	<p>Easy Aerial [New York City, 2014]: Easy Drone is an advanced, modular quadcopter designed for videographers that need quick, easy and affordable aerial shots. Is a plug-and-play aerial filming platform, incredibly compact and easy to assemble. Has a flight time of 45mins. Raised \$21k through a campaign on Kickstarter.</p>		
 Consumer - Photography	<p>Seraphim [San Diego, 2014]: Seraphim is a consumer robotics company that has developed Seraph, a camera drone for aerial footage with a flight time of 45 minutes. It is having active object avoidance and intuitive design that produces non-shaky footage. It is a good product for skiers, snowboarders, mountain bikers, and other adventure sports enthusiasts.</p>		

UAV Manufacturers – Consumer (8/13)

Company

Details

Funding

Investors



Consumer -
Photography

Fotokite [Zurich, 2014]: Fotokite has designed and is ready to manufacture Fotokite Phi, a foldable drone-kite for GoPro Hero cameras that offers video recording at various angles and can be easily controlled by hand gestures. Enabled with Gesture flight control, this drone is easily portable and have safe and secure propellers. Raised \$115K in 2 days in a campaign for \$300K target in a month.



Consumer -
Photography

Carbon Flyer [Columbus, 2014]: The Carbon Flyer has been designed and engineered by Trident Design LLC. The Carbon Flyer is an all carbon fiber personal drone, controlled by Bluetooth, with an onboard video camera. Carbon Flyer airframe is assembled using carbon nanotube enhanced epoxy which creates bonds stronger than steel welds. Raised \$330k for pre orders on IndieGoGo.



Consumer -
Photography

Zano [Swansea, 2014]: Zano is an ultra-portable, personal aerial photography and video capture drone. The size is small enough to fit in the palm of a hand and has an autopilot system insalled. Zano connects directly to smart phone via onboard WiFi and enables user to instantly begin capturing through the onboard camera system. Raised \$2.64M in pre orders on Kickstarter, a crowdfunding platform.



Consumer -
Photography

Nixie [Mountain View, 2014]: Wristband capable of transforming into quadcopter that flies, takes video and photos. Currently in development. Winner of Intel's make it wearable challenge (prize money \$500k). Currently in active development.

UAV Manufacturers – Consumer (9/13)

Company	Details	Funding	Investors
 <p>Consumer - Photography</p>	<p>Vektor [San Francisco, 2014]: Stealth mode company. Vektor produces micro-drones which can be used for personal everyday use. The drone has autonomous control with no flight training required on the part of the user. Users can also post footage via Vektor’s app. Founding team is from UPenn and UC Santa Barbara.</p>		
 <p>Consumer - Photography</p>	<p>Squadrone System [Palo Alto, 2014]: Hexo+, a product of Squadrone System, is an intelligent drone that follows and films the user autonomously. The copter communicates with the user's iOS or Android smartphone using the MAVLink protocol. Hexo+ provides a mobile app to select the drone’s starting position and frame the shot it should take. Users can specify from which angle the drone should shoot and how far away it should hover from its subject. As the subject moves, the drone moves with them to provide a continuous shot. The drone employs trajectory anticipation algorithms in order to make sure that the drone will be able to smartly predict the user's path and won't be lagging behind. Raised \$762k on Kickstarter till date of an initial goal of \$50k.</p>		
 <p>Consumer - Photography</p>	<p>Vantage Robotics [San Francisco, 2013]: Vantage Robotics has designed a fold-able & collision tolerant quad-copter drone with 4k camera controlled by smart phone. This drone is capable of flying for 20 mins with a top speed of 30 mph and automatically tracks user. Comes with features like auto sequences (preset features for professional photographic shots), auto ground avoidance, make sure to return back when battery is about to end. The product is available for pre-order on their website.</p>		
 <p>Consumer - Photography</p>	<p>AirDroids [Washington D.C., 2013]: AirDroids designs and manufactures drone hardware and software for the consumer and commercial marketplace. The Pocket Drone is the first product from AirDroids. It is a heavy-lift microcopter capable of lifting a HD action sports camera high into the air but folds up smaller than the footprint of a 7in tablet. It also has lots of advanced features found in high end devices but retails for less than \$500. The company leadership are also the founders of the Drone User Group Network, the largest community based organization in the U.S. focused on making UAV and autonomous flight technology available to everyone. The Director of Engineering is a mechanical engineer and a patent attorney. They have an in-house drone design lab and a full machine and prototyping shop (including desktop injection molding machines, CNC mills and 3D printers). Raised \$930k on kickstarter for pocket drone pre-orders in March 2014.</p>		

UAV Manufacturers – Consumer (10/13)

Company	Details	Funding	Investors
 Consumer - Photography	<p>DreamQii [Toronto, 2012]: DreamQii has developed drones that can fly together in a coordinated 'swarm', all controlled through a single mobile device. DreamQii's PlexiDrone is specifically aimed at photographers and filmmakers. The company boasts that users can fly up to 30 drones at once using the PlexiHub, a Bluetooth device that acts like a router between the app and aircraft. Raised \$2.26M in pre-orders on IndieGoGo, a global crowdfunding platform.</p>		
 Consumer - Photography	<p>Extreme Fliers [London, 2007]: Extreme Fliers designs, develops and manufactures quirky and innovative toys. Products include Micro Drone quadcopter, Robocopter and Terror Wasp which use advanced electronics and sensors. Developed Micro Drone, a tiny flying drone for live streaming of videos in HD quality. The company raised \$2.7M for its Micro Drone 3.0, through Indiegogo, a global crowdfunding platform.</p>		
 Consumer - Photography	<p>Mota [San Jose, 1999]: Mota is a wearable and consumer electronics manufacturing company. Its products include 3D printers, Drones, Smart watches, Smart Glass, Battery cases and Power Banks. Mota's 3D printer is a low-end, low cost FDM 3D printer which supports PLA and ABS with a maximum print size of 6.5 x 6.1 x 6.1 inches. MOTA SmartWatch G2 Lite is a wearable device with the ability to pair with both iOS and Android devices. The SmartWatch integrates with Siri and Google Now. The watch can be used to easily setup appointments, send emails, check the weather, etc. Works with Bluetooth version 3.0 and has a charging time of 2-3 hours. A 3D Interactive Glass, MOTA SmartGlass, is currently under development. Features include voice dial, data record, remote control camera etc. Also working on a Drone called MOTA Drone Hawk, which is a Quadcopter with a Cx20 AUTO-Pathfinder GPS guidance and Stability Mode on board and a flight time of 15 minutes and 2700 mAh Power. Its another drone product is MOTA iOS Helicopter, which can be controlled with the user's iPhone, iPad, or iPod Touch. Provides a free app which allows the user to easily dictate the helicopter's flight path from all directions. Also manufactures Battery Cases for iPhone and Samsung mobiles and Universal Power Banks like Power Block, Power Stick and Card Charger.</p>		

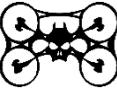
UAV Manufacturers – Consumer (11/13)

Company	Details	Funding	Investors
 Consumer - Gaming	<p>QFO Labs [Minneapolis, 2010]: QFO Labs develops, manufactures and sells high tech gaming drones. Products include Quad Fighter, a quad-copter designed to fly in small indoor areas, having rugged, lightweight construction, four moving parts and a design flipped upside-down from the conventional designs to increase the efficiency. Also provide Mimix, a tilt based controller for Quad Fighter. By tilting the controller forward, back, left or right its maneuverability can be controlled. The complete set is available at \$99.99 from their website.</p>	\$200k	
 Consumer - Gaming	<p>Axis Drones [Macedon, 2015]: Axis Drones specializes in beginner friendly quadcopters for first time pilots and kids interested in learning the mechanics of quadcopter and drone flight. Products include small UAVs like, Wallet drone, Turbo-X drone, Nano drone & Aerius. Axis Drones is a division of Morrison Innovations, LLC.</p>		
 Consumer - Gaming	<p>B Go Beyond [London, 2015]: Vitenzo designed a remote controlled hybrid car-helicopter with a patent pending design. 'B' is vehicle (regular four-wheeled RC) capable of driving across difficult terrain using its large rear drive wheels. When obstacles become too big, it simply take-off and fly over them using four propellers that are housed within its wheels. These propellers can generate enough lift to turn the B into a quadrocopter. Designed by Witek Mielniczek, a PhD student at University of Southampton, has previously worked on a DARPA-contest-winning HALO Unmanned Aerial Vehicle. Aims to raise \$77k through a campaign on Indiegogo, a global crowdfunding platform. First vehicles are estimated to start shipping in December, 2015 after the success of the campaign.</p>		
 Consumer - Gaming	<p>Skyrocket Toys [Los Angeles, 2010]: Skyrocket specializes in building original, innovation driven, television advertised toy brands. Provide Sky Viper brand of drones which includes low cost, multi-copter RC drones for indoor & outdoor entertainment & gaming. Also develops and manufactures OEM products for top video game and other consumer products companies.</p>		

UAV Manufacturers – Consumer (12/13)

Company	Details	Funding	Investors
	<p>Syma Toys [Guangdong, 2005]: Syma Toys is consumer drones manufacturer based in China. Manufactures a X-series of quadcopters & S- series of mini-helicopters.</p>		
<p>Consumer - Gaming</p>			
	<p>FLYBi [Hexham, 2014]: Advanced Robotix Corp. has designed a flying drone, FLYBi, that comes with a set of Virtual Reality goggles. These head-tracking goggles provide a direct control to user to look around using the HD camera installed at the base of drone. This drones is available is four different colors, have features like obstacle detection and avoidance, auto return and collision tolerance. It carrying case includes its controller and an extra-pair of batteries. Raised \$40k on a campaign goal of \$35k on Indiegogo (a global crowdfunding platform) with 13 days remaining in the campaign deadline.</p>		
<p>Consumer - FPV</p>			
	<p>Sky-Hero [Brussels, 2012]: Sky-Hero designs and manufactures multirotor consumer drones that made of carbon fiber material. Products includes a tricopter, Spy; quadcopters, Anakin, Little Spyder & Spyder; & hexacopters, Spyder6 & Little Six. These drones are fast & safe for the purpose of FPV racing & carrying payloads.</p>		
<p>Consumer - FPV</p>			
	<p>Flexbot [Los Angeles, 2012]: Flexbot designs and manufactures quadrotor which can be controlled using a smartphone. The quadcopter has an Acc mode which uses the phone or tablet's gravity sensor to steer the copter just by tilting the mobile device. The phone communicates with the copter using Bluetooth 4, which gives a range of up to 50 meters. Users can customize their 3D printed shell by choosing from one of 3 shell designs and choosing a combination of colors for the different pieces of the shell. The quadcopter has another mode: Autopilot which does a job of stabilizing the copter in flight, and it is open-source and Arduino based. Raised \$0.5M on Kickstarter in Oct 2013.</p>	\$25k	HAXLR8R
<p>Consumer - DIY Kits</p>			

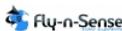
UAV Manufacturers – Consumer (13/13)

Company	Details	Funding	Investors
	<p>Skyworks Aerial Systems [Las Vegas, 2014]: Skyworks Aerial Systems is a hardware development company for small and adaptable unmanned aerial systems. Their product Qua.R.K is capable of delivering a variety of solutions to both civil and commercial entities. Qua.R.K multi-rotor copter families are small and versatile. They are designed to adapt to numerous applications including indoor, underground, and/or hazardous flights. Skyworks' Ground Control station is built on maximizing user experience with an enhanced graphics interface, industrial design and inter active manual. During flight, autonomous data collection is running in the back-end for diagnostics while an intuitive dashboard displays real-time sensor and telemetry data. Plug & Operate Devices (PODs) enable the Qua.R.K suite to undertake a variety of applications. Open software architecture and robust APIs allow for easy interfacing of software and algorithms for any POD. As of March 2015, they are taking pre orders on their website.</p> <p>Consumer - DIY Kits</p>		
	<p>Game of Drones [Scottsdale, 2011]: Game of Drones provides action sports airframe DIY kit that includes a frame, all other parts for developing a drone, and easy-to-follow, step-by-step instructions to build a bind-and-fly 'Hiro' drone. It is easy to assemble, have high-quality and durable components like RCMachind motors and ESCs and KK 2.0 HC flight board.</p> <p>Consumer - DIY Kits</p>		
	<p>Galileo [California, 2014]: Galileo is creating intelligent UAV systems that enhance human life and are accessible to people solving critical health, logistics, security, and entertainment challenges. Currently working on their products: UAV Systems, Jupiter OS and Apps for the Jupiter OS.</p> <p>Consumer - Security & Surveillance</p>		

UAV Manufacturers - Commercial (1/34)

Company	Details	Funding	Investors
 Commercial	<p>XAircraft [Guangzhou, 2013]: XAircraft is a multi-rotor design and manufacturing company hailing from China with a global footprint of International Distributors. Specialises in the design and development of all sized multi-rotor equipment for various types of applications from commercial to general. Offers XPlanet, an agriculture UAV system with ground control task pad & handheld taskmapper. And XMission, a multi-rotor UAV system, features weatherproof aerial platform, quick release smart payload modules, Android based all-in-one ground control task pad and XAirkey flight information system (FIS).</p>	\$20M	Chengwei Capital
 Commercial	<p>Kespry [Menlo Park, 2013]: Kespry designs and builds highly reliable drone systems for commercial applications. To achieve high standards of safety, productivity, and reliability, Kespry controls the design of each critical component. This attention to integrated design and reliability provides superior efficiencies and accelerates the delivery of advanced functionality. John Vrionis from LSVP joined Kespry as a board member.</p>	\$12.35M	Lightspeed Venture Partners, CHMod Ventures
 Commercial	<p>Delair-Tech [Toulouse, 2011]: Delair-Tech designs, manufactures and commercialises long endurance mini-drones with a fixed wing. The company's products include Big Map, Crop Map, Emergency Line and Environment Line. The company also develops payloads and ground control systems used in the extraction of data and image sensing. Its UAVs are used in the domains of industrial surveillance, environmental survey and aerial photography.</p>	\$4M	Parrot
 Commercial	<p>Top Flight [Malden, 2014]: Top Flight offers application-specific, cost effective commercial solutions of unmanned aircraft vehicles using the latest advanced technologies driving automation and safety. Has a strong founding team of experienced entrepreneurs and technology expertise from MIT, the FAA, Aerospace/aviation research, software product development and strategic partnerships in technology manufacturing. Top Flight has designed an open-platform modular approach to building feature-rich UAV solutions which includes hardware, software and services. Offers Airborg Series 800mm M4 Quad and 1000mm M6 Hex multi-rotor service-class commercial drones.</p>	\$1.75M	

UAV Manufacturers - Commercial (2/34)

Company	Details	Funding	Investors
	<p>Clear Flight Solutions [Enschede, 2012]: Clear Fight Solutions design and manufactures bird shaped drones called Robird. The tech can be applied to industries, including agriculture, waste management, oil and gas, and harbors. Completed a very successful trial at waste management site in Twente, which is one of the most challenging environments.</p>	\$1.7M	Cottonwood Technology Fund
Commercial			
PRENAV	<p>PRENAV [San Carlos, 2014]: PreNav developing a system that can automatically fly a drone within centimeters of a structure, allowing for close inspection of it by people who aren't expert pilots. PreNav uses a robot on the ground to scan and map an area, including vertical structures that need to be inspected. The ground robot guides a proprietary PreNav drone through a precise route. This system uses Lidar, laser-based sensors, to map an area and determine a flight path. PreNav unlocks new uses for drones by offering automated, repeatable flight paths. A few of the applications include: Motion control for aerial cinematographers; Inspections of structures like smokestacks, solar panels, and wind turbines; Navigation of the last 50 meters in urban/suburban environments for landing, delivery and recharging. Founders are Stanford University graduates. Incubated at Prebacked accelerator. Investors include Pejman Mar Ventures, Drone.vc, Oculus VR co-founder Michael Antonov and Toivo Annus.</p>	\$1.2M	Drone.vc, Pejman Mar Ventures
Commercial			
	<p>Fly-n-Sense [Paris, 2008]: Fly-n-Sense designs and sells autonomous, multi purpose and operational UAV Systems. Fly-n-Sense designs and sells compact and light UAV systems operating in autonomous or assisted mode, via a control ground station. The company also integrates tailored airborne systems within existing aircrafts (autopilot, video camera, acoustic and chemical sensors). The company's drones are used in Civil Security operations, industrial inspection, precision agriculture, etc. Also a member of the Aerospace Valley cluster and currently supported by EADS Development.</p>	\$1.2M	
Commercial			
	<p>Inova Drone [San Diego, 2014]: Inova Drone are developing drone systems that utilize advanced sensor technology combined with powerful software to enhance user experience. Developed Inova One, an intelligent and easy to use autonomous aerial system that is modular and design to be configurable for multiple applications having a flight time of 50mins and payload capacity of 10 pounds. This is designed for firefighters and other first responders working at public safety agencies. Powered by TechStars at the Qualcomm Robotics Accelerator.</p>	\$120k	Techstars, Qualcomm
Commercial			

UAV Manufacturers - Commercial (3/34)

Company	Details	Funding	Investors
	<p>Aarav Unmanned Systems [Kanpur, 2013]: Aarav Unmanned Systems (AUS) has developed and designed Nayan, a quadrotor for developers and researchers. It claims to be performing 3D mapping & Image Processing, precision agriculture, geographical mapping and survey, aerial photography, disaster/event management, and defence surveillance. Incubated by SIDBI Innovation and Incubation Centre, IIT Kanpur.</p>	\$40k	
Commercial			
	<p>Altavian [Gainesville, 2011]: Altavian manufactures unmanned aircraft systems for precision data collection in scientific and engineering applications. The company also provides data and deployment consulting services, data processing and advanced imaging services. It offers its unmanned aircraft systems for agricultural use, environmental surveillance, geomatics and mapping, and other commercial applications. Altavian is establishing a network of Certified Training Providers who teach the way to safely conduct drone operations and also explain the fundamentals of data acquisition and processing. Altavian also provides repairing services and ties up with third party data providers to collect, process and deliver the data to the clients.</p>	\$23k	Institute for the Commercialization of Public Research
Commercial			
	<p>Vinveli [Cedar Rapids, 2013]: Vinveli is a robotics & automation company providing solutions for agriculture, riot control and farms. Products includes Aero series of UAVs, (shaped like mini-aeroplane); Vero series drones (shaped like hexagon); Helio series of drones (shaped like mini-helicopters); these UAVs provides variable payload capacity, versatile payload capacities, endurance speed and range. Provides agriculture drones for pesticide sprays; riot control robots; wind-tower inspection drones. Founded by a team of University of Texas grads.</p>	\$20k	Iowa Startup Accelerator
Commercial			
	<p>Flyability [Lausanne, 2014]: Flyability is developing Gimball, a collision free drone. Gimball can be flown indoors and in complex environments: it can stay stable after collisions with obstacles and can thus be used where no other robot can. Furthermore, it is safe to fly close to humans. Their first target markets will be industrial inspection, entertainment, law enforcement and domotics. Won \$1M in International Drones For Good competition, beating out 20+ other teams for the prize.</p>		Go Beyond
Commercial			

UAV Manufacturers - Commercial (4/34)

Company	Details	Funding	Investors
	Shenzhen Smart Drone [Shenzhen, 2014]: Shenzhen Smart Drone designs and manufactures industry grade multi rotor drones. Its products are primarily used for ecological environment protection, aerial photography, geographical mapping, mineral resources exploration, disaster monitoring, traffic patrolling, power line patrolling, security monitoring, etc.		Northern Light Venture Capital, S.F.EXPRESS CO.,LTD.
Commercial			
	Aerial Power [London, 2013]: Aerial Power Limited has developed working prototypes for cleaning solar power panels in dry places, in order to raise the efficiency of solar energy, at large. Their SolarBrush drone cleans solar panels in arid regions, such as the desert, worldwide. Current application of manual cleaning and other semi-automatized solutions such as robots, are both costly and remain difficult to deploy. The SolarBrush is an unmanned areal vehicles (drone) for the cleaning of solar panels in arid regions.		Start-Up Chile
Commercial			
	Wysper Drones [Manila, 2015]: Wysper is a drone technology company currently in stealth mode. Currently focused on three products to improve and advance the drone market.		
Commercial			
	UAS Technology Systems [Charleston, 2015]: UAS Technology Systems offers custom development and design of UAS as per the task. Offers a mini helicopter drone, Eagle R10 Rotary, with a flight time of 1 hr having payload bearing capabilities.		
Commercial			

UAV Manufacturers - Commercial (5/34)

Company	Details	Funding	Investors
	<p>Dronica [Bergamo, 2015]: The company provides, for companies and individuals, service of photogrammetry and aerial video shots with technology SAPR and organize courses of training for pilots for the use of aircraft. Have developed equipment professional for various applications, Map-1, a small, reclosable and easily transportable quadcopter for surveys; Sentinel MP, a fixed-wing autonomous drone equipped with two inertial platforms, compasses and various types of sensors; and Titan 130, a hexacopter designed for professional photography.</p>		
<p>Commercial</p>			
	<p>AirV [Chicago, 2015]: AirView Corp is a startup that uses specialized UAVs for the placement of mobile sensors to structures for data gathering; by adding these mobile sensors to outdoor structures, significantly reduces the price for gathering data and expands structures. AirView is developing technology that allows for wireless charging of UAVs. Also developing UAV control technology that allows to have one UAV start a mission, then have another UAV continue the mission at the point the previous UAV stopped, either from a need to charge its batteries or a change in the mission. Since the technology handles this, there is no need for the operator to have to make these changes. Also offers Map-based GUI that will have an interface that emphasizes ease of use for the operator. All these technologies are being developed for smartphones to offer an ease to control the system.</p>		
<p>Commercial</p>			
	<p>EnviroDrone [, 2015]: EnviroDrone is a complete unmanned aerial system including mission planning and flight planning software that runs on any standard laptop or mobile device. Using an intuitive interface user can outline the area to be surveyed, or plan an exact route for the drone. Unpacking the drone and getting ready for launch takes less than 2 minutes. When it's time, just throw the drone into the air and begin working. When it's time to land, the system gives an option to land in an assisted mode where the drone is guided manually for pinpoint landings. Immediately after landing, the photos and data from the flight are downloaded. Effectively analyze fields, forests, quarries and other environments down to astonishingly precise detail. Their products are underdevelopment and are expected to be out in February 2016. There is a quadcopter and a fixed-wing available for purchase, both of which are custom made, hence price will depend upon the quality of sensors used.</p>		
<p>Commercial</p>			

UAV Manufacturers - Commercial (6/34)

Company	Details	Funding	Investors
	<p>Falcon Aerobotics [Scottsdale, 2015]: Falcon Aerobotics is developing unmanned aerial systems. They create aerial robotics solutions, as well as provide aerial imagery and data gathering services, Consultation services, and more.</p>		
Commercial			
	<p>Gigawick Aerial [Cedar Rapids, 2014]: Gigawick Aerial offers a wide array of hardware, application, and software for our end user commercial clients & public entities. Developed S.E.A.R.V (pronounced "SERVE"), a small unmanned aerial system, designed specifically for public safety, fire service, search and rescue, and emergency management missions.</p>		
Commercial			
	<p>Canard Drones [Madrid, 2014]: Canard provides AR UAVs that perform flight inspections, and support their platform to perform calibration of NavAids. Claims to reduce operational costs and downtime of closed runways, for the airport managers. Yet to launch their AR drones & platform as of Nov'15.</p>		
Commercial			
	<p>Aero360 [Chennai, 2014]: Aero360 is a designer, developer and manufacturer of Unmanned Aerial Vehicles for applications such as natural resource management, mapping, inspection, surveillance, disaster management and emergency response and aerial photography. Also building a platform for processing, storing and delivering high resolution images.</p>		
Commercial			

UAV Manufacturers - Commercial (7/34)

Company

Details

Funding

Investors



Aeroxo [New York City, 2014]: Aeroxo ave developed a new generation long range UAV platform with unprecedented flight characteristics and data gathering capabilities compared to any other commercially available drone system. Developed uniquely designed quadcopter, ERA-100, based on tilt-rotor technology that enables the drone to combine VTOL capabilities of a helicopter with the speed and range of a conventional fixed-wing aircraft.

