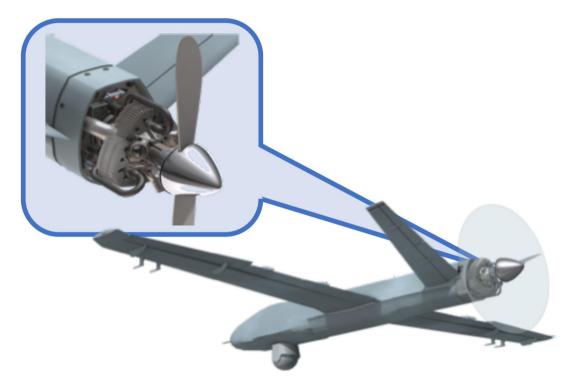


LiquidPiston Overview July, 2018



www.liquidpiston.com

Traction

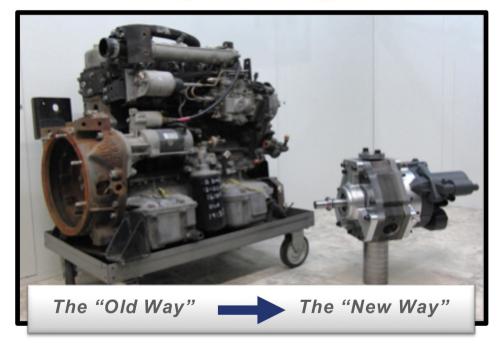






Company overview

"Dolby Labs" business model: LPI develops and licenses compact & efficient power solutions, based on a new thermodynamic cycle & rotary engine technology







Intro / Team





Dr. Alexander Shkolnik – Co-Founder & CEO

- PhD in Computer Science from MIT
- Technical focus on leading teams in modeling dynamic systems, optimization and controls



Dr. Nikolay Shkolnik – Co-Founder & CTO

- PhD in Physics from UConn
- Former Clean Energy Program Director, GEN3
- Motorola award for Creativity
- > 25 patents: engines, fuel cells, super caps, etc.
- TRIZ expert



Per Suneby, VP of Corporate Development

- MBA, Harvard; BASc Electrical Engineering, U. British Columbia
- Seasoned tech & clean tech startup executive
- NE Clean Energy Fellow

Independent Board Director

Dr. Tony Tether, Retired Director of DARPA: Oversaw \$25B while at DARPA.

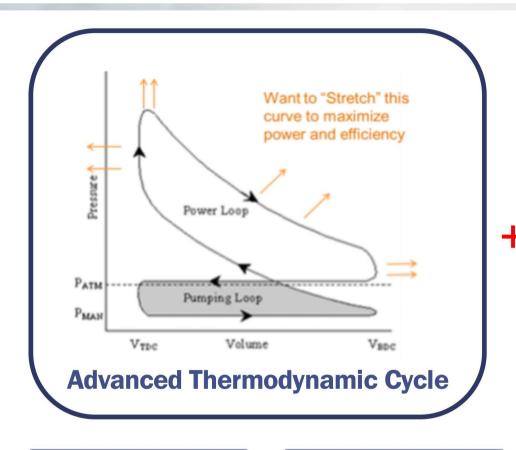
Team of 16 engineers;
Network of advisors and consultants

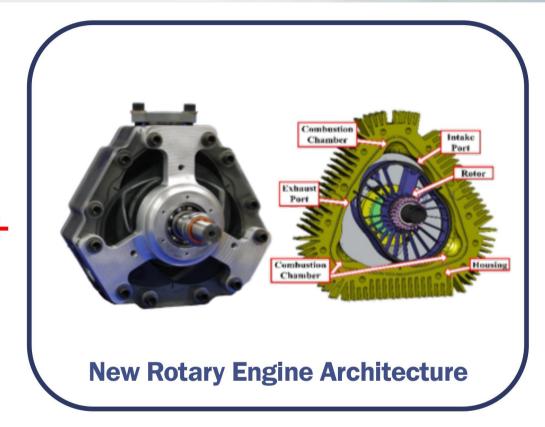


POWER & ENERGY are limiting today's vehicles {ground / sea / air}



Power Reimagined: Physics tells us – we can do better!





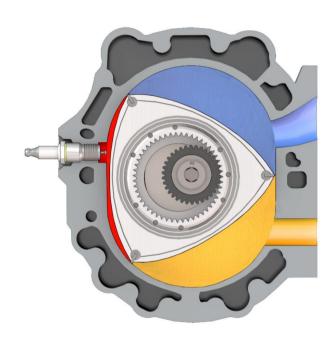
2x more efficient

2x quieter

10x smaller & lighter

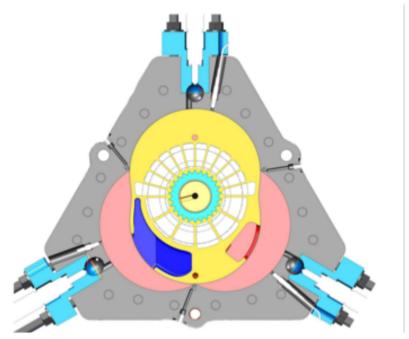
1000x less vibration

Technology: it's not a Wankel!



