

# 3D ROBOTICS

PRESENTATION



TEAM 1



### OUR TEAM.

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# TODAY'S DISCUSSION.

- COMPANY OVERVIEW
- SWOT ANALYSIS
- FINANCIAL ANALYSIS
- COMPETITOR ANALYSIS
- RECOMMENDATIONS



# ABOUT COMPANY.



- 3D Robotics is a drone company with Unmanned Aerial Vehicle platforms.
- Research and development office situated in Berkeley, California with a manufacturing facility in Tijuana, Mexico
- By 2014, 3DR had 200 employees in North America, with sales over \$20 million in 2013.
- The 3DR's UAV platforms captures aerial imagery for commercial purposes, data analysis, mapping, surveying, 3D modeling, and other purposes.

### PHASES OF 3DR -MANUFACTURING MODEL

PHASE 1

PHASE 2

PHASE 3

DIY Drones - Open-Source Community platform created where makers could provide tips, show their work and collaborate Launching 3D Robotics – Anderson and Munoz co-founded 3DR, leveraging the open-source community for talent and development, using Internet of Things (IoT) and other technologies, undergoing management changes and changing their manufacturing strategy to focus manufacturing at Tijuana and avoid China initially

Software Platforms &
Market - Shifting
consumer
manufacturing strategy
to China while keeping
the enterprise
manufacturing in
Tijuana and discussing
the potential markets.

### SWOT ANALYSIS

#### STRENGTH:

- Focus on analytics in business decision making, for demand forecasting, information sharing, marketing optimization, etc.
- Expertise in research and development
- Robust supply change chain across various countries
- Brand awareness and recognition based on current and potential customers.

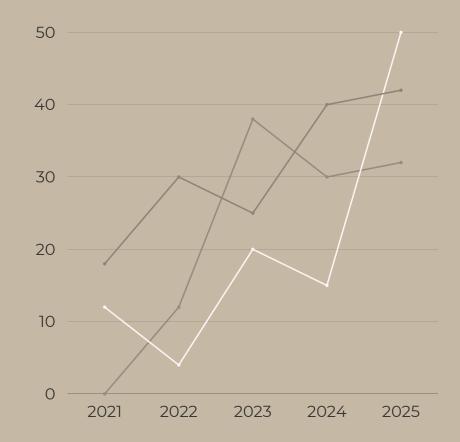




#### **WEAKNESS:**

- Needs to have more collaboration between the organization's strategy and the marketing teams.
- Needs to provide a more different variety of products.
- Harder to sustain new emerging competition due to high operating costs
- Slow responsiveness and decision-making process in competitive environments

- Reconfiguring business model to increase market reach
- Online learning and training for the development of its employees.
- Lowering down the market operational cost
- Usage of analytics for a competitive edge



#### THREAT:

- Decline in margins from increasing international competition
- Regulatory challenges from FAA, consumer protection groups and other pressure groups.
- Greater competition with lower technological barriers
- Lower market demands due to slow growth in economy



## FINANCIAL ANALYSIS:



- The drone industry was estimated by some to be \$6 billion in 2013 and expected to grow to more than \$11 billion over the next decade
- The company had sales of \$10 million on 30,000 orders in 2012 and over \$20 million in 2013.
- China's DJI, 3DR's competitor, had raced to nearly 20 times the size of 3DR with 1,600 employees, 400 engineers, and over \$500 million in revenue.
- 3DR continued to grow very quickly and by 2011, had \$5 million in revenue, and in 2012, over \$10 million.

#### **EXHIBIT I. 3DR Financials**

Rudimentary, fictional income statement (in thousands \$US)

Year Total Revenue Cost of Revenue	2013 20,000 11,000	<b>2012</b> <b>10,000</b> 6,000	<b>2011 5,000</b> 2,900
Gross Profit*	9,000	4,000	2,100
Operating Expenses Research/Development	10,000	3,000	1,700

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Selling General and Administrative	4,000	1,000	300
Non Recurring	_	_	_
Total Operating Expenses	_	_	_
Operating Income or Loss	-5,000	0	100

Source: 3DR.

\*3DR estimated that industry gross profits were around 35%.



### COMPETITOR ANALYSIS:

- Chinese competitor DJI was the biggest threat with particular expertise in focusing their business on a specific use case.
- DJI also had better technological solutions (hardware and software) and was innovative and quick to establish a global presence.
- In the consumer space, the other competitors were Trimble and Parrot.
- Trimble is a GPS company and Parrot is a consumer technology company.

# WHAT SHOULD OUR STRATEGY BE GOING FORWARD?





### POTENTIAL MARKET ANALYSIS:

Market	Size	Need for UAV
Military	USD 12.1 billion	Procurement by defense forces
Agriculture	USD 1,021.1 million	Precision farming solutions
Security and monitoring	USD 4 billion	Surveillance and protection
Logistics, Delivery and Errands	USD 534 million	Faster, efficient delivery at low costs
Entertainment, Journalism, Film-making and photography	USD 2.72 billion	Artificial intelligence and imaging technologies for an aerial entertainment purposes
Exploration, Aid efforts and Disaster Recovery	USD 8.8 billion	Risk analysis, terrain mapping
Construction and Inspection	USD 4,800 million	Automated operations, aerial view surveillance and mapping, workplace safety



## SECURITY AND MONITORING

- Based on the market size, need, usage of hardware and software solutions and the projected compound annual growth rate (CAGR) of 18.9%
- Top Competitors for security and monitoring drone manufacturing-
  - AeroVironment, Inc. leading manufacturer of Unmanned Aircraft Systems, Unmanned Aerial Vehicles.
  - DJI Biggest competitor
  - Draganfly Expertise in innovative solutions



- Detailed market analysis
- Establishing goals and objectives
- Secure investment/funds
- Research and development of stabilized software solutions
- Partnership with hardware manufacturing companies for better components
- Development of the open source platform



### THANK YOU.

#### FOR YOUR ATTENTION