Commercial



NMotion UAS [Wichita, 2014]: NMotion UAS provides cutting edge unmanned aircraft systems & solutions for Public Safety professionals during emergencies. These systems are engineered for rapid deployment when seconds count and require minimal training and are easy to use in the field. Currently in early development is a system that utilizes secured pathways to stream UAV data in real-time to select worldwide viewers.

Commercial



Alpha Unmanned Systems [San Sebastian de los Reyes, 2014]: Alpha Unmanned Systems is a designer, developer and producer of small Unmanned Aerial Vehicles. Holds expertise in enhanced technology integration, Flight Control Systems (FCS) and intelligent payloads for ISTAR missions and non-military tasks. Offers complete solutions including a completely integrated Ground Control Station (GCS), communications, control software and all accessories tailored to the client's requirements.

Commercial



Planck Aero [San Diego, 2014]: Planck Aerosystems delivers fully autonomous unmanned aerial systems for maritime applications, such as commercial and industrial fishing, as well as situational awareness, security, counter-piracy, and search & rescue. Provides a vessel-based, fully autonomous drone system for commercial and industrial fishing operations offering aerial imagery and automatic object detection, resulting in a massive reduction of fuel consumption for fishing vessels of all sizes.

Commercial

UAV Manufacturers - Commercial (8/34)

Company	Details	Funding	Investors
	<p>Altus UAS [Napier City, 2014]: Altus Unmanned Aerial Solutions is a manufacturer of professional UAS for wide-ranging applications. Their systems are of high specification with built in redundant systems, custom control interfaces and integrated emergency ballistic parachute. They build systems with class leading flight performance as well as all weather capabilities. Also perform photogrammetric processing for aerial survey and photography.</p>		
Commercial			
	<p>Novelty RPAS [Gliwice, 2014]: Novelty RPAS company specializes in designing and production of Remotely Piloted Aircraft Systems. The company is professional solutions manufacturer based on unmanned airplanes, rotor platforms and airships. Also offer their customers a range of services for application of Unmanned Aircraft Systems; provides consulting, training, delivery, implementation and maintenance of the unmanned systems. And also provides photogrammetric, surveillance and advertising services.</p>		
Commercial			
	<p>Biocarbon Engineering [Oxford, 2014]: Biocarbon Engineering is developing drone technologies to combat industrial scale deforestation. Developed a prototype tree planting drone, which offer scalable remote sensing technology to automate industrial scale re-forestation. The system works in three stages to significantly increase the planting rate (10x) while simultaneously driving down the cost of planting. They aim to develop a platform to plant 1 Bn trees each year.</p>		
Commercial			
	<p>Airborne Drones [Cape Town, 2014]: Airborne Drones is a manufacturer, developer & seller of commercial and industrial use long range FPV drones. Products includes A1 & A2 series of UAVs and ground controllers.</p>		
Commercial			

UAV Manufacturers - Commercial (9/34)

Company	Details	Funding	Investors
	<p>Sentien Robotics [Fredericksburg, 2014]: Sentien Robotics develops ground and aerial robots for surveillance, environmental monitoring, infrastructure inspection, national security, etc. Develop scalable swarm intelligence software, fast sensor data processing algorithms, and robust robot hardware.</p>		
Commercial			
	<p>XactSense [Providence, 2014]: XactSense produces the LIDAR mapping UAVs, sensor payloads and software for 3d modeling and mapping. Developed XactSense MAX-8 a utility drone with 48" 48" motor center to motor center and 17" propeller size having a flight time of 25mins and payload capacity of 20 pounds. Also provides gimble XactSense SSP-360 Stable Sensor Platform. Helped during Nepal disaster relief.</p>		
Commercial			
	<p>Sky front [San Diego, 2014]: Sky Front builds drones based on hybrid electric technology. Developed Tailwind, a drone with flight time of 4 hours, lightweight and efficient having a payload capacity of 2Kg.</p>		
Commercial			
	<p>Symbiosys [Veltem-Beisem, 2014]: Symbiosys builds, customizes and maintains multicopter RPAS systems. Currently in stealth mode.</p>		
Commercial			

UAV Manufacturers - Commercial (10/34)

Company

Details

Funding

Investors



Everbots [Mexico City, 2014]: Everbots provides a software layer for user to incorporate drone technology in their business. Sells hardware, software and analyses data. Offers drones, cameras, flight control boards and spare parts. Developed EVE01 quadcopter, an advanced, ready to use drone for transport as well as cinematography purposes. Also provides apps for the drone.

Commercial



FlyTech [Krakow, 2013]: FlyTech Solutions specializes in design and manufacture of complete UAV systems, conduct training and offers services based on drones. Provides unmanned surveillance system Fenix, for surveying, agriculture, and energy saving tasks. Office is located in Krakow, and a production facility in Rzeszow in the Polish Aviation Valley.

Commercial



Aerial Monitoring Solutions [Johannesburg, 2013]: Aerial Monitoring Solutions custom-design and custom-build multi-purpose robust and adaptable products for unmanned monitoring and surveillance. Products are completely programmable and designed for endurance flying both day and night and requires minimal training. The modular design of these products allows for easy transportation, individual customisation as well as minimisation of downtime during maintenance and repairs.

Commercial



AerialX [Vancouver, 2013]: AerialX Drone Solutions offers a variety of aerial services using home developed, custom-built, high-end Unmanned Aerial Vehicle (UAV) systems. Work with commercial UAS as well as military-grade drones. Integrating new types of payloads and introducing new system architectures to improve the performance and reliability.

Commercial

UAV Manufacturers - Commercial (11/34)

Company

Details

Funding

Investors



[Unmanned Aerial System](#) [London, 2013]: Unmanned Aerial Systems provides product development for sophisticated unmanned aerial systems for a range of professional and defense based applications.

Commercial



[DroneUA](#) [Kiev, 2013]: Drone.UA is a leading integrator of unmanned technologies in the Ukrainian market. The company operates in agriculture, energy and oil and gas industries as well as in the fields of geodesy and topography. Developed PD054 fixed wings autonomous aircraft for various industrial applications like precision agriculture, mining, etc. Also sales DJI's multirotor drones and all the required peripherals, sensors and software through its website. Focuses on development and implementation of industry-specific solutions based on the technology of drones, providing services using UAVs & processing of the obtained data.

Commercial



[Hanseatic Aviation Solutions](#) [Bremen, 2013]: Hanseatic Aviation Solutions develops and manufactures unmanned aerial systems and takes over the integration of various payloads such as cameras in the visible and infrared range, laser scanners and geo-magnetic sensors. There are two systems S180 (<5kg take-off weight) and S360 (<25 kg take-off weight) for a variety of missions. If required, the systems for individual missions can be adapted or new systems are being developed. The UAV will be supplemented in order to offer complete systems to be able to solutions for telemetry and ground stations.

Commercial



[Action Drone](#) [Chula Vista, 2013]: Action Drone creates and manufactures custom made drones for recreational and professional use. Their products includes AD1, a multi-purpose drone that features a well designed and highly stable carbon fiber frame, front mounted 2 or 3 axis gimbal with a vibration dampening system and foldable arms that act as side impact cushions. It can go 60+ mph and produce stable videos at high speeds. Depending on the set up, it can fly 20-30 minutes per full battery charge. Flight range would be 2+ miles depending on components installed. They are seeking funding to launch a new AD2 line.

Commercial

UAV Manufacturers - Commercial (12/34)

Company	Details	Funding	Investors
 <p>Commercial</p>	<p>Sree Sai Aerotech Innovations [Chennai, 2013]: Its flagship product "EasyPilot" is a drone controller which allows users to convert the drone into a user-friendly gadget and develop applications around it. Also helps eliminate some common problems associated with buying different components off-the-shelf and trying to integrate them into a separate drone. Uses a proprietary OS "Aileron" to enable integration of multiple sensors depending on the application needed. Although only one sensor can be running at a given time. Currently has 50+ beta users. Received a grant from Tamil Nadu Small and Tiny Industries association and signed a MoU with NAL. Also offers common drones products for people to buy.</p>		
 <p>Commercial</p>	<p>Iron Drone [Tijuana, 2013]: Iron Drone is a Startup developing technology for UAV easy to use for drone applications and custom solutions focused in construction, remote security, delivery, remote presence, virtual travels, farming & filming. Design and develop different kind of drones and control systems .</p>		
 <p>Commercial</p>	<p>EasyUav [Gauteng, 2013]: EasyUAV is manufactures drones for commercial aerial photography, survey, inspection and mapping. Products include Javelin x6 & Axis x4 multi-rotor drones which can be used for aerial photography, environmental measurements, security and patrols, precision farming, search and rescue. EasyUAV supplies UAV's and drones within South Africa and neighboring countries.</p>		
 <p>Commercial</p>	<p>Atmos UAV [Delft, 2013]: Atmos UAV is a Dutch startup in the field of aerospace engineering, that is specialized in the development and production of unmanned aerial systems. Successfully performed an autonomous transition of a dual flight mode UAV. Won the Dutch aerospace award 2013. Currently in stealth mode.</p>		

UAV Manufacturers - Commercial (13/34)

Company

Details

Funding

Investors



Social Drones [Mumbai, 2013]: Designs and manufactures drones for social applications. Was deployed during landslide in Uttarakhand in 2013 to transport first aid kits to stranded victims.

Commercial



Flite Evolution [Boulder, 2013]: Flite Evolution builds, sells and services custom unmanned aircraft platforms, as well as FPV gear and associated products. Flite Evolution focuses on premium custom built UAVs. It offers Ready-to-Fly radio control aircraft platforms, ground stations, equipment and services. Its systems are offered as line of site, FPV (First Person View) and fully autonomous which can be built to fit the customer's needs, flying style or missions. Flite Evolution's products are used in the civil, commercial and government industries for surveillance, search and rescue, terrain and resource mapping, and environmental and agricultural management.

Commercial



Marcus UAV [Tacoma, 2013]: Marcus UAV manufactures Zephyr drones with full GPS, Gimbal Camera and 2.4GHz video transmitter. It's main use is for aerial monitoring such as for weather, agriculture purposes and during building construction. Zephyr can be used to make contour maps as well for geological purposes.

Commercial



Om UAV Systems [Delhi, 2012]: Om UAV manufactures a variety of unmanned remotely controlled aerial surveillance vehicles like UAV mini and quadcopter and kits. They currently have 5 designs in production and also provide services such as flower shower and aerial photography.

Commercial

UAV Manufacturers - Commercial (14/34)

Company	Details	Funding	Investors
	SABRE Survey [Banchory, 2012]: Sabre Drone designs and develops full multirotor aircraft and mapping sensors for photography, Cinematography, surveying and surveillance applications. Specializes are Lidar and GNSS/IMU integration and the design and production of Unmanned Aerial Vehicles.		
Commercial			
	RP Flight Systems [Austin, 2012]: RP Flight Systems designs & manufactures commercial fixed wing aircraft UAVs. Products includes Vigilant & Spectra UAV platforms. These drones serve the applications of mapping, surveillance, spying, FPV flying. RPFlight Systems has announced partnerships and mergers with John Smith of Asia Tech Drones.		
Commercial			
	Unmanned Systems [Izhevsk, 2012]: Unmanned Systems designs and manufactures UAVs for video surveillance and aerial photography. Also offers unmanned oil and gas pipelines surveillance services to fuel and energy companies and real-time mapping services using drones. The main production facilities are located in Izhevsk. Also have service centers and dealers in more than 20 cities and towns in Russia.		
Commercial			
	Allied Drones [Huntington Beach, 2012]: Allied Drones provides turnkey solutions, including advanced air vehicles, ground control stations, data-link systems, sensors, systems software, UAS trainers, maintenance and support from field to operational levels. In-house manufacturing means custom airframe, payload, and software services are available. The company has currently more than 10 clients.		
Commercial			

UAV Manufacturers - Commercial (15/34)

Company

Details

Funding

Investors



Alliance LP Drones [Bangkok, 2012]: Alliance LP Drones offers high-tech drone platforms of small and medium size, vertical take-off and landing unmanned aerial vehicles (VTOL UAVs). Their systems are designed to specifically target mission critical applications. Alliance supplies UAVs for Aerial, Terrestrial, and Naval applications. Has a series of 6 rotor drones. Has a subsidiary for consulting and contract manufacturing called Alliance Robotics Limited.

Commercial



FAE Drones [Bucharest, 2012]: FAE Drones designs and manufacturers standard and custom drones, camera mounts and other accessories. Provides complete UAV packs for aerial photogrammetry, surveillance and videography. FAE drones have autonomous navigation based on GPS waypoints on map. The drones can take off and land autonomously and can also be driven manually at any moment as a GPS failsafe precaution. Also provides services like training lessons and drone repair services.

Commercial



SteadyDrone [Knysna, 2012]: SteadyDrone develops, manufactures and exports small unmanned aerial systems for use in aerial photography, video, filming, security, surveillance, wildlife conservation etc. SteadyDrones can be modified on the website, outfitted with a selection of different controllers, motors, various batteries etc. Technical features include advanced GPS navigation capabilities, GoPro compatibility with folding arms, programmable radio systems and general durability. SteadyDrone has three models, ranging from US\$500 to \$15 000. The main differences between the models are the flight time and the payload that the drones are able to carry. It has won in the ICT category in "Step Up Technology Innovation Competition" and has secured 100k Rand as sponsorship. Has over R14m in turnover in its first financial year in 2013. The company has dealerships in South America, North America, Canada, UK, most of Europe, UAE, Australia and South Africa.

Commercial

Mad Lab Industries [Naperville, 2012]: Mad Lab Industries develops custom-built Quadcopters and Multi-rotor copters that are ready to fly. Its Quadcopters and Multi-Rotors come fully assembled, pre-tuned, and flight tested to customer specifications. Mad Lab Industries' aerial platforms include Aerial Mapping and survey systems, Emergency Response Systems etc. Mad Lab also builds custom aerial vehicles as per the client specifications. It also offers UAVs for educational, research, industrial and commercial purposes like Aerial Photography, Agricultural & Wildlife Surveying, Architectural Surveying, Supply Transportation & Deployment etc.

Commercial

UAV Manufacturers - Commercial (16/34)

Company	Details	Funding	Investors
 microdrones.com	<p>MicroDrones [Siegen, 2012]: Microdrones manufactures UAV for aerial video, aerial photography, aerial inspection services, aerial security, aerial surveillance, aerial GIS, aerial mapping, aerial search and rescue and aerial scientific research. Their latest product MD4-1000 is an efficient UAV in the 5.5 kg class with flight times of up to 88 min. and payloads up to 1.2 kg.</p>		
Commercial			
	<p>QuestUAV [Northumberland, 2011]: QuestUAV Ltd is a manufacturer of small, fixed wing unmanned aircraft that are designed to carry sensors such as high resolution cameras, infra red cameras, thermal cameras, multispectral cameras and video surveillance cameras. Designs sub 7kg, fixed wing UAV for civil and environment use.</p>		
Commercial			
	<p>SwissDrones [Sevelen, 2011]: SwissDrones specializes in the development and production of unmanned helicopters (VTOL UAVs) for civil purposes. Developed SDO 50V2, mini helicopter UAV, which provide a superior payload capacity, prolonged endurance, stable flight patterns and a high degree of safety features. An integrated autopilot system allows autonomous take-off and landing procedures as well as autonomous flight patterns following pre-set trajectories.</p>		
Commercial			
	<p>Rocketship Systems [Fort Collins, 2011]: Rocketship Systems Inc. (RSI) provides custom, precision components and complete airframes to the small unmanned aerial systems. Products includes Mercury, a quadcopter which is easy to use, rugged and weather resistant & Apollo, a fixed-wing sUAS reference designed to be an easy to use, rugged and sustainable UAV.</p>		
Commercial			

UAV Manufacturers - Commercial (17/34)

Company

Details

Funding

Investors



Transition Robotics [Santa Cruz, 2011]: Transition Robotics, Inc. designs Unmanned Aerial System (UAS) from novel, autopilot-assisted, VTOL, flying wing aircraft such as the Quadshot for the hobby market to fully autonomous Unmanned Aerial Vehicle (UAV) solutions for professional aerial photography, infrastructure inspection, surveys and remote sensing, to autopilot electronic and software design and manufacturing. Transition Robotics is engaged in developing systems for a wide range of applications.

Commercial



Versadrones [Skibbereen, 2011]: Versadrones produces unmanned aerial systems for a wide range of different purposes. Provides quadcopter, hexacopter and octocopter systems that are perfect for aerial photography and video and able to carry camera payloads from GoPros. Products are currently used in TV and film production, surveying, conservation, agriculture, powerline inspection, and much more.

Commercial



Smart Drone [Mexico City, 2011]: Smart Drone is involved in research, development and marketing of unmanned aircraft. Developed aviation technology for human welfare, prevent danger and improve the performance of critical activities for society. Their solutions focus on logistics and the generation and analysis of information. Provides, Hermis 196, a hexacopter which is the proprietary product of the company.

Commercial



Black Swift Tech [Boulder, 2011]: Black Swift Technologies is an engineering firm specializing in the development of small unmanned aircraft platforms and technologies. A suite of proprietary modular products have been optimized for rapid customization to meet customer requirements for any usage scenario. Provides innovative data gathering solutions to optimize process management in a host of end-user applications such as large scale agriculture, livestock ranching, and disaster relief. Developed a simple, cost-effective line of systems for sUAS. These can either be operated as a stand-alone system, or serve as the basis for design for complex solutions. Also developed high-performance autopilot, SwiftPilot, designed specifically for small unmanned aerial vehicles (sUAV), both fixed-wing and VTOL (vertical take-off and landing), with expandable payload requirements. It is targeted at high-end research and industry requirements.

Commercial

UAV Manufacturers - Commercial (18/34)

Company

Details

Funding

Investors



Commercial

[Aerob](#) [Moscow, 2011]: Aerob is a developer and manufacturer of unmanned aircraft systems (UAS) that are fixed winged & have long flight duration. Also offers aerial imagery services using drone to capture data and also provide analysis & reports using software. Has its own technical base, based on self-developed UAVs, as well as specialized hardware & software systems and qualified professionals to provide quality processing and data analysis.



Commercial

[Volt Aerial Robotics](#) [Missouri, 2011]: Volt Aerial Robotics is a drone OEM and consultancy that focuses on fixed wing and quadrotor airframes, as well as customizable payloads based on client-specific needs. Involved in development and sale of small autonomous aerial systems for academia, agriculture, environmental services and industry. The company's product offering includes two quadrotor systems, the Venture Outrider and the Venture Surveyor, and The Wave fixed wing system.



Commercial

[Service-Drone](#) [Berlin, 2011]: Service-Drone is a German manufacturer of industrial-grade UAS having over 500 of its robust, safe and reliable multirotor copters in operation across Europe and beyond. Has introduced 4th generation of models that are dual processor flight controller with a 'Black Box' to capture complete flight data and (optional) redundant flight control. The company has launched Recon One multirotor UAS, specifically developed for reliable, autonomous long-duration flights of up to 90 minutes, the Recon One is capable of carrying payloads of 500g and up under special configurations. Customers include film studios, professional photographers, television stations, public agencies and academia, industrial service providers such as building inspectors and surveyors, and engineering bureaus.



Commercial

[KMeI Robotics](#) [Philadelphia, 2011]: KMeI Robotics expertise in designing drones. Known for their Dancing Drones, which performed the song 'Carol of Bells'. Design embedded hardware and software for unmanned aerial vehicles for consumer, research, entertainment, and marketing applications. Designed small, speedy drones for US Army. Founded by Aleksandr Kushleyev and Daniel Mellinger, graduates of the University of Pennsylvania. Acquired by Qualcomm Technologies on February 2nd, 2015.

