



UMM

ULTRASONIC MEDICAL MAPPING

A NEW APPROACH TO PANCREATIC CANCER DETECTION

CONFIDENTIAL INVESTMENT PRESENTATION

FALL 2019

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Bethesda, MD 20814

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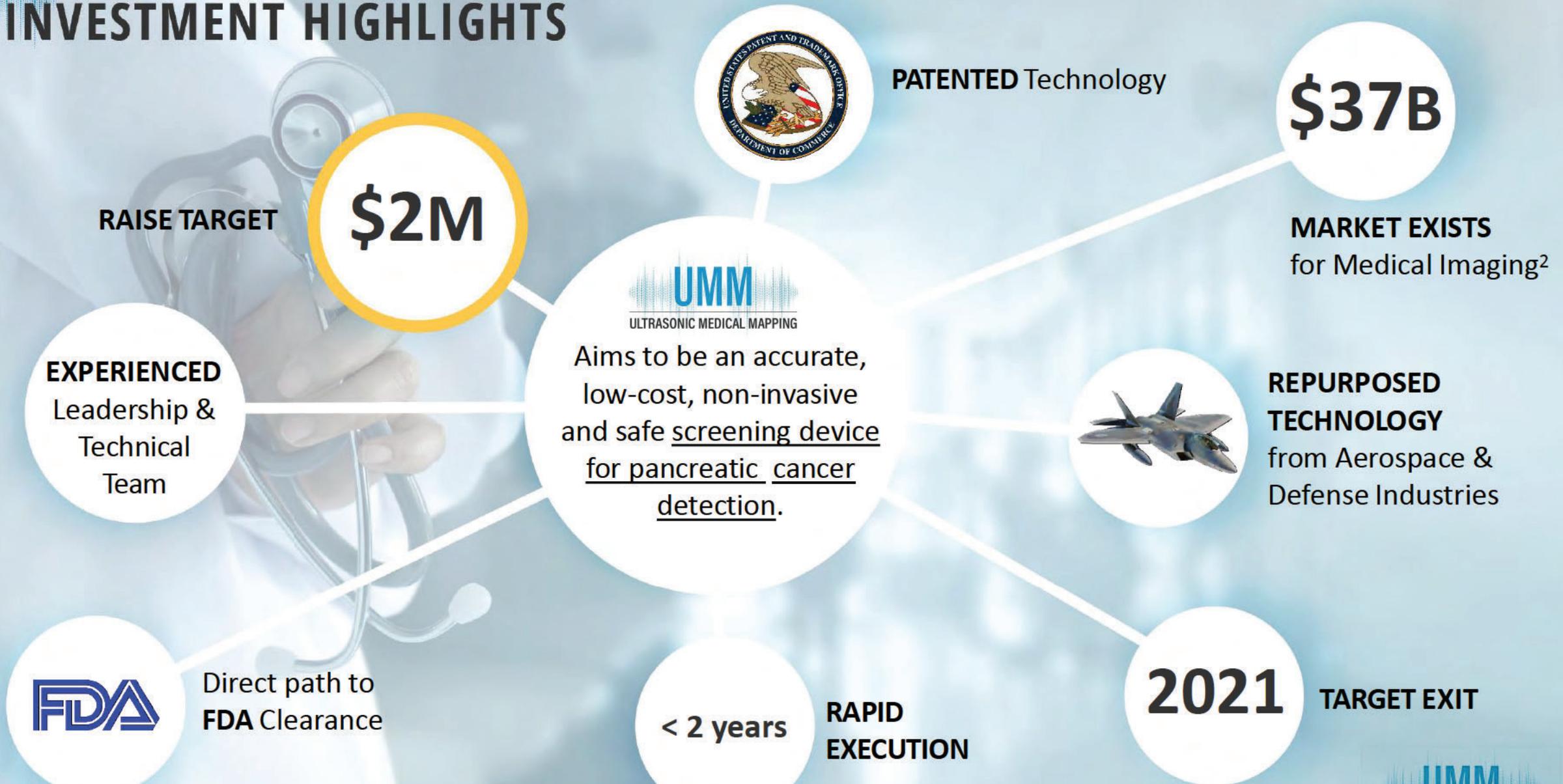
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UMM RISK FACTORS

UMM assesses that the technical challenge in completing the project is moderate, owing to the existing knowledge and the availability of off-the-shelf components in both hardware and software. Some specific risks include, but are not limited to, the following:

- Medical diagnostic use adds complexity due to the variation of the targets. This creates risk associated with the application and optimization of industrial techniques for use on human tissue.
- A related risk lies in the development of the software assisting the visualization of tissue images, and building feature recognition capabilities. Algorithms that have assisted material science and aerospace applications can be applied to the UMM ultrasound diagnostics but they must be transformed for implementation in medical imaging.
- Medical end-users might resist new tools due to old diagnostic approach biases, therefore, attention needs to be paid to ultimate presentation of the clinical data to the user.
- Resistance and hostile opposition to the new technology by users of competitive diagnostic tools (x-rays) and by established players protecting their market share and territories must be managed.
- There exists the possibility that a new technology that can provide an equivalent or superior benefit will be invented and render UMM's technology obsolete.

INVESTMENT HIGHLIGHTS



1. Ultrasonic Medical Mapping LLC is a Maryland based company, incorporated in Delaware.

2. Based on the existing medical diagnostic market. Does not include an additional \$9B+ of new revenue expected from the development of the UMM technology as no existing technology can currently address this need.

3. All funds are in USD.

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THE PROBLEM

Pancreatic Cancer accounts for 3% of all cancers and 7% of all cancer related deaths with a 6% survival rate¹.



No mass screening methods exist for pancreatic cancer at this time



Existing screening methods are cost prohibitive or ineffective¹



LIMITED

Ability for pancreatic cancers to be caught at an early, and often, treatable stage

PANCREATIC
CANCER
ACTION
NETWORK

“There is currently no standard diagnostic tool or established early detection method for pancreatic cancer. When diagnosed early, surgical resection offers the best chance for long term control of pancreatic cancer, yet most patients are diagnosed at later stages and are not eligible for surgery. Therefore, tests sensitive enough to detect pancreatic cancer in the earliest stages are urgently needed.”

1. Represents the 5 year survival rate for pancreatic cancer.

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UMM SOLUTION

UMM IS A PATENTED CANCER DETECTION SOLUTION THAT IS:

LOW – COST

Repurposing of existing technology may drive down the medical cost curve substantially

RADIATION FREE

Low Frequency ultrasonic energy is generally safe and does not expose the patient to ionizing radiation

NON-INVASIVE

Reliance on Low Frequency ultrasonic signals that pass through the body

GENERALLY ACCURATE

Potentially capable of detecting lesions and tumors smaller than other existing technologies

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ADDITIONAL PRODUCT INFORMATION



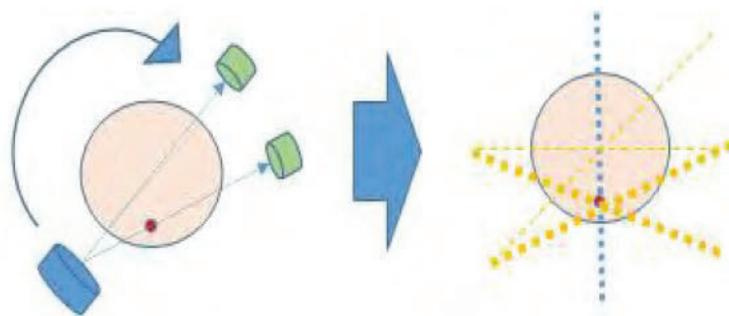
UMM owns US Patent 13/979,605¹

The UMM technology operates on the simple premise that a low frequency ultrasonic signal may be altered in different ways by passing through different materials. We compare the character of the received waveform as the transmitter is rotated around the target and use signal variances to locate cancerous tissue anywhere in the body.

