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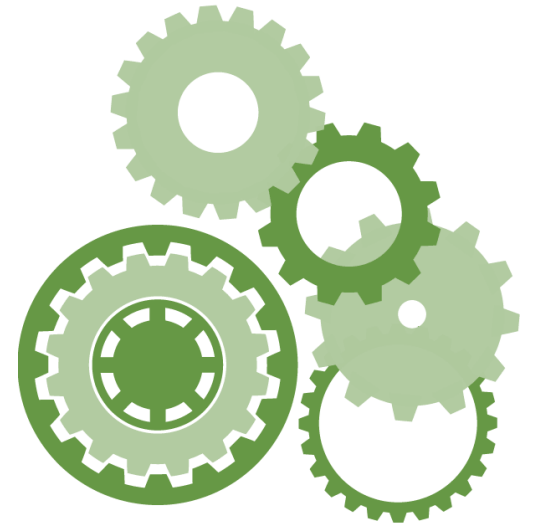
Current Activities and Next Steps

- **Current Activities**

- Build corporate capacity and product inventory
- Meet pro forma revenue targets
- Identify and negotiate manufacturing and distribution partnerships

- **Next Steps**

- Organic certification (2021)
- Additional patent protections (2021)
- Parts molds creation to lower per unit costs (2021)
- Software development to gain efficiencies (2021)
- Product improvements and product diversification (2021)
- FDA approval of sanitation and sterilization claims (2022)



Our Technology

Twenty Years in the Making

- Advanced Fertilizer Systems has exclusive patent licenses on liquid film plasma reactor designs
 - (U.S. Patents: 7,919,053 and 8,444,924, 9,861,950, 10,350,572, 10,556,817, 15/837,823, and 16/205,941)
- Our liquid film reactors create OH radicals formed by the dissociation of water by plasma generated within the chambers
 - Our OH radicals, can dissociate oxidizable materials and compounds in both liquid and gas phases
- This low pressure, non-thermal plasma technology has the unique value of being scalable, mobile, and simple to manufacture



