



PERSAPIEN

INNOVATION PER LIFE

# Our Founding Pillars

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# Founding Team

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**Debayan Saha**, Director Business, IIT Kharagpur , Healthcare Entrepreneur, GB Fellow Stanford University (L) and **Dr. Shashi Ranjan**, Director Technology, PhD. NUS Biomedical Science, Post Doc Fellow Stanford Biodesign (R)

PerSapien Innovations, a team of scientists, engineers, designers, and business professionals from Stanford, NUS Singapore, IITs and AIIMS.



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# PerSapien's voyage

Persapien  
Innovations was  
Born. - 2017

Invested by Gail  
India Ltd., A  
Maharatna PSU -  
2017

Partnered with  
Volvo to combat  
Air pollution -  
2018

Launched 2 new  
Patented  
products - 2019

Invented Activated  
Water Mist technology  
and developed product  
for use cases



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# The Problem



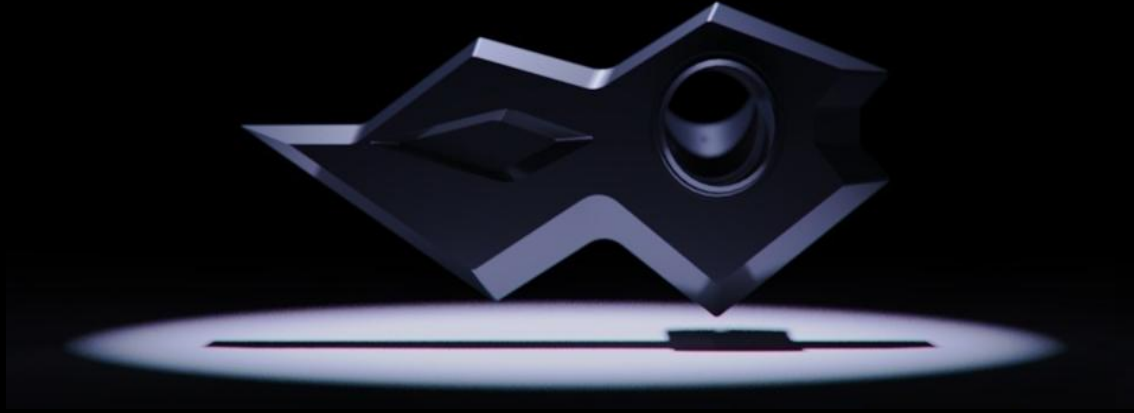
Air pollution is causing serious problem to our health and environment. Vehicular pollution is one of the major contributing factor. Moreover, people are exposed to high pollution while they are on roads inside a vehicle



Particulate Matter (PM<sub>2.5</sub>, PM<sub>10</sub>) are the major pollutant in India which causes respiratory as well as non-respiratory diseases such as heart attack



# Airlens Minus 2.5



- It uses a combination of electric energy and wave energy to influence the pollutants like PM 2.5, PM 10, etc. such that they act like magnet, attracting other particulate pollutants from the ambient atmosphere to get attached to it. As they grow bigger in size they become heavy and fall off safely on the ground like soil.
- One car on the street can potentially neutralize the pollution of 10 equivalent vehicles from its vicinity.
- <https://www.youtube.com/watch?v=MsvPDjo8fjl&t=227s>



- Brings the quality of air in car to WHO Standards in less than 2 minutes.
- .1/10<sup>th</sup> the cost of a car air purifier.
- Filters not only the dust particles, pollen grains, allergens, but also PM2.5 & PM10 particles.
- <https://www.youtube.com/watch?v=YBOcnp6\CM48t-1s>

# Strong Invention

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## Extensive Research

The invention is a result of research of past 5 years and background experience of founders in field of Microbiology and particulate separation



## Backed by Scientists

The scientific research is supported by scientists and advisors from top global institutes



## Strong IP

IP protected by patents filed and granted and trade secrets



## Cannot be Copied

Parametric design of the technology is done in such way that it is almost impossible to reverse engineer and produce it. The key design values are confidential and cannot be decoded easily.







# Business Model



Technology partnership with Indian and Global market leaders for large scale implementation and targeted B2B sales



Potential partners– Companies in Automotive and mobility sector



Revenue – Revenue tech transfer and royalty



# Our Impact and Achievements

- Previously funded by GAIL India and YES Bank Foundation
- Previous 2 products were successfully partnered with VOLVO, TVS Motors for commercial deployment
- More than half a million lives touched through our previous products



3

Patents



18

Awards



15+

Seminars



400+

Media & Press  
coverage's



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# Recent Coverage

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- Coverage by Forbes Magazine  
<https://www.forbesindia.com/article/innovation/innovation-during-covid19-tech-tonic-for-health-care-startups/64879/1>
- Coverage by Govt. of India-Vigyan Prasar (refer from 12:15 minutes in video for coverage on us)  
<https://www.indiascience.in/videos/science-for-a-self-reliant-india-coping-with-covid-19-part-2-e>
- Selected for highly prestigious “ Limca Books of Records” (to be featured in the upcoming edition)



# Our Supporters & Partners

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**PLUGANDPLAY JAPAN**

COLUMBIA  
GLOBAL  
CENTERS



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