Actasys is a development stage company commercializing a unique technology that solves critical problems across several industries. The lead application addresses problems experienced by optical sensors (cameras, Lidars, infrared cameras) that are exposed weather or harsh conditions. These sensors fail when contaminants such as rain or mud are on the sensor lens. These conditions make the sensors “blind”. Whatever system is dependent on the sensor - a vehicle, robot or security camera – cannot function, threatening the commercial potential and the safe operation of these systems.

Actasys solves these problems with air. Our technology, called ActaJet™, is an electronically controlled system of small actuator cartridges that generate strong jets of air, without the need for a compressor, pump or fan. ActaJet is compact, cost efficient, and effective.

Competitive solutions are liquid sprays or mechanical systems. Liquid systems are helpful for dirt, but ineffective when it comes to rain. ActaJet can clear rain and can be combined with a liquid spray, or provide its own, presenting a combination that addresses the widest range of environmental conditions. Mechanical systems, such as compressors or wipers, are too complex for commercial integration and are prone to failure. Comparatively, ActaJet technology is compact and not mechanical. ActaJet generates powerful air streams with a very robust, easy to integrate design.

Actasys is positioned as a leader in providing comprehensive sensor cleaning solutions that enable critical systems to operate. The lead commercial programs are for cleaning Lidar and cameras in the automotive sector for assisted driving (ADAS) systems. The Company is actively engaged in advanced development programs with leading automotive OEMs and Tier-1s. These programs are expected to reach high volume commercialization H2 2024. There are also development programs for security and traffic camera systems which will achieve initial commercialization in 2022. Actasys is a member of Drive TLV and PlugandPlay Mobility, which are both leading mobility accelerators.

Actasys operates with a licensing business model and works with customers throughout the design and integration process. The company can produce the ActaJet system at low volumes. For higher volumes it uses manufacturing partners to provide a supply chain for customers to access the actuator cartridges and electronics.

The addressable market for sensor cleaning is approximately $29B. The total market for sensor cleaning is $48B. ActaJet also has potential to be applied in other sectors for uses such as improvement in aerodynamics, improving the efficiency of wind turbines and turbomachinery, and cooling for electric vehicle battery packs and other electronic components. The total market including all of these potential applications is $138B.

Actasys has raised $4.75M to date, including a seed round in February 2020 led by Volvo Cars Tech Fund and NextGear Ventures. The company is a spin-out of Rennselaer Polytechnic Institute and is led by CEO Miles Flamenbaum and CTO Dr. David Menicovich. Actasys currently has 14 employees, is based in Brooklyn, NY, and is a member with NewLab in the Brooklyn Navy Yard.

Introduction to ActaJet Video
ActaJet Technology Overview Video
Actasys Company Overview Video

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