

Executive Summary

Atlantic Pacific Jade LLC (APJ) has the most advanced recirculating aquaculture system (RAS) technology and intellectual property (IP) in the world. We have constructed a pilot farm in Vero Beach FL that is a combination of an indoor *Controlled Environment Agriculture* (CEA) facility combined with outdoor production tank-ponds that practice near-zero discharge criteria (no water leaves the farm).



The APJ pilot farm is an integrated tilapia farm that provides full traceability from our in-house genetics program through all distribution channels: retail, food service and direct to consumer. APJ integrates genetics, production, processing, and marketing. Our APJ pilot farm uses 99% less water than conventional aquaculture and can capture all non-assimilated fish nutrients into compost and nutrient teas for off-farm sales. APJ will be producing 10,000 lb per month of food-size tilapia during 4th quarter 2022 and will implement additional production capacity to 250,000 lb/yr by end of 2022.

Market Opportunity. The USA is importing ~0.5 Billion lbs of tilapia fillets (1.5 Billion lbs whole fish equivalent) for the USA market. Currently there are no domestic producers addressing this market. Our model predictions indicate that using APJ's production technologies will result in a cost of production that is low enough to allow our partners to compete effectively against the imported Central and South American tilapia products. A licensed partner may also avail themselves of our brand label 'USA-Tilapia™' that differentiates the branded product as being: locally produced, traceable, and no use of hormones or antibiotics during any part of the growout procedure.

APJ Business Model. Atlantic Pacific Jade LLC (APJ) has six multiple income sources.

1. Fingerling and Food Fish Production.
2. Technology Sales and licensing fees.
3. Educational Sales.
4. Turtle Pump™ Royalties.
5. Consulting.
6. Direct to Consumer sales.

These revenue streams are derived from intellectual property ("IP") and the application of the IP to aquaculture operations, the sale of consulting services and aquaculture educational systems. The APJ technology includes APJ's patented¹ mixed cell raceway (MCR) technology and its **Splash Monitoring System**. The Splash™ monitoring and control system pro-actively manages fish health and performance prior to health or water quality challenges that can negatively affect fish performance. The MCR technology reduces CAPEX and simplifies operations.

¹ A provisional patent has been filed on the MCR and an additional application for the Splash Factor will be filed as a first step in protecting this IP; a license from is in process for past present and future efforts on this IP technology.

Chicken Broiler Integrator Model (future vision). APJ is seeking to license our technology package to allow producers to successfully enter the seafood production market. We will demonstrate a 4-tank outdoor production system (RAS based) with hoop plastic cover that can be used as a model for small farmers to participate in a chicken broiler integrator model. APJ could serve as the integrator (not planned in the current round).

Saudi Arabia Opportunity. APJ has inside advantage with the Kingdom of Saudi Arabia (KSA) via an existing project that Timmons is Principal Investigator for Al Mobdioon University. APJ expects to license or partner its technology to a private company in KSA.

Barriers to Entry. APJ has created significant barriers to entry by filing and/or securing several major intellectual property (IP) assets see Appendix B. Of key significance is our Splash™ Monitoring System software that is built around a machine learning algorithm that allows **proactive management** of a system instead of being reactive, minimizing serious problems before they occur. We expect this software to change the way fish are raised in CEA facilities, ponds, and open water culture systems such as net pens.

Team. Our Team is led by an experienced group of entrepreneurs (more than a \$1 billion of successful startups) and a young team of future leaders in the industry.

Investment. APJ is seeking \$250,000 in Phase 1 and \$520,000 in Phase 2 (demo pilot MCR system). Full financial reports are available upon request. Internal Rates of Return (IRR) on investment exceed 50%. Investments can be made as either Direct Equity, convertible debt, or licensing arrangement. Terms are negotiable.