

Hi! We're Team Firefly.



Jesse Pound
Operations Master

**Has worked on nanomaterials
to absorb/store hydrogen
for fuel cells**



Valkyrie Holmes
Tech/Research Enthusiast

**Currently building a
website in Javascript for
Bitcoin purposes**



Soliana Fikru
Design Whiz

**Has built digital 3D
models/animations of
graphene in batteries**



This is my Dad.

See the resemblance?

My dad is a police officer. Every year, Northern British Columbia experiences terrible wildfires and my dad is called up to help, sometimes for 3 weeks at a time.

"It feels like the end of the world"



4.2 million acres

That's nearly 3.2 million football fields worth of California land in 2020 alone.



10500 structures

These were destroyed in the wildfires, incurring billions of dollars in damage.



\$12 billion lost

For suppression efforts and damage repair. This was in just one season.

\$103 billion

Cost of damages from the 2019-2020 Australian bushfires.

\$450 billion

Cost of long-term health exposures related to 2008 - 2012 US wildfires

A satellite image of Australia with numerous red dots scattered across the landmass, representing the locations of bushfires. The dots are concentrated in the eastern and southern regions. The surrounding oceans and parts of neighboring landmasses are visible.

830 million

Tonnes of CO₂ released by the 2020 Australian
bushfires (more than annual output)

”

The fire fighting industry is 20 years behind any other industry when it comes to the tools and technology being used.

Suchinder Dhillon /CEO & Founder
ARSAC Technologies



Satellite + Weather mapping takes **too long**



Aerial support has **delayed** response time



Ground cover and aerial firefighting is **unsafe** and often **ineffective**



The solution?

Autonomization.

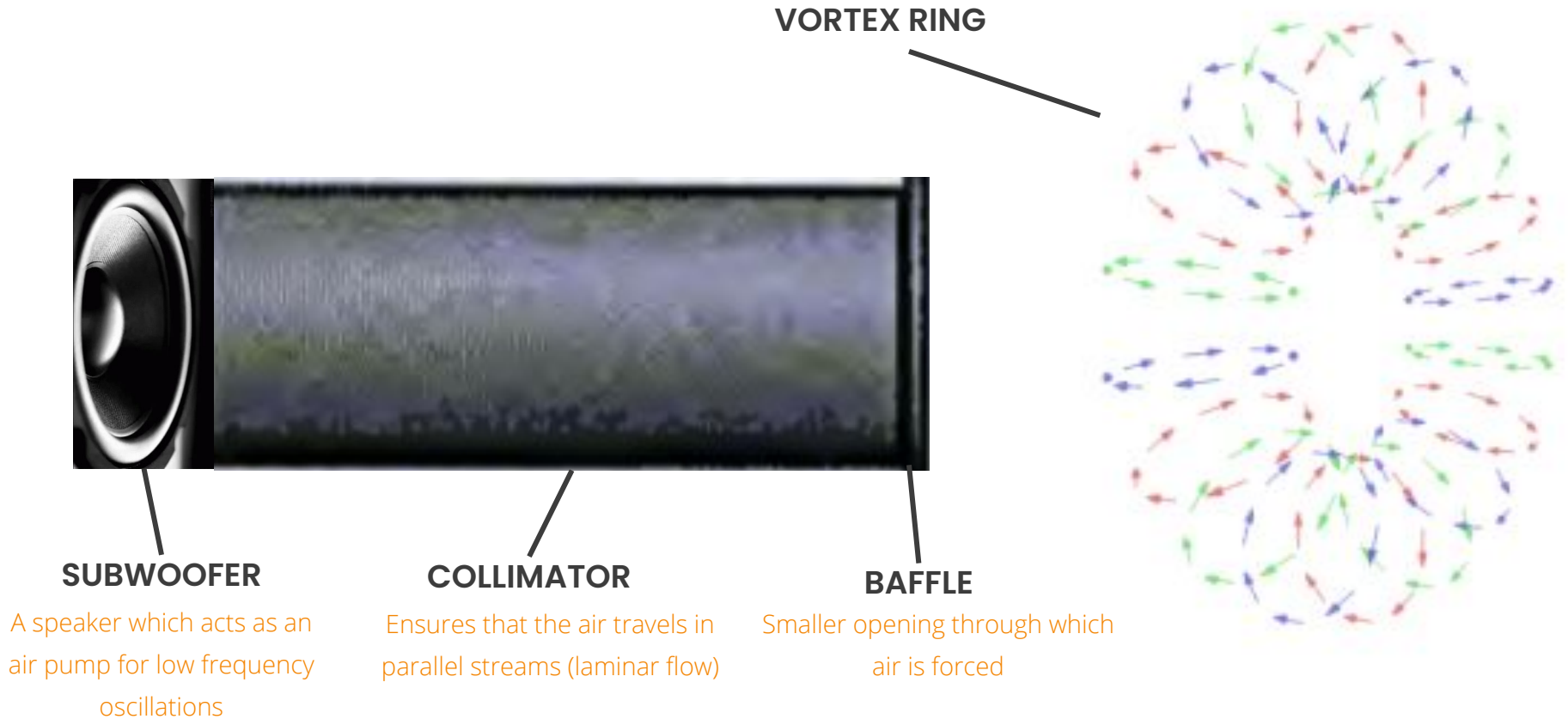
- **Drones** contain the fire 🔑
- **Planes** fight the fires
- **AI** maps + detects fires and determines where to target
- All aircraft will be **connected** via radio waves

