electro-active technologies

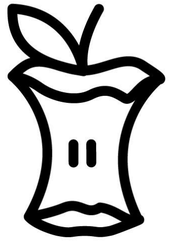
reinvest your waste.

“Renewable hydrogen is the missing link for a totally carbon-free world.”

- Isabelle Kocher, CEO Engiegroup

But how do we get there?

Problem



40% of food is wasted, costing cities and companies millions/year

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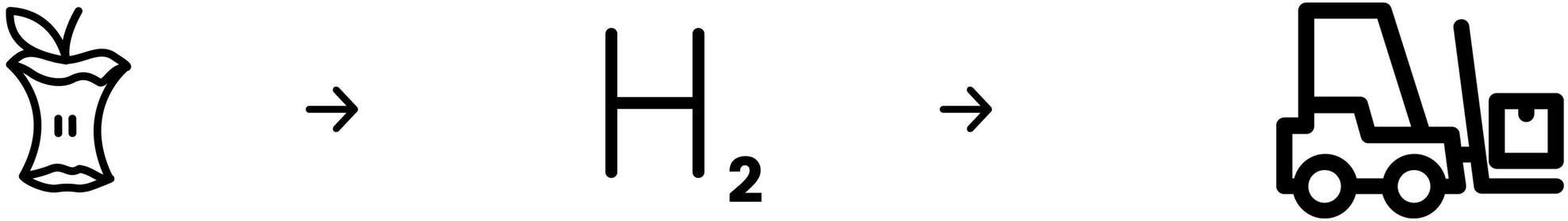
Hydrogen currently costs $6-12/kg

$$

Value Proposition

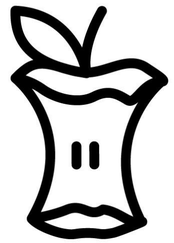
electro-active technologies

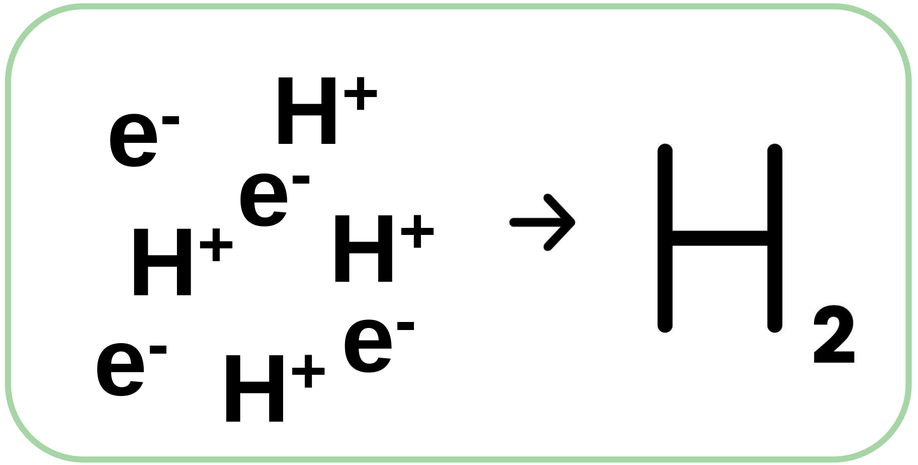


Electro-Active Technologies will use food waste to provide fuel cell forklift fleets with a >20% cheaper and more reliable supply of renewable hydrogen that will save $15k-$350k/yr (~2k/forklift), while creating a sustainable image for our customers