THE SYSTEM²

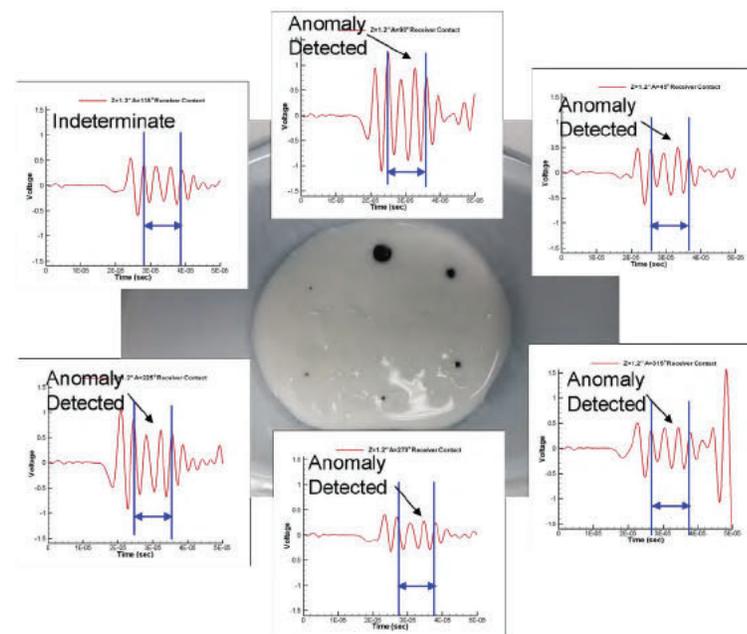


HOW IT WORKS



The transmitter (blue) is rotated around the target allowing the location of internal anomalies to be triangulated and mapped

GEN 5 TESTING OUTPUT



Gen 5 test results showed detections of anomalies at a level potentially smaller than other existing technologies³.

1. UMM's patent grants an exclusive right to use Low Frequency Ultrasound for medical diagnostics. Low Frequency Ultrasound can be safely used anywhere in the body.
2. Anticipated system configuration pictured above.
3. Preliminary testing was performed against a dense breast tissue proxy with numerous anomalies, half of which were below the detection threshold of existing technologies
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MARKET LANDSCAPE

PRODUCT	 ULTRASONIC MAPPING	 TRADITIONAL ULTRASOUND	 MRI	 CT SCAN	 ENDOSCOPIC ULTRASOUND
Patient Cost	\$125	\$125	\$3869 (\$4656 with contrast)	\$3,394	\$3,900 (\$5,370 with anesthesia) ³
Facility Cost	\$200k	\$10k+	\$3M ¹ (3T New)	\$2M ¹ (256 Slice New)	\$10k+
Max Daily Scans	16	24+	12	12	8
Full Body Capable	Yes	No	Yes	Yes	No
Radiation Free	Yes	Yes	Yes ²	No	Yes

TRADITIONAL ULTRASOUND IS GENERALLY NOT CAPABLE OF DETECTING PANCREATIC CANCER

1. MRI and CT both require extensive remodeling upon installation.
2. While MRI does not expose patients to ionizing radiation, the intense magnetic fields preclude use on patients with implanted medical devices.
3. Endoscopic Ultrasound (EUS) is a minimally invasive procedure where a small ultrasound device is inserted into the abdomen via the mouth and/or intestines with the patient typically under general anesthesia.
4. Costs for MRI/CT/EUS from Table 2, Am J Surg. 2015 September ; 210(3): 409–416. doi:10.1016/j.amjsurg.2014.11.017
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MARKET CREATION – PANCREATIC CANCER SCREENING

There is no current mass screening protocol for Pancreatic Cancer. We believe UMM can change this.

1%

Of adults older than 50 who have new-onset diabetes will develop Pancreatic Cancer within 3 years

1.5M

New cases of diabetes annually in the US³

>30M

Existing cases of diagnosed diabetes in the US³

14 MONTHS

Estimated time for Stage I cancer to progress to Stage IV¹

Annual

Or Semi-Annual Screening Requirement to catch tumors 5mm and smaller²

20.6MILLION

Min. Estimated Number of Medically Required Screenings Per Year in the US Market Alone³

NIH NATIONAL CANCER INSTITUTE

Has stated that early detection is among the most critical unmet need in combating Pancreatic Cancer.

1. Yu J, et al. Gut 2015;64:1783–1789. doi:10.1136/gutjnl-2014-308653 (<http://dx.doi.org/10.1136/gutjnl-2014-309066>)

2. Tumors 5mm and smaller typically do not spread outside of the pancreas. Existing technology lacks sensitivity to detect tumors during this timeframe. (www.pancreasjournal.com, Early detection of sporadic pancreatic cancer)

3. Number of diagnosed cases of diabetes aged 45 and over (CDC, National Diabetes Statistics Report 2017). Does not include elective screening, which UMM estimates could equate to 40M + additional screenings per year in the U.S. alone based on a survey performed by UMM (see additional information.)

