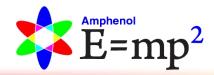
# Amphenol E=mp<sup>2</sup>

### **Market Overview**



- What is the market?
- Why is it important?
- Who are key customers?
- When will it launch?
- How much is it worth?

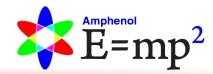


MARKET



## **Overall Market Size**

- Estimate a Big Picture Market Size
  - TAM Total Addressable Market
  - How much does the DOD spend Annually, what is global spend
  - Roll up Large Primes (Lockheed, Raytheon, GD...) read annual reports new articles. Estimate their production output, and contract sizes



### MARKET

## **Connector Market Size**

- Estimate the connector content in this market
  - SAM Serviceable Addressable MarketDrive down to connector and cable spend.
  - Estimate content of the larger platform (between 1-8%)
  - Evaluated Amsterdam Data, extrapolate one program and estimate the broader market
  - Competitors and what their market share could be?





## **Competitive Analysis**

- List out all connector competitors in the market
- Strengths and Weakness compared to Amphenol
- Identify glaring product or program gaps





## **Key Contracts and Customers**

- Identify key awards and contract
- Understand key prime and design locations
- Estimate potential Amphenol Content (\$ amount)



### **Platform Dissection**

- Take a platform, aircraft, vehicles, radar, etc.
  - Overlay a knowledge of key functioning systems
  - Indicate system component we could possibly have content
  - Identify they type of products needs in each system



**APPS** 

## **Application Marketing Plan**

- Which areas of the platform should we target
  - Identify the locations, engineering teams, supply chain
  - Reach out Sales/DSA/RDSM to seek point of opening to the account
  - Research our POS in Amsterdam if we have current activity
  - Seek web leads or trade show leads to penetrate platform targets.



**APPS** 



## **Technology in the Market**

- Evaluate the specific technology important to enabling this platform or system to function
  - Extreme temperatures, High Vibrations, Shock
- Key technology we currently find success in this platform
- Key competitor technology being implemented
- What technologies does Amphenol need to develop?



### **AMAO Product in the Market**

PRODUCT

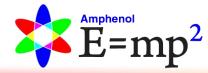
- What current products are we the leader in this market?
  - Show examples and success stories of design-in.
- What product we have and are underpenetrated in this market?
- How do we market our product to gain greater appeal?





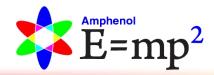
### **Future AMAO Product**

- Propose Future AMAO derivative or new product development that could support this market
- What new specifications VITA, SOSA, MOSA, Mil-Spec is missing from the Amphenol Portfolio
- Hint: See competition



### **Strategic Plan**

- Develop forward looking strategic plan based on your research to gain market share.
  - Propose 2 short term goals (3-9 months)
  - Propose 2 long term goals (18-36 months)



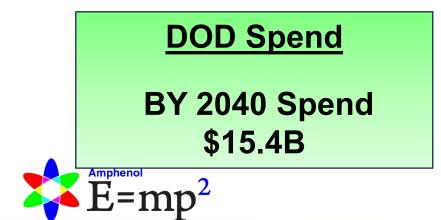
## **Military Ground Rhino Market**



2035 World War IV breaks out on the African continent over the newly discovered resource of Teslium, a highly power dense material. Teslium is the base material for batteries and can hold 25,000X the capacity of Lithium-ion batteries. 10 AA Teslium battery can power an entire house for 1 month.

MARKET

Militarize African like animal vehicles is the latest emerging defense trend to the one land battle taking place on the Sahara desert. The Military Ground Rhino Market is set to grow by 200% over the next 5 years.



#### **Total SAM Estimated**

\$450-480M

#### **Key Technologies**

Horn Array Technology Rotary Rhino Joints Teslium Sand resistant



## **Overall Market Size**

#### **DOD Spend**

2040 Spend \$15.4B 2041 Spend \$17.2B 2042 Spend \$18.5B

Expecting building fleeting 12,000 MGRs

Run rate of 3,800 MGRs per year

Expecting FMS sales to South Africa, UAE, Brazil another 7,600 MGRs

#### **Key Primes**

AFX Technologies \$67B total revenue 7.38B in Rhino Technologies

Horn Dynamics \$39.4B Total Revenue 4.7B in Rhino Technologies

Y3Huffins \$18B Total Revenue 1.5B in Rhino Technologies

#### **Key Defense Suppliers**

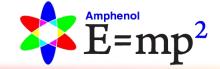
Amphenol \$4.8 B

TE Connectivity \$3.6 B

Glenair \$2.1B

Airborne \$150M

Others - \$500M





### **Connector Market Size**

#### **DOD Spend**

2030 Spend \$15.4B 3% Connector Cable Content

\$462M SAM

#### **Total SAM Estimated**

\$450-480M

#### **Key Primes**

AFX Technologies 7.38B in Rhino Technologies \$220M est SAM Horn Dynamics 4.7B in Rhino Technologies \$150M est SAM Y3Huffis 1.5B in Rhino Technologies \$80M est SAM

