REVOLUTIONIZING MARITIME PROPULSION

Investing in a Sustainable Future

Fluidity Marine

CURRENT PROPULSION TAINTS WATER QUALITY

SILENT POISON: TOXIC PLAGUE FROM FOSSIL FUEL ENGINES

UNSEEN CULPRITS: THE MENACE OF PROPELLER AND RUDDER DAMAGE

SONIC SABOTAGE: DISASTROUS IMPACTS OF NOISE POLLUTION ON MARINE LIFE



THE TOXIC FACTS

88%-92% OF MARINE OIL



All major **industrial oil spills combined** account for only about **8%-12%** of the oil introduced into waterways by human activity, while the vast majority comes from boating & other maritime sources.

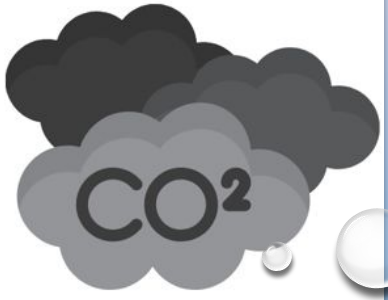
FUEL & CHEMICAL WASTE

The most common marine engines, two-stroke engines, emit approximately **25%-35%** of their fuel directly into the water during normal operations. The most expensive and efficient engines still emit 2%-3% of fuel and chemical additives directly from their exhaust.



CO2 POLLUTION

Maritime carbon dioxide (CO2) emissions, accounting for approximately **2.5-3% of global emissions**, surpass contributions from deforestation, which constitutes only 2.2% of overall emissions.

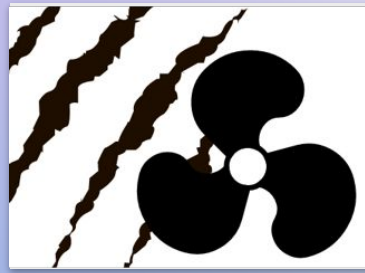


THE HIDDEN COSTS



FUEL INEFFICIENCY

The most fuel efficient boats range between **1-5 miles per gallon** (mpg). Larger vessels have rates as low as 0.07MPG. Fuel consumption associated with traditional marine propulsion systems are the highest of all industrial industries.

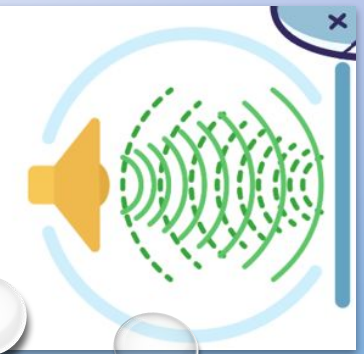


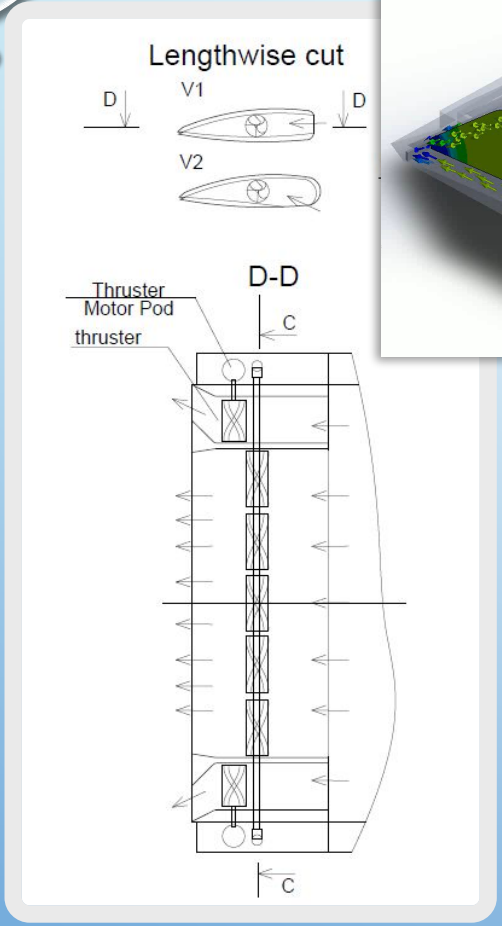
PROPELLOR DAMAGE

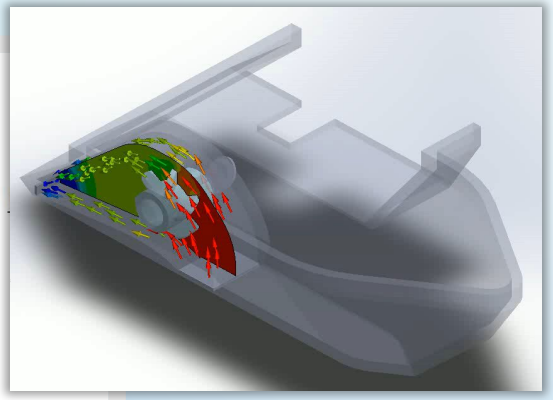
Propeller damage caused by traditional propulsion systems has led to the decimation and even **extinction** of certain marine species, contributing to **food-web collapse**.

SUBSURFACE NOISE

Underwater noise created by loud engines and propeller cavitation often heard over **100 Miles away** has a direct impact on animal immunology and habitat, disrupting natural behaviors and communication.







INTRODUCING TVC

NOVEL IMPELLERS: NEXT-LEVEL EFFICIENCY AND PERFORMANCE

- **UNPRECEDENTED THRUST GENERATION**

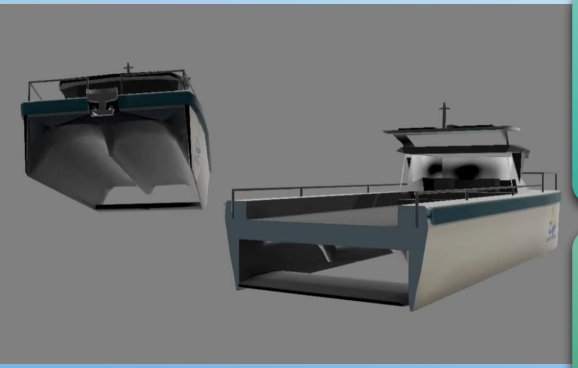
INNOVATIVE FLAT NOZZLES: HORIZONTAL DISTRIBUTION

- **UNMATCHED MANEUVERABILITY & STABILITY**

THRUST VECTOR STEERING : NO TRADITIONAL RUDDERS

- **THE FREEDOM OF EFFORTLESS MANUVERABILITY**

THE BENEFITS



Eliminate Pollution – Mitigate Impact

- Electric Motors Stop Environmental Damage
- Nearly Silent Operation Facilitates Marine Ecosystems
- Can Be Charged Via On-Board Renewable Energy

Modular Construction Fits Any Hull

- Can Easily Replace Any Existing Outboard Configuration
- Improve Maneuverability With Side-Thruster Options
- Hull Specific Customization For Maximum Performance

Sustainably Manufactured

- Produced Using Industrial 3D Printing Eliminates Waste
- Processes Powered by Renewables for Net Negative Impact
- Everything Made On-Site with Responsibly Sourced Materials

Cost Efficient Design for Everyday Boat Owners

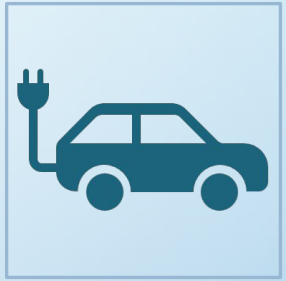
- Target MSRP below Equivalent HP Outboards
- Lower Total Cost of Ownership than Traditional Outboards
- Eliminate Fuel Costs and Minimize Maintenance

FUTURE GROWTH - MARKET POTENTIAL



Outboard Engines Market:
Over $10.5 Billion in 2022

- Projected to Sustain 5% Annual Growth
- Prime Opportunity to Pioneer Electric Market
  - Carve out Space by Creating the First Affordable EV for Recreational Mariners



We Do for Boats
What Tesla Did for Cars

- With a Much Larger Direct Ecological Impact

FOUNDER

AARON EVANS, CTO, INVENTOR & SCIENTIST

THE “MAD WIZARD”, HE BUILT HIS CAREER ON SEEING THINGS FROM NEW PERSPECTIVES TO FIND THE RIGHT SOLUTIONS FOR UNSOLVED PROBLEMS. HIS LATEST CREATIONS ARE SO CUTTING EDGE, IT MAKES CLIENTS WONDER HOW THEY MANAGED TO STUMBLE AROUND FOR SO LONG. A LIFELONG INTEREST IN SOCIAL GOOD HAS MADE HIM DEVOTE HIS TIME, ENERGY, AND INTERESTS TO IMPACTFUL SOLUTIONS.



FOUNDER CREDENTIALS

NOTABLE ACCOMPLISHMENTS & SPEAKING ENGAGEMENTS

Speaking Engagements: CES, NAB, Cable Labs, EMA, MESA, DEG, Dig Hollywood, UCLA Anderson
Co-Chair of Technical Working Group for DECE Ultraviolet (Digital Ent Content Ecosystem)
Principle Engineer on first IP streaming/download of Studio content
First Production Video CMS based on GraphQL
Pioneered Video distribution via CDN
Contributed to Blu-Ray Specification
Contributing Member of SMPTE

ASSOCIATIONS: STAFF POSITIONS

Principle E2E Architect NBC Universal Direct-to-Consumer - Peacock/Sky Media
Sr. Media Cloud Architect - AWS Professional Services - Media & Entertainment
Principle Engineer Sony Pictures Digital Authoring - Broadband Distribution
Founder Digital Revolution Enterprises - Media Technology Consulting
Director Engineering CinemaNow - Encoding & Content Distribution
Platform Architect - IBM Cloud Video/Watson Media
Microsoft Tech Support - Engineering

ASSOCIATIONS: CONTRACT & CONSULTING

Sony Pictures, Warner Bros, Verizon, Blizzard Entertainment, Technicolor, Intel, LionsGate, Akamai, Deluxe Digital, MediaNavi M-Go, Delivery Agent, Best Buy, Napster, Divx, Big Air Studios, Sonic Solutions, Encompass Digital, Sonic Foundry and others



ATTACHMENTS & ADVISORS



Gabriel Grünbaum,
Biz Dev & Management

With over 25 years in the media & entertainment technology space, he grew tired of seeing premium initiatives fail due to substandard vision — so he decided to make real change. Now he takes lessons learned and relationships established to make real and substantial impact for good.



Naval Architect

Two Naval Architects interested in joining team. One with Masters in Naval Architecture



Computational Fluid Dynamics Master and Robotics PHD.

Interested in joining project upon successful fundraising

WHAT WE NEED

Total Startup Expenses and Capitalization: $3,000,000

Capital Investments: $1,850,000

- Equipment and machinery for 3D printing and other manufacturing processes: $750,000
- Research and development expenses, including software and hardware as well as Snave impeller and nozzle optimization and testing: $500,000
- Facility build-out and renovations, including costs associated with creating a clean, environmentally controlled space for manufacturing: $400,000
- Acquisition and installation of specialized equipment for electronics assembly and testing: $200,000

Operating Expenses: $1,150,000

- Salaries and benefits for a team of approximately 8 employees, including naval architects, engineers, technicians, and administrative staff: $800,000
- Materials and supplies for production, including recycled marine plastics, steel wire, electronic components, and other necessary materials: $200,000
- Marketing and advertising expenses, including trade show attendance and digital marketing campaigns: $100,000
- Legal and regulatory expenses: $50,000

WHAT THAT GETS US

First Light Manufacturing Setup,
R&D Expenses for Optimizing Prototypes
& Capital Assets for Initial Location

Operating Expenses for 12 months

If Not Series A Ready by then:

- Additional $3M Seed Raise (or debt financing) gives us 18 more months
- Possibly Offset in Part by Revenue Generation

SEEKING SEED FUNDING VIA MFN SAFE

Via Wefunder Equity Crowdfunding or Bespoke Agreement

THANK YOU

CONTACT: AARON@FLUIDITYMARINE.COM