

Next Generation Green AC Systems
No Freon.
No Compressor.
No Flammable Refrigerants.

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Cool Sound

Industries, Inc.



Problems with Current AC Systems



Freon is Bad
for the Environment



AC Refrigerants
are Flammable



Requires Annual
Maintenance



Consumes ~40%
Of Home Electricity



Vapor Compression
is Outdated

Why Cool Sound Now?



New Regulations

Seeking Green Technology



Freon Banned in 2025

For All New AC Systems



No Flammable Refrigerants

Safety concerns in HVAC



Cooling Demand Rising

Due to Global Warming



Increasing Electricity Costs

Driving demand for efficiency



Lack of Innovation

In the HVAC Industry



Cool Sound Solutions



**Thermoacoustics Uses
Sound Waves**
That Create a Cooling Effect



Completely Eliminates
Freon, Compressors &
Flammable Refrigerants



Consumes Less
Electricity



Rarely Requires
Maintenance



Top Professors
Penn State, Purdue, & UT Dallas



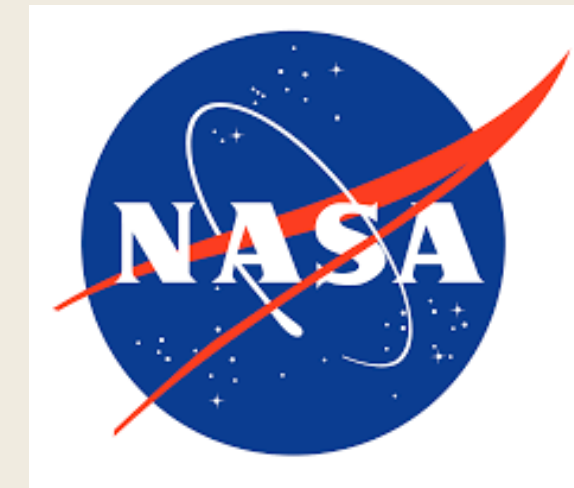
Applied Research Laboratory
Working with Dept of Defense and US Navy

Proven Technology, Revolutionary Applications

- **NASA (STS-42 January 1992)**
- **US Military, US Navy**
- **Department of Energy**
- **Los Alamos National Lab**
- **Cooling Components on Satellites and Submarines**
- **Refrigerators, Freezers**
- **Ben & Jerry's Ice Cream**



Thermoacoustics is already used where reliability and performance are non-negotiable.



For cooling sensitive components on satellites and advanced hardware.



Used in cooling systems on submarines where reliability is paramount.



Pioneering research and development for high-efficiency energy systems.