UAV Manufacturers - Commercial (19/34)

Company

Details

Funding

Investors



Delta Drone [Grenoble, 2011]: Delta Drone is a designer and manufacturer of commercial and civilian drones. The company's products include Delta H, a quadrotor with a maximum flight speed of 65 kph and adapted to precision imaging. Delta Y is a plane typed UAV used for long-range missions. Delta Y is operated by a qualified telepilot to identify problematic areas to be examined by the Delta H. Delta Drone offers a range of payloads to fulfill operation requirements: Gyro Stabilized gimbals, power lighting systems, super lightweight fittings for sensors. orientation. Customers include large industrial groups, particularly in the mining & quarrying, agriculture and utility industries. Delta Drone offers packaged services including the provision of UAV's: Delta H and Delta Y for data acquisition, pilot, processing and archiving of Cloud applications, technical and administrative assistance and after-sales service.

Commercial



Aibotix [Kassel, 2011]: Aibotix GmbH develops and manufactures hexacopters. The company provides Aibot X6, an unmanned aerial multicopter. Its features include precise control, programmable routes, camera mount, control panel, auto start and auto-landing, position hold, UAV and camera control, and video broadcast. Aibot X6 is a vertical takeoff and landing UAV having applications in the fields of industrial inspection, aerial mapping, film, and science industries. The company also develops flight planning software, AiProFlight, through which the UAV can automatically navigate via waypoints in autonomous mode. Users can plan the routes on their PC, laptop or tablet PC. Its customers include utility companies such as RWE and APG as well as international construction and engineering groups such as Aecom. Acquired by Hexagon in Feb, 2014.

Commercial



Aerialtronics [The Hague, 2011]: Aerialtronics develops unmanned aerial systems for a large variety of applications, such as securing national interests, performing safety inspections, crisis management, movie takes, film productions, commercials, television programs or news reporting. Their UAV Altura Zenith has a payload capacity of 3kg and can fly for 50 min continuous. It also has an integrated fail safe system.

Commercial



JOUAV [Chengdu, 2010]: JOUAV is UAV manufacturer which can be used for commercial usage. Claims to provide military quality service. Some of its features are smart UAV flight control and navigation, onboard mission equipment, command and control systems, autopilot systems etc.

Commercial

UAV Manufacturers - Commercial (20/34)

Company	Details	Funding	Investors
	<p>AiDrones [Wildau, 2010]: AiDrones produces and develops aerial drones and unmanned surface vessels for remote sensing, inspection, surveying, security and surveillance purposes. Developed AiD-MC8, a multicopter system for applications in inspection, civil service, security & surveillance.</p> <p>Commercial</p>		
	<p>UASUSA [Longmont, 2010]: UASUSA designs, develops, and manufactures UAS platforms. Offer services from airframe manufacture to more complex and complete UAS development that are low in cost, efficient, rapid turnaround & mission ready platforms. Developed Tempest & Recon, fixed wing drones for the applications in surveying, mapping, emergency, agriculture etc. They developed Tempest specifically for the University of Colorado. They also develop autopilot for their drones and other sensors & software required for the development of drones.</p> <p>Commercial</p>		
	<p>AltiGator [Waterloo, 2010]: Aligator designs and sells professional drones which are equipped with the state-of-the-art automatic flight controllers. Has a series of 5 such drones, selling on their website and through retail partners. Offers a remote controller software for tablet/pc called 'Waypoint Navigation', which allows to plan the flight very accurately upstream.</p> <p>Commercial</p>		
	<p>Aeronavics [Raglan, 2009]: Aeronavics Ltd is a manufacturer of advanced multi-rotor airframes and related accessories. Their products are composite aerospace and industrial grade materials, with solutions for tiny GoPro and FLIR thermal imaging equipment through to Hollywood grade "RED" cameras.</p> <p>Commercial</p>		

UAV Manufacturers - Commercial (21/34)

Company

Details

Funding

Investors

[Centaurus Technology](#) [Kuantan, 2009]: Centaurus Technology is an aeronautics and autonomous technology provider and consultant company. Developed products and services such as UAVs, flight simulators and flight simulator training, AI robots and holographic image projection.

Commercial



[UAV Factory](#) [Irvington, 2009]: UAV Factory designs subsystems, develops platforms, and manufactures airframes. Develops Penguin line of fixed wing UAVs which includes Penguin C, a low altitude long endurance UAV system with endurance of 20 hrs. Also provides ground control station, pneumatic catapult and automatic tracking antenna along with Penguin C. Penguin B, another drone in the Penguin line of drones, where system integrators can integrate their own guidance system or payload onto. It holds the world record on endurance in its class, 54.5h uninterrupted flight established in 2012.

Commercial



[Zero UAV](#) [Beijing, 2009]: Zero UAV designs, develops, and manufactures unmanned intelligent systems and small UAV systems. Products include flight control and ground station systems for fixed wing, multi-rotor aircraft and helicopters, and UAV platform equipped with equipment for aerial mission. Mainly provides two drones: first id High One, a RTF quadcopter for narrow areas & field aerial photography and the second one is E-EPIC, an octa-copter with camera support to record high quality professional videos. Also provides various industry solutions, including fixed wing, multi-rotor, helicopter, intelligent control technology & ground management software that are suitable for various industrial applications, including defense, mapping, electricity, agriculture, maritime, transportation and video entertainment. Serves government departments, military, research institutes, and universities in China and internationally.

Commercial



[SenseFly](#) [Cheseaux-sur-Lausanne, 2009]: SenseFly is a Swiss company with its main focus on design, development and commercialisation of small autonomous UAV for remote sensing, field surveying and mapping. SenseFly provides easy-to-use, turnkey solutions to professionals in need of up-to-date maps or geo-referenced data. At the core of these systems is an intelligent miniature autopilot that has been initially designed at the Laboratory of Intelligent Systems at EPFL, which is widely recognised for its innovative work in the field of miniature, bio-inspired and collective aerial robotics. Since 2012, SenseFly is a Parrot company which brought majority (57%) stack in 5 million Swiss francs.

Commercial

UAV Manufacturers - Commercial (22/34)

Company	Details	Funding	Investors
	<p>Aermatica [Como, 2008]: Aermatica develops & manufactures small Remotely Piloted Aircrafts, sensors and equipment. Provides Anteos, an autonomous multirotor drone (available in 2 versions: Anteos Micro & Anteos Mini) & Timble UX5, a fixed wing drone for image acquisition activities like aerial surveying, mapping, photography & inspections. Offer sensor suits like, VIS suite, VIS-Thermal Radiometric Suite, Solar Suite, Air-quality suite, & Hyper-VIS suite.</p>		
<p>Commercial</p>			
	<p>Edall Systems [Bangalore, 2008]: Edall Systems designs and sells UAVs and home automation products along with providing Engineering Design & Manufacturing services. Its UAVs include fixed wing UAV Nayan, with an endurance of 2 hours, payloads of interchangeable CCD cameras and on board recording device; and EDS580, which is a quadcopter with High voltage lithium polymer flight packs and AC/DC power supply. Its home automation products include Wi-Touch which is a Wifi and RF technology enabled system, through which customers would be able to control all their home appliances with their smartphone. Also provides Aerospace training services like UAV design and engineering workshops. Customers include National Aerospace Labs and DRDO. As of Aug, 2014, the company is in talks with European drone makers for potential collaborations.</p>		
<p>Commercial</p>			
	<p>XMobots [Sao Paulo, 2007]: XMobots specializes in development and manufacture of UAVs for commercial applications. Develops high-performance UAVs, which are characterized by long range, accuracy, structural strength, image resolution and ease of operation. One of the first companies to be certified by ANAC. XMobots currently has three models of Unmanned Aircraft: UAVs Nauru 500B, Echar 20 and Arator 5A, all of which are fixed wing aircrafts.</p>		
<p>Commercial</p>			
	<p>Ascending Technologies [Krailing, 2007]: Ascending Technologies is manufacturer and innovator of Micro-UAVs such as the AscTec Falcon 8 for aerial imaging and the AscTec Firefly, the AscTec Hummingbird such as the AscTec Pelican for research and development. They help companies in Industrial Inspection, Mapping and Precision Agriculture reduce cost by integrating the UAV AscTec Falcon 8 into their workflows.</p>		
<p>Commercial</p>			

UAV Manufacturers - Commercial (23/34)

Company

Details

Funding

Investors



ScientificAerospace [Perth, 2006]: ScientificAerospace is developing safe UAV's systems with advanced imaging systems. Its CyberQuad is a safe & reliable quadcopter certified by NASA & CASA for commercial aviation demonstration use in the Americas, Australia, and ICAO countries. CyberQuad is operational in 6 of the 7 continents and this VTOL UAV was operationally used in the Resources industry. Also developed 4Scight for the surveying purposes.

Commercial



Leptron [Denver, 2006]: Leptron Unmanned Aircraft Systems innovates, manufactures and distributes patented, unmanned technology which can be piloted remotely using advanced ground station products. Leptron's unmanned aerial vehicles (UAVs) are certified for airworthiness, manufactured in the USA, and include pilot training. Products includes Leptron RDASS 1000 Quadcopter, Avenger Unmanned Helicopter, MicaSense RedEdge (lightweight, multispectral, advanced camera).

Commercial



Airborne Robotics [Klagenfurt, 2006]: Airborne Robotics is focused on developing and manufacturing high performance drones for industrial applications, professional film, and broadcast from pioneers in drone technology. Their UAS are open systems and open programming allowing for a large variety of cameras, instruments, and other equipment to go airborne. Winner of the Austrian National Prize for best business film 2010 and the Carinthian Innovation & Research Prize 2013.

Commercial



Aerovel Corporation [White Salmon, 2006]: Aerovel Corporation develops long range robotic aircraft, their flagship product is the Flexrotor, which offers long range and endurance together with vertical takeoff and landing (VTOL). The drone carries an Electro Optical imaging turret and is helpful in various applications such as observation, situational awareness, surveillance, reconnaissance scientific data collection, security and search and rescue. The company is also developing the Aerosonde and ScanEagle aircraft series.

Commercial

UAV Manufacturers - Commercial (24/34)

Company

Details

Funding

Investors



Novadem [Paris, 2006]: Novadem offers professional and military grade drones. Their NX110m drone is intended for military market, and is specially designed to satisfy the dismounted soldier operational requirements. The drone has IED location detector, which detects and identifies explosive devices.

Commercial



ING Robotic Aviation [Ottawa, 2001]: ING Robotic Aviation delivers data-driven robotic aviation services with its robust aerial remote sensing solutions as comprehensive products and end-to-end services. Products includes Responder, a reliable & flexible aerial data gathering tool and Serenity, a tool for long range & persistent data acquisition. These drones have long range & are designed for payload capacities of 5-12 kgs.

Commercial



Lehman Aviation [Paris, 2001]: Lehmann Aviation designs and manufactures drones which are designed for users who want to perform aerial photography and/or mapping, but who have little or no previous experience with UAV. Previously users had to use a PC or laptop to program the flight path, however, users can now do so on a Windows Phone 8 smartphone or tablet. Has Wi-Fi module using which users can check the drone's progress and systems (including its battery level) in real time.

Commercial

BradaTech [Ottawa, 1999]: Bradatech designs quadcopters, frames, flight controls & ground control station. Developed RX4-S Surveyor, a quadrotor that uses an automatic retracting landing gear system for an unobstructed camera view while offering a modular gimbal design. The arms are foldable and allow the unit to be transported easily without requiring propeller removal. Also developed PX-Lite Plus 450 Quadcopter, uses PX-IR Thermal Imaging Aerial System to provide viewing in the long-wave infrared (LWIR) spectrum using a genuine Lepton module from FLIR and the visible spectrum using GoPro.

Commercial

UAV Manufacturers - Commercial (25/34)

Company

Details

Funding

Investors



Draganfly [Saskatoon, 1998]: Draganfly Innovations manufactures X series six rotor UAV made of carbon fibre capable of using still/video camera, infrared camera and low light camera all of which can be controlled from the ground. Has features such as three accelerometers, three gyroscopes, three magnetometers and a barometric pressure sensor, and the controller is based on an OLED touch screen. These features make the Draganfly drones capable of work on their own under any circumstances. These drones are used for Public Safety or Professional applications.

Commercial



Quantum-Systems [Munich, 2014]: Quantum-Systems develops and manufactures small commercial unmanned aerial systems. Products includes Geo-X, an octa-copter; Quantum 2M & Quantum VRT, fixed wings drones; a sensors box, Sensorik; & a ground control system, Geo-Control. They develop their flight systems in cooperation with the Technical University of Munich. First runner-up of Drones For Good Award, Dubai 2015.

Commercial -
Surveying &
Mapping



Aeromao [Mississauga, 2011]: Aeromao manufacture the Aeromapper family of unmanned aerial vehicles destined for image acquisition for mapping and surveying applications. The Aeromappers are currently operating in more than 35 countries by many clients including government institutions, private companies, universities and research organizations in a wide variety of applications and tasks.

Commercial -
Surveying &
Mapping



Gatewing [Gent, 2008]: Gatewing is a UAS designer and integrator for the civil surveying and mapping industry, focussing on light weight UAS solutions. Gatewing offers the X100, a rapid mapping system for creating high quality orthophoto maps and digital terrain models. Gatewing's Stretchout desktop software creates georeferenced orthophotos and accurate DSMs from the data acquired from the UAV. Users can upload images to Gatewing's cloud solution, which automatically processes the images based on the users' requirements.

Commercial -
Surveying &
Mapping

UAV Manufacturers - Commercial (26/34)

Company	Details	Funding	Investors
 Commercial - Surveying & Mapping	<p>AirRobot [Arnsberg, 2005]: AirRobot GmbH is a mini and micro UAV systems manufacturer located in Arnsberg, Germany. The company develops UAVs for aerial surveillance, survey and documentation. the product line includes AR100-B, a VTOL Micro-UAV-system; AR100-C, AR180 range of quadcopters; AR180 range of hexacopters. Its AR100-B system is used by Bundeswehr, the unified German Armed forces and other militaries around the world.</p>		
 Commercial - Delivery	<p>Matternet [Menlo Park, 2011]: Matternet develops drones for delivery tasks. Their first product, Matternet ONE, is a smart autonomous delivery drone which is light in weight and strong enough to transport 1 kg over 20 km on a single battery charge. It comes with a smartphone app to control it.</p>	\$3M	Andreessen Horowitz
 Commercial - Delivery	<p>Kray Technologies [Kyiv, 2015]: Kray Technologies are developing VTOL cargo drone with large delivery range. This is 2m in size & can carry 20kg up to 150km. It is having a lightweight hybrid power system with an optical navigation system with decimeter precision. Their product is under development and the minimum viable product can be expected by 2016. As they say, their goal is to create a drone taxi for the transportation of humans.</p>		
 Commercial - Delivery	<p>DBX Drones [Madrid, 2015]: DBX Drones is developing autonomous drones for deliveries of heavy packages over long distances. Access to remote places and entire cities coverage. These drones are controlled using mobile phone application.</p>		

UAV Manufacturers - Commercial (27/34)

Company	Details	Funding	Investors
 <p>Commercial - Delivery</p>	<p>Hylío [Austin, 2015]: Hylío developed an multi-functional autonomous delivery drone, Pegasus. It is equipped with lightweight airframe and six powerful brushless motors to deliver heavy payloads, long flight times, and intelligent navigation. It is one of the few peer to peer delivery drones.</p>		
 <p>Commercial - Delivery</p>	<p>Wanhoo Aerospace [Beijing, 2014]: Wanhoo Aerospace specializes in UAVs and related product development, production, sales and service. The UAV specs include load capacity of 10kg to 130kg, a wingspan of 1.7m to 9m etc. It does complete aircraft production i.e. assembly and testing processes and has dedicated production lines for various types of UAVs.</p>		
 <p>Commercial - Delivery</p>	<p>Dronamics [Sofia, 2014]: Dronamics is a Dutch-Bulgarian company developing advanced Unmanned Aerial Systems optimized for heavy payloads and long range, for use in commercial and special logistics missions. These unmanned cargo aircraft can carry up to 350 kg payloads across routes exceeding 2,000 km. Developing a prototype which will be the first drone that can carry such a payload for non-military use.</p>		
 <p>Commercial - Delivery</p>	<p>Letronium [Kyiv, 2014]: Letronium is building programmable delivery drones for last mile delivery purposes. The current prototype of the drone models are able to take up to 5 kg and deliver on 5-10 km. Also trying to build special charging stations around the territory where drones will fly.</p>		

UAV Manufacturers - Commercial (28/34)

Company

Details

Funding

Investors



Verge Aero [Philadelphia, 2014]: Verge Aero is a drone automation company specializing in automation of drones for markets like drone delivery and drone choreography as well as developing enabling drone technologies.

Commercial -
Delivery



Techbaaz [Mumbai, 2014]: It is an Unmanned Aerial Vehicle(UAV) technology driven startup. They are popularly associated with 'India's first drone delivery of a pizza' as part of an advertisement for a local pizzeria for which they had received global accolades. They are focused on developing UAVs for commercial applications across various industry verticals. Their aim is to provide Autonomous UAV Technology along with data management services that would result in increasing efficiency, improving safety standards, cutting costs resulting in higher profits and widen flexibility to support variety of applications.

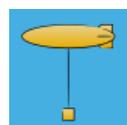
Commercial -
Delivery



Vayu [Ann Arbor, 2014]: Vayu builds affordable unmanned aerial vehicles (UAVs) for transport of vital goods over difficult terrain, designed for rural healthcare supply chain and post-disaster aid delivery. Their first UAV product is designed for the needs of customers, with a 60km range, 2kg payload, vertical take off and landing capability and autonomous flight. Have offices in Ann Arbor, Michigan, USA and New Delhi, India.

Commercial -
Delivery

Drone.vc



AeroShipIt [Boston, 2013]: AeroShipit develops small automated aershops to deliver parcels to the customer's doorstep. AeroShip.it uses automated aerial drones to deliver food, medicine and supplies to victims of natural disasters apart from parcel delivery. Aeroship.it claims that its drone transportation system is cheaper than helicopter operations and easily integrates into existing humanitarian supply chains. Founded by ex-employee of Apple and an alumnus of Middlebury College.

Commercial -
Delivery

UAV Manufacturers - Commercial (29/34)

Company	Details	Funding	Investors
 Commercial - Delivery	<p>Vision Aerial [Bozeman, 2012]: Vision Aerial is a drones technology company that designs and manufactures multicopter drones for commercial delivery applications. Their products includes SwitchBlade series of tricopters that are fully assembled & flight tested, having payload capacity of 2.1kg, and a flight range of 1000m manual & 8km in autonomous mode of flying.</p>		
 Commercial - Delivery	<p>BlackProp Tree Robotics [Goa, 2012]: BlackProp Tree develops unmanned aerial security systems which enable public safety and commercial & industrial users to reliably collect high quality aerial imagery and data. Its reconnaissance UAV "Willow" streams real time video of the target area with HD quality within a range of 20 Kms. BlackProp Tree's aerial logistics UAV that can deliver goods and packages aurally is in testing phase. The website is not up till now.</p>		
 Commercial - Precision Agriculture	<p>Airpod [Chennai, 2015]: Avere Consultancy has developed AirPod, an autonomous and intelligent UAV (Unmanned Aerial Vehicle) controlled through an android based tablet, solving the pressing agricultural issues in micro nutrients disbursement & crop protection. It is an integrated solution of hardware and software using sensors and big data, to deliver automation of key tasks, reducing dependency on farm labor and higher yield for the farmers.</p>		
 Commercial - Precision Agriculture	<p>GreenSight Agronomics [Boston, 2014]: GreenSight developed a drone enabled water and chemical management for reductions in water, pesticide, and fertilizer usage. GreenSight's autonomous drone, custom imaging sensor, and proprietary cloud-based analysis software deliver actionable alerts about plant health. Suitable for golf courses and agriculture customers.</p>		

UAV Manufacturers - Commercial (30/34)

Company

Details

Funding

Investors



Commercial - Precision Agriculture

[Aerial Precision Ag](#) [Tempe, 2013]: Aerial Precision Ag is providing producers an easy to fly multirotor platform that captures HD video and photo images for use in precision agriculture operations. Products include Basic Scout Kit 2.0, an integrated video and photo platform to capture HD video and high-res photos for agricultural producers; and HEX 2.0, an aerial system for individuals that are interested in pursuing aerial precision agriculture efforts. Acquired by RoboFlight Systems.



Commercial - Precision Agriculture

[SkySquirrel](#) [Inverness, 2012]: SkySquirrel develops technologies to support light-weight, close-range aerial search & rescue drones. Currently developing a robust, portable, unmanned aircraft platform capable of remote sensing through built-in visible, multispectral and thermal cameras. Their farming drone, the Patagium AP is optimized for demanding agricultural applications that can easily be customized to address crop-specific needs. This versatile farming drone assists farmers by providing remote sensing data, which can be used to reduce costs and increase production in high-yield crops.



Commercial - Inspection & Monitoring

[SkySpecs](#) [Ann Arbor, 2012]: SkySpecs develops unmanned aerial vehicles for general purpose aerial data collection and infrastructure inspections for hard-to-reach structures, such as bridges and tall wind turbines. With a SkySpecs UAV, an inspector will arrive at a job site, equip the vehicle with a variety of sensors, and then hand-deploy it. During the inspection, they will provide high-level commands to inspect the structure, while advanced artificial intelligence handles complex tasks such as obstacle avoidance, stabilization, and three-dimensional localization. Once the inspection is complete, the data can be downloaded and reviewed later by the inspector. SkySpecs couples the hardware with an analytics dashboard to interpret and map the massive amount of data gathered during flight. The company won \$50,000 from placing first in the Michigan Clean Energy Venture Challenge and won the third place award in the student portion of Accelerate Michigan. The four founders were part of the the MAAV team which was placed first in the International Aerial Robotics Competition.

