



# Corporate Fact Sheet

April 2009

## THE COMPANY

**PAX Streamline** was founded in 2007 and spun off from parent company PAX Scientific in January 2008. The company's focus is high-efficiency HVAC and refrigeration products, and wind turbines. PAX Streamline also explores other potential markets for its technology, including aerospace applications.

## STREAMLINING PRINCIPLE

PAX's technology takes advantage of Jay Harman's discovery, the Streamlining Principle, to leverage efficiencies found in nature. These natural efficiencies can be used to overcome friction, reduce drag, and create a streamlined flow for industrial equipment such as wind and water turbines, propellers, heat sinks, fans, and mixers. The Streamlining Principle can also be applied to the surface profiles of objects that move through fluids, such as hulls and fuselages, and to thermal management applications.

## TECHNOLOGY DEVELOPMENT

PAX uses its unique methodologies and patented design geometries to design cost-efficient fluid-handling equipment that provides greater output, uses less energy, reduces noise, and minimizes cavitation damage to fluids and materials. This technology has the potential to improve product performance in dozens of industries.

PAX operates its own lab facilities and uses advanced CAD and CFD software for product design and simulation. PAX also has relationships with research and testing facilities, including Stanford, UC Davis, and Chico State University.

## HISTORY

After a career that included founding one of Australia's largest technology companies (ERG Australia Ltd.) and developing the WildThing and Goggleboat series of watercraft, Jay Harman began initial research in the 1980s on what would later be termed the PAX Streamlining Principle. In 1993, he lodged the first of several patents on rotor technology.

Harman and his business partner and wife, Francesca Bertone, incorporated PAX in 1997 under the name PAX Fluid Systems. The company has been based in Marin County, California, since 2002.

## FUNDING

PAX Streamline received lead funding from Khosla Ventures.

Parent company PAX Scientific initially received private funding, and now operates in the black. The company also received a three-year Advanced Technology Program (ATP) grant from the US Department of Commerce for mixer research.

## OTHER RELATED COMPANIES

PAX refers to a family of companies, including PAX Streamline, PAX Scientific, PAX Mixer, PAX Water, and PAX Fan. **PAX Scientific** was founded in 1997. The company's focus is core research on fluid handling in nature. **PAX Mixer** develops industrial mixing technologies. **PAX Water Technologies** commercializes technologies for water and wastewater management. **PAX Fan** markets designs in the industrial, domestic, computer, and automotive fan markets.

**INTELLECTUAL  
PROPERTY**

PAX holds numerous US and international patents and trademarks and continues to expand its patent and trademarking portfolio.

**LEADERSHIP**

John Webley, CEO, founded and held various executive positions at Advanced Fibre Communications, which grew to 300 employees and a market cap of \$6B. John then founded Turin Networks, which he built into a \$50M business with 250+ employees.

Jay Harman, Chief Inventor, has extensive experience in technology licensing and is the author of numerous patents. As founder and CEO of ERG Australia Ltd, he took the company to a highly successful IPO. Jay is also CEO of PAX Scientific and PAX Water Technologies.

Francesca Bertone, Chief Operating Officer, has 20 years of experience in operations, program administration, and education. She served as director of operations for Tank & Pipe Welding Pty Ltd in Australia.

Laura Bertone, Chief Financial Officer, has 18 years of experience in the banking industry. During her tenure as a corporate auditor with Bank of America, she managed the Global Capital Markets/Investment Banking Group, Retail Audit Group, and Development and Training Teams.

**CLIENTS**

Due to confidentiality agreements, PAX does not discuss its client relationships or the details of client projects.

**CONTACT**

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**COMMON  
MISTAKES OR  
MISCONCEPTIONS**

It's John Webley, not Webly.

It's Jay Harman, not Jay Harmon.

It's PAX Streamline (PAX in all caps—not Pax Streamline); the same format is used for all PAX companies.