Our Team is Passionate About Engineering & Innovation



Keith Franklin, CEO



**Rex Witkamp
Vice President**



**Yuriy Shirokikh
Chief Financial Officer**



**Dan Gudema
VP Business
Development**



**Michael Alguire
Advisor, Research &
Business Development**



**Ethan Tuby
Advisor, Ex-KPMG
Deal Advisor**



**Yun Jing, PHD
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Penn State University**



**Robert W.M. Smith, PHD
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**Andres Hernandez
Mechanical Engineer
Design & Manufacturing
Escuela Colombiana de
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**W. Travis Horton, PHD
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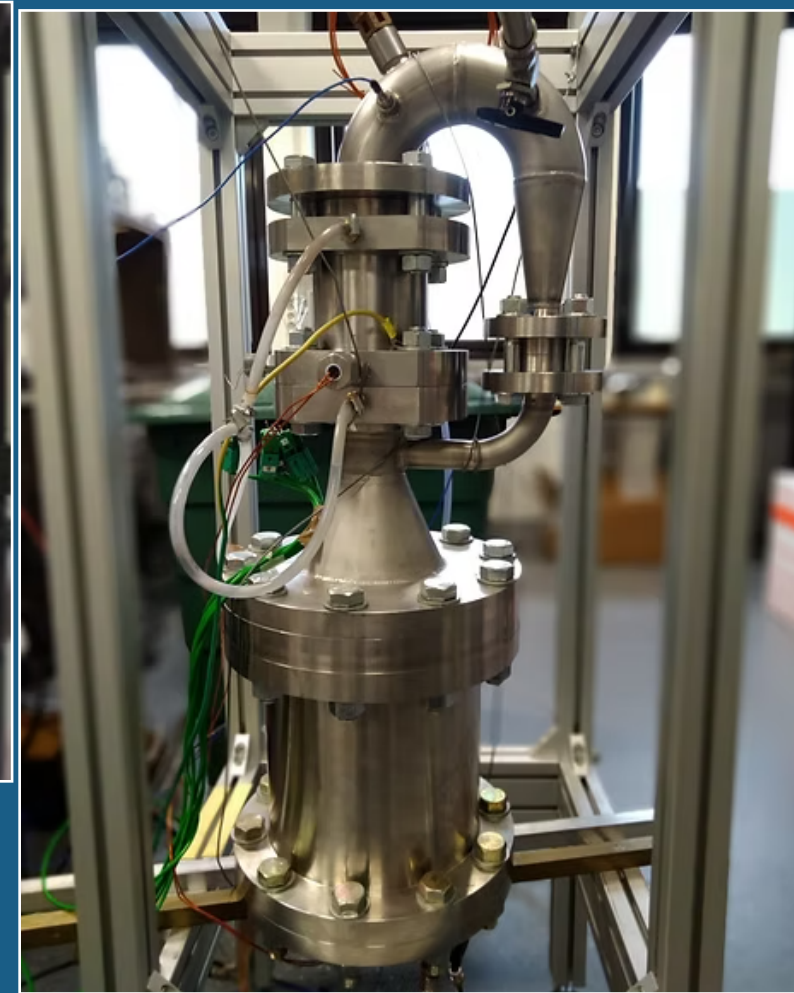


**Wei Li, PHD
Professor
Mechanical Engineering
University of Texas at
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**Yaoyu Li, PHD
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Mechanical Engineering
University of Texas at
Dallas**

Thermoacoustic Prototypes



Business Strategy

1



Intellectual Property

Build proprietary improvements and enhancements for patent protection, creating multiple layers of IP defense.

2



Prototype Validation

Prove technical viability, establish reliability standards, and achieve continuous efficiency improvements.

3



Market Credibility & Commercialization

Demonstrate safety compliance and performance excellence for strategic licensing or manufacturing partnerships.

Revenue Paths

Licensing

Strategy

License CoolSound's thermoacoustic technology to major HVAC manufacturers

Target Customers



Economics

Royalties ~3-4% of OEM net sales (based on licensing averages)

Key Benefit

Enables rapid global adoption through licensed OEM manufacturing and distribution companies

Manufacturing & Direct Sales

Strategy

Sell complete CoolSound AC Units directly to customers

Target Customers

- Homeowners
- Commercial buildings seeking high-efficiency cooling (LEED*)
- Industrial facilities

Economics

Net margin of ~10-25% (based on industry historical net margins)

Key Benefit

Greater control over product quality, customer experience, and long-term brand value

