# ADS Technology to Stop Active Shooters

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# Basic Properties of ADS

- Pain without injury
- The 'Active Denial System' deters attackers by sending a non-lethal millimeter-wave of electromagnetic energy, causing a burning sensation.
- Wave Penetrates the skin to 1/64 of an inch, causing a feeling similar to being on fire
- Antenna focuses the invisible energy
- Transmitter Produces the ADS Frequency which is 95 GHz.

# Schematic of the Large Raytheon ADS Device.

**We Propose R&D on Compact, Portable, ADS technology to Stop Active Shooters and Inactivate Terrorists without Collateral Damage in Urban Warfare.**

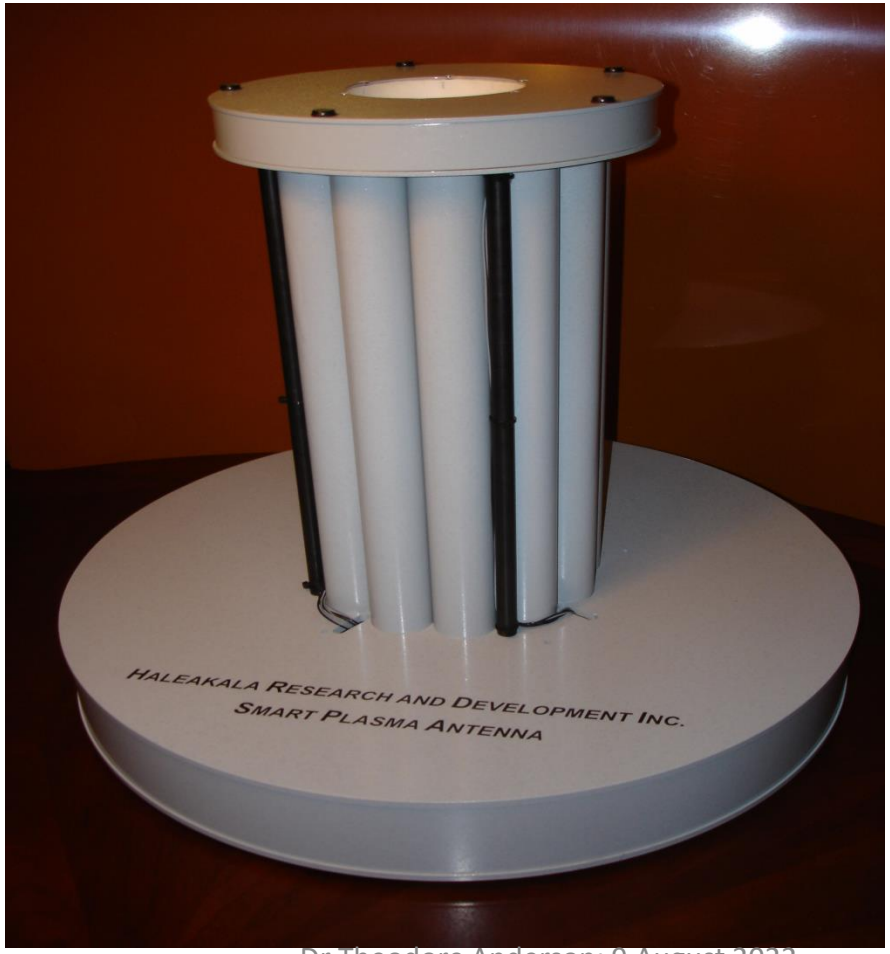
# Basic Design of ADS Device to Stop Shooters

- The initial design will have omnidirectional or isotropic ADS antennas which can fit in the ceilings and walls of classrooms and hallways.
- The ADS radiation will transmit in all directions.
- Students and teachers will have to take cover leaving the shooter exposed to the ADS radiation.
- The burning sensation of the ADS radiation will cause the shooter to drop the gun or stop shooting. The police can subsequently apprehend the shooter.
- This is nonlethal so no one gets killed by the ADS radiation including the shooter.