Wankel Engine

- Poor combustion (long flat chamber)
- Poor sealing (apex seal corners)Poor lubrication (seals hard to lube)
- → Bad efficiency, durability, lubrication, emissions...



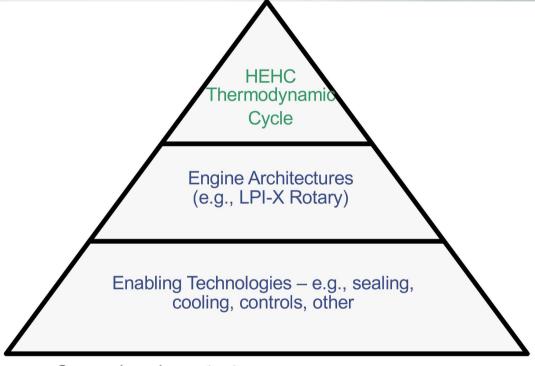
LPI Engine

- · High compression ratio
- Constant-volume combustion
- Over-expansion
- Direct lubrication of seals
- → efficient, durable, good emissions



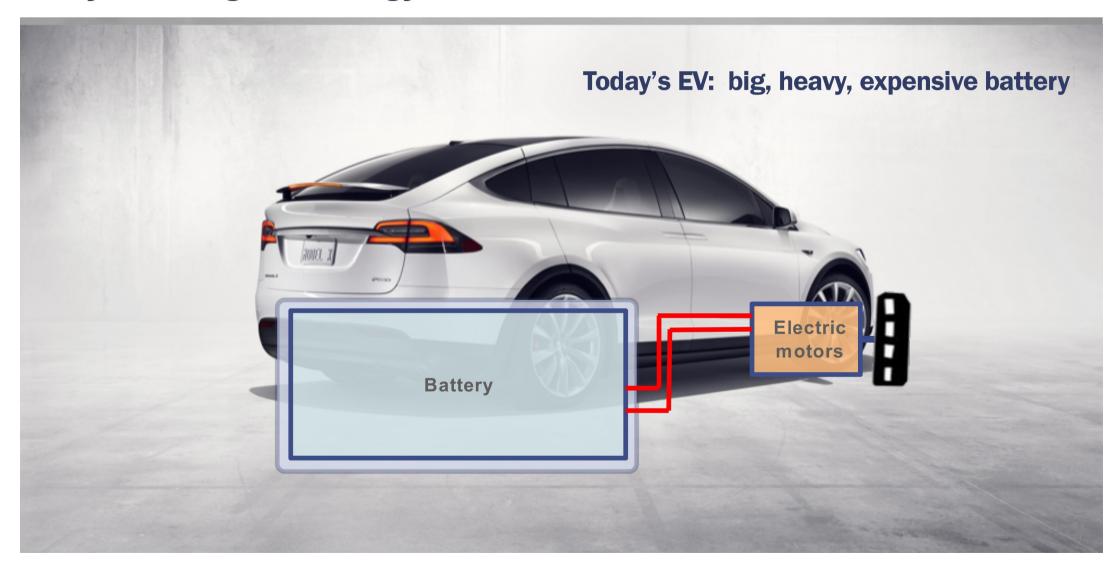
Extensive IP portfolio



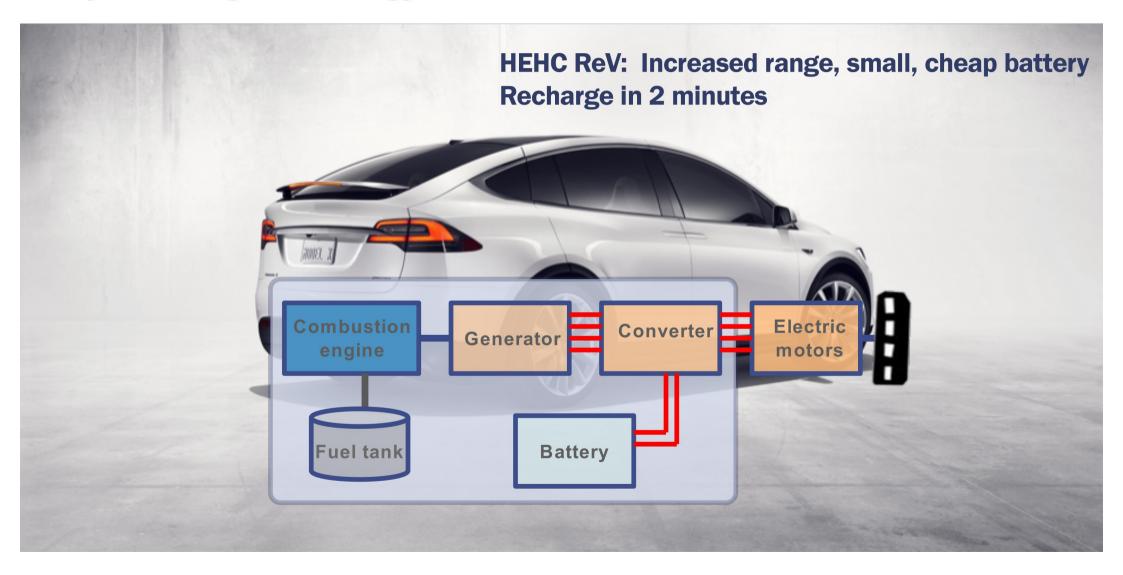


- Comprehensive patent coverage
- 45 patents issued / pending (worldwide/PCT)
- Defensible & extensible
- IP strategy supports licensing model

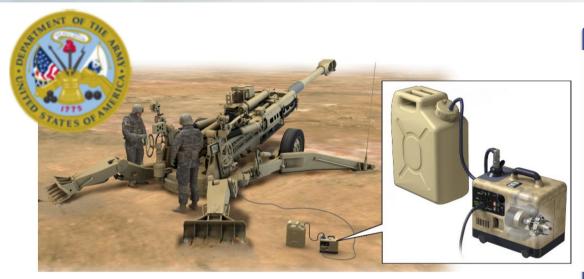
Key enabling technology for vehicle electrification



Key enabling technology for vehicle electrification



Traction with beachhead customer: U.S. DoD





\$9M in government contracts

Army: 2kw hybrid electric power supply for M777 Howitzer.

Partners:

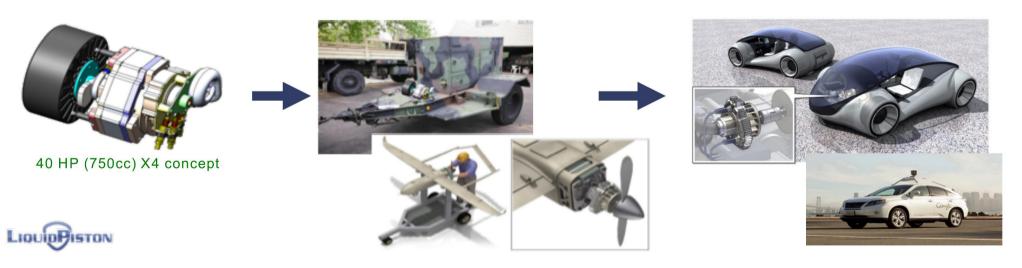


HDT Global

DARPA: 40 HP high efficiency compact heavy fuel X-engine development contract. For UAVs and/or generators.

LPI-X Engines: Two initial application pathways





"Dolby Labs" Business Model: Engineering and Licensing

EngineeringServices

- Engine design & testing for OEMs and mfg partners
- · Productization & industrialization engineering support
- Post-sales technical support

