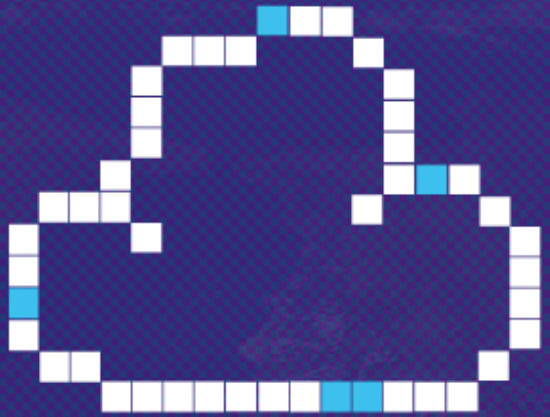

SMOGATHON

2018 finalists

Airlabs

Website:

www.airbubbl.com

About:

Airbubbl is the first product which is proven to solve this key exposure problem. It not only cleans air from all gases and particles, but delivers it effectively to driver and passengers, as well be easy to use and fit in with the car.

Ampaire

Website:

http://www.ampaire.com/

About:

Pound for pound, aircraft emissions are the most damaging contributor to global radiative forcing. Aircraft emissions at high altitude persist and trap heat much more effectively than a similar quantity of pollutants released at the ground level. While aviation emits only 2% of global GHG emissions by weight, the aviation sector is responsible for up to 10% of global transportation climate impacts. Electric aircraft is the solution. Ampaire will start by selling electric powertrains to convert existing planes to electric propulsion. Recurring revenue is generated by leasing batteries to operators. Later, Ampaire will develop a new aircraft optimized for electric propulsion.

Blue Sky Lab

Website:

www.blueskylab.cn

About:

ATMOBLUE's slogan of "Pure Air Everywhere" is no joke. The wearable air purifier ensures you are literally breathing a breath of fresh air everywhere you go. ATMOBLUE isn't really a mask - it's more of a smart respiration system. It has two fans, so it's basically a breathing machine that's able to deliver up to 88 liters of air a minute. It's enough to keep a positive pressure environment under most physical activity, which means it's really easy to breathe - like you're not actually wearing a 'mask'. You're wearing an air purifier that's able to deliver clean air to you.

Breeze Technologies

Website:

www.breeze-technologies.de

About:

Breeze Technologies delivers hyperlocal comprehensive and accurate air quality data from public and private data sources and low-cost sensors, as well as insights based on recent scientific studies and actionable recommendations from a growing, self-learning catalogue of more than 3.500 interventions. Breeze's additional citizen platform enables citizens to inform themselves about air quality in their neighbourhood and promotes more sustainable mobility and consumption behaviour.

CatiO2

Website:

www.catio2.cl

About:

The project is a transparent film adhered to any surface, which uses photocatalysis to degrade harmful pollutants in the air. Innovation is in the form of the product, since being a film is easier to use and install, and increases its efficiency.

Degrum

Website:

www.degrum.pl

About:

Degrum team have created a smog-free bus stop. People traveling by public transport spend every day at bus stops between 20 and 30 minutes. Standing inside our Green Bus Stop, they will be able to breathe air free from smog and pollution. The idea behind the start-up is to create a zone free of smog.

Eco Global Solutions, Inc.

Website:

www.egs-ic.com

About:

EGS BOOST R-3000 is designed to save fuel and to alleviate the levels of harmful emissions from combustion engines running on gasoline, diesel, and heavy fuel. It has been widely used in the sectors of transportation, marine, industrial manufacturing, construction, and agriculture. EGS BOOST R-3000 is an advanced multi-function treatment formulated for international market applications to reduce emissions and fuel consumption to meet various standards set by different countries.

Indrio Technologies

Website:

http://indriotech.com

About:

Nitrogen oxides (NOx) are common pollutants emitted from cars, trucks and buses, power plants, and other combustion-based devices. To counter this NOx production, industries are increasingly employing post-combustion NOx abatement strategies. Significant improvements in NOx emissions can be achieved through active control of these processes, which we are proposing through rapid in-situ high-temperature detection of NOx and ammonia to enable active ammonia/urea-based NOx control schemes. This technology has the potential to completely remove NOx emissions from combustion processes, primary contributor to smog production. The technology was developed at the high temperature gasdynamics laboratory at Stanford University.

Pi Green Tech Solutions

Website:

www.pigreentechsolutions.com

About:

Pi Green Tech has developed a proprietary Filterless technology to combat pollution caused by PM 2.5 and PM 10.

Smart Havens Africa

Website:

https://shafrica.org

About:

Smart Havens Africa employs Earth Building Technology to produce a green material without emitting greenhouse gases, and without the depletion of non-renewable resources. Compressed earth block Building technology (often referred to as ISSB - interlocking stabilized soil block provides a renewed, economically and socially as well as environmentally relevant response to building construction across all walks of life. This simple building material, made from a mixture of marrum (lateritic soil) with a small proportion of cement (usually between 5 – 10 % by volume) and compressed in a suitable mould under optimum moisture condition, has adequate capacity for adaptation to a broad spectrum of factors – physical, ecological, social, economic, and technical – which influence the production of the built environment.

SmogBusters

Website:

smogbusters

www.smogbusters.pl

About:

Our product is innovative way to turn airconditioners into air purifiers. It is few times cheaper than any other air purifiing technology, so everyone can afford it.

Takachar

Website:

http://www.takachar.com

About:

Most biomass (crop/forest residues) is difficult to utilize, because it is loose, wet, bulky, and expensive to transport in rural areas. Biomass is often burned, contributing to urban smog and forest fires. Imagine small-scale, low-cost, portable systems that are latched to tractors/shipping containers, and brought to rural areas to locally densify biomass into high-quality, clean fuel. This reduces logistical cost by ~50%, expands profitable biomass reuse, and reduces its smog contribution. Most existing biomass technologies are too large-scale and complicated for rural deployment. Our system, developed at MIT, has 2 pending patents and reduces the CapEx and deployment scale by 100 times compared to what is possible by our competitors.

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Find out more about

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