\$3M

Invest Detroit, MI-CEVC, Venture, Huron River Ventures, The Amherst Fund, Michigan Angel Fund, ACCELERATE MICHIGAN



Commercial - Inspection & Monitoring

[Pro-Drone](#) [Porto Salvo, 2015]: Pro-Drone is developing technology to overhaul the ways to inspect large energy infrastructure by implementing autonomous flight control algorithms to enable distance control and precise environmental awareness to UAVs enabling them to carry out much more robust, safe and cost efficient inspections. Claims to have raised seed funding. Incubated at KIC Innoenergy.

UAV Manufacturers - Commercial (31/34)

Company

Details

Funding

Investors



**Commercial -
Inspection &
Monitoring**

Caspian [Berlin, 2015]: Caspian provides automated aerial inspection for industrial infrastructure. Developed an autonomous flying drone that automatically recognizes the structure, make a mission plan to inspect the structure and implement it. Detects obstacles from 100+meters and avoid it in mid-flight with real time re-planning of the trajectory.



**Commercial -
Inspection &
Monitoring**

Avular [Eindhoven, 2014]: Avular BV specialized in the design, engineering and manufacturing of professional UAV systems. They have developed AvularScout, an UAV platform for industrial tasks, like inspection & agriculture. They also provide customized solution ass per the client needs.



**Commercial -
Inspection &
Monitoring**

Hawk Aerial [Los Angeles, 2014]: Hawk Aerial develops and operates commercial grade drone-based data acquisition systems. Developed HawkEye Carbon drone for industrial inspections. Also offers services for infrastructure inspection (pipelines, power lines, bridges, cell towers, stacks, etc.), aerial surveying, mapping, crop analysis, search and rescue, etc.



**Commercial -
Inspection &
Monitoring**

Radianx Robotics [Bangalore, 2009]: Radianx Robotics develops autonomous and human controlled robotic systems for Defence, Homeland security & Industry Inspection sectors. Radianx develops aerial robots like Micro UAVs (Unmanned Vehicles) and Mini UAVs, Vertical takeoff and landing(VTOL) UAVs. It acts as an outsourcing partner for R&D wings of various governments and MNCs to develop robotic platforms for specific client requirements.

UAV Manufacturers - Commercial (32/34)

Company

Details

Funding

Investors



Commercial -
Cinematograph

Y

AeroCine [New York City, 2014]: AeroCine/Aerobo designs & builds drones for aerial cinematography & provides services based on drones. Approved by FAA to commercially fly drones. Provides services for news, TV, sports, Advertising, cinema & inspection. Backed by Matt Levinson, an angel investor who invested \$650k in the company at a valuation of \$3M.

\$650k



Commercial -
Cinematograph

Y

Droniris [Toulouse, 2014]: Droniris designs and builds drones (UAV) high performance for professional aerial imagery. Their first drone is a hexadrone named Fovea, made of carbon structure material to reduce weight for greater autonomy and rigidity. Equipped with 24V & 22Ah battery having a flight time of 20mins. Also offers Hybrid Stork Platform.



Commercial -
Cinematograph

Y

Acecore Technologies [The Hague, 2013]: Acecore Technologies is manufacturer, designer and developer of Small Unmanned Aerial Vehicles. Developed Neo drone that is lightweight, multipurpose RC UAS. It can carry a professional camera and hence can offer HD aerial shots for cinematography.



Commercial -
Cinematograph

Y

CandyCam Multimedia Robotics [Kansas City, 2012]: CandyCam creates and sells affordable multimedia robotics to filmmakers and indoor venues for unprecedented control in recording live-action events and scripted video sequences. They architect, design, and build hardware that empower filmmakers around the world by providing a cost-effective platform that moves in 3d space and and promises complete, freeform control.

UAV Manufacturers - Commercial (33/34)

Company	Details	Funding	Investors
 <p>Commercial - Cinematograph y</p>	<p>Freefly Systems [Woodinville, 2011]: Freefly Systems develops MoVI camera gimbals and aerial UAV solutions for motion, picture & video. Built of Cinestar series of remote control multi-rotor hexacopters and octocopters and camera gimbal mounts which allow smooth, stable and dynamic low-altitude aerals. They design and develop cinema products for film productions.</p>		
 <p>Commercial - Solar Powered</p>	<p>Unmanned Cowboys [Stillwater, 2014]: Unmanned Cowboys developed a plug-and-adapt autonomy module (STABILIS) for unmanned vehicles, ATLAS an All Terrain Land & Air Sphere, and solar panel integration tripling the flight time for a prominent Unmanned Aircraft System (UAS) and for safe flight indoors and near people. Founded by two PhD candidates and two aerospace professors at Oklahoma State University, supported unmanned systems and aerospace projects for commercial, academic, and defense markets.</p>		
 <p>Commercial - Solar Powered</p>	<p>Sunbirds [Toulouse, 2014]: Sunbirds designs, manufactures and markets ultra-long endurance solar UAS, mainly for industrial infrastructures monitoring, observation, agriculture and disasters management. By using solar energy, they offer lightweight, autonomous drones for aerial observation. Currently in stealth mode.</p>		
 <p>Commercial - Solar Powered</p>	<p>Silent Falcon [Albuquerque, 2012]: Silent Falcon UAS Technologies, formerly Bye UAS, is a leading manufacturer of small unmanned aircraft systems sold to the global commercial, public safety, intelligence and defense markets. Produces the long endurance aerial data acquisition platform, the Silent Falcon Unmanned Aircraft System, and a variety of leading edge application specific sensors, including Mid Wave InfraRed, photogrammetric and high end high definition ISR EO/IR image and data payloads.</p>		

UAV Manufacturers - Commercial (34/34)

Company	Details	Funding	Investors
 <p>Commercial - Solar Powered</p>	<p>Titan Aerospace [Moriarty, 2012]: Titan Aerospace is in the business of high altitude drones, which cruise nearer the edge of the earth's atmosphere and provide tech that could be integral to provide Internet connectivity to help bring remote areas online. It is building two types of solar-powered drones that can fly for years without any need to land and get any fuel. The company's drones also take high-quality images in real-time that could help with Maps initiatives, as well as contribute to disaster relief and addressing deforestation. Google acquired Titan Aerospace in April 2014.</p>		
 <p>Commercial - Solar Powered</p>	<p>Bye Aerospace [Englewood, 2007]: Bye Aerospace, a pioneer in the field of clean energy propulsion for aviation, develops solar-electric powered unmanned aerial vehicle that can stay aloft for 3+ weeks over 30,000 feet. The plane is built with light weight materials making it less expensive. This aircraft can be equipped with intelligence, surveillance, communications, and sensor equipment, depending on the mission. Also provide cost effective consulting to the aerospace industry with a full spectrum of engineering services ranging from conceptual development, preliminary design, prototype aircraft to optimizing technical processes, materials qualification and complex structural analysis. Currently working with Ascent Solar Technologies, a provider of lightweight, flexible photovoltaic (PV) solutions, to develop a unique aircraft to fill the gap between mapping and surveillance of Mars from orbital satellites and ground-based rovers.</p>		
 <p>Commercial - Real Estate</p>	<p>Skyborne Technologies [Brisbane, 2015]: Skyborne is a Brisbane based tech start up that is innovating the capabilities of hybrid autonomous air vehicles. Developed Cerberus (an autonomous, three-rotor hybrid aircraft) and Chimera (hybrid UAV with high speed, high endurance, and wide range) to incorporate avant-garde athleticism providing quality photo and video capabilities. These crafts are deftly tailored to customers' requirements ranging from Real Estate photography and filming, to geospatial monitoring systems, to anti-poaching air support.</p>		

UAV Manufacturers – Military (1/9)

Company	Details	Funding	Investors
 Military	<p>Aeryon Labs [Waterloo, 2007]: Aeryon labs designs human-packable, autonomous hovering aerial systems that allow unskilled operators to capture high resolution imagery. It provides Aeryon Scout, a vertical take-off and landing micro unmanned aerial vehicle used for tactical and over-the-hill aerial intelligence. The scout features a touch-screen interface. Aeryon Labs' UAVs have a field interchangeable payload interface to support multiple payloads. All imaging payloads are stabilized and include high resolution stills, optical zoom video, thermal Imaging, HD video, and dual EO/IR video/still camera. Aeryon's Scout has been used in several high-profile operations by Libyan Rebels, US Coast Guard, British Petroleum etc. Federal Economic Development Agency for Southern Ontario invested \$985,000 in Aeryon Labs in 2012.</p>	\$47M	Federal Economic Development Agency for Southern Ontario Agence..., Summit Partners
 Military	<p>CyPhy Works [Danvers, 2008]: CyPhy Works is a developer of advanced Unmanned Aerial Vehicles (UAVs). It has developed a technology platform of easy-to-operate flying robots for applications in the military, civil and commercial sectors. The company has so far announced two products on its platform: EASE (indoor hovering robot) and PARC (outdoor multicopter platform). It offers proprietary commercial grade 'no-pilot' hardware systems, autopilot and control software, uninterrupted HD and infrared imaging, laser measurement sensors and data management solutions. In addition to the traditional benefits of UAVs, the company also has developed a proprietary microfilament technology that can be used for persistent operation in the field. The company was awarded a \$2.4 million research award from the U.S. Commerce Department's National Institute of Standards and Technology. Customers include Pentagon and the U.S. Army.</p>	\$32M	Lux Capital, General Catalyst Partners, Felicis Ventures, Bessemer Venture Partners, Draper Nexus Venture Partners, Motorola Solutions, UPS
 Military	<p>Prioria Robotics [Gainesville, 2003]: Prioria Robotics focuses on developing systems designed to perform sophisticated aerial security (military and civilian) or surveillance tasks. It currently offers the Maveric Unmanned Aircraft System and the Merlin embedded processing platform as well as engineering services to design custom offerings around both products. It also contains sensors for day, night or obscured hazy environmental reconnaissance work. Prioria also provides engineering solutions for industrial and ground robotics, medical device manufacturers, military and homeland security applications, and cutting-edge commercial products. Prioria Robotics has been awarded \$4.5 million worth of contracts to produce 36 small unmanned aircrafts and 12 ground control stations for the U.S. Army in November 2013.</p>	\$8M	Advantage Capital Partners, Athenian Venture Partners, Florida Gulfshore Capital
 Military	<p>Sanswire [Fort Lauderdale, 2002]: Sanswire Corp. designs, develops and markets UAVs capable of carrying payloads. They provides persistent surveillance and security solutions at various altitudes. Its airships and auxiliary products provides applications in military and defense. Products includes airships, which provide a platform to transmit wireless capabilities from air to ground. Took a debt funding of \$800k from Global Telesat in Dec, 2009.</p>	\$425k	

UAV Manufacturers – Military (2/9)

Company	Details	Funding	Investors
 <p>Military</p>	<p>Crescent Unmanned Systems [New Orleans, 2011]: Crescent Unmanned Systems manufactures small multirotor and fixed wing UAS for law enforcement applications as well as civilian aerial photography and videography. Its flagship product "Bravo 300" UAS provides law enforcement and governmental agencies with situation awareness capabilities. Bravo 300 comes with ground control systems and can be equipped with third party payloads like HD optical cameras, thermographic cameras, multispectral imaging systems, Laser imaging systems etc.</p>	\$250k	South Coast Angel Fund
 <p>Military</p>	<p>ideaForge [Mumbai, 2007]: Designs and develops compact, cost-effective Unmanned Aerial Vehicles (UAV) for surveillance and security. Its first product, Netra is a man portable autonomous UAV for intelligence, surveillance and reconnaissance of moving and fixed targets. Used by BSF, NDRF and state police departments. Earlier incubated at SINE, IIT Bombay and CIIE, IIM Ahmedabad.</p>	\$125k	CIIE, IIM Ahmedabad
 <p>Military</p>	<p>Aurora Integrated Systems [Bangalore, 2006]: Aurora Integrated Systems is an Indian company developing indigenous technology, manufacturing and integrating airborne systems with a focus on small Unmanned Aerial Systems (UAS). The startup is also working on applications in civilian space such as Geo-Information Systems, Agriculture and Disaster Management. The company is started by IIT K graduates and has raised Series B funding from Tata group. Mainly finds its applications in the military industry. Their systems are tailored to meet requirements ranging from wartime operations to counter-terrorism and anti-insurgency operations. Tata Advanced Systems Ltd (TASL) has acquired majority stake in the company.</p>		Tata Advanced Systems Limited
 <p>Military</p>	<p>Drono.io [London, 2015]: Drono.io is manufacturing autonomous drones for search & rescue purposes. Utilizing advanced ultrasonic, radar, and laser technologies, Drono sniffs out humans that are trapped, buried, or injured in the aftermath of a natural disaster or emergency situation. Drono efficiently flies around affected areas by autonomously identifying collapsed buildings and debris using computer vision and lidar technology.</p>		

UAV Manufacturers – Military (3/9)

Company	Details	Funding	Investors
	<p>Invisdrone [Austin, 2015]: Invisdrone is developing invisible drone, that is a low visibility drone for aerial video recording for stealth purposes. The target industries includes homeland security, personal security, police and law enforcement, military applications, commercial video/photography and recreational use for stealth missions.</p> <p>Military</p>		
	<p>Martin UAV [Kilgore, 2015]: Martin UAV research, development, manufacture, and operation of solutions for UAS hardware. The company also provides aerial imaging services, turnkey UAV systems and components, UAV flight, Training, and consulting services. Its flagship products include the BAT platforms, which includes DA-50 Super BAT UAS, equipped with military & commercial grade gimbal camera(s) for live video streaming, dual wing-tip HD cameras, and an incredible 30 lb payload on the BAT-4 Series workhorse aircraft. Its products are useful in georeferenced imagery, fully autonomous missions, small system footprint, operations from unimproved areas, agricultural and wildlife mapping, aerial mapping, VTOL launch and recovery.</p> <p>Military</p>		
	<p>DroneLabs [Staffordshire, 2014]: DroneLabs design and manufacture advanced unmanned aircraft systems for civil, humanitarian and defence applications.</p> <p>Military</p>		
	<p>VersaTOL Unmanned Helicopter Solutions [Atlanta, 2013]: VersaTOL is a manufacturer of high performance unmanned helicopter systems for military & defense purposes. Products includes Venom 10ET, Viking 75 & Viper 290 drones. Customers include U.S. Department of Defense.</p> <p>Military</p>		

UAV Manufacturers – Military (4/9)

Company	Details	Funding	Investors
 <p>Military</p>	<p>Virtual Robotix [Bergamo, 2013]: Virtual Robotix manufactures UAVs, autopilot systems, gimbals and other UAV accessories. Its flagship product "Black Ops Drone" is a drone developed mainly for recreational use. It is loaded with an optional thermal camera that can help to detect hidden enemies. Its drones can be used in aerial filming, video inspections, mapping, photogrammetry, autonomous digital bathymetry etc. Also provides services for aerial photography and runs an academy for teaching unmanned aerial flight. Incubated at MpxLab.</p>		
 <p>Military</p>	<p>Robinson Aeronautics [Fort Collins, 2012]: Robinson Aeronautics developed remotely controlled unmanned aerial vehicles as a custom platforms. These are claimed to be stable hovering platforms offering high-definition video for reconnaissance, can fly in adverse conditions & are autonomous drones with payload capabilities.</p>		
 <p>Military</p>	<p>Drone Systems [New Albany, 2012]: Drone Systems is a distributor of unmanned aerial vehicles serving the Public Safety and Defense industries in the United States. Provides Scout UAS, a small-unmanned-aircraft, that offers aerial footage during emergency situations and a wide variety of payload imaging and durability in inclement weather making it an essential tool for cutting-edge disaster and emergency response. The company also develops and provide high-quality, high-impact training solutions for UAV operators across multiple sectors of the public safety community.</p>		
 <p>Military</p>	<p>Asteria Aerospace [Bangalore, 2011]: Aerospace based private organization developing products and offering services to the global aerospace defense and civilian markets. Offers ATOM autopilot system that enables autonomous flights for fixed wing UAVs. Its CYGNUS A10 is a mini Unmanned Aerial System designed from the ground up for military and civilian surveillance applications.</p>		

UAV Manufacturers – Military (5/9)

Company	Details	Funding	Investors
	<p>UMS Aero [Baar, 2010]: UMS AERO Group is unique in offering Unmanned Systems (UAS, RPAS) that cover the domains of land & maritime with both fixed and rotary wing aircraft solutions. Offers both fixed and rotary wing products; fixed wing models includes F-330 and larger F-720 & rotary wing aircraft includes R-350, utilise self-designed and built avionics, software. Also carries out training of Intelligence, surveillance and reconnaissance.</p>		
Military			
	<p>Sky-Watch [Stovring, 2009]: Sky-Watch designs, develops and manufacture advanced professional remote controlled quadcopters equipped with high-resolution digital cameras & thermal IR cameras capable of streaming live video feed during flight. If needed, these UAVs can be equipped with chemical detection sensors as well. The UAV's is steered from the ground through an encrypted data connection, but each vehicle is equipped with an advanced autopilot.</p>		
Military			
	<p>C-Astral [Ajdovsicina, 2008]: C-Astral is an aerospace enterprise and solution provider. Operates a software and hardware laboratory for aerodynamics and systems integration work and a prototyping CAD/CAM workshop facility for composite and metal materials work, modeling and systems integration. The founders of C-ASTRAL have been active in renewable energy systems integration and habitats work since 1994 and in aerospace since 1999 and are responsible for the first Slovenian Unmanned Aircraft System test flight in 2005 with the Spectral System platform.</p>		
Military			
	<p>Area-I [Kennesaw, 2008]: Area-I develops fixed wing aircrafts for aerospace and research purposes. Offers low-cost flight test platforms, UAS collision avoidance systems, atmospheric energy harvesting guidance systems, and highly capable flight computing and data acquisition systems. Currently involved in research programs with NASA, the US Army, ONR, and AFRL.</p>		
Military			

UAV Manufacturers – Military (6/9)

Company	Details	Funding	Investors
 Military	<p>Kadet [Kolkata, 2007]: Kadet Defence Systems, has started out creating an aerial target for the Indian army but has later branched out into manufacturing unmanned systems, producing and selling unmanned aircraft for intelligence, surveillance and reconnaissance. It was awarded a long-term contract from the Indian Ministry of Defence for its JX2 Radio Controlled Aerial Target (RCAT) System. The company has also been supporting state-owned weapon developmental agencies, including Bharat Electronics Ltd. (BEL) with its Aerial Targets. It is the first Indian company to win a defence ministry contract for aerial targets.</p>		
 Military	<p>Prox Dynamics [Oslo, 2007]: Prox Dynamics produces micro-drones for reconnaissance, search and rescue operations to customers in military and law enforcement fields. Their product Black Hornet Nano can fly for up to 30 minutes with a top speed of 22 mph, or a range of about one half-mile. So far 3000 nano's have been sold by the company, averaging \$125k per drone. The company also offers UAV accessories like external antenna, handheld display etc and also software for managing the drones. Customers include British and US Armies.</p>		
 Military	<p>Adaptive Flight [Marietta, 2005]: Adaptive Flight designs and develops advanced flight control systems for fixed-wing and vertical take off and landing (VTOL) unmanned aircraft vehicles. AFI also manufactures the Hornet series of unmanned helicopter systems, ranging from the 3 lb. Hornet Micro up to the 280 lb. Hornet Magnum helicopter UAVs. The helicopters provide real-time video surveillance for law enforcement, public safety and military personnel operating in high-risk urban terrain.</p>		
 Military	<p>Unmanned Systems [North Las Vegas, 2003]: Unmanned Systems, Incorporated (USI) develops low cost fixed winged drones with applications in military & defense sectors. The products utilize Longshot control system & drones are made of carbon fibers to make in weigh lesser. Main business is providing the Department of Defense with developmental and operational test & evaluation support for the General Atomics MQ-1 Predator, MQ-9 Reaper, Predator C, and other UAS in development. Has developed the Sandstorm family of sUAS through its Independent Research and Development (IR&D) program with other aircraft in side-branches of design and production.</p>		

UAV Manufacturers – Military (7/9)

Company	Details	Funding	Investors
	<p>Bluebird Aero System [Kadima, 2002]: BlueBird Aero Systems specializes in the design, development and production of Tactical Unmanned Aerial Systems (UAS) and peripheral equipment. Delivers unique, unprecedented, combat proven solutions to meet the challenges and needs of the Military, Homeland Security and Civilian UAS markets. Products includes MicroB, SpyLite, WanderB, Spy-i & ThunderB.</p>		
Military			
	<p>Aerodreams [Buenos Aires, 2001]: Aerodreams is engaged in developing & manufacturing manned & unmanned aircraft for applications in the areas of intelligence, surveillance, reconnaissance and agriculture. Developed the Chi-7 helicopter & Strix project for the Argentine Air Force along with various other UAVs for military & non-military purposes, Petrel, Nancu, ADS-401 & Guardian. The company's CEO is Raúl Fernández.</p>		
Military			
	<p>Lockheed Martin [Bethesda, 1995]: Lockheed Martin provides security services for space, telecommunications, electronics, information and services, aeronautics, energy, and systems integration industries. Designs and manufactures air and ground unmanned systems for security and defense applications. Their Intelligent Robotics Laboratory (IRL) researches in robotics to develop capabilities for robots with a focus to on the development of unmanned systems.</p>		
Military			
	<p>Desert Wolf [Pretoria, 1994]: Desert Wolf is a leading innovation and technology company that produces reliable mobile solutions. It manufactures and supplies a wide range of trailers and complete military and commercial mobile surveillance solutions. Also produces tactical unmanned aerial and ground vehicles based on latest technology. Its UAV products include Skunk riot control-copter, Bat surveillance drones & Wasp aerial system.</p>		
Military			

UAV Manufacturers – Military (8/9)