Technology

electro-active technologies





Waste input

Microbial electrolysis

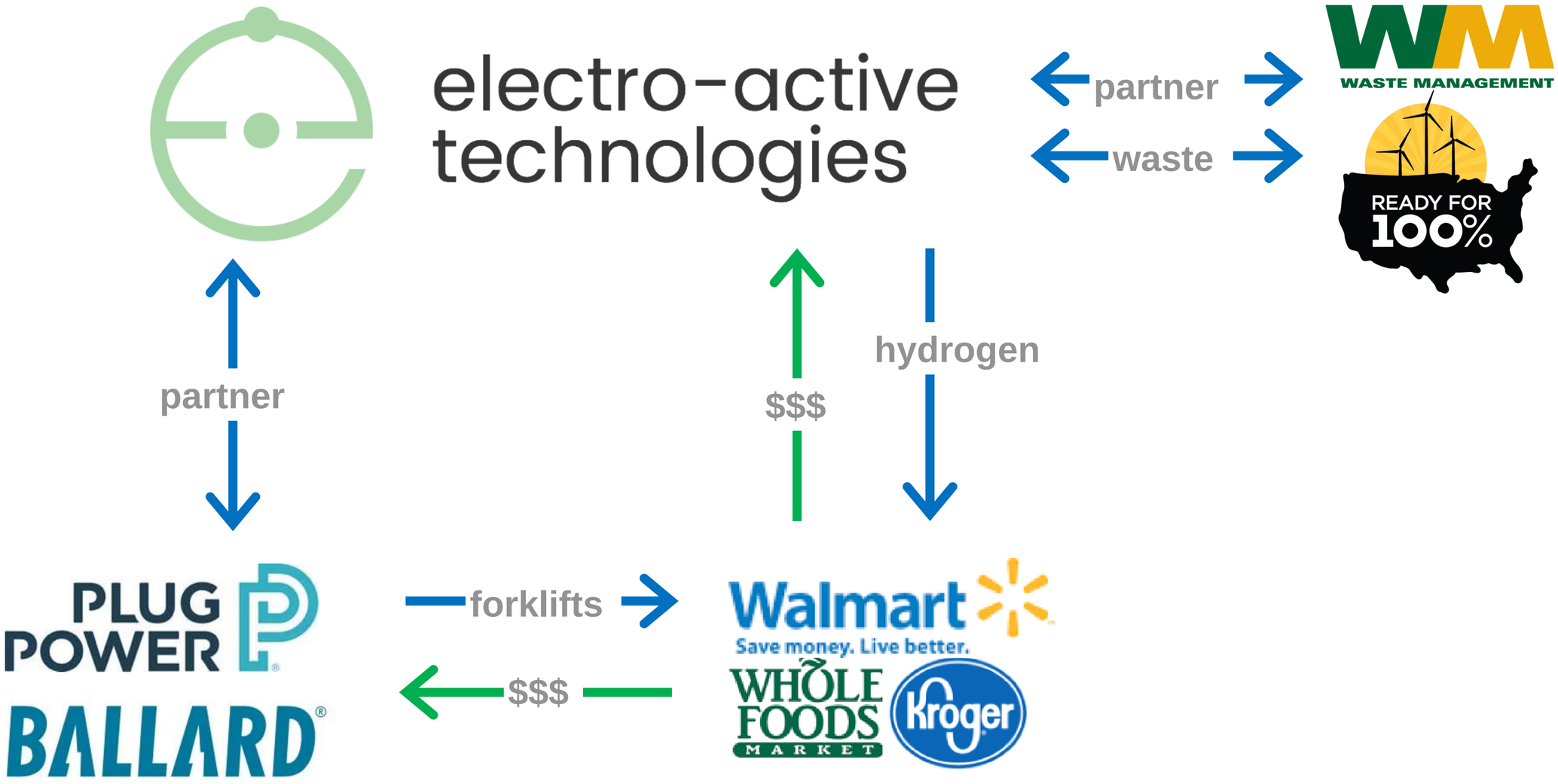
Fuel cell power

Cities/companies paying for waste offtake

Our process can reduce GHG emissions by 66% compared to natural gas derived hydrogen

= lower price and increased sustainability and reliability for small/distant users

Business Model



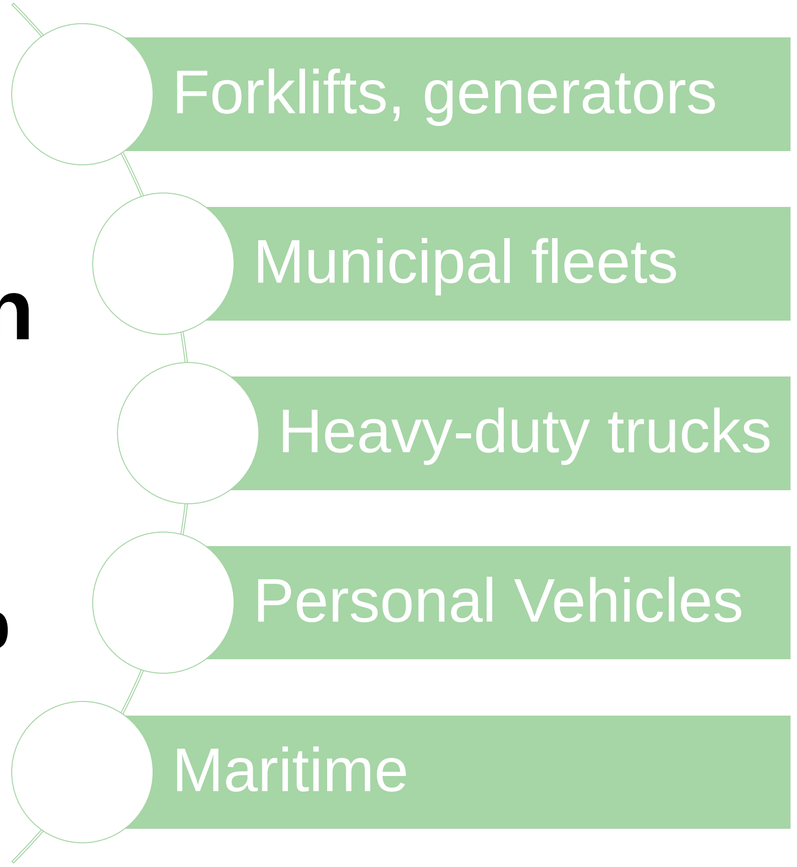
Competition

Hydrogen Source	Cost	Onsite	Waste management	Renewable
electro-active technologies	<$6/kg	✓	✓	✓
Natural Gas (central)	$6-12/kg	✗	✗	✗
Electrolysis (central)	>$10/kg	✗	✗	✓