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OUR TEAM

DAVID JOHNSON
CEO – Founder



- Former Naval Officer (Intelligence) with over 27 years experience in technical program management.
- Keen technical skills developed and employed during multiple naval deployments across three different theaters of operation.
- Led UMM program development through successful pre-clinical effort. Managed all contractors and partners to deliver on-time and on-budget.



AARON MISHLER, CFA
CFO – Founder



- Former Naval Officer (Naval Flight Officer) with over 17 years experience in financial services industry.
- Critical technical skills developed and used in both intelligence support and tactical operations across two different theaters of operation.
- Raised first round of capital while designing and directing technical development of UMM's working feasibility prototype.



REECE TOMLINSON
MBA, CPA, CMA
Director of Business Development



- Founding Partner of RWT Growth. Previously led 5 companies with the largest having over 500 employees and \$75M in revenue.
- Founder of several medical companies with a global focus.
- Successful entrepreneur with extensive experience enabling new companies to maximize their potential.



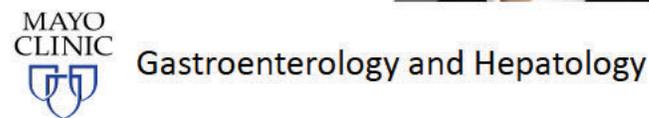
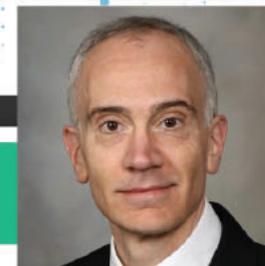
LYNN MATRIAN, PHD
Scientific Advisor



DR. SURESH CHARI
Medical Advisor



DR. MICHAEL LEVY
Medical Advisor



POTENTIAL PATHWAY TO COMMERCIALIZATION



1 Prototype Development



2 Clinical Studies



MASSACHUSETTS
GENERAL HOSPITAL



3 Application Development



POTENTIAL EXIT STRATEGY

LICENSE/SELL TECHNOLOGY TO LARGE MEDICAL IMAGING CORPORATIONS

PHILIPS
Healthcare

AGFA *Agfa*
HealthCare

SAMSUNG

HITACHI
Healthcare

SIEMENS
Healthcare

 GE Healthcare

Carestream

TOSHIBA
MEDICAL

FUJIFILM

 **SHIMADZU**

1. A list of recent known transactions from the referenced companies is available upon request.

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UMM AIMS TO DELIVER TO INVESTORS:

An opportunity to transform medicine and directly save lives.

The ability to directly impact and improve patient access to care.

FOR MORE INFORMATION CONTACT:

AARON MISHLER

CHIEF FINANCIAL OFFICER

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AARON@UMEDMAP.COM

THANK YOU

OR
MEDICAL
DOCTOR
OB-GYN
MED
PT.
ER

UMM

ULTRASONIC MEDICAL MAPPING

ADDITIONAL INFORMATION

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OPD-832-R2
IDP 65943-08

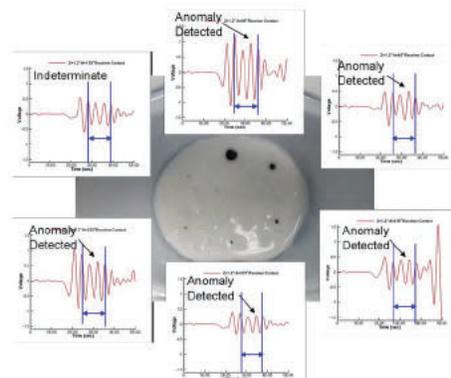
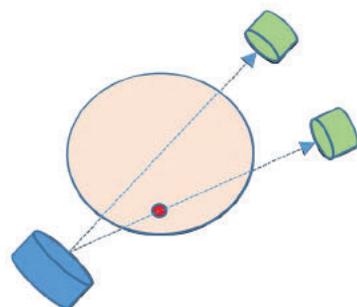
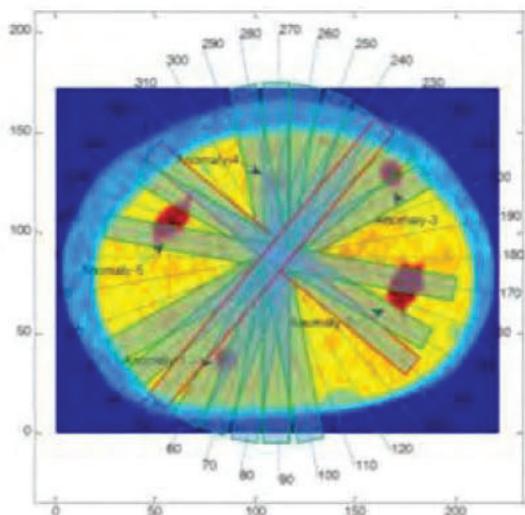
THE PRODUCT

UMM has developed a low frequency ultrasonic detection system that we believe is simple to use and accurate.

This proven industrial technique analyzes changes to sound as it passes completely through an area while identifying and “mapping” any signal variances. When using ultrasonic mapping on human tissue, the measured signal variances pinpoint and “map” the location of tumors, both large and small. This is accomplished without radiation exposure and without direct tissue penetration.



UMM owns US Patent 13/979,605 which gives UMM the exclusive rights to use low frequency ultrasound for the collection of medical diagnostic data.

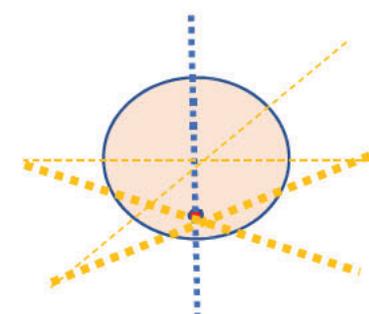
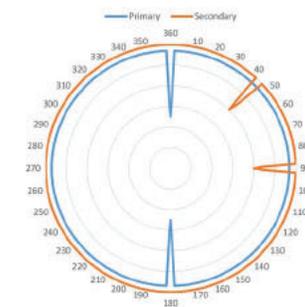


The transmitter (blue) is rotated around the target allowing the location of internal anomalies to be triangulated and mapped.

RESULTS

UMM preliminary **Gen 5** test results showed detections at a level larger than other existing technologies¹.

TECHNOLOGY	DETECTIONS (OUT OF 18)
2D Mammography	• 5 detections
3D Mammography	• 5 detections
Breast MRI	• 7 detections
CT Scan	• 9 detections
UMM	• 11 detections



1. Preliminary testing was performed against a dense tissue proxy with numerous anomalies, half of which were below the detection threshold of existing technologies.

PANCREATIC CANCER: EPIDEMIOLOGY

An estimated 48,960 new cases in the US in 2015, with 40,560 deaths.

PANCREATIC CANCER RISK FACTORS:

Diabetes

Obesity

Alcohol Abuse

Chronic Pancreatitis

Age

Smoking

Siegel R, et al. CA Cancer J Clin. 2015;65:5-29

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SURVEY RESULTS

UMM hired professional market research firm *Ask Your Target Market* to ask several targeted questions to 500 consumers age 45 and up. Below are key findings from that study:

88% of participants would like to take a screening test if it were fast, safe and easy.

49% of participants would pay for this screening test out of pocket *every year* at a cost of \$125 USD.

60% of participants would pay for this screening test out of pocket every other year at a cost of \$125 USD.

84% of participants would take this test *every year* if their insurance plan covered it.

UMM assesses the potential U.S. market size for pancreatic screening to be in excess of **9 Billion USD**.

This study was paid for by UMM. Results from other studies may differ.

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OUR TEAM – PARTNERS AND IMPLEMENTERS



CLINICAL PROTOTYPE DEVELOPMENT

Pennsylvania-based Singularis Solutions is expertly skilled at rapid prototype design and development and full scale testing and implementation across four sectors: Renewable Energy, Medical, Architectural and Defense. The company has extensive experience in implementing quality control procedures and protocols and is developing UMM's clinical-ready prototype using these controls.



CLINICAL TESTING & REGULATORY SUPPORT

Massachusetts General Hospital possesses specialized expertise in conducting human clinical studies using ultrasonic systems. Their team will be conducting UMM's clinical studies while guiding the company on FDA processes and helping to compile the documentation required for 510K clearance.



STRATEGIC SUPPORT & PARTNERSHIPS

Through UMM's relationship with the Pancreatic Cancer Action Network (PANCAN), the company has several of the leading physicians in the field on its team.



EXECUTION SUPPORT & ADVISORY

Through its partnership with RWT Growth and its team of consultants focused on accounting, business growth and M&A, UMM will benefit from a wide array of resources, decreasing the time to market.