

Market Opportunity Analysis & Beachhead

Anil Kale: akale@bmnt.com

https://www.linkedin.com/in/anikale/





Stage 1 Foundational Webinars and Office Hours

- 1/17- 'Embracing a Commercial Mindset & Program Overview' at 11 am (PT)
 - Ray Owen & Ellen Chang
 - Office hour on 1/23 at 9 am (PT)

- 2/23 Applications Due
- 3/15 Notify Selected Companies
- 4/2 Stage 2 Kick-off (Hybrid Event)
- 1/24 'Vision & Value Proposition: Establishing the Foundations of Commercialization' at 11 am
 - Todd Basche & Roxanne Aragon
 - Office hour on 1/30 at 9 am (PT)
- 2/7 'Commercial Market Entry Strategies: Market Opportunity Analysis & Beachhead' at 11 am
 - Anil Kale & Serdar Turac
 - Office hour on 2/13 at 9 am (PT)
- 2/14 'Commercialization Funding Strategies' at 11 am (PT)
- **BMNT**

Maren Cattonar & Mark Peterson

Office hour on 2/20 at 9 am (PT)

H4XLabs



Your Situation

- You have technology that the Navy finds interesting enough to invest in
- You believe/hope that there is a market for your technology outside of the Navy, but don't necessarily know how to find it
- Unless you plan to sell engineering services, you understand that servicing commercial customers requires a "product" rather than a "project" mindset (very different from servicing government customers)
- You understand that going commercial can have enormous financial upside, but the scale of the upside and how you capture it is very different if you chose to be a startup rather than a small business





Today's Focus: Opportunity Analysis

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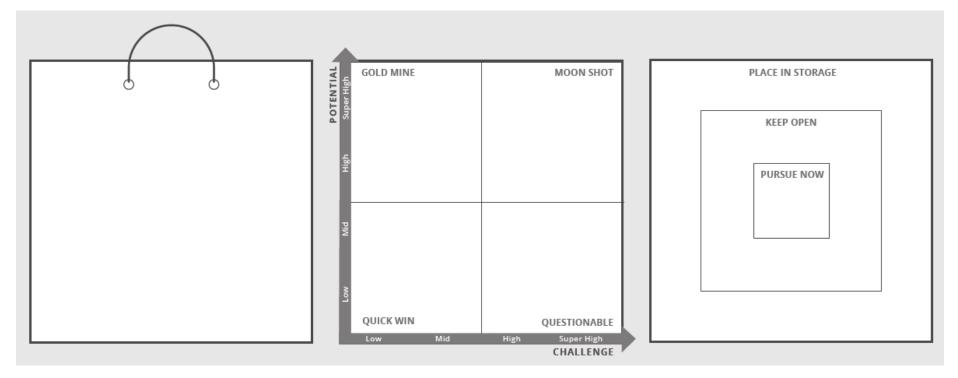
Today's Focus: Opportunity Prioritization

- Your product/tech is likely to have multiple use cases across multiple industries – pursuing all of them is a fool's errand
- Conducting a full market analysis for every use case is time consuming and has poor ROI – an opportunity prioritization framework that is light weight yet discerning will focus your efforts and improve ROI
- Once the primary (beach head) market has been identified, a full market analysis, including commercial value proposition and business model canvas, can be used to build the market entry strategy and plan





Opportunity Prioritization Framework



Define the Opportunity Set

Map Relative Attractiveness

Identify where to Focus



Step 1: Define the Opportunity Set (Use Cases)

- A. Describe what jobs your product helps get done
 - Describe 3-5 ways how your product could be used in 2 lines or less
- B. Describe might use your product, and why
 - Get specific about what roles, in what industries might use your product, and what value these roles might get out of using your product
 - For Navy tech, defense (e.g. L3, etc.), oil & gas, transportation and logistics, manufacturing and high tech are common target sectors