Company	Details	Funding	Investors
 Military	<p>Guided Systems Technologies [Stockbridge, 1994]: Guided Systems Technologies, Inc. (GST) is an established UAV technology company with a focus on the design, automation and practical application of vertical take-off & landing unmanned aerial systems (VTOL UAS). Develops flying drones for military, rescue & response and commercial operations. Offers a complete line of fully autonomous VTOL UAVs designed to cover a large number of payload, range and endurance requirements. Customers includes a long list of army, aerospace and research institutes (worldwide) like US Army, Navy, Air Force, GergiaTech, Lockheed Martin, Northrop Grumman, NASA Langley, Virginia Tech, Korea Aerospace Research Institute, Japanese Aerospace Exploration Agency and many more.</p>		
Military	<p>General Atomic Aeronautical [Poway, 1993]: General Atomic Aeronautical Systems, an affiliate of General Atomic, provides unmanned aerial vehicles and radar solutions for the U.S. military and commercial applications worldwide. Offers high resolution surveillance and radar imaging systems, including the Predator UAV series and the Lynx SAR/GMTI sensor system. The company provides comprehensive solutions for military and commercial applications worldwide and is committed to providing immediately deployable, transformational technology for military operation and weapons systems, as well as civil missions.</p>		
 Military	<p>AeroVironment [Simi Valley, 1971]: AeroVironment designs, develops, produces and supports a portfolio of unmanned aircraft systems (UAS), supplied to organizations within the United States Department of Defense, charging systems for electric vehicle batteries and power cycling and test systems supplied to commercial and government customers. The Unmanned Aircraft Systems business segment focuses primarily on the design, development, production and support of UAS. The Efficient Energy Systems business segment focuses on the design, development, production and support of electric energy systems, which addresses the demand for clean transportation.</p>		
 Military	<p>Elbit Systems [Shafayim, 1965]: Elbit Systems develops, manufactures and integrates advanced, high-performance defense electronic and electro-optic systems for customers throughout the world. UAS they offers includes Hermes series & skylark series of fixed wing drones. They also perform upgrade programs for airborne, land and naval defense platforms, often as a prime contractor. Moreover, they develop and manufacture avionic and aerostructure products for the commercial aviation market. In addition, they provide a range of support services.</p>		

UAV Manufacturers – Military (9/9)

Company	Details	Funding	Investors
	<p>Northrop Grumman [Falls Church, 1939]: Northrop Grumman designs and manufactures military aircraft, defense electronics, precision weapons, commercial and military aero-structures. Also designs and develops Unmanned Aerial Vehicles, RQ-4 Global Hawk and MQ-5B Hunter are combat UAV and Remotec ANDROS fleet of hazardous duty unmanned vehicles. Customers include United States Government, principally the Department of Defense (DoD) and intelligence community.</p>		
<p>Military</p>			
	<p>Boeing [Chicago, 1916]: Boeing designs, develops, manufactures, and sales commercial jetliners, military aircraft, satellites, missile defense, human space flight, and launch systems and services worldwide. It is the world's leading aerospace company and the largest manufacturer of commercial jetliners and military aircraft combined. Developer of long-distance flight UAVs for defense, space and security.</p>		
<p>Military</p>			

Software - Operating System (1/2)

Company	Details	Funding	Investors
 Airware Operating System	<p>Airware [San Francisco, 2011]: Airware is a technology company specializing in the development of autopilots for unmanned aircraft systems. The company provides an enterprise solution for UAV (Unmanned Aerial Vehicles) autopilots that combines hardware, flexible software architecture and an API for customization and expansion. Its development platform enables entrepreneurs, educators and enthusiasts to create unmanned aerial systems for specific applications while maintaining their own intellectual property. This allows users to create a fully functional unmanned aircraft by integrating an autopilot. Airware Aerial Information Platform seamlessly connects airframes, actuators, sensors, payloads, and application specific-software.</p>	\$40.4M	Google Ventures, Shasta Ventures, RRE Ventures, Lemon Labs, Promus Ventures, First Round Capital, Y Combinator, Andreessen Horowitz, Felicis Ventures, Kleiner Perkins Caufield & Byers
 NVdrones Operating System	<p>NVdrones [Pasadena, 2014]: NVDrones provides NV platform, that is an universal app development & distribution platform meant to simplify & consolidate UAV technologies. This comes with affordable hardware that is plug-n-play compatible with top UAV systems (DJI, 3DR, etc). This offers a painless & flexible development experience to developers who can develop variety of applications using the API provided by the company. Also offers a marketplace for apps, where developers can utilize the work of community to offer software solutions on multiple platforms at once. Users can then instantly download drones apps directly to the mobile through their app store. Was incubated at USC Viterbi Startup Garage. Raised \$75,000 of angel funding. Looking to raise a Seed round.</p>	\$75k	
 NavStik Labs Operating System	<p>NavStik Labs [Pune, 2013]: Provides a powerful low-cost Drone Application Platform called Flyt which consists of a flight computer (FlytPOD) and operating system (FlytOS), that allows drone-makers to build custom applications for variety of commercial use-cases. Also offers a micro navigation and control module, NavStik, with a weight of under 10 grams. It can be used as an autopilot with an ability to integrated with any type of air frame and can also be combined with a variety of payloads. It can be used for aerial delivery, agriculture, inspection, film making, surveying, mapping, medical applications and relief operations. It claims to be funded by Venture Center in Jan 2015.</p>		Entrepreneurship Development Center
 BONTIX Operating System	<p>Bontix [Santo Domingo, 2013]: Bontix is a Development Platform for Automatic pilot systems. Bontix creates specialized hardware that is scalable to accommodate and communicate with sensors. Bontix provides users with an admin dashboard for monitoring and an Operations Center for tracking, controlling and commanding the drone/UAV. Also creates API for the programming software of Drones/UAVs. Features of Bontix include remote recording, real-time streaming, battery usage, flight time information etc.</p>		

Software - Operating System(2/2)

Company	Details	Funding	Investors
	<p>DreamHammer [Los Angeles, 2012]: DreamHammer Products is a Software Products Company that is an affiliate of DreamHammer Inc. DreamHammer's Ballista is an intelligent control platform that integrates unrelated unmanned drones and robots from different manufacturers into one system. Ballista can be used to link multiple drones into one master system controlled by a single person. Ballista is built on an open software platform which allows for autonomous and simultaneous control of multiple unmanned vehicles across various domains like space, air, sea and land and can be run from any computer including a tablet or a phone. Ballista also includes an easy to use, robust software development kit (SDK) that can be licensed by developers to integrate their drones, robots and third party apps. DreamHammer has been licensing the software and providing support services to U.S. military and intelligence customers since August 2011.</p>		

**Operating
System**

Software - Fleet Management (1/4)

Company	Details	Funding	Investors
 <p>Fleet Management</p>	<p>SkyWard [Portland, 2012]: Skyward is a venture-backed tech startup which offers a drone fleet management solution. Their software connects UAS operators with regulators and insurers, enabling insurable and legal flights. Provides digital system of record and real-time information exchange to connect the aerial robotics network. Cloud-based tools include administrative dashboards for managers and mobile apps for operators, all connected in real time. Formerly known as Rising Tide Innovations and changed its name to Skyward IO in July 2014.</p>	\$5.8M	Draper Associates, Founder's Co-op, Norwest Venture Partners, Techstars, Verizon Ventures, Voyager Capital
 <p>Fleet Management</p>	<p>Botlink [Fargo, 2014]: Botlink is a cloud-connected platform that allows to operate drone by collecting and processing relevant FAA data. This includes nearby manned aircraft and controlled airspace information. The app displays this data on a map in relation to the position of the drone. Currently in private beta mode.</p>	\$500k	
 <p>Fleet Management</p>	<p>Archon Dronics [Modena, 2014]: Archon software is a multi-drone mission planner used for to design the automatic flights of the drones between recharging stations in a fixed geographical area. It also aggregates the acquired images/video to produce the data that the customer wants.</p>	\$40k	Start-Up Chile
 <p>Fleet Management</p>	<p>SwarmX [Singapore, 2015]: Based in Singapore, SwarmX builds hardware and software for the complete automation and fleet management of drones, including its charging, data processing, data transfer, protection and deployment. Hive and HiveMind are its two products as of Dec 2015. Hive is a dock or a bee hive for drones. Drones land into the hives utilizing infrared technology where they get charged and transfer data in the mean time which is being processed in the Hive & compressed from gigabytes to some hundreds in megabytes. SwarmX's other product HiveMind is a software that performs the tasks of managing hives, data transfer from hives through secured platform, live feed from drones and create missions for each drones.</p>		

Software - Fleet Management(2/4)

Company	Details	Funding	Investors
	<p>vHive [Jerusalem, 2015]: vHive is developing cloud based software platform to revolutionize enterprises' use of Unmanned Aerial Vehicle (UAV) fleets. The software safely enables intelligent automation and accelerated data collection.</p>		
<p>Fleet Management</p>			
	<p>Drone Bevy [Bristol, 2015]: Drone Bevy is a cloud based platform for mission planning, drone fleet management and data processing. Provides an easy to use interface for configuring drone from browser and allows recording & sharing of videos & achievements, creating statistical information from flight controller sensors or any other sensors attached to drone.</p>		
<p>Fleet Management</p>			
	<p>Queen B Robotics [Berkeley, 2015]: Queen B Robotics is an app-based software developer for multi-vehicle management. Built swarm based software for search and rescue, wildlife surveillance and monitoring, security systems for properties, real-time data acquisition from remote locations, in-flight interaction software and 3D mapping.</p>		
<p>Fleet Management</p>			
	<p>Synairgy [Modiin, 2014]: Synairgy develops an automated air traffic control system for commercial use of drones, ensuring safety, efficiency and compliance with regulatory mandates. Some of the features offered by the system includes fleet management which allows a single operator to control multiple drones, mission planning & controlling in real time, task distribution to divide a task in multiple drone systems operating in the airspace of that region.</p>		
<p>Fleet Management</p>			

Software - Fleet Management(3/4)

Company	Details	Funding	Investors
 <p>Fleet Management</p>	<p>Avison Robotics [Santa Monica, 2014]: Avison Robotics system enables autonomous operation of drones and UAV fleet management. Platform is comprised of Air Traffic Control (ATC) software, drone built-in hardware components, and integration API. Their patent pending cloud-based ATC system allows user to manage any number of drones with business applications ranging from entertainment to enterprise logistics (expedited delivery). ATC is designed to automatically regulate traffic for all UAVs connected to the platform. Smart drones powered by Avison autopilot, sensors and vision controls can fly and act safely (follow optimal routes, avoid collision in the air, land securely to protect individuals and property on the ground). Operators can plugin their drone or fleet of drones through the standard API, built waypoints manually or allow system to manage routing automatically, and complete their mission safely and collision-free.</p>		
 <p>Fleet Management</p>	<p>Dataerion [Sofia, 2014]: Dataerion simplify the aerial intelligence process by focusing on the last mile survey result emphasizing the data collection methodology, analysis and interpretation. Developed Skyglyph, an aerial scouting cloud platform that simplifies the scouting process and management of flight control, asset mapping, site monitoring, data transfer and visual result interpretation.</p>		
 <p>Fleet Management</p>	<p>PixiePath [Santa Barbara, 2014]: PixiePath is building a cloud-based drone fleet management platform. Its software handles drone movement in real time, and it's all browser-based so it can be accessed from any connected device. It also helps pilots monitor their drones' battery levels, locations and tasks. Currently in beta mode.</p>		
 <p>Fleet Management</p>	<p>Flyver [Sofia, 2013]: Flyver is a drone software company providing solutions for aerial video surveillance and security using a fleet of autonomous drones. Their product Flyver Eye, offered as Software as a Service (SaaS), is the cloud based aerial surveillance platform, featuring live streaming, fleet management, and can autonomously control a fleet of drones. Offers Flyver SDK for developers to develop their own app using android smartphone and the SDK. Aims to build a developer ecosystem by providing development framework, IDE, drone simulator and market place.</p>		

Software - Fleet Management (4/4)

Company	Details	Funding	Investors
 Fleet Management	<p>SPH Engineering [Riga, 2013]: SPH Engineering is developing Universal Ground Control Software (U[g]CS) to control whole fleet of drones. They are developing this single software as a central management of all types of unmanned vehicles. It supports multiple drones of different types and from different manufactures, having same autopilot. Autopilots it supports are MikroKopter, Ardupilot APM/Pixhawk, DJI Naza-M(Phantom 2)/Wookong-M/A2, ARDrone, Microdrones. Available for purchase for manufacturers and professionals from their website.</p>		
 Fleet Management	<p>Garuda Robotics [Singapore, 2013]: Garuda Robotics is building a platform to enable the next generation of drone services and applications. Their platform enables users to control these mixed fleets without the expense of building and maintaining custom software and hardware. Their drones are used by businesses such as Land Survey and Environmental Management, Agriculture, Fisheries, Oil and Natural Gas. Garuda provides a dashboard for fleet management, and its own cloud storage. Their extensive library of built-in behaviour modules makes it possible for developers to build drone apps. Garuda Cloud API allows qualified drone systems to connect to their platform. Has raised \$1M in funding from unnamed angel investors.</p>		
 Management - Mapping	<p>DroneDeploy [San Francisco, 2013]: DroneDeploy is a smart drone management platform built to be simple, safe and powerful, controlling multiple drones, from anywhere, on any device. It builds a dynamic flight path (for task described to it) that avoids other aircraft, airports, and even urban areas following the local laws. Offers aerial mapping and 3D modelling solutions for agriculture, construction and mining.</p>	<p>\$11M</p>	<p>AngelPad, SoftTech VC, Data Collective, Redpoint Ventures, Draper Fisher Jurvetson (DFJ), Emergence Capital Partners</p>

Software- Autopilot (1/3)

Company	Details	Funding	Investors
 SKYDIO Autopilot	<p>Skydio [San Francisco, 2014]: Skydio's unique computer vision and motion planning algorithms coupled with the cheap image sensors and processors in mobile phones give drones the ability to navigate intelligently with respect to their surroundings. This will deliver a step change in usability, reliability, and capability for the emerging drone market, allowing existing applications to scale while opening up many new ones. Their goal is to be the navigation solution that manufacturers, service providers, and their end users rely on. Currently in Stealth mode.</p>	\$3M	Andreessen Horowitz, Accel Partners
 Autopilot	<p>Dronomy [Tel Aviv, 2015]: Dronomy develops sense-and-avoid technology that will allow drones to fly autonomously among obstacles. The team consists of Israel's elite intelligence and air force units with decades of combined experience in Israeli high-tech companies. Raised \$1.5M in seed round led by Battery Ventures.</p>	\$1.5M	Battery Ventures, lool ventures, Oryzn Capital
 Autopilot	<p>Augmented Pixels [Palo Alto, 2010]: Augmented Pixels (formerly AR23D) offers products based on Augmented reality technology for sales increase and ROI. Their solutions target retail, real estate, marketing and media. For retail they can engage customers by offering custom content overlays for products. Created a platform for indoor drone navigation that significantly reduces accident rates and minimizes human requirement. They can also make games (usually for toys), where users gain a small discount on the featured product if they win. Pnp accelerator alumni. Clients include National Geographic, KOHLS, Flagshipro, Jayman, Harkus, Paladone.</p>	\$1.5M	The Hive, AVentures Capital
 Autopilot	<p>Percepto [Tel Aviv, 2014]: Percepto is a tiny black box that consists of a Tegra K1 based processing unit and a camera which easily connects to almost any drone, enabling users to create, upload and use existing apps from Percepto Marketplace. Provides hardware and SDK for developers to develop mobile apps which can interact with the camera and different applications can be achieved. Raised \$101.5k on a successful campaign on Indiegogo.</p>	\$1M	Elevator Fund, Emerge Funds Investments

Software- Autopilot (2/3)

Company

Details

Funding

Investors



FreeSkies [San Francisco, 2015]: FreeSkies provides autonomous software solution in a form mobile application that controls all aspects of drone, allowing user to focus on other aspect of creating video. Offer improved stability and control through a gesture based interface, a 10x improvement on GPS navigation using local referencing (visual inertia odometry), seamless obstacle avoidance, and robust autonomous control.

Autopilot



Qelzal [San Diego, 2014]: Qelzal developing obstacle avoidance systems for small commercial drones. These systems are to make drones autonomous and safer in near-earth flights.

Autopilot



SmartAP [Moscow, 2011]: SmartAP Autopilot offers a flight control system for multirotor Unmanned Aerial Vehicles capable of fully autonomous flight. It has a powerful microcontroller STM32F4 from STMicroelectronics, 9-axis Inertial Measurement Unit and the latest GPS receiver from Ublox integrated onboard. SmartAP supports any type of multirotor UAV with outstanding navigation and control precision.

Autopilot



OpenPilot Foundation [Brea, 2010]: OpenPilot Foundation is an Open Source community project aimed at developing low-cost, powerful stabilization and autopilot platforms. Developed OpenPilot ControlCopter Platform, that can fly any airframe from fixed wing to an octocopter and is configured and monitored using the OpenPilot Ground Control Station (GCS) software; and OpenPilot Revolution board, Revo, an autopilot using the STM32F4 Micro-controller containing a hardware floating point unit (FPU) and 32bit.

Autopilot

Software- Autopilot (3/3)

Company	Details	Funding	Investors
	<p>ArduPilot [San Diego, 2009]: 3D Robotics provides open source autopilot, ArduPilot for drones. This multi-platform autopilot consists of hardware, software and firmware (to configure hardware according to the type of drone being used). 3D Robotics designs and manufactures small unmanned aerial vehicles, especially known for its consumer drones.</p>		
<p>Autopilot</p>			
	<p>PX4 Autopilot [Zurich, 2009]: Pixhawk Autopilot is an open source autopilot platform (hardware+software) designed by PX4 autopilot project and manufactured by 3D Robotics. It features advanced processor and sensor technology from ST Microelectronics and a NuttX real-time operating system, delivering incredible performance, flexibility, and reliability for controlling any autonomous vehicle. Available for purchase on 3D Robotics store at \$200. This open source community autopilot development platform partners with Computer Vision and Geometry Lab and DroneCode and industry partner is 3D Robotics</p>		
<p>Autopilot</p>			
	<p>SkyCircuits [London, 2008]: SkyCircuits designs and markets autopilot and ground station systems for unmanned aircraft. All products are created in-house. Provides definitive knowledge and support of their systems. Specialises in civilian applications and understand the needs of non-specialist operators, use of custom payloads and varied mission requirements.</p>		
<p>Autopilot</p>			

Software – Others (1/4)

Company	Details	Funding	Investors
	<p>Hivemapper [Palo Alto, 2014]: Hivemapper is a real-time community-edited map, built for drones. They have built a cross drone platform community edited mapping tool. This allows users to capture and share new waypoints and builds safe roads and highways for drones by connecting waypoints together.</p>	\$3M	Spark Capital Advisors (India) Private Limited, Harrison Metal Capital, Founder Collective, Google Ventures, Homebrew
Others			
	<p>Vertical AI [Mountain View, 2014]: Vertical AI is bringing the capabilities of computer vision guided robotics to cinematography. Their first product is a vision-guided camera motion control platform to enable filmmakers to capture high speed precision tracking shots when filming dynamic subjects. The camera-person simply selects the subject of interest and the platform tracks, stabilizes and frames the subject in motion. The system is called Sense 1 kit will retail for \$1250 in 2015 end which includes an on-board unit, base station, Futaba RC receiver/ transmitter, and an Android or iOS companion app. It needs a camera with an HDMI output and a gimbal with an sBUS control input to operate.</p>	\$120k	Y Combinator, FundersClub, Creative Destruction, Communitech
Others			
	<p>DroneThunder [Barcelona, 2015]: DroneThunder is a drones solutions company focuses on automatic security surveillance. Use sensors, big data and video analytics to provide a state-of-the-art solution which gives the possibility to collect and manage data from indoor and hard to access places.</p>		
Others			
	<p>Citadelta [Zapopan, 2015]: Citadelta is a drone based software platform for creating and maintaining inventories and counting objects from aerial mapping data. This software allows user to have a log of number of objects present in the mapped area by using aerial mapping data and image processing algorithms.</p>		
Others			

Software – Others (2/4)

Company	Details	Funding	Investors
	<p>FloNew [Orlando, 2015]: FloNew is building a mobile app that provides automated drone-delivery using beacons. User just has to open the app and see via Esri his location as well as those of the Gimbal beacons it reads, using Nexmo then click the location on the app and the drone will go to the desired beacon. By this drone can be send from beacon to beacon through the app with ease, hosted on Atlantic.net's cloud servers. Cool thing here is that Smith and Velez (founders) used Node.js to build its code. They presented this prototype at Disrupt NY Hackathon.</p>		
Others			
	<p>RCFlyMaps [Gig Harbor, 2014]: RC FlyMaps is an application that helps RC Flyers locate safe places to fly.</p>		
Others			
	<p>Altitude Angel [Reading, 2014]: Altitude Angel is building solutions for automated Air Traffic Control for UAS, accessible via standard APIs to support any vendor, any drone. Provide enhanced capabilities and route-planning, as well as full plan-to-avoid capabilities for macro-scale automated avoidance. Their cloud platform knows all about local laws, about NOTAMs, about manned aviation in the USA, UK and Spain, about weather conditions globally, and have a full terrain model of the world. Customers too send their UAS telemetry data in real-time, and if detected a scenario that needs corrective action to avoid a collision, they send targeted waypoint or turn rate instructions directly to the UAS. The cloud platform accurately performs collision avoidance and conflict resolution (including predictive analysis) before sending the most appropriate instructions to all UAS involved in a conflict situation.</p>		
Others			
	<p>DroneScan [Durban, 2014]: DroneScan develops software for drone based inventory scanning for large warehouses. Developed DroneScan Airborne data collection system that uses the latest drone platforms, hardware, software, scanning and communications technology to provide robotic scanning solutions to capture and process data of high shelves in large uniform warehouses. The system focuses on intelligent indoor navigation and interface to multiple devices and systems. Uses barcode or RFID reader equipped drones with on-board sensors to keep them within optimal scanning range from the racks and pallets in the warehouse while they scan the item and shelf barcodes.</p>		
Others			

Software – Others (3/4)