Market Analysis

$3 - $13 Billion

CAGR of 28%



Near-term

Long-term

Limited by hydrogen availability/price

Team

Dr. Alex Lewis
CEO & Co-Founder

Dr. Abhijeet Borole
Co-Founder

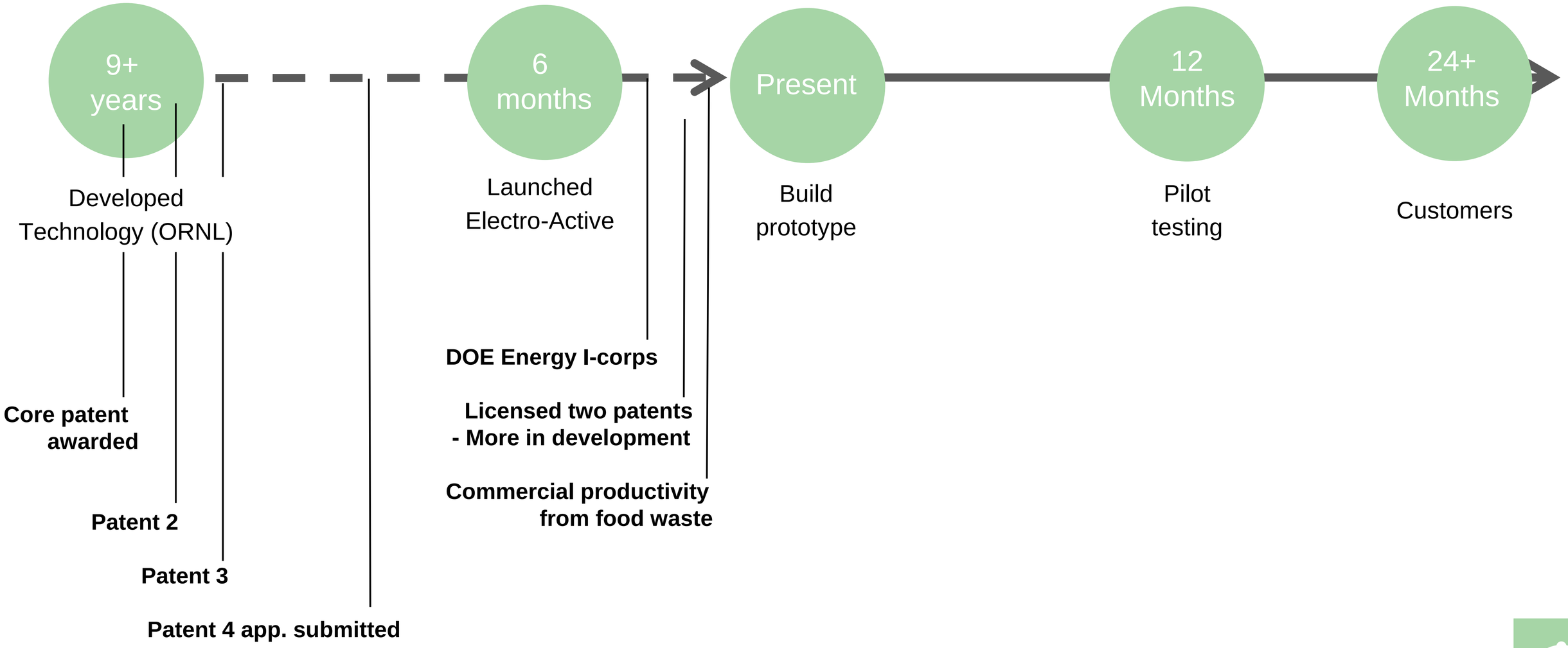
Pinakin Patel
Technology Advisor

Lynn Youngs
Finance Advisor

Jim Petrecky
(Formerly @Plug Power)

Industry Mentor
Energy I-Corps

Current Status + Timeline



Next Steps

Build Prototype

Build 1-L prototype

Demonstrate continuous performance with food waste

New Patent Applications

Submit 2 new applications, Document hydrogen productivity to advance IP position

Build Management Team

Business advisor, IP/legal advisor

Funding

Pursue Seed and Phase I funding from $50k-$200k

- Pursue funding from gov’t/state/foundation sponsors

Develop partnerships to build pilot partners/project team

Waste is the next gold

electro-active technologies

reinvest your waste.

electroactive.tech

alewis@electroactive.tech

aborole@electroactive.tech