

Opportunities in times of crisis, linking Covid-19 solutions to our SDGs

The year where the world became aware of the most ordinary and common element on earth, also the most challenging: the air we breathe. Some people may not suspect it, our sustainable development goals and 2030 Climate Target Plan share a strong link with our indoor air quality. Today a global health crisis has urged us to go into overdrive. Creating healthy (virus-free) indoor environments is a mentality shift that will shape our future goals.

SDG 3: good health and well-being.

Target 3.9: By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination.

Indicator 3.9.1: Mortality rate attributed to household and ambient air pollution.

SDG 11: Sustainable Cities and Communities.

Target 11.6 Air quality in cities.

SDG 12: Responsible Consumption and Production.

The call for ambitious policy and better indoor air quality is gaining momentum, our sustainable goals and the IAQ are more than ever interlinked as the world is forced to act now, TAL is giving its long-term commitment towards biobased sustainable solutions, knowledge and standards. It's the vision of safe ecological