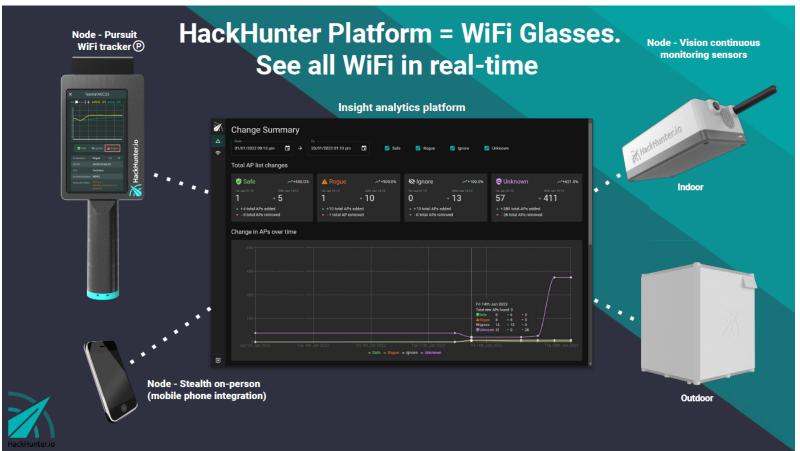
















Describe what jobs your product helps get done

Hackhunter can locate & track wifi signals associated with a specific device, which could be used to **track individuals** (being served a warrant, as an example).

Hackhunter can **detect & track malicious devices** that are not
supposed to be in an area, preventing
unauthorized surveillance and
exposure of sensitive data.

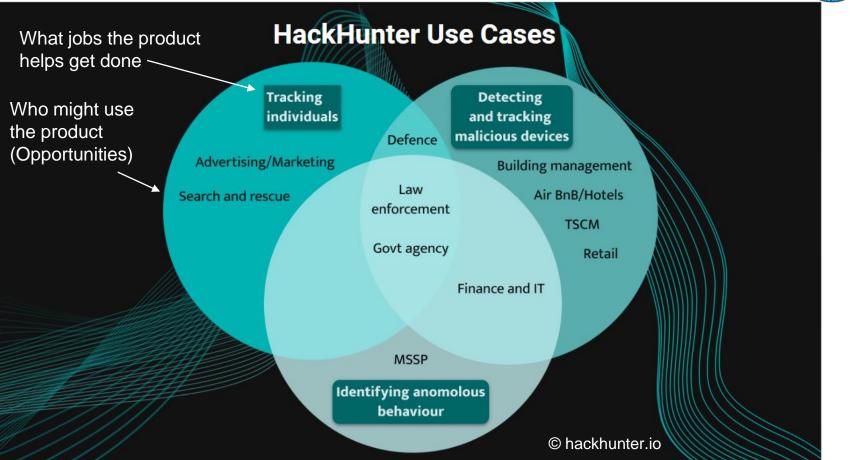
Hackhunter can identify anomalous behavior - abnormal communication patterns within an area that could indicate attempts at hacking, espionage, or other risky behavior.

Describe who might use your product, and why

Law Enforcement	Defense	Finance & IT Companies	Retail
Police officers could use the device while serving a warrant to ensure there are no "warning devices" (e.g. WiFi camera) that alert the person being served.	Warfighters could use the device to search and rescue a fallen comarade whose ATAK device is still active, or locate insurgent phones/drone controllers in the mission zone.	Physical and Cybersecuirty professionals could use the device to locate phones or laptops active in areas where they should not be present or transferring abnormal volumes of data	Physical security staff could use the device to locate wifi cameras, airtags or other devices illegaly placed in bath rooms, changing rooms, etc.











Step 2: For each use case, answer 6 key questions

- 1. Is there a compelling reason to buy your product (are you filling an unmet need with an effective solution that is better than current solutions)?
- 2. How many are likely to use your product (market size & growth)?
- 3. Are customers willing to pay an economically viable price for your product, and stick with the product once they have purchased it?
- 4. Are there major obstacles to delivering the product to market (product development / sales / distribution difficulties, funding challenges)?
- 5. How long will it take for revenue to materialize (market maturity/sales cycle)?
- 6. Are there external risks to adoption (competitive threats, 3rd party dependencies, or other barriers to adoption)?





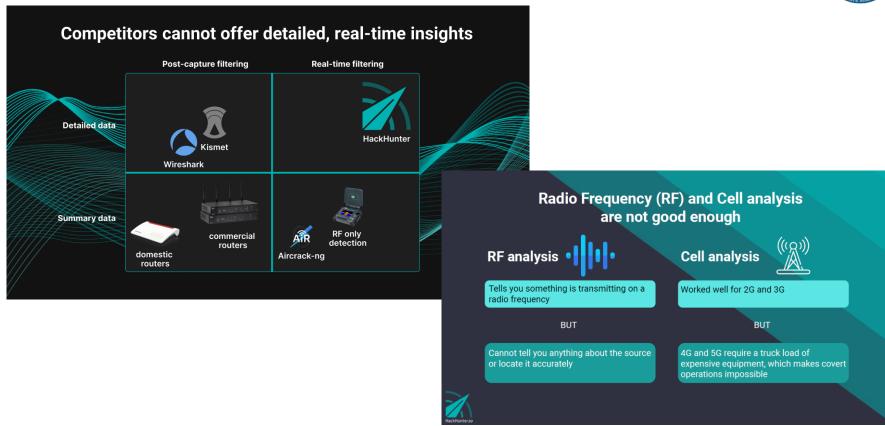
Opportunity: Law Enforcement (Q1)

1. Is there a compelling reason to buy your product (are you filling an unmet need with an effective solution that is better than current solutions)?