Company	Details	Funding	Investors
	<p>Melown [Prague, 2013]: Melown offers Melown Maps, a global 3d mapping software to map areas using aerial imagery. Founded by Ivo Lukacovic, a serial entrepreneur and an aviator.</p>		
<p>Others</p>			
	<p>SecuDrones [Montesson, 2011]: SecuDrones designs and develops exploitation software for micro and mini UAVs which includes ground control station with 3D cartography and video/image processing software for mission planning, monitoring and replay. These micro/mini UAVs and exploitation tools are suitable for applications in Civil Security and Protection, Defence, Industry and Environment. In addition they also provide various services such as leasing, training and R&D studies for their customers. Also sale micro UAVs VTOL type.</p>		
<p>Others</p>			
	<p>Kittyhawk.io [San Francisco, 2015]: Kittyhawk is the platform of record for drones. Gives pilots the ability to document their flights and experience, while enabling businesses to manage their fleets. Developing new features for web and iOS apps focusing on providing intelligence, such as weather and flight airspace restrictions so that Kittyhawk pilots are always flying safe and aware.</p>		
<p>Others</p>			
	<p>Ascendr [Boston, 2015]: Ascendr is transforming logistics for commercial drone services by offering a premier equipment management solution for unmanned platforms. This cloud software makes it very easy for businesses to control their UAS logistics data in order to extend the life of their assets, reduce maintenance costs, and scale their operational cadence without added complexity</p>		
<p>Others</p>			

Software – Others (4/4)

Company	Details	Funding	Investors
 CLUE	<p>Clue [Tokyo, 2015]: CLUE is developing drone OS platform and drone data management solutions. Provides Drone Cloud, a data management cloud service for the drones that offers businesses a centralized management for projects & acquired data.</p>		
Others			

End-To-End Solution Providers (1/4)

Company	Details	Funding	Investors
 SKYCATCH	<p>Skycatch [San Francisco, 2013]: Skycatch allows its users to deploy flying autonomous drones with real-time HD imagery and video from the sky. Drone can be easily managed using Skycatch’s website & apps and build custom drone apps using the Skycatch Drone API. Provides a Dashboard tailored to meet the organizational needs of each client individually. The company has many clients including Bechtel, Bouygues, First Solar, Solar City and Rio Tinto. Investors include ffVC and Google Ventures. Raised \$3.17M in Convertible Note in May 2014.</p>	<p>\$38.4M</p>	<p>Avalon Ventures, ff Venture Capital, Google Ventures, Sherpalo Ventures, Sierra Maya Ventures, Qualcomm Ventures, Riverwood Capital, Bee Partners, zPark Capital</p>
	<p>PrecisionHawk [Indianapolis, 2011]: Precision Hawk is a civil unmanned aerial systems and remote sensing company. PrecisionHawk’s Plug-and-Play platform comes with a fully integrated Sensor Suite. PrecisionHawk’s UAV platform, the Lancaster Hawkeye Mk III, provides users with fast and accurate data acquisition that is then processed and delivered to clients in relevant and usable formats. The team is comprised of professionals with backgrounds in remote sensing, unmanned aircraft operations, software development, data processing and GIS systems development.</p>	<p>\$11M</p>	<p>Millennium Technology Value Partners</p>
	<p>Sentera [Minneapolis, 2014]: Sentera is a designer, developer and manufacturer of drones, sensors and software for the agriculture, infrastructure and public safety industries. Developed Phoenix drone, a fixed wing drone with 60 minutes of flight time, interchangeable payloads and high durability. Software solutions include OnTop & AgVault. OnTop platform provides desktop and mobile applications for the cellular and broadcast tower industry to manage big data associated with inspection imagery. AgVault is a data driven platform to harvest field & crop information, field scouting and diagnosis.</p>	<p>\$5M</p>	
	<p>Airphrame [San Francisco, 2012]: Airphrame is a service that uses a network of “remote sensing devices” it calls Airphrames to provide people with aerial data — including digital images, orthographic maps, 3D models, and visual analysis — without having to think about operating a drone. The company focuses primarily on the engineering and insurance sectors right now. According to his website, the company has developed a fleet of drones, at a 10x cost reduction from comparable systems. It is also led by Hao Chen, who is in charge of flight systems and computer vision, and Graham Gibbons, lead software engineer.</p>	<p>\$4.2M</p>	<p>August Capital, Floodgate</p>

End-To-End Solution Providers (2/4)

Company	Details	Funding	Investors
	<p>Identified Tech [Pittsburgh, 2013]: The company has developed a mapping drone system which allows to send a quadcopter around a job site to create a topographical map of the situation. It is completely autonomous, and the batteries can be hot-swapped as the drone maps. The system comes with a base station where the drone comes to roost when its done. All the data is being uploaded to a cloud platform which offers analytics tools for further processing of data. The company claims to be profitable with a number of contracts in Pennsylvania with a heavy focus in the Marcellus Shale region. Company's founder, Zhang, claims that the company has experienced consistent growth every month & has forecast a 10x growth in deployments and revenue over the course of the year 2015. The system is costly, hence, they can offer subscription and paid services for using the tool, as Zhang said.</p>	\$2M	Birchmere Ventures, Innovation Works, Startbot
	<p>Event 38 [Akron, 2011]: Event 38 Unmanned Systems designs and manufactures drones, specialized optical sensors, and a Drone Data Management System for Construction, Environmental Conservation, Mining, Surveying and Precision Agriculture. Current products include an autonomous fixed wing aircraft for on demand mapping and a multi-rotor for aerial photography and inspection.</p>	\$40k	Start-Up Chile
	<p>ZXY-Builders [Amsterdam, 2015]: ZXY-Builders is a technology-based company that develops, integrates and operates small Unmanned Aerial Vehicles (UAV) for remote sensing applications. They offer services and assistance to customers in setting up a complete end-to-end UAV operating and sensor data processing solution. Develops the DroneLapse platform for capturing aerial data using autonomous drones. DroneLapse scans sites on a daily basis and sends the data to a secure cloud portal for immediate use. DroneLapse is used in construction, energy, utilities and governmental applications.</p>		
	<p>HiveUAV [New South Wales, 2014]: HiveUAV combines unmanned aerial vehicles and automated docking stations to help agriculture, industry and emergency services monitor remote locations from the air. Hive is a solution that will enable automated take-off, landing, data transfer and charging that can be located just about anywhere. HiveUAV solution can enable UAVs to fly autonomously and complete missions on a large scale. Also provides Honeycomb, a software that utilises the technology and functionality provided by the UAV and the Hive. Honeycomb is the main access point for the user to the system to determine status of UAV missions, future scheduled and planned missions, mission flight information, access to live imagery and captured imagery.</p>		

End-To-End Solution Providers (3/4)

Company	Details	Funding	Investors
	HoverX [Hyderabad, 2014]: Developer of technology solutions and manufacturer of unmanned aerial vehicles. Developed docking system for MAVs to enable fully autonomous operation, collision avoidance system. Products find their applications in filming, surveillance, integration of GIS with UAVs for mapping purposes, security forces along with search-rescue operations. The firm works with the Indian Army.		
	M-CADOR [Paris, 2012]: M-CADOR is an innovative startup powering commercial drones for the enterprise, provides global services, from the flight of the drone to the restitution of the data in an augmented way. Developing different technologies, swarm, interface, cloud, sensors that enable a wide variety of integrated solutions. Offers solutions for precision agriculture, mapping, defense & security & custom solutions. Created powerful drone apps & solutions for a large variety of industries including agriculture, insurance, utilities, governments, oil & gas. They integrate flight operations and aerial data with existing software & business processes and geographic information systems & turn these data into decisions. Honored by lots of distinctions in the agricultural industry.		
 Precision Agriculture	HoneyComb [Wilsonville, 2012]: HoneyComb provides drone-based aerial imaging solutions for precision agriculture. Provides AgDrone system having a fixed wing drone that offers access to high resolution aerial information using a cloud-based data service to maintain and evaluate information, such as crop management, yield forecasting, land surveying, and insurance monitoring. The company also provides service and repair to its product. It sells its product through dealers.	\$1M	Portland Seed Fund
 Precision Agriculture	AgEagle [Neodesha, 2013]: AgEagle Canada sells unmanned aerial vehicle systems specifically meant for use in agriculture. Provides AgEagle RAPID, a crop scouting drone for precision agriculture installed with NDVI camera, it provides georeferenced imagery for crop scouting.		

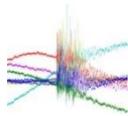
End-To-End Solution Providers (4/4)

Company	Details	Funding	Investors
 <p>Precision Agriculture</p>	<p>Agribotix [Boulder, 2013]: Agribotix is a drone-enabled software company that provides imaging and analysis for precision agriculture. It offers Agribotix Hornet Drone, a drone airframe, and Agribotix Infrared and Thermal Sensors, which are thermal cameras that collect images over fields of interest. It also offers Agribotix Image Processing Services, a software solution that delivers georeferenced aerial images.</p>		
 <p>Precision Agriculture</p>	<p>AgPixel [Johnston, 2011]: AgPixel offers drones, sensors and data processing software packages for the collecting & analysis of data. The software provides orthomosaic maps, vegetation health reports & agricultural data reports. User may upload/draw a boundary file on the software platform & schedule the next flight. Data is then gathered using a drone & their proprietary flight planning & camera-control software. Using AgPixel Uploader, flight images are sent for processing which are then processed and made available to the user by the next business day. Acquired by RoboFlight Systems in 2014, after which AgPixel has been operating name under which the product & services are being offered.</p>		

Hardware Parts & Peripherals (1/8)

Company	Details	Funding	Investors
 <p>Navigation</p>	<p>SwiftNav [San Francisco, 2012]: Swift Navigations's product Piksi is a low-cost, high-performance GPS receiver with Real Time Kinematics functionality for centimetre level relative positioning accuracy. Its small form factor, fast position solution update rate, and low power consumption make Piksi ideal for integration into variety of applications like agriculture, drones and construction. Piksi's open source firmware allows it to be easily customized to the particular demands of end users' applications, easing system integration and reducing host system overhead. Raised \$166k on Kickstarter. Sold more about 1,000 modules to more than 300 customers.</p>	<p>\$13.6M</p>	<p>Eclipse, New Enterprise Associates, Promos Ventures, First Round Capital, Qualcomm Ventures, Felicis Ventures, VegasTechFund, Lemnos Labs</p>
 <p>Navigation</p>	<p>Panoptes [Cambridge, 2014]: Panoptes is developing collision free techniques for drones to enable the commercial applications. Developed eBumper4, a collision avoidance system for drones which provides the user with better control over the drone & carefree about collisions. It is a spin-off from Aurora Flight Sciences.</p>		
 <p>Navigation</p>	<p>Skybotix [Zurich, 2009]: Skybotix is a developer of autonomously navigating Miniature Aerial Vehicles. It manufactures VI-Sensor. The VI-Sensor is a light-weight, fully-calibrated and time-synchronized hardware platform for visual-inertial odometry applications, e.g. for UAV navigation in cluttered environments. It features a high-quality global shutter HDR stereoscopic camera and an industrial-grade inertial measurement system.</p>		
 <p>Navigation</p>	<p>Whirlybird [Mumbai, 2004]: Whirlybird is a developer of technology products in the field of unmanned aerial/ground vehicles. The categories of products it manufactures include navigation systems, telemetry & control. Applications of Inertial measurement unit include 3D navigation & positioning, short range projectile guidance etc. Application industries in which the products are used include robotics, defense, monitoring of harmful places in industries etc. The company was seed funded and incubated by SIDBI Innovation and Incubation Center of IIT Kanpur.</p>		

Hardware Parts & Peripherals (2/8)

Company	Details	Funding	Investors
 <p>Sensors</p>	<p>Mavrx [San Francisco, 2012]: Offers Mavrx sensor that can operate as a handheld tool, fly on a plane or Unmanned Aerial Vehicle (UAV), or mount on a tractor or 4-wheeler for in-field plant health, fruit maturity mapping or land and resource analysis. The sensors are outfitted with GPS orientation, lighting and weather sensors that work with WiFi. Also provides an easy-to-use web platform for farmers to get a real-time management dashboard for their entire field without having to physically walk the farm. Seed investors include Dave Morin, Founder of Path Inc. and Kevin Colleran, Partner at General Catalyst VC. Was incubated at Entrepreneur First, London.</p>	\$80k	Slow Ventures, Drone.vc, Aslanoba Capital, Bloomberg Beta
 <p>Sensors</p>	<p>Reality Analytics [New York City, 2015]: Reality Analytics enables devices to understand reality in image, sound, acceleration, vibration and other sensor inputs. The technology is based on patented, advanced artificial intelligence techniques optimized for sensor inputs that can get results often unattainable with other tools.</p>		
 <p>Sensors</p>	<p>IR Distro [Burton, 2014]: IR Distro provides Infrared and Thermal Imaging Solutions for a verity of industries. Specializing in multiple platform IR/ Thermal solutions such as Hand-Held, FPV, and Drone platforms. Provides</p>		
 <p>Sensors</p>	<p>MicaSense [Seattle, 2013]: MicaSense develops technologies that enhance the capabilities of robotic platforms, delivering integrated solutions for data gathering and processing. Develops sensor technologies for unmanned aircraft systems and associated data processing and management services. Products includes RedEdge, an advanced, lightweight, multispectral camera optimized for use drones that provides accurate multi-band data for agricultural remote sensing applications. ATLAS is a powerful data service for storage, processing, analysis, and presentation of multispectral data. Using a secure cloud-based server, raw data is processed into actionable information that can be accessed from any internet-connected device.</p>		

Hardware Parts & Peripherals (3/8)

Company

Details

Funding

Investors



RunCam [Toronto, 2013]: RunCam specialises in FPV cameras and camcorders development & manufacturing. Provides a variety of cameras, transmitters & receivers, & combo packs at low prices.

Sensors



Tiger Motors [Fremont, 2009]: T-motor Brushless motor develops & provides components and systems for the Aerial photograph, some Industry and commercial application in the precision drive technology sector. They mainly offers variety of motors & propellers for drones along with various other components.

Others



Stereolabs [San Francisco, 2008]: Stereolabs offers stereoscopic 3D depth sensing devices for entertainment and industrial markets which can be utilized in drones, robots & cars to provide an 'understanding' of depth. Their primary product is ZED Stereo Camera, a lightweight depth sensor based on passive stereovision. Available for order through their website at \$449.

Others



Sagetech Corporation [Hood River, 1998]: Sagetech Corporation designs and manufacturers superior electronic subsystems for the unmanned and manned aviation industries. Including Mode S Transponders and Clarity ADS-B receivers. Also provides XP series of transponders that are small, light weight, plug and play components and requires low energy consumption. Flight Computational Partners includes Cloud Cap Technologies, UAV Navigation & Airware. Clients include NASA, Northrop Grumman, Insitu, University of Florida and many others.

Others

Hardware Parts & Peripherals (4/8)

Company

Details

Funding

Investors



QuadRevo [Santa Clara, 2014]: QuadRevo is created by multirotor FPV enthusiasts. They provide variety of multirotor frames. All designing and prototyping is done in a garage in sunny California. Frames are made in USA. They provide frames in a price range of \$50-\$75.

Frames



Lumenier [Sarasota, 2013]: Lumenier designs and manufacturers fine FPV multi-rotor frames and other gear. Products include QAV400, QAV500, and QAV540G FPV airframes. Earlier these products had been branded under FPV Manuals but with the creation of Lumenier, these products were consolidated under the Lumenier brand. Also provides motors, cameras, lipos, accessories, airframes, and more. The company innovates in the field of FPV, and work closely with its sister companies, fpvmanuals.com and its distributor GetFPV.com.

Frames



DroneKraft [New York City, 2013]: DroneKraft offers high-performance FPV quadcopter frames. 3mm carbon fiber throughout makes the frame lightweight and impact resistant. Extended arm set accommodates up to 7" propellers. Three separate vibration dampening systems work together for super-responsive flight and smooth video transmission and recording. The company is currently in beta mode, will soon start selling frames through partner retailers.

Frames



Quaternium [Valencia, 2011]: Quaternium develops and manufactures drone base frames under 'Spidex' series and camera stabilizers. Spidex series includes Spidex micro, frame designed for FPV mounting; Spidex V3, frame with GroPro stabilizing base; Spidex Pro, folding base but low load capacity; & Q800, 6 rotor base for multicopters. The company provides frames for video and photography drone development to individuals and organizations. These frames are available to be purchased from their website.

Frames

Hardware Parts & Peripherals (5/8)

Company	Details	Funding	Investors
	Gryphon Dynamics [Daegu, 2009]: Gryphon Dynamics designs, manufacture & sale body-frames for drones. Offers 4 different types of body frames: Dodeca, 12 winged frame; Octa, 8 winged fram; Hexa, 6 winged body frame; & X8, quadcopter body frame. They also offers propeller wings, motors, and other parts required for developing a drone.		
Frames			
	JIYI UAV [Shanghai, 2014]: JIYI UAV provides technology tools to users to build their own UAV drones. Their payloads integrate hardware and software into an aerial information platform for the user's application. It provides with flight control, PTZ, optical flow etc. The applications in UAV include aerial photography, industry inspection, precision agriculture (like crop scouting, field mapping, farm surveillance, livestock monitoring, herbicide spray, etc.)		
Controller			
	UAVx [Santa Monica, 2014]: UAVX drone controller 'Gravity' is a 7 inch touchscreen with Google Maps Navigation, 2 channels of live HD video, real-time telemetry and Google Glass Heads-Up Display. Integrated telemetry provides altitude, heading, battery voltage, GPS status, and airspeed. The company is currently in the development phase.		
Controller			
	IronShield [Arlington, 2013]: IronShield (IS) develops portable ground control stations (GCS) for unmanned aerial vehicles (UAV). Its Iron Shield Mission Planning System (ISMPS) is an Android-based portable Ground Control Station (GCS) consisting of HW/SW to control a broad range of micro-Unmanned Aerial Vehicles. The product allows the user to actively plan and complete missions while in the field without requiring network connectivity. The capabilities include analysis of data collected during a mission, along with the ability to directly control the UAV. The system allows for ease of expansion and can support an array of HW/SW combinations.		
Controller			

Hardware Parts & Peripherals (6/8)

Company	Details	Funding	Investors
 <p>Controller</p>	<p>Fighting Walrus [Brisbane, 2013]: Fighting Walrus Radio is an iOS accessory that uses a 900 MHz link to give the user up to a 1-mile range for controlling the Parrot AR.Drone 2.0. The system can report UAV's critical flight systems and log flight data within a one mile range, and it's compatible with all MAVLink drones. For the device to work, the pilot has to connect a radio receiver to the drone, which will allow it to operate outside of Wi-Fi range and will allow it to communicate directly with the Fighting Walrus device. The team also plans on selling ready-to-fly drones with the device already installed. Raised \$23k on Indiegogo.</p>		
 <p>Controller</p>	<p>Flytrex [Tel Aviv, 2013]: Flytrex is similar to a black box on an airplane. It records the drone flight data. Flytrex is a leading network for UAV, Quadcopter, Hexacopter, Octocopter and Multirotor pilots. Mission analyzer, personal records, badges and near-by pilots. The Flytrex Core is a complete flight tracker system.</p>		
 <p>Station & Batteries</p>	<p>Skysense [San Diego, 2013]: Skysense provides remote-controlled battery charging stations and pads for commercial drones. Offers Skysense Droneport, a remote-controlled enclosure to hold a charging pad and drone while charging and stationing; and syncs sensor data to the cloud and connectivity within their Skysense Droneport network. The company's products enable users to remotely manage their flight missions in the areas of agriculture, inspection, mining and energy, and security.</p>	\$120k	Qualcomm, Techstars
 <p>Charging Station & Batteries</p>	<p>LaserMotive [Seattle, 2007]: LaserMotive is developing wireless power delivery systems using laser beams to transmit electricity without wires, for applications. They have developed a two part hardware system, consisting of a transmitter and a receiver. The mobile transmitter is capable of delivering tens to thousands of watts of DC power to electric drones (fixed wing or VTOL), over a distance of hundreds of feet to miles away. This ground-to-air recharging will both power the drone and charge the on-board battery while in flight. The transmitter may be based in an SUV, van or other mobile platform or on a static platform or building. The receiver is mounted on the drone and tied into its power system. Winner of 2009 NASA-sponsored Power Beaming competition.</p>		Space Angels Network

Hardware Parts & Peripherals (7/8)

Company

Details

Funding

Investors



Charging Station & Batteries

Dronoco [Amherst, 2015]: Dronoco is trying to build a city-wide networks of standardized, fully automated, battery exchange stations for use by all commercial grade multirotor UAV's, thereby providing unlimited flight distance and duration. These are fully automated, battery exchange platforms that all UAV's can use for a small refueling fee.



Station & Batteries

Elistair [Lyon, 2014]: Elistair has developed SAFE-T, a smart tethered station for civilian drones, offering extended possibilities to operators and drone users. Its micro-tether provides unlimited power and high speed data transfer which enables large access to a global aerial vision, in real time and in a secure manner. SAFE-T is a solution for multiple applications like surveillance, inspection, telecommunications and TV broadcast. Designed to be easily transportable and deployable on any type of terrain, SAFE-T is compact, lightweight and operational in seconds.

Charging Station & Batteries

Tattu Uav Battery [Provo, 2013]: Tattu is a professional UAV battery company designing, developing and manufacturing smart battery solutions for UAVs which can be used in military drones, security, survey and aerial filming. These batteries go with majority of products from famous companies like DJI, Cinestar, Droidworx, Parrot and other UAV drones. Designed Tattu plus, an intelligent battery management system (BMS), which smartly manages battery. Its smart functions includes self balancing, alarm, capacity gauge, protecting battery from over charge and over discharge, self discharge to storage condition, & battery life cycle check.

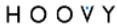


DSLRPros [Oakland, 2013]: DSLRPros sells drone filmmaking kits. The company carries out modifications to the standard quadcopters - they modified the motors for better lift and stability -- and attaches the camera with a transmitter that lets user see what's being shot from below. They also installed the GoPro to a gimbal to eliminate vibrations. The company also provides service installations and repair on machines. Has customers like Google, Amazon, NASA, SpaceX and Sony.