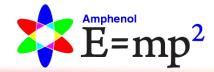
\$450M + 50M (est) others

\$500M SAM

#### Key Defense Suppliers

Amphenol \$4.8 B - \$65-78M Rhinos TE Connectivity \$3.6 B - \$160-180M in Rhinos Glenair \$2.1 B - \$82-90M In Rhinos Airborne \$150M - \$20-25M in Rhinos Others - \$500M - \$45-65M in Rhinos

\$372-\$438M SAM



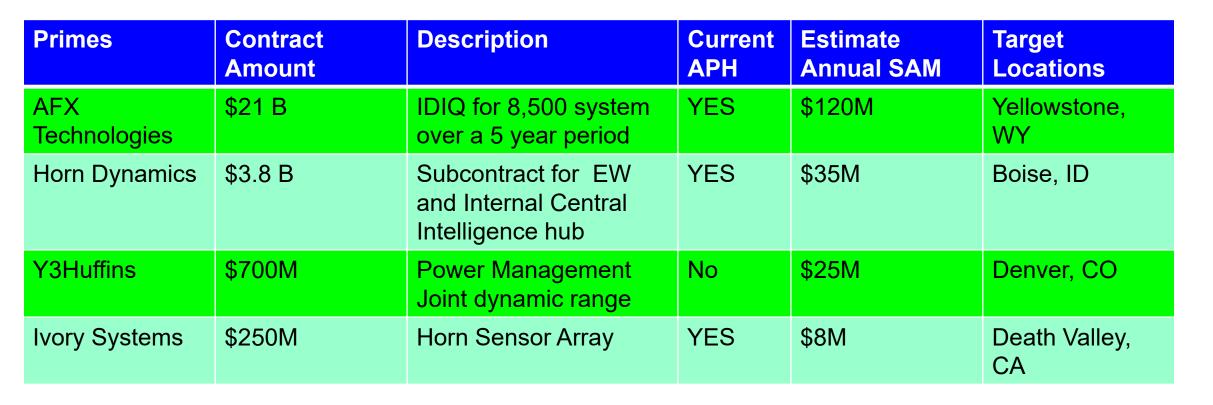
### **Competitive Analysis**

Company	<u>Price</u>	Leadtime	<u>Temperat</u> uer Range	<u>Hemetic</u> <u>Sealing</u>	<u>Rotating</u> Joints	<u>Rubber</u> <u>Molded</u>	<u>High</u> <u>Speed</u> <u>Data</u>	RE
Amphenol			$\checkmark$	$\checkmark$				$\checkmark$
TE Connectivity	>		<b>\</b>	<b>\</b>				<b>\</b>
Airborne			$\checkmark$				$\checkmark$	
Glenair		<b>\</b>	$\checkmark$	$\checkmark$				
Carlisle	~						<ul> <li>Image: A start of the start of</li></ul>	<b>\</b>
Fischer		$\checkmark$		$\checkmark$				