- Competitive Analysis find other companies providing similar features, or helping similar jobs get done; download their white papers, collateral to identify key pains in the industry
- Market Analysis search for industry pain points embedded within market reports and news (via Google / ChatGPT)











Opportunity: Law Enforcement (Q1)

- 1. Is there a compelling reason to buy your product (are you filling an unmet need with an effective solution that is better than current solutions)?
 - A. Yes. Current solutions can only identify whether a transmitting device is present (but not where it is located) and need to process network or device logs offline to determine what the device is (e.g. Ring camera, iPhone, etc.). Hackhunter's proprietary hardware and software technology can both locate and identify the device in real-time, giving the police officer confidence that the person they are supposed to serve is present (via IMEI) and there are no devices (e.g. ring camera) operating that may warn the person being served (which dramatically increases the risk of a violent confrontation)

Compelling Reason To Buy (VH/H/M/L): H





Opportunity: Law Enforcement (Q2)

2. How many are likely to use your product (market size & growth)?

- Bottoms up Google / ChatGPT search on number of people, locations, etc.
 where the product may be used. Linkedin or other social media site counts of
 the size of the audience for roles that might use or purchase your product.
- Tops-down "what is the size of the xyz market?"





Opportunity: Law Enforcement (Q2)

- 2. How many are likely to use your product (market size & growth)?
 - A. There are 708k police officers in the US (https://www.statista.com/statistics/191694/number-of-law-enforcement-officers-in-the-us/), and 18,000 precincts (https://usafacts.org/articles/police-departments-explained/). There is unlikely to be more than one hackhunter device per precinct, and the number of precincts are not increasing.

Market Volume (VH/H/M/L): M

Note that the M will be relative compared to other opportunities – Federal Gov would be "L" because there are only ~7k federal buildings in ~2.2k locations (https://www.gsa.gov/real-estate/gsa-properties) while there are over 107k hotels and motels (https://www.ibisworld.com/industry-statistics/number-of-businesses/hotels-motels-united-states/) and ~6.3k department store locations (https://www.vox.com/recode/21561046/death-rebirth-department-stores-retail-charts).





Opportunity: Law Enforcement (Q3)

3. Are customers willing to pay an economically viable price for your product, and stick with the product once they have purchased it?

- Competitor pricing relative to your cost to produce and acquire
- Competitor impact/return on investment promotions (via white papers, product collateral downloaded when answering Q1)
- Target industry/sector margins and buying behavior (internet search)
- Online reviews, retention/loyalty statistics (internet search)





Opportunity: Law Enforcement (Q3)

- 3. Are customers willing to pay an economically viable price for your product, and stick with the product once they have purchased it?
 - A. Unlikely. The value to a local police department is the device's ability to help the serving officer avoid unnecessary confrontation (e.g. a shootout) and validate the presence of the person to be served. However, Local law enforcement budgets are pretty tight, and this problem (identifying malicious wifi or BT signals or tracking a person despite random MAC or other standard cybersecurity precautions) is not top of mind for most departments. Hackhunter standard product cost makes it a capex item but capex is more likely to be approved during a budget cycle than opex within these departments.

Economic Viability (VH/H/M/L): L





Opportunity: Law Enforcement (Q4)

4. Are there major obstacles to delivering the product to market (product development / sales / distribution difficulties, funding challenges)?

- Product roadmap and resources required vs. funds available
- Routes to market (what are competitors doing)
- Prevalence of Resellers and difficulties in engaging with them (internet search)
- Financing trends in your specific domain





Opportunity: Law Enforcement (Q4)

- 4. Are there major obstacles to delivering the product to market (product development / sales / distribution difficulties, funding challenges)?
 - A. No. The product is available, and departments have shown interest, though a cost-down could help facilitate sales. We have identified hundreds of resellers that sell similar products to the public sector (other TSCM products or wifi routers, as an example) and have already secured 9 resellers within 6 months of outreach. Funding for producing units for demos and customer purchase has been a concern, but not yet an issue with current volume of demand. However, funding for hardware startups is not easily available.