Hardware Parts & Peripherals (8/8)

Company	Details	Funding	Investors
	<p>Third Eye Systems [Herzliya, 2010]: Third Eye Systems is developing Artificial Intelligence based, aEye, for drones to detect humans & suspicious objects on a pre-defined path. This plug-n-play device can be easily integrated serially and give robots/drones the ability to identify a human presence in the vicinity of its route. It records at the quality of 1080p & also features thermal camera.</p>		
	<p>Cloud Cap Tech [Hood River, 1999]: Cloud Cap Technology specializes in stabilized camera gimbals for both unmanned and manned applications. Small inertial measurement sensors support robotics applications. Products are Tactical ISR Solutions, their TASE Imaging Systems provide superior image quality and offer the lowest size, weight and power (SWaP) requirement in the industry. Claimed to be proven in the harshest environments these payloads are useful in military operations, public safety missions and commercial surveillance projects. Their Piccolo Flight Management System provides complete solution in autopilot, navigation, flight management, and ground control.</p>		

Service Providers (1/26)

Company	Details	Funding	Investors
 Horizontal	<p>Redbird [Paris, 2013]: Redbird offers data capture & analytic services using a fleet of long endurance, fixed wing and rotary wing UAS. Offers UAS for industrial and institutional clients, for single-shot or recurring missions with reproducibility needed. Its UAS are provided with digital acquisition sensors such as RGB photo and video, infrared, multispectral and other sensors. The company provides data analyses in accordance to customer's needs with all data being georeferenced. It is among the first civilian UAS operators in France authorized by the DGAC to operate long endurance UAS since April, 2013. The company has a strategic partnership with Monnoyeur Group, a French distributor of construction machinery and services.</p>	\$2.91M	GDF SUEZ
 Horizontal	<p>GeoVantage [Peabody, 1998]: Geovantage captures high resolution imagery and processes it to deliver GIS-ready imagery. Operated in projects in more than 15 countries. Acquired by John Deere in 2005. GeoVantage founders and investors relaunched GeoVantage as an independent company in 2008. They primarily serve the agriculture, forestry and oil & gas markets.</p>	\$1.11M	
 Horizontal	<p>Mountain Drones [Denver, 2013]: Mountain Drones Inc. provides Unmanned Aerial System solutions uniquely purposed for environmental monitoring. Developing technology capable of gathering valuable environmental data (including snow-water-equivalent). Business relationships have been developed with key hydrology, environmental, and snow science customers. Revenue growth will be driven by recurring service contracts and equipment sales.</p>	\$25k	TellurideVA
 Horizontal	<p>Airpix [Mumbai, 2006]: AIRPIX provides aerial data collection & processing services to industries like real estate, GIS, industrial inspections, mining, agriculture and surveying using UAVs. Offers inspection and monitoring services, aerial survey and remote sensing services and aerial cinematography.</p>		

Service Providers (2/26)

Company

Details

Funding

Investors



[Drone Van Java](#) [Bandung, 2015]: Drone Van Java provides drone solution for various needs such as agriculture, mining, inspection and even documentation.

Horizontal

[Terrestrial Imaging](#) [New Jersey, 2015]: Terrestrial Imaging, LLC is bringing high-quality aerial photography, aerial imaging, aerial mapping and aerial inspection services to the masses using FAA licensed pilots flying unmanned aerial vehicles with high resolution cameras. Offers services for real estate, agriculture, insurance, construction. mapping & events.

Horizontal



[M Waypoint](#) [Singapore, 2015]: SM Waypoint is a flight services company providing remote sensing solutions utilising team of certified pilots and fleet of professional unmanned aircraft in Asia-Pacific region. Digital Satellite Services, UAS Flight Services, Advanced Analytics are a few of the services being offered by the company. SM Waypoint is headquartered in Singapore with regional offices throughout SouthEast Asia.

Horizontal



[Starscream Aerial](#) [Red Deer, 2015]: UAV drone company in Alberta that provides imaging services to the Oil and Gas, Agriculture, Construction and Insurance industries. Services they offer includes inspection services using high resolution imagery and modelling software, Geo-referenced ground survey, 3D Interactive Digital Terrain Models with Point Cloud referencing for every data set, Thermal Imaging with IR, Gas Leak Detection, Normalized Difference Vegetation Indexing for Crop Analysis and Yield Predictions throughout year, Oil and Gas lease life cycle imaging and logistical packages, Consultation with UAV Ops and purchasing & Surveillance.

Horizontal

Service Providers (3/26)

Company	Details	Funding	Investors
	<p>Corvis Aerial [Toronto, 2015]: Corvis Aerial specializes providing Unmanned Aerial Vehicles based service to collect high-quality, high-resolution imagery and video, and provide analysis of this imagery. They work with clients from start to finish to develop a strategy for each aerial survey, ensure operations are conducted safely and properly, and analyze the collected data efficiently so the client receives exactly what they need.</p>		
Horizontal			
	<p>DroneTech [Gdynia, 2015]: DroneTech is a aerial service provider based in Poland. They offer services for inspection, aerial imagery, delivery, marketing & monitoring. They also sale drones through their website.</p>		
Horizontal			
	<p>Talon Aerolytics [West Point, 2015]: Talon Aerolytics is an ITC Capital Partners Company. They utilize emerging Unmanned Aerial System (UAS) technologies to capture high resolution imaging data for the cellular, industrial, commercial, and agriculture industries. FAA approved pilot's, policies, and procedures to ensure quality, sanctioned flights of their UAS platforms with varying sensor payloads to satisfy customer needs.</p>		
Horizontal			
	<p>Pidrones [Mendoza, 2015]: Pidrones is a developer of customized unmanned aerial systems. Their offers drones services to fly, take pictures and deliver goods. Applications served includes aerial photography, videography, surveying, delivery etc. These drones can be adapted to customer needs with different types of sensors, rgb spectrum, speakers, ultrasound, infrared, cameras, etc.</p>		
Horizontal			

Service Providers (4/26)

Company	Details	Funding	Investors
	<p>Rectrix AS [Stockton-on-Tees, 2015]: RectrixAS provides industrial imagery and inspection related services using UAVs. Services offered includes safety & inspection, building inspection, agriculture, sport & recreation, film & television and real estate & properties.</p>		
<p>Horizontal</p>			
	<p>HaloDrop [Moffett Field, 2015]: Halo Drop delivers high definition live videos using UAVs, for extended periods, in austere environments. Offers services for crisis response, federal response and Analysis & Fusion. Offered their services in Nepal Earthquake Crisis Response by mapping the area in order to give an analysis of destruction happened and focused on critical points.</p>		
<p>Horizontal</p>			
	<p>Eye Sky [Barnstaple, 2014]: Eye Sky Group provide professional low cost aerial imagery and filming of residential and non-residential (commercial) properties up to 400ft in the air with advanced unmanned aerial vehicles. Aims to establish the largest fleet of privately owned drones in the UK. The company's primary target market is the UK residential and holiday property market, appealing directly to homeowners. Also provide additional services in and to surveying, emergency services and emergency response, oil and gas pipeline inspection, education, coast guard rescue and marine disaster management. Working throughout UK, India, South Africa and UAE.</p>		
<p>Horizontal</p>			
	<p>Gofor [Scottsdale, 2014]: Gofor provides drones on demand. Using their mobile app, user can task a drone to complete a variety of helpful tasks. Depending on the task, drones either operate autonomously or are flown by skilled operators. Provides services for location scouting, HD documentation, personal security, telepresence, internet range extension, etc.</p>		
<p>Horizontal</p>			

Service Providers (5/26)

Company

Details

Funding

Investors



DroneView Technologies [New York City, 2014]: DroneView Technologies is a provider of aerial imaging solutions and drone pilot training. Offer services (drones equipment with trained equipment) for precision agriculture and farming, utility and industrial inspection, real estate, construction, public safety, search and rescue, movie and TV production, action sports, wildlife and environmental. Their drones are equipped with special sensors and cameras specific to the project. Received \$2M in seed funding from Stephen Polk, a private investor and former Chairman and CEO of R.L. Polk & Co.

Horizontal



HardDrones [Santiago, 2014]: HardDrones is a company dedicated to the capture and analysis of aerial data automatically using drones. Capture and analyze aerial spectral images of crops, and the results are delivered online so that farmers can optimize the resources of water, fertilizers and pesticides. Also offers services of aerial photography, safety & security, and search & rescue.

Horizontal



Peek Drones [London, 2014]: Peek Drones specialise in providing imaging & cinematography, thermography, NDVI (normalised difference vegetation index), Inspections & surveys using unmanned aerial vehicles to companies in the commercial, industrial, agricultural and infrastructure space.

Horizontal



Swift Aero [Las Vegas, 2014]: SWIFT AERO is an unmanned aerial and subsea company that offers a variety of services ranging from cinematic videography, aerial advertising aerial and subsea inspections and monitoring and most recently researching swarm technology for special events. Their unmanned aircraft systems offer the oil & gas industry valuable capabilities that can reduce operational cost and risk, while improving safety and efficiency. SWIFT aero can conduct up close inspections, Thermal Imaging along with Photography and Cinematic Video .

Horizontal

Service Providers (6/26)

Company	Details	Funding	Investors
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Skydronics [Townsville, 2014]: Skydronics provides safe, affordable and high quality aerial imaging solutions using UAS. Their pilots are certified to operate UAV aircraft and qualified to hold 'UAV Controller' certificates issued by the Civil Aviation Safety Authority (CASA). They offer services for variety of industries like cinematography, precision agriculture, land surveying etc.

Horizontal



Skycap [London, 2014]: Skycap delivers a complete end-to-end service to clients, offering a full suite of UAS platforms, sensors and data processing in order to deliver the optimal solution to specific user requirements. Skycap has successfully executed a range of missions for prestigious clients in Europe, Africa, East Asia and the USA. Winner of the 'Most Innovative Startup' award by SME Netherlands in 2014

Horizontal



UAVONIC [Bratislava, 2014]: UAVONIC provides customised service for Unmanned Aircraft Systems (UAS) according to specific customer needs. Provides range of aerial work services aerial photography/cinematography, mapping, survey, inspections, training etc. Their UAS are equipped with wide range of sensors such as thermo, IR, multi-spectral and of course high-definition visible cameras are fast and accurate aerial data acquisition, in real life used by police and fire, agriculture, industrial, oil, gas and cellular, inspections, search & rescue purposes and documentations. Their platforms such as multicopters or fixed-wing can be used for aerial work and can provide aerial support for police, firefighters, military or SAR.

Horizontal



Skymount [Vancouver, 2013]: Skymount provides Unmanned Aerial Vehicle services for a wide variety of applications and industries. Currently providing services of aerial photography, video, cinematography, aerial inspection and aerial mapping using their own developed drones. Also developing low cost, fully modular multirotor drones & fixed wings drones for purchase.

Horizontal

Service Providers (7/26)

Company	Details	Funding	Investors
	Flyspan Systems [Irvine, 2013]: Flyspan Systems provides analytics solutions platform for businesses that use drones with powerful customizable analytics for their industry. Works with Oil & Gas, Logistics, Transportation, Medical, NGO's, SecurityFilm & Television, Energy, Precision Agriculture, & Governments.		
Horizontal			
	Omni-Drones [Assen, 2013]: The company uses own manufactured drone, to offer services for oil & gas, energy companies, factories, construction, urban development, railways, government, police etc. They also sell their drone, Summit MR8 and its propellers through its website.		
Horizontal			
	Cloud9Drones [Austin, 2013]: Aerial data solutions company deploying drones in various industries such as telecom, energy, construction, real-estate, oil and gas, marketing and film. Offers tower inspections for cell tower & transmission lines; Asset management, 3D mapping, surveying for land & constructions; and aerial imagery for film & real estate sectors.		
Horizontal			
	Aerial Solution [Wilrijk, 2013]: Aerial Solutions is a drone service provider based in Belgium. Provide drones that support camera for inspection and other activities. Also offers services for industrial inspection, crop monitoring and fire fighting.		
Horizontal			

Service Providers (8/26)

Company

Details

Funding

Investors



Swarm UAV [Melbourne, 2013]: Swarm UAV offers aerial imagery services for personal, professional and industrial purposes. Offers aerial cinematography services for filming, social contents, events and corporate videos; commercial content for marketing and project videos for industries including real estate, marine, mining and construction; and other services like aerial inspection, aerial surveys and aerial photography for commercial purposes.

Horizontal



Sparrow Vision [Ontario, 2012]: Sparrow Vision combines drones (UAV) and quality data processing for cost-saving inspections of precision agriculture, solar farms, wind turbines, and insurance industry. Their high-definition aerial imaging technology provides customers with a bird's-eye view of their operations. They use advanced UAV equipment and ground systems to deliver aerial inspections to produce a precise picture of business-critical information to help to increase efficiency and reduce downtime. Provides services for precision agriculture, energy & insurance industries.

Horizontal



Global Unmanned Systems [Hamilton, 2012]: Global Unmanned Systems specializes in providing UAV based services and applications to oil & gas industry, both on and off shore. Provides a safe, cost effective, rapidly deployable and higher resolution alternative to conventional satellite and manned aviation systems. Also specialize in orthophoto and digital elevation model acquisition for the mining and exploration industries.

Horizontal



CopterOptics [Berkeley, 2012]: CopterOptics offers aerial photography services through a fleet of remote controlled drones.

Horizontal

Service Providers (9/26)

Company	Details	Funding	Investors
	<p>Aeroview [Stavanger, 2011]: Aeroview AS provides a wide range of Aerial Services by remote piloted aerial systems (RPAS). Provides pilots, maintenance technicians, film and multimedia specialists, radio and telecommunication as well as ROV and subsea expertise. Specialize in aerial photography and video production, and Aerial Inspection Technique using RPAS technology (Remotely Piloted Aircraft System).</p> <p>Horizontal</p>		
	<p>Avetics Global [Singapore, 2011]: Avetics offers technology specialized in (marine & land) aerial photography & video, mapping and color & thermal inspections. Provide survey quality scanning with in-house built drones and develop their own web platform, Exmaps.com (currently in Beta phase) that manages UAVs & flight logs, analyze flight trends and provides sharing features. Their client database is full with names like, Shell, Posh Terasea, ST Marine, YTC Group of companies, East Marine, ASL and many more.</p> <p>Horizontal</p>		
	<p>Unmanned Services [Versailles, 2011]: Unmanned Services provides high resolution picture, video and mapping support services utilizing the capabilities of remotely operated aircraft to many industrial sectors.</p> <p>Horizontal</p>		
 <p>Industrial Inspections</p>	<p>HUVR [Austin, 2014]: HUVR is cloud based data analytics company that collects aerial imaging using drones and provides its services to energy infrastructure inspections (wind / solar / oil / gas) and precision agriculture. FAA approved to fly drones and provide service across USA.</p>	\$2M	Central Texas Angel Network, Houston Angel Network, Texas HALO Fund

Service Providers (10/26)

Company	Details	Funding	Investors
 <p>AEROINSPECT</p> <p>Industrial Inspections</p>	<p>Aeroinspect [Bandung, 2015]: BAsed in Indonesia, Aeroinspect is an unmanned aerial solution specializing in oil & gas inspection. They provide services in aerial inspection & aerial mapping.</p>		
 <p>CAPTURA</p> <p>Industrial Inspections</p>	<p>Captura [Godalming, 2015]: Captura specializes in surveying and inspection utilizing latest inspection techniques and UAS technologies. Offers field asset surveys & inspections for infrastructure, hydrant & street furnitures; non-destructive testing for various industries like telecom & electricity; Unmanned Aerial Services for wind turbine & solar farm. Customers includes OLH & Polecam.</p>		
 <p>Industrial Inspections</p>	<p>Indymo [Delft, 2015]: Indymo develops technology to monitor water quality and ecology by using underwater drones. By providing improved knowledge of water systems, Indymo is set to contribute for a positive impact in the management of water resources.</p>		
 <p>DRONE HIRE AUSTRALIA</p> <p>Industrial Inspections - Construction</p>	<p>Drone Hire Australia [Sydney, 2014]: Drone Hire Australia operates high resolution drones on a hourly hire basis. Creating aerial imagery on building site for crane placement.</p>		

Service Providers (11/26)

Company

Details

Funding

Investors



Aerial Vision Africa [Pretoria, 2015]: Aerial Vision Africa specializes in providing Remotely Piloted Aircraft Systems (RPAS) solutions. Offers solutions for tower inspection and corona discharge detection.

**Industrial
Inspections**



future aerial [London, 2014]: Future Aerial specialize in UAV Inspection services, UAV aerial surveys, UAV aerial filming, Mapping and Drone Surveying in the UK. They employ a fleet of drones (fixed as well as rotary wings) for the application of aerial imagery & further map & process the data before providing it to the client along with analysis & expert opinions.

**Industrial
Inspections**



Dronotec [Maisons-Alfort, 2014]: Dronotec is a network of UAV pilot specialised in surveying and inspection that offer companies a drone inspection service & thermography, cost effective and eco-friendly solution, and helps in making right decisions in management of the missions, disastrous situations, climate-events.

**Industrial
Inspections**



OpenSky Drones [Coral Springs, 2014]: OpenSky Drones engages in the management and deployment of Unmanned Aerial Systems specializing in data collection through imaging, remote sensing and evaluation. Missions deployment include data gathering for Civil and Environmental industries, Industrial and structural Inspections, Power Grid condition inventories, RF and Cellular tower signal mapping and creating of a rapidly deployable mobile aerial cellular network for equipment location tracking and jamming.

**Industrial
Inspections**

Service Providers (12/26)

Company	Details	Funding	Investors
 <p>Industrial Inspections</p>	<p>Akkar [London, 2013]: Akkar Solutions is a part of Akkar group of companies offering inspection services for energy & engineering sectors. They offer manpower according to the project requirement & customer request. They offer services for oil & gas inspections, wind turbine inspections, petrochemical inspections, as well as inspections for utilities, solar, civil and other industrial needs. Also offers surveys for onshore pipelines, powerlines, geographic & plots. They also create 3D models, thermal inspections & industrial inspection reports. Clients includes Environment Agency, Siemens, OMV, Gamesa, Ineos and many more. Have worked in 6 countries and completed 26 projects, as per their website.</p>		
<p>Industrial Inspections</p>	<p>DroneFlow [Berkeley, 2013]: DroneFlow provides aerial infrastructure inspections. Offers maintenance imagery of tall, difficult-to access equipment such as radio and cell towers, bridges, cranes, dams, elevated highways and train tracks, wind farms, and construction sites. Video and still images services can be obtained on periodical basis as per the schedule.</p>		
 <p>Industrial Inspections - Oil & Gas</p>	<p>Sky-Futures [London, 2009]: Sky-Futures specializes in oil and gas offshore and onshore UAV inspection. HD video, stills and thermal imagery data collected by the UAV is fed into its proprietary data platform, analysed and delivered to the client as a technical report. Has a highly qualified and experienced in-house team of global industry experts in flare systems and structural engineering who checks data before delivering it. Has a footprint of 35 clients globally, and works in over 10 countries across five regions of the world. Have offices in London (headoffice), Texas (US), Kuala Lumpur (Malaysia), Abu Dhabi (UAE) and Aberdeen (Scotland).</p>	\$3.8M	MMC Ventures
 <p>Industrial Inspections - Oil & Gas</p>	<p>Cyberhawk [Livingston, 2008]: Cyberhawk Innovations provides aerial inspection and surveying using Remotely Operated Aerial Vehicles (ROAVs) Unmanned Aerial Vehicles (UAV). Services include close visual inspection of a live flare stack, flare tip, live transmission tower or topographic land survey from the air. Serves Oil, Gas, Petrochemical and Utility companies, both onshore and offshore, in the UK, Europe, Middle East and around the globe.</p>	\$1.9M	Scottish Equity Partners

Service Providers (13/26)

Company	Details	Funding	Investors
 <p>Aerial Photography & Surveying</p>	<p>Cape [Redwood City, 2014]: Cape Productions deploys self developed drone/UAV, mobile, and cloud technology to capture incredible aerial video footage for action sports like skiing and snowboarding. Team consists of Stanford graduate degree holders & Google[x] alumni. It works with ski resorts to offer skiers a drone programmed to follow and film them for a portion of their day. It plans to spread drone-based photography services to ski resorts and other vacation spots.</p>	\$10M	New Enterprise Associates, XSeed Capital, Madrona Venture Group, S-Cubed Capital
 <p>Aerial Photography & Surveying</p>	<p>AeroDron [Parma, 2012]: AeroDron provides professional aerial photography at a low altitude and high accuracy to support analysis, surveying and variety of applications to assist in environmental protection and disaster prevention. Provide these services to governmental bodies that operate in the area of environmental protection and management. Backed by Buongiorno SpA and BLOMASA.</p>	\$543k	BLOMASA, Buongiorno SpA
 <p>Aerial Photography & Surveying</p>	<p>SkyPan [Chicago, 2015]: SkyPan provides 360-degrees panoramic view using their own proprietary technology. SkyPan's patented, Remote Piloted Vehicles are actually camera-equipped, mini-helicopters. They use their proprietary technology, patented, Remote Piloted Vehicles are actually camera-equipped, mini-helicopters.</p>		
 <p>Aerial Photography & Surveying</p>	<p>Elevated Element [Baltimore, 2010]: Elevated Element designs and builds civilian UAVs used for aerial photography & cinematography. Other than this they also provides aerial photography and 3D photogrammetry. Also engages in software development.</p>		

Service Providers (14/26)