MARKET

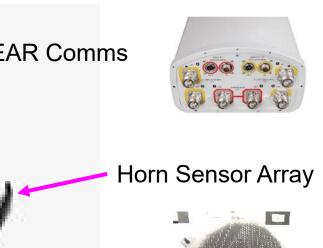


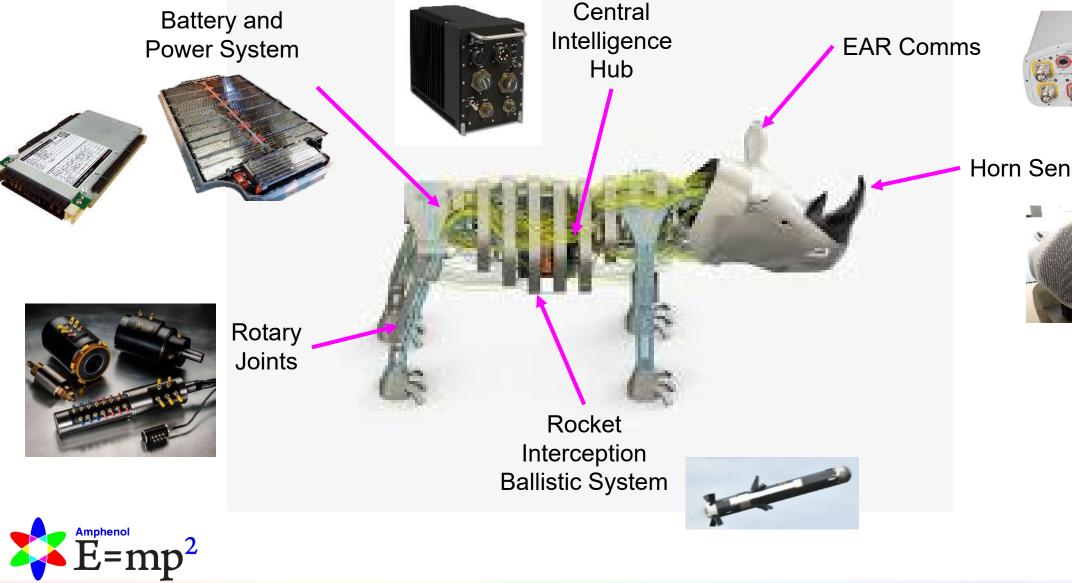




**APPS** 

### **Platform Dissection**





**APPS** 



### **Application Marketing Plan**

Primes	Targeted Products	Key Prime	Who to Engage	
Horn Array	APC- RF Boards AQMI, SV – RF Assemblies	Ivory Systems	Work through APC and Q Microwave on current SCD	
Central Intelligency Hub	AMHS – Fiber Switches AFSI – Fiber Backbone AAO- BL Connectors TMS – Phase Matched RF Cables ACC – Filtered ARhINoC	Horn Dynamics AFX Tech	DSA Brad has key contact, expand relationship with Giraffe team Discuss with GM Jared on FO switches to get more Harness opportunities	
Rotary Joints	ANEX – Ranger APCD- R-CLAMPS ABT – Knee Assemblies	Y3 Huffins AFX Tech	Apps team Scott working on power development use relationships to grow Range and R Clamps	
Battey and Power	ACAD – HVD38999 POSI - Scorpion	AFX Tech	BDM Dave creating tradeshow schedule at Africa Tech Expos to get contacts	



## **Technology in the Market**



### **Rotating Joints**

Deliver power and data to the leg which provide the mobility in X, Y, Z direction that allow the platform to traverse over African terrain

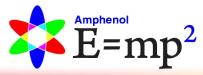
- Custom harness with high flex
- Integrated joints
- Light weight high power copper



### **Horn Array**

Key sensor array for intelligence, moveability systems, and deterrence. Combination of AESA, Infrared, and LIDAR to help the platform evaluate the terrain and target threats.

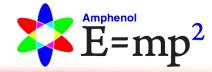
- RF Board with HDI and RF
- RF Filtering at the array
- High temperature sand resistant shells



PRODUCT

## **AMAO Product in the Market**

ACC – Filtered ARhINoC	AMHS – Fiber Switches
Inside Central Intelligence Hub	Inside Central Intelligence Hub
For Jamming Vulture Systems	For Fiber optic backbone communications
Annual Revenue: \$3M	Annual Revenue \$6.4 M
Location: Boise, ID	Location: Boise, ID, Yellowstone, WY
APCD- R-CLAMPS	APC- RF Boards
Rhino Rotary Joint	Micro RF RESA Attenae Array
For securing cables to the joint motors	For EW threat detection and defense
Annual Revenue: \$1.6M	Annual revenue \$3.5 M
Locations: Denver, CO	Location; Death Valley, CA
ABT – Knee Assemblies	POSI - Scorpion
Rear hind subassembly	Power Distributions System
Wire harness inside knee hinge	Backplane for central power hub
Annual revenue \$12M	Annual Revenue \$890K
Denver, CO	Location: Denver, CO, Austin, TX



PRODUCT



## **Future AMAO Product**



### Rotating Rhino Joints

Integrated Motor joints for fast maneuverability Developing high usage high temperature harness assemblies 2<sup>nd</sup> source activity \$82M Market between TE and Gleanir



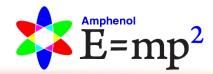
### Intelligent Rhino Skins

Next Generation cloaking skins technology High density, low cost hair brush contacts In Development with DEVCOM Future FRP - \$28M program



### Rocket Inerception Ballistic System

Resuasble rocket system that uses sand and dirt to create propellants \$13M market for Connectors



## **Strategic Plan**

### Short Term Goal

- Attend 2 Trade shows Africa Technologies and Ground Tough Symposium
- Arrange Tech Day at AFX technologies
- Win Horn Array Systems with RF technolgies

### Long Term Goal

- Develop Rotary Joint to Compete with TE and Glenair
- Win MOSA downselect of backplane connector