Implementation Obstacles (VH/H/M/L): M





Opportunity: Law Enforcement (Q5)

5. How long will it take for revenue to materialize (market maturity/sales cycle)?

- Product roadmap how long before you will have a prototype? Confirm the prototype meets market desired cost and performance envelope?
- Market readiness –
- Sales cycle benchmarks, anecdotes for your target industry (internet search)





Opportunity: Law Enforcement (Q5)

- 5. How long will it take for revenue to materialize (market maturity/sales cycle)?
 - A. 9-12 months for the first sale after a reseller has been signed. Departments that want this device typically want it immediately after an "unsavory incident" but are hard to convince otherwise. "unsavory incidents" are reasonably easy to track through public data sources in the US and resellers are instrumental in creating awareness about the solution and having the relationship to quickly make the sale happen when the issue is top of mind. That being said, the volume of "unsavory incidents" is quite low so it is likely to take some time for the pipeline to develop.

Time To Revenue (VH/H/M/L): H





Opportunity: Law Enforcement (Q6)

6. Are there external risks to adoption (competitive threats, 3rd party dependencies, or other barriers to adoption)?

- How fast are competitors improving their products (internet search, news clips analysis)?
- Are there any macroeconomic or supplier-specific constraints/business concerns materializing (news clips analysis)?
- Market trends analysis





Opportunity: Law Enforcement (Q6)

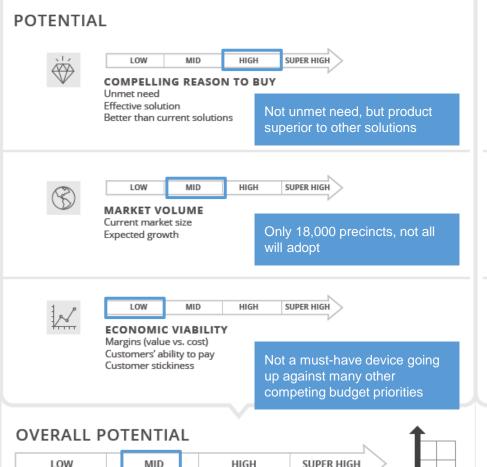
- 6. Are there external risks to adoption (competitive threats, 3rd party dependencies, or other barriers to adoption)?
 - A. There are no other solutions that combine frequency analysis and protocol analysis, especially for the price point (the alternative is a van full of equipment like you see in movies). There are some 3rd party dependencies related to potential chipset scarcity but this has not been an issue in recent quarters.

External Risks (VH/H/M/L): L



Opportunity: Law Enforcement

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CHALLENGE



IMPLEMENTATION OBSTACLES

HIGH

HIGH

HIGH

Product development difficulties Sales and distribution difficulties Funding challenges

MID

product available & fits need; many resellers available

Long, relationship driven sales

cycle (faster with resellers)