Company	Details	Funding	Investors
 <p>Aerial Photography & Surveying</p>	<p>Neptune Aerial Works [Liverpool, 2015]: Neptune Aerial Works is a multi disciplined aerial surveying, photography and video production company using state-of-the-art remotely-piloted aircraft (RPA). They have developed their own drone named Flo that is a GPS stabilised octacopter that can be mounted with a DJI Zenmuse Z15 gimbal for 360° viewing capabilities and a professional camera and lens combination. They are a UK Civil Aviation Authority (CAA) Approved Operator and are members of the Association of Remotely Piloted Aircraft Systems UK (ARPAS-UK).</p>		
 <p>Aerial Photography & Surveying</p>	<p>SkyWatch [, 2015]: SkyWatch is a stealth mode venture which is working on an elegant methodology to manage large residential or commercial properties.</p>		
 <p>Aerial Photography & Surveying</p>	<p>KinoFly [San Diego, 2015]: KinoFly creates professional aerial and ground-based cinematography using state of the art camera stabilization systems.</p>		
 <p>Aerial Photography & Surveying</p>	<p>UAS Unmanned Systems Consulting [Makati, 2014]: Based in Philippines, UAS Unmanned Systems Consulting is a company that develops, integrates and operates small Unmanned Aerial Vehicles (UAV's) for Aerial Mapping, Aerial Photography and Scientific-related applications.</p>		

Service Providers (15/26)

Company	Details	Funding	Investors
 <p>Aerial Photography & Surveying</p>	<p>WeDoSky [Delhi, 2014]: WeDoSky, part of Meissa Technologies, is a provider of aerial photography services using their in-house manufactured unmanned aerial vehicles. Their drones can mount a variety of recording and measuring devices ranging from GoPro, Black Magic to Canon 5D and finds their applications in capturing stable footage of concerts, sports events and for movie making.</p>		
 <p>Aerial Photography & Surveying</p>	<p>Drona Aviation [Mumbai, 2014]: SINE IIT Bombay incubated robotics company designing and manufacturing products and providing services in aerospace domain. Working on few projects such as self-charging drones, advertising drones, crowd-monitoring drones, life guardrone and aerial cinematography. Incubated by SINE IIT Bombay.</p>		
 <p>Aerial Photography & Surveying</p>	<p>Skylark Drones [Bangalore, 2014]: Skylark Drones offers drone based photography & videography services for various verticals. Its services include DroneVision (an aerial photography and videography service), surface mapping (accurate topographical data about terrains) and Drone sensing (temperature, and remote are sensing using drones). Also offers a DropBot (based on its proprietary "STRAPDROP" technology) which allows users to drop things accurately in a localized region. Claims to have completed 50+ projects. Winner of the NASA Systems Award for developing the best Systems Engineering for developing UAVs.</p>		
 <p>Aerial Photography & Surveying</p>	<p>BB Stratus [North Yorkshire, 2013]: The company provides aerial photography services, having a professionally trained crew of their own using UAVs developed in home to perform the task. Builds bespoke air systems to the client's specific requirements. Also offers training on all systems built by BB Stratus & others.</p>		

Service Providers (16/26)

Company	Details	Funding	Investors
 <p>Aerial Photography & Surveying</p>	<p>CineDrones [Orlando, 2013]: CineDrones provides professional RC Aerial cinematography and photography services using radio controlled helicopters capable of flying high-definition digital DSLR and Cinema cameras. It also offers full service custom builds based on the customer's camera. CineDrones provides its services for sporting events, concerts, Live TV, film, agriculture, B-roll, etc.</p>		
 <p>Aerial Photography & Surveying</p>	<p>Aerosight Professional Drone Aerial Filming [Redhill, 2012]: Aerosight is among the first professional drone filming company to be authorized by CAA to perform commercial drone delivery. It is famous for making pizza delivering drone. They are drone developers as well, who has develop their drone to use them for professional commercial aerial filming. They are a trusted crew who work with the UK Broadcast Industry. They offer leading aerial film shooting for cinema, commercials, showreels, independent documentaries and music video.</p>		
 <p>Aerial Photography & Surveying</p>	<p>HexCam [Norwich, 2012]: HexCam use unmanned aerial vehicles (UAVs) to obtain aerial photography and video for a range of applications. Applications include construction, property marketing, events, weddings, environmental monitoring, precision agriculture, drama, aerial mapping, surveying and wind turbine inspection. Approved by the Civil Aviation Authority to use aircraft throughout UK. Can operate from ground level to 400 feet with a versatility.</p>		
 <p>Aerial Photography & Surveying</p>	<p>Dronevlieger [Amsterdam, 2012]: Dronevlieger offers experience in both filming from the air, from the ground and letting drones. Create 4K quality videos and offers rental drone services for professional videography.</p>		

Service Providers (17/26)

Company	Details	Funding	Investors
 <p>Marketing</p>	<p>Hoovy [Santa Monica, 2014]: Hoovy provides drones based marketing platform to promote brand awareness. They attach professionally made banners to our drones and fly them in front of the public. Provides services in India & United States.</p>		
 <p>Marketing</p>	<p>DroneCast [Philadelphia, 2014]: DroneCast offers drone-based aerial advertising and promotional solution provider. Offers patented platform to fly banners displaying messages up to 2' wide, and 6' long for indoor and outdoor advertising. Also launched 'DroneCast Partnership Program' which gives people a chance to become pilots with DroneCast and then fly ads for them on a freelance basis and can earn up to \$500/hour. It has also developed a patented, life-saving platform that can predict a cardiac emergency moments before it happens. Working on a system that activates EMS and emergency professionals around user and even sends an airborne AED-equipped drone to user's location. This will drastically increases the survival rate of sudden cardiac arrest and heart attack patients.</p>	\$1M	
 <p>Marketing</p>	<p>Launchboxx [Fargo, 2015]: Launchboxx is a full-service advertising and marketing team that specializes in the quickly evolving Unmanned Aircraft Systems (UAS) industry. Provides creative and technical expertise and knowledge of the UAS industry & also develop powerful marketing initiatives to the customers.</p>		
 <p>Marketing</p>	<p>UP Drone Marketing [Quito, 2015]: Up provides drone-based marketing & advertising solutions. Offers drones as an effective communication tactics, from Marketing and BTL campaigns, support present in indoor and outdoor events, aerial commercial production or for weddings and social gatherings. Provides customized solutions based on the needs of customer. They not only execute or rent drones but also provides unique, value-added solutions.</p>		

Service Providers (18/26)

Company	Details	Funding	Investors
 <p>Precision Agriculture</p>	<p>Gamaya [Lausanne, 2014]: Gamaya uses HSI (Hyperspectral Imaging) technology deployed using small unmanned aircraft systems to remote sensing and high resolution imagery. This imagery can be used to diagnose crop diseases, proliferation of invasive species and environmental stresses. Winner of IMD Startup competition.</p>	\$800k	
 <p>Precision Agriculture</p>	<p>TartanSense [Bangalore, 2015]: TartanSense is a UAV based technology startup and provides image analytics based on ultra high resolution aerial and Near Infra Red (NIR) images acquired by UAVs. For the agriculture sector, NIR sensors enables the drones to distinguish between plants that exhibit stress versus plants that are healthy by analysing aerial images, with a coverage area of upto 700 hectares a day. This data enables farmers to make precise decisions on where to irrigate & fertilize. The analytical tools developed by the company are currently used for tree counting across large areas and assessing the health of plants. TartanSense is currently partnered with Agribotix , an agri drone company based in Boulder, USA. The company plans to develop prescriptive reports for irrigation recommendation, fertilizer and pesticide recommendation, optimal road and bridge building and land clearing recommendation for new plantations.</p>		
 <p>Precision Agriculture</p>	<p>Unmanned Sensing Systems (US2) [Philadelphia, 2014]: US2 is developing a complete offering for assessing and optimizing the growth and management of crops via aerial data obtained from UAS. Other than precision agriculture (which is their main area of expertise), also offer services for Solar/clean, construction, aerial sensing and survey.</p>		
 <p>Precision Agriculture</p>	<p>Ceres Imaging [San Francisco, 2014]: Ceres Imaging, offers data as a service by providing farmers with spectral data to optimize water and nitrogen application. They use UAVs/ aerial photography and spectral image processing to monitor crop variables like, nutrient status & water stress. Provides actionable insights & reports and send it over the cloud to farmers. They deliver data periodically in exchange for recurring revenue. Incubated by Lemon Labs.</p>		

Service Providers (19/26)

Company	Details	Funding	Investors
 <p>Precision Agriculture</p>	<p>Aerobotics [Cape Town, 2014]: Aerobotics develops autonomous UAVs aimed primarily at agricultural applications. Developed precision agriculture solution that captures data and thereafter a combination of machine learning and image processing is used to automatically analyse the data and identify potential problem areas. Also provides solutions for remote census (game counting service), mining and property surveys using image processing and machine learning algorithms.</p>		
 <p>Precision Agriculture</p>	<p>Pravia [Niceville, 2013]: Pravia provides precision aerial imaging solutions and data processing services. Services include NDVI, multi-spectral, thermal and visual spectrum imagery capture and analysis for precision agriculture and other applications. Current services include data analysis and NDVI data extraction from aerial imagery, data storage and hosting and NDVI report generation. Also provide calibrated aerial NDVI imagery and analysis to provide change detection over time for a variety of precision agriculture applications. Has the capability to analyze individual plots over large areas and extract relevant data from each plot with sub-5cm accuracy or greater.</p>		
 <p>Precision Agriculture</p>	<p>Airwood [Chennai, 2013]: Airwood Aerostructures Pvt. Ltd.offers services of precision agriculture using UAV developed by them. Its UAVs, retrofitted with multispectral cameras, fly around the farms monitoring sensitive parameters like seed growth, vigour, stress levels due to diseases, etc. This is supplemented by its on field experts who test soil, monitor weather, and other critical parameters. The data is combined and analysed and is presented to farm managers to help them take decisions regarding farm inputs and process to better the crop yield.</p>		
 <p>Precision Agriculture</p>	<p>TerrAvion [San Leandro, 2013]: TerrAvion delivers drone a service which allows farmers to increase yield of specialty crops, like grapes. The information they collect help farmers to have a measurement of every plant, every week, in order to optimize interventions like irrigation, pruning, or chemicals to maximize their crop yield. Incubated by Y Combinator,</p>		

Service Providers (20/26)

Company	Details	Funding	Investors
 <p>Precision Agriculture</p>	<p>URSULA Agriculture [Aberystwyth, 2013]: URSULA Agriculture is a data analytic company for precision agriculture using drones. They provide state of the crop intelligence to directly inform agricultural decision making and intervention. Their advanced analysis algorithms combine remote sensing and analysis to deliver 'state of the crop intelligence' across the sector.</p>		
 <p>Pilot Marketplace</p>	<p>DroneBase [Santa Monica, 2014]: DroneBase is a marketplace for commercial drone services that provides enterprise customers with on-demand imagery, video, and maps of worksites. They offer on-demand services for real estate, construction and mining. Received an undisclosed amount of funding in April, 2015 led by Union Square Ventures. SkyFund, a fund dedicated to drones startups and backed by DJI and Accel, has also made an undisclosed amount of investment in Dronebase in 2015.</p>	\$120k	Y Combinator, Union Square Ventures, Rothenberg Ventures, SV Angel, Launchpad LA
 <p>Pilot Marketplace</p>	<p>Shootly [Los Angeles, 2015]: Shootly is an on-demand photography service that connects customers with professional photographers and experienced drone pilots through an iPhone app. Known for the quality and depth in portfolio, & professionalism. Building a platform to make it fast and easy for booking photo shoot.</p>		
 <p>Pilot Marketplace</p>	<p>Drone Finder [Kansas City, 2015]: Drone Finder is a free platform for drone operators to find new clients and jobs. Clients can create a free drone request, and drone operators can view requests, send info, samples, and pricing. Clients pay the operator through our secure system, and the payment is held until the operator delivers the media and the client confirms their satisfaction. The payment is then released to the drone operator, minus the Drone Finder Fee.</p>		

Service Providers (21/26)

Company

Details

Funding

Investors



Pilot Marketplace

DroneLily [Toronto, 2015]: DroneLily provides a search platform for drone pilots & editors database. User can search for different pilots & editors, view their profile and compare them in order to find the best suit operator for their needs.



Pilot Marketplace

Flystro [Montreal, 2015]: Flystro is an online marketplace connecting drone operators and clients all over the world. Using Flystro, clients can easily find operators and be sure they're receiving the best price and product. The platform makes billing and mission management easy for operators, so they can concentrate on spending more time flying.



Pilot Marketplace

Drone Hire [Brisbane, 2015]: Drone Hire connects commercial drone operators with clients for services such as aerial photography, video, precision agriculture, surveying, mapping and real estate photography.



Pilot Marketplace

Droners.io [Rhode Island, 2015]: Droners.io is a marketplace that connects local, professional drone pilots to the public. These pilots specializes in services like filming wedding, real estate, surf session, anything. User can read reviews, compare prices and hire the pilot that best fits his needs and budget.

Service Providers (22/26)

Company	Details	Funding	Investors
	<p>HoverStat [Austin, 2014]: HoverStat provides drone based roof mapping services on demand for insurance applications. When the insurance rep arrives at a house with a storm damaged roof, all they have to do is set down the charged drone and push a button on HoverStat's app. The drone rises above the roof, avoiding tree cover and other obstacles, and lands back at the feet of the insurance agent after capturing a thorough video. This video is then converted into an aerial CAD of the roof with measurements. At this point, all the insurance adjuster has to do is look through the estimate to make sure it is correct and then print it out for the homeowner, producing a full estimate in minutes.</p>		
	<p>BetterView [San Francisco, 2014]: Utilizes a network of drones throughout the United States to inspect properties for potential problems. Using UAVs is cheaper, safer, and faster way to survey buildings, especially their roofs. BetterView provides aerial services for a variety of needs across insurance, construction, and real estate. Insurance companies can better price the home insurance products.</p>		
	<p>Book A Drone [London, 2014]: Book-a-drone is an on-demand marketplace model for professional drone services which allows user to book a drone along with pilot on rent for various drone-based services like aerial photography, 3D surveying, inspections, etc. It provides a listing of all the registered and certified drone operators on it page along with company data and booking options.</p>		
	<p>Airstoc [Sheffield, 2013]: Airstoc is a dedicated marketplace for professional drone industry, connecting customers with operators around the world. Built a simple platform to enable customers to book bespoke work, from initial quote to confirmation, for any industry and in various location across the globe. Their operators are equipped to carry out a wide range of jobs and are currently spread across 68 countries services of photography, full video production, aerial mapping or cinematic filming etc. They showcase and sell exclusive aerial stock footage, showing new perspectives and angles.</p>		

Service Providers (23/26)

Company	Details	Funding	Investors
Hospitality	<p>Infinium Robotics [Singapore, 2013]: Infinium Robotics is engaged in making drones which can be used in confined spaces like restaurants and cafes. To make the drone work autonomously in confined spaces, special arrangements, like sonar, infrared guidance to avoid collision, special design for blades and reduced noise, were introduced into the drones. The company claims to introduce its drone Infinium-Serve by the end of 2015 into Singapore restaurants. Also developed proprietary flight controller on board the UAVs & in-house trajectory planning and model predictive control (MPC) algorithms, for Intelligent Robotic Swarming, an autonomous collision-free multiple UAV deployment technology. The company is also providing outdoor service like Monitoring of water/gas pipelines and sewage system, aerial light displays & industrial aerial security & surveillance.</p>		
Delivery	<p> Tridain [Houston, 2015]: Tridain offer drones as a delivery solution. Developed a proprietary (patent pending) network in which drones can operate safely and effectively.</p>	\$50k	
Delivery	<p> Volans-i [San Francisco, 2015]: Volans-i is designing and building a fully autonomous, battery powered unmanned aerial vehicle capable of transporting a payload (up to 10lbs) between two locations at fast speeds (up to 400mi/h). They are into providing an on demand delivery service for time sensitive critical shipments, such as human organs. The applications for this service range from high-tech to medical to industrial transportation services.</p>		
Delivery	<p> Connect Robotics [Porto, 2015]: Connect Robotics expertise in developing autonomous drones. Developing a Drone delivery system, flexible and reliable, to offer retailers and logistic companies.</p>		

Service Providers (24/26)

Company	Details	Funding	Investors
	<p>XDrone [Los Angeles, 2014]: XDrone is a drone delivery service to deliver the goods right to the door. XDrone's patent pending drone delivery system can get just about anything from the local grocery store or pharmacy delivery by drone in under 15 minutes for just \$1.</p>		
<p>Delivery</p>			
	<p>BLKTATU [Townsville, 2014]: BLKTATU is a drone delivery system that allows drones to deliver to anyone without the need for a yard. This drone delivery system is made up of two parts, first is the drone delivery caddy, and second part is the net with lockable container attached to the premises. The drone will fly to the provided GPS co-ordinates. From there it will peer down and look for reflectors on the net. These reflectors will be used as reference points allowing the drone to guide itself with centimeter accuracy to just above the net and complete the delivery.</p>		
<p>Delivery</p>			
	<p>QuiQui [San Francisco, 2014]: Quiqui provides delivery of pharmaceutical products using drones. It works with local pharmacies to offer prescription delivery. They offer services 24hrs a day, with a delivery time less than 15min and delivery charges \$1.00.</p>		
<p>Delivery</p>			
	<p>Space Leap [Vienna, 2013]: A B2B Drone Platform that allows automatic 24/7 operations without ground personnel. They are developing the platform, automating drone operations in the air and on the ground to offer a turn key system that requires no pilots or no ground crew.</p>		
<p>Delivery</p>			

Service Providers (25/26)

Company	Details	Funding	Investors
	<p>Skycart [Newark, 2013]: Skycart offers P2P drone delivery service, location independent, 24/7 operation on 365 days and claims to deliver in 30mins using autonomous drones. The technology is eco-friendly, taking less time and is offered and affordable prices. The solution can be suitable for restaurants and shops.</p> <p>Delivery</p>		
	<p>Flirtey [Sydney, 2013]: Flirtey offers drones as a service for last mile delivery. Its delivery drone is a hexacopter constructed from carbon fibre, aluminium and 3D printed components. Is a lightweight, autonomous and electrically-driven unmanned aerial vehicle having a range of over 10 miles return and lowers its cargo via tether. Has built-in safety features such as low battery return to safe location and auto-return home in case of low GPS signal or communication loss. The company is known to have made history by delivering first 'legal' package in US. It has teamed up with NASA to conduct a Federal Aviation Administration (FAA) approved exercise to deliver medical supplies to a rural area of Wise County, Virginia by drones in July, 2015.</p> <p>Delivery</p>		
	<p>TacoCopter [San Francisco, 2012]: Developing drone delivery system for delivering drones in SF Bay Area.</p> <p>Delivery</p>		
	<p>Measure [Washington D.C., 2015]: Measure offers drone as a service. Having Federal Aviation Administration approval to fly more than 300 different types of drones for a broad range of commercial applications. Provide solutions to acquire, process, and deliver cost-effective, actionable aerial data to enterprise customers. Use a fleet of home developed drone to capture data. Offers AirLift program for data capturing.</p>		

Service Providers (26/26)

Company	Details	Funding	Investors
	<p>flutterbox [Montreal, 2013]: Flutterbox delivers a real-time experience for Infrastructure Management and Marketing. Using small aerobotics (UAVs), they aggregate data on your infrastructure and deliver this data back to you through their platform which will enable to stay focused on making critical decisions on your infrastructure.</p>		
	<p>Intelescope [Kiryat Ono, 2009]: Intelescope Solutions is a global provider of forest analytics services for revolutionizing forest decision making, improving asset management and yields. Use patented software to analyze and leverage drone, satellite and aerial imagery data. Offer services for planting, survivability, inventory and harvesting, to acquisition and due diligence. Headquartered in Israel with offices in the US and Brazil</p>		

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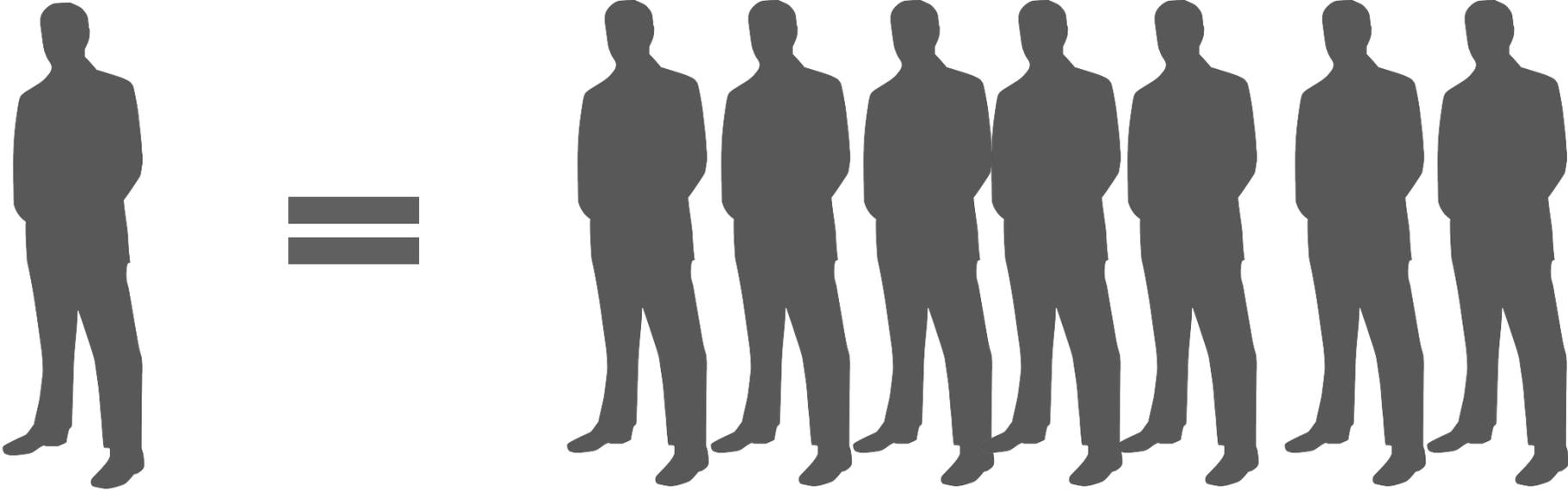
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