# Smart Plasma Antenna Design without Ruggedization for the Advanced ADS Device.

## Currently Works at Various Frequencies.

# Smart Plasma Antenna Design for the Advanced ADS Device.
## Currently Works at Various Frequencies.



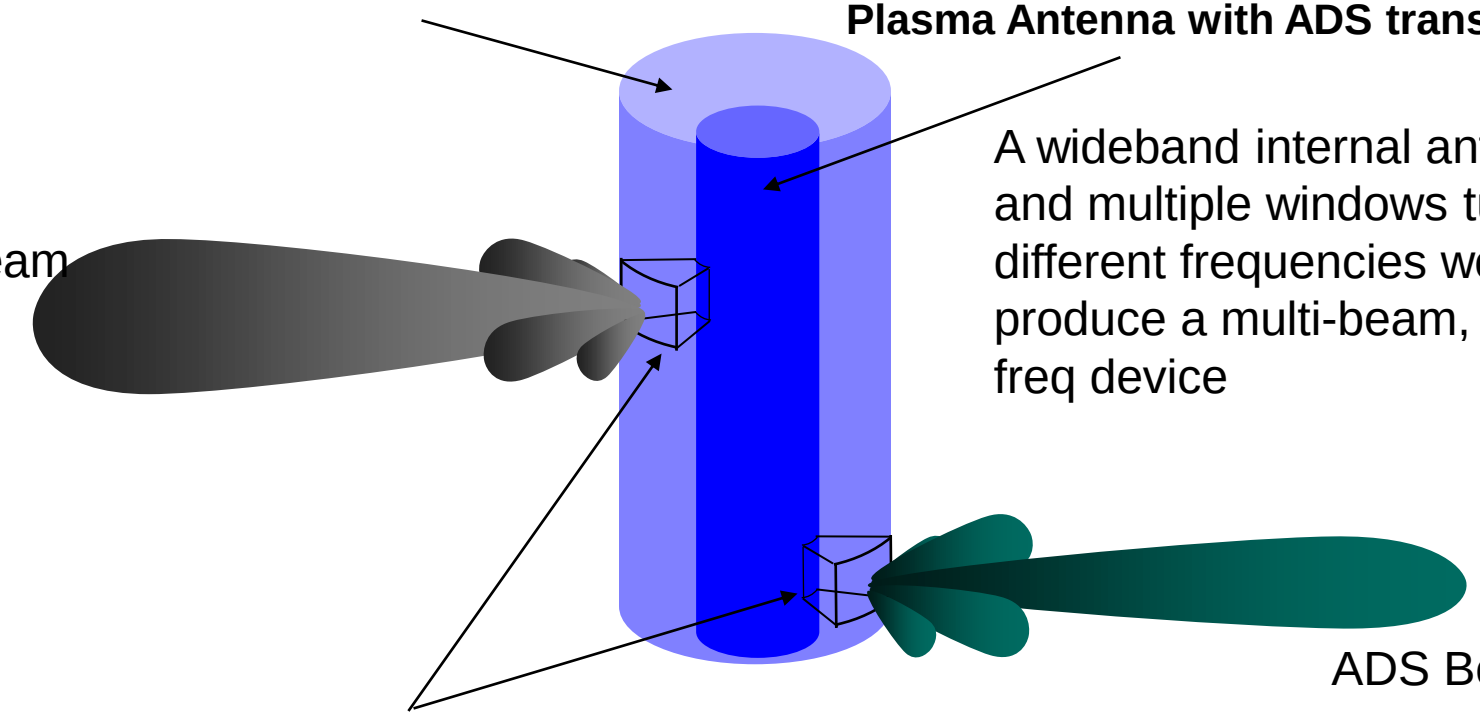
# Schematic of Smart Plasma Antenna ADS Device

External Plasma Blanket Steers and Shapes the ADS Beam

**Internal Omnidirectional Metal (hybrid design) or Plasma Antenna with ADS transmitter**

A wideband internal antenna and multiple windows tuned to different frequencies would produce a multi-beam, multi-freq device