Production plasma reactors

Ground-Breaking Solution

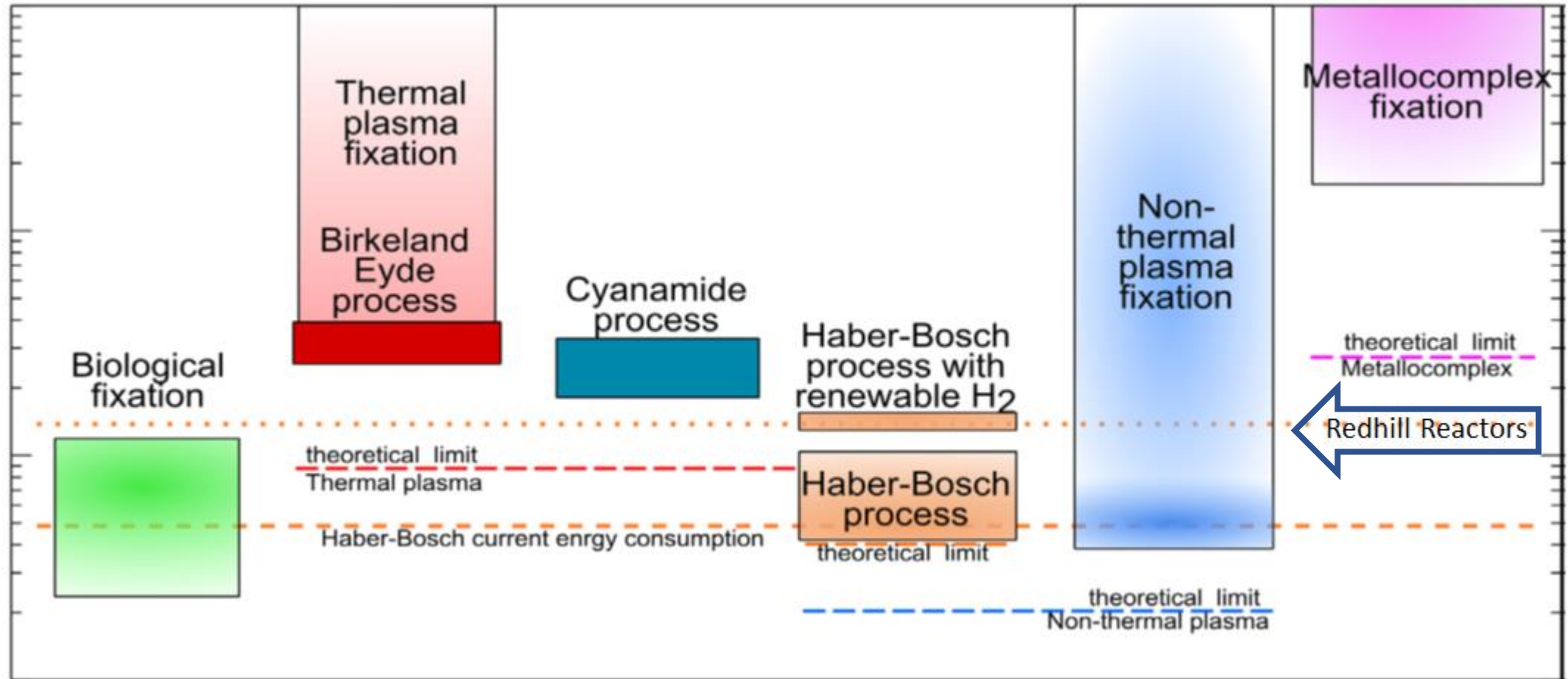
On-Site, On-Demand Fertilizer

- **Our devices generate liquid nitrogen fertilizer *on-site and on-demand* using only air, water, and electricity**
 - Engineered for direct application to plants via liquid spray
- **The variable recurring expense of nitrogen fertilizer will be transformed into a fixed one-time capital expense**
 - Money will stay in the hands of the farmers
- **Our plasma technology uses zero fossil fuels and has zero carbon releases**
 - Researchers have been searching for a replacement for the Haber-Bosch process for decades



TFR-5 Family

Nitrogen Fixation Comparison



- Reactor configuration, scalability, and simplicity are superior to competitors
- Our system has the lowest known energy budget for patented non-thermal plasma fixation, and can be lower than “sustainable” Haber-Bosch nitrogen fixation

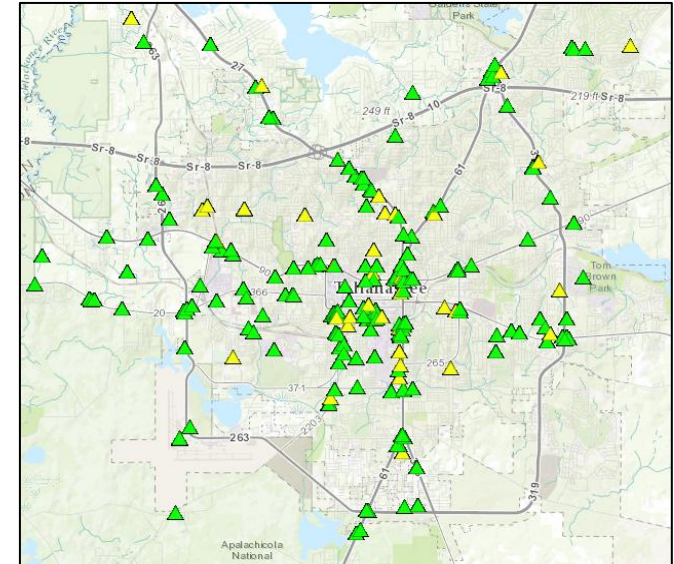
(Image Source: Elsevier Foundation <http://dx.doi.org/10.1016/j.cep.2015.02.004>)

Ground-Breaking Solution

Contaminant Degradation

- **We can degrade a variety of common pollutants into biodegradable compounds**
 - The high production rate and high efficiency of •OH
 - Treats both liquid and gas phases
 - Lower cost and higher effectiveness than many other existing remediation techniques
- **Our technology is scalable, and can potentially service cleanup efforts of many sizes**
 - Environmental remediation is a \$120 billion global market