Unique solution for job being

done, some risks related to

chipsets but not recently

SUPER HIGH

SUPER HIGH

SUPER HIGH

SUPER HIGH



LOW

TIME TO REVENUE

LOW

LOW

Development time Time between product and market Length of sale cycle

EXTERNAL RISKS

MID

Competitive threat 3rd party dependencies

Barriers to adoption

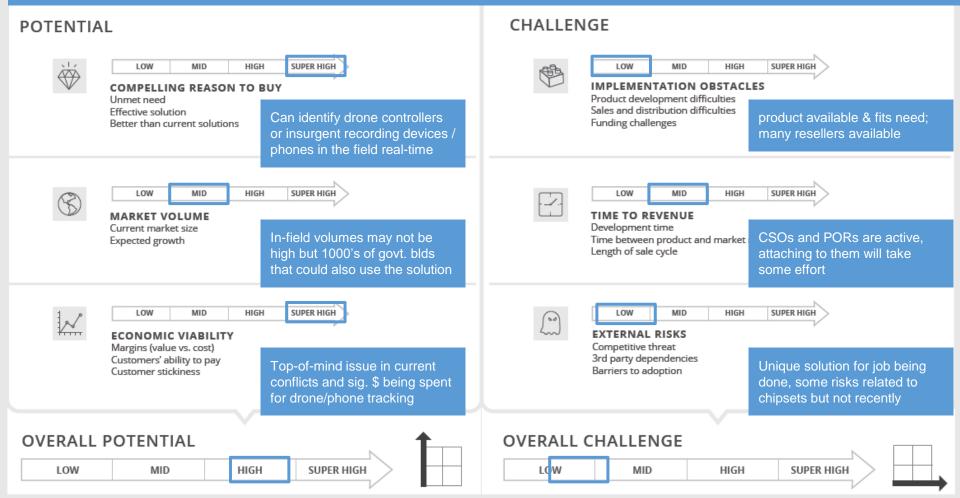
OVERALL CHALLENGE

HIGH MID



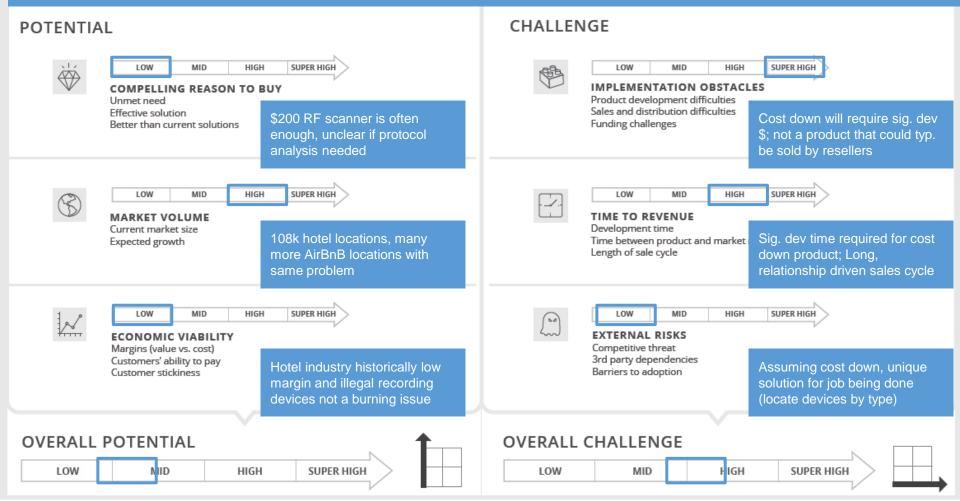
Opportunity: Government & Defense





Opportunity: AirBnBs/Hotels

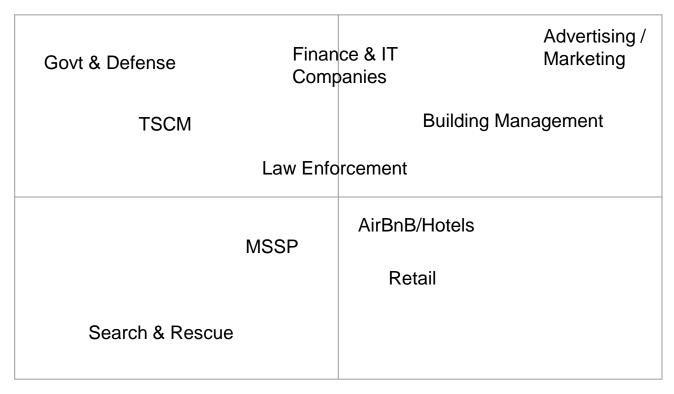
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Opportunity Attractiveness Map

POTENTIAL







Step 3: Identify where to focus

- 1. Choose ONE opportunity to pursue now ideally a high potential, low challenge opportunity.
- 2. Identify the extent to which the product and market requirements for other opportunities are related to your primary opportunity.
- 3. Keep opportunities that are highly related and require low effort to service open as growth opportunities pursue now if resources are available.
- 4. Keep attractive markets that are related but do not share major risks with your primary market open as backups that you could pivot into if needed.



I. Choose a Primary Market Opportunity to focus on (based on the Attractiveness Map). Govt & Defense II. Pick other attractive market opportunities from your set to examine possible Backup and Growth IT and Financial Law Enforcement **TSCM** Options. Services Cos. Relatedness to your Primary Market Opportunity: PRODUCT RELATEDNESS To what extent do the products share: technological competences, required resources, necessary networks MARKET RELATEDNESS To what extent do the customers share: values and benefits, sales channels, word-of-mouth Suitable as: BACKUP OPTION Backup Backup Backup Attractive market opportunities that do not share major risks with your Primary Market Opportunity to allow for a change in direction **GROWTH OPTION** Growth Growth Growth Attractive market opportunities that allow your business to create additional value III. Design your Agile Focus Strategy: * Keep at least one Backup and one Growth Keep Place in Pursue Place in Keep Place in Pursue Keep Pursue Option open storage now open storage now open storage now open * Decide if any option is worth pursuing now · Place the rest in storage





Next Steps

 Replace the example answers in this document with your own technology's use cases to identify your beach head market

 Email me your ppt pages by Monday, Feb 12, 8am pacific to get feedback during my office hours on Feb 13

Contact me at <u>akale@bmnt.com</u> if you have further questions





Questions?