ADS Beam



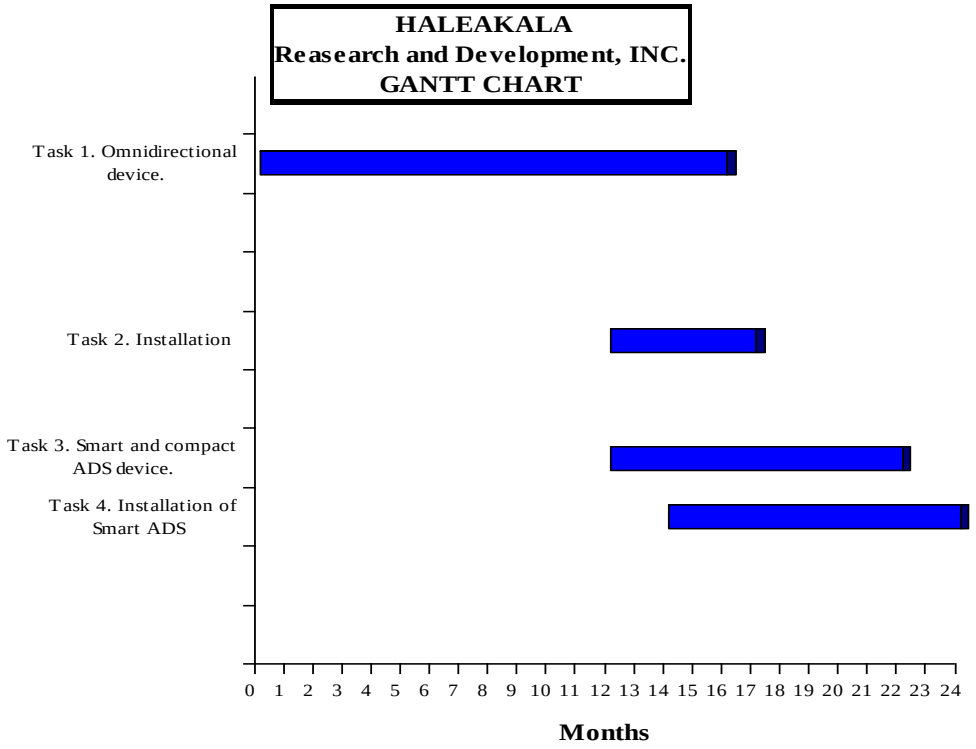
ADS Beam

Low Density Plasma Windows Opened for Transmit or Receive

# Work Plan Overview.

1. Develop omnidirectional or isotropic ADS device that would fit in the walls and/or classrooms, hallways, and outside but in the vicinity of schools. $200,000.00 Month 1 to 16
2. Other than schools apply this technology to Synagogues, Mosques, churches, malls, auditoriums, stadiums, or inside and outside any building with active shooter concerns. $80,000.00 Month 12 to 17
3. Develop the smart plasma antenna ADS device that can selectively scan lock on and inactivate the shooter without inactivating anyone else such as students, teachers, and police. $ 350,00.00. Month 12 to 24.
4. Other than schools apply this technology to Synagogues, Mosques, churches, malls, auditoriums, stadiums, or inside and outside any building with active shooter concerns. $100,000.00 Month 21 to 24.

Total : $ 730,000.00




# Total : $ 730,000.00

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# Conclusions

- ADS can nonlethally stop shooters.
- Our basic ADS device to be developed will transmit ADS frequency which is 95 GHz in all directions. Students and Teachers must take cover.
- No one is killed including the shooter.
- Police can apprehend the shooter.
- Our Advanced and Ultimate ADS Device will scan and lock on to shooters without affecting anyone else.
- The shooter has to drop the gun to stop the sensation of pain from the ADS.
- Reduction of collateral damage and friendly fire tragedies in urban warfare.
- Supports strategies in releasing hostages.