Contaminated Tallahassee Sites

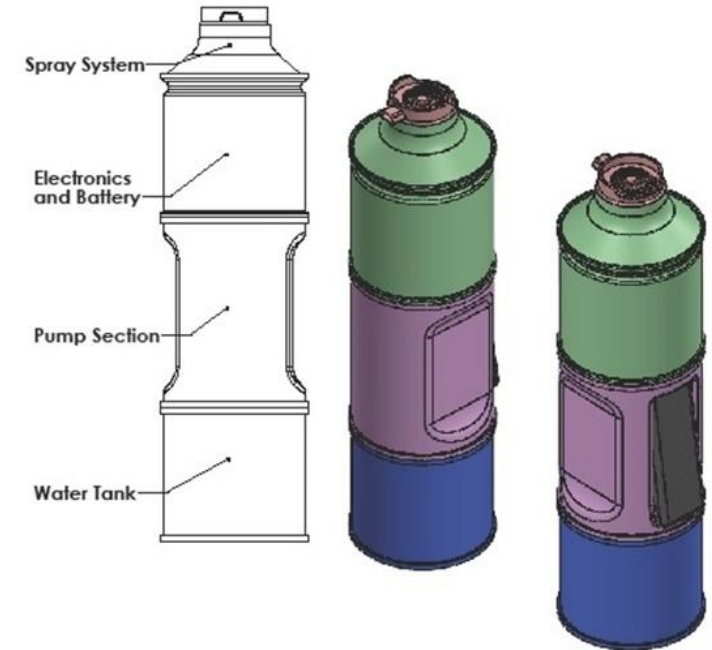


- Biologicals (proteins, amino acids, nucleic acids)
- Chlorine compounds (chlorocarbons and organochlorides)
- Phenols (epoxies and resins)
- Pharmaceuticals and personal care products (PPCP)s
- Endocrine disrupting compounds (ECD), hormones, phytoestrogens
- Trichloroethylene (TCE)s and Trichloroethane (TCA)s
- Benzene, kerosene, gasoline, Diesel, crude, and other hydrocarbons
- Perflorinated compounds (PFC)s
- Dry cleaning solvents tetrachloroethylene (perchloroethylene)

Ground-Breaking Solution

Effective on-site generation of antiseptic sprays and liquids

- **Our devices create highly oxidizing mists and liquids that sterilize and prevent infection**
 - Using just air, water, and electricity
- **The antiseptic mist is considered “green”. Leaves no toxic residue —degrading rapidly into water vapor**
 - Perfect for LEED buildings, medical facilities; aircraft, vehicles, and boats; public areas; restaurants; hotels, cruise ship cabins, and dormitories
- **The weight and accessibility of obtaining disinfecting liquids and equipment is reduced**
 - Custodial and medical personnel will better sustain sterilization and sanitation capabilities in austere, remote, or mobile environments 7



Core Team

Experts in Research and Product Development

- **Noel C. Munson, MBA – CEO**
 - Entrepreneur, technologist, and product development specialist
- **Robert J. Wandell, PhD – CRO**
 - Co-inventor, chemical engineer, and principal investigator
- **Bruce R. Locke, PhD – Technical Advisor**
 - Co-inventor and Associate Provost at Florida State University, Professor of Chemical and Biomedical Engineering, and Fulbright Scholar
- **Robinson Nunez- Director of Product Development**
 - Inventor and electro-mechanical engineer specializing in mechanical, electronics, software, and prototype development



Thank You!

At scale, this revolutionary technology could empower farmers, reduce dependency on petroleum-based fertilizers, clean up persistent organic wastes, and service the facilities and medical communities while offering investors the opportunity for significant financial returns.

Contact:

Noel Munson
CEO, Redhill Scientific, LLC
931 S. Semoran Blvd. Suite 204-C
Winter Park, FL 32792
321-710-7823 (o)
850-570-6934 (c)
noel@redhillscientific.com
www.redhillscientific.com