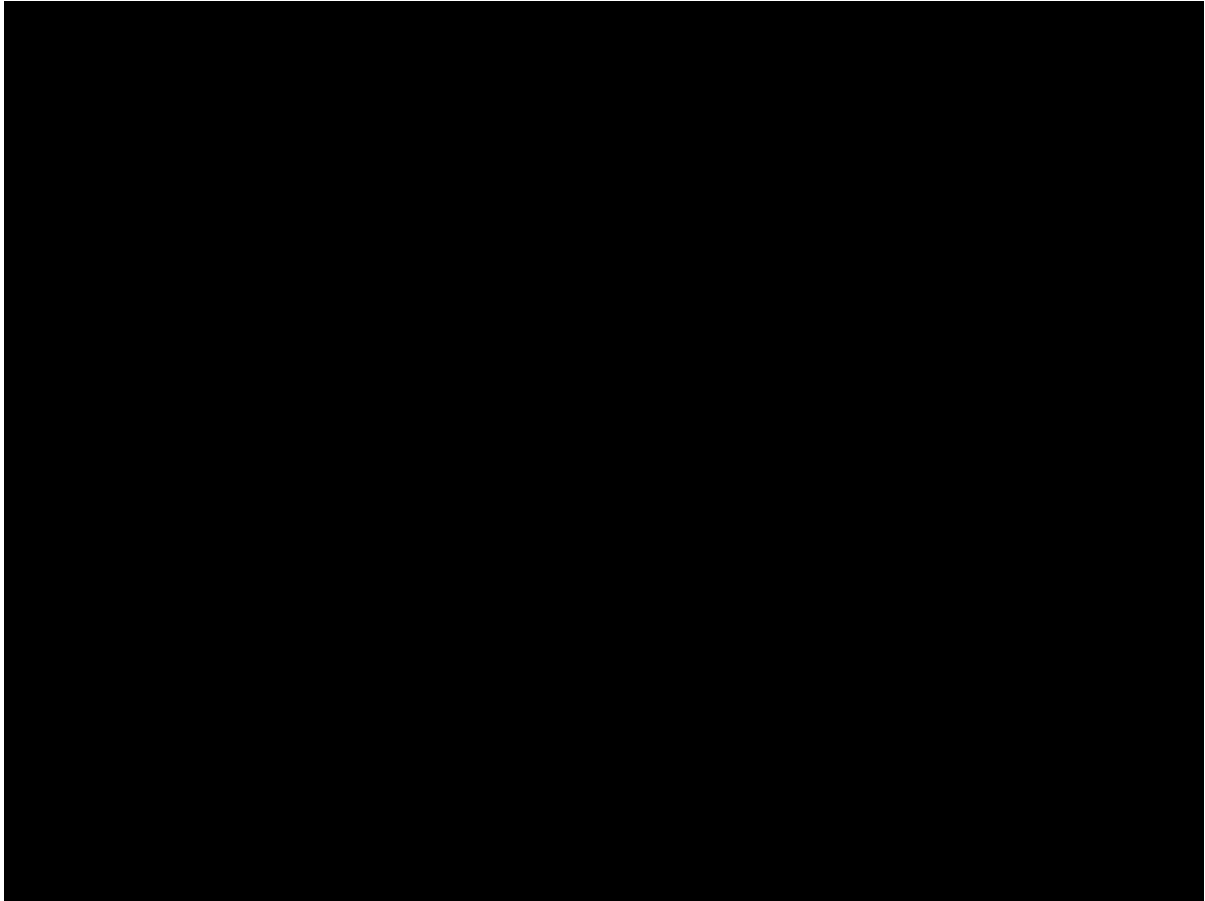




**What if we could fight
wildfires with sound??!!**

Yeah. Sound.









Economic Outline



We need \$1 million every year for 3 years. This will go towards testing the technology in New Mexico

Grant Sourcing: SBIR

SBIR is an American seed company that gives grants for federal research and development. ARSAC Technologies is already eligible.

Overseas Investments

ARSAC Technologies has already acquired funding from investors overseas who are interested in the commercialization of this technology for homes.

A photograph of a forest scene. Tall, slender trees with green needles (likely pines or firs) stand in the background. In the foreground and middle ground, there are trees with vibrant autumn foliage in shades of orange, yellow, and red. Sunlight filters through the canopy, creating a warm, golden glow on the forest floor, which is covered in fallen leaves and low-lying vegetation. The overall atmosphere is serene and natural.

**This
could
be our
future.**