* Leadership in Energy and Environmental Design Certification

Multi-Billion Dollar Global HVAC Opportunity



**Total Addressable
Market (TAM)**

\$241.5 Billion

Global HVAC systems market

Projected to grow to ~\$446B by 2033



**Service Addressable
Market (SAM)**

\$11.4 Billion

North American air conditioning
systems market

Projected to grow to ~\$16B by 2033



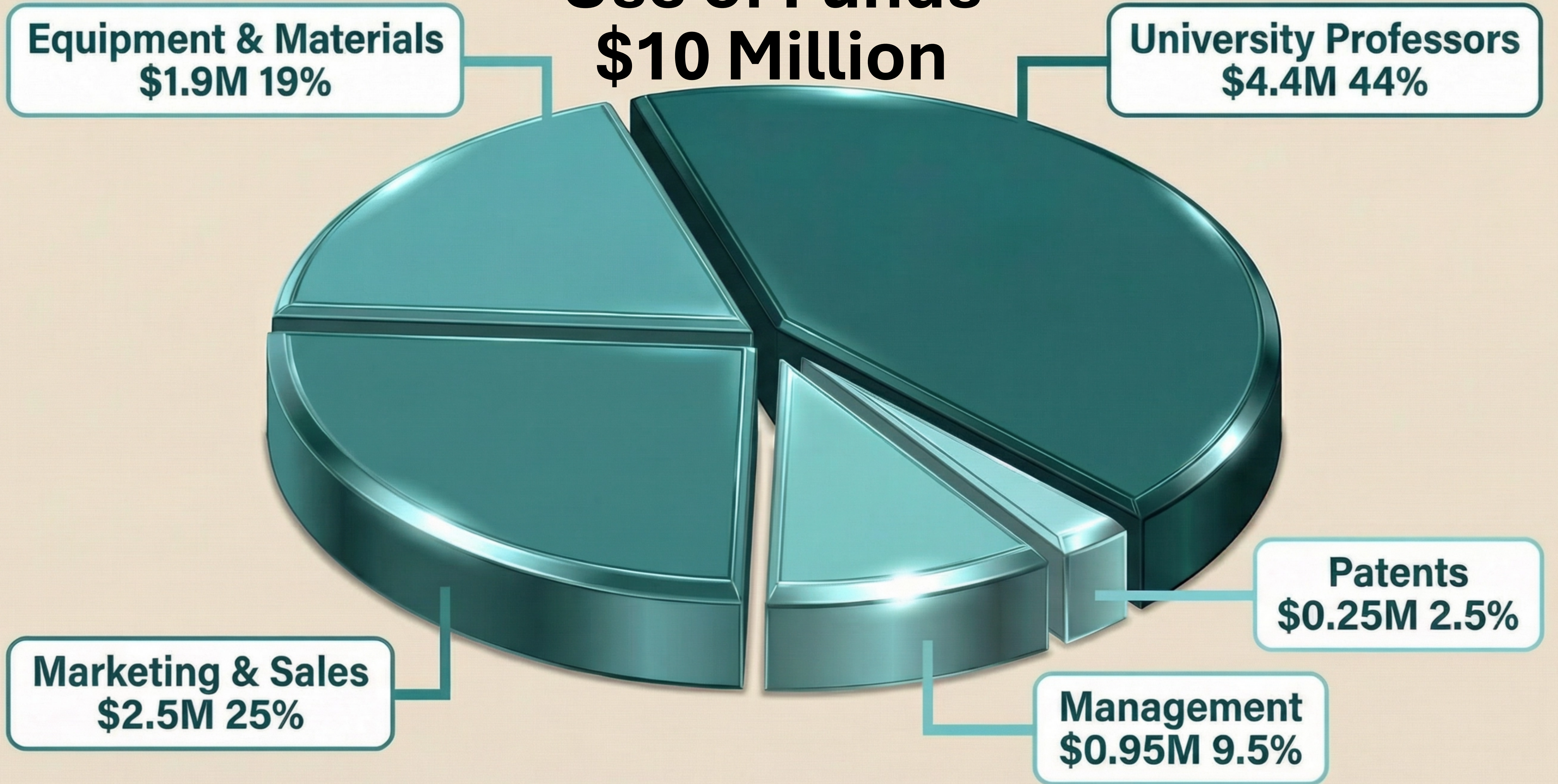
**Service Obtainable
Market (SOM)**

\$114 Million

1% of SAM – achievable in 3-5 years

Primary focus: residential air
conditioning

Use of Funds \$10 Million



Note: Collaborating with our universities, we estimate that the use of their buildings, equipment and security measures, among other resources, will save Cool Sound approximately \$15 million which would otherwise need to be funded by investors.

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Cool Sound
THERMOACOUSTICS

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SUSTAINABLE INNOVATIONS CENTER