Government Contracts

- DoD, DoE engine and energy conversion technology development
- · System demonstration projects (propulsion, power gen., etc.)
- License/Royalties: Upfront & Recurring
- Technology, engine design, and manufacturing licenses
- LPI is global IP and learning "clearinghouse"

- Engine Product Sales
- Low volume pilot production or niche market supply
- Contract manufacturers managed by LPI



\$1M Wefunder raise – use of funds

- Technology and platform development endurance and other testing; initial next generation platform R&D
- Non-DoD funded expenditures for business development and commercial readiness – primary focus on signing 1-2 strategic partners (OEMs, engine manufacturers)
- Help extend company cash runway for \$10M Series A raise in the next 6 9 months



Summary

Game Changing

- New thermodynamic cycle, rotary engine
- Up to 2x more efficient, up to 10x smaller
- 45 patents issued / pending

Customer Traction

- Beachhead customer: U.S. DoD {Army, DARPA}
 - \$9M in R&D contracts, 2016-2019
- Collaborating with General Atomics, HDT
- Army to Field test 2kW generator Q1 2019
- Multiple partnering engagements underway

Ramp Up

- Leveraging 10 years of prior R&D
- Raising \$10M Series A next 6 9 months
- Business model: licensing, engineering services
- Multiple exits possible in 3-5 years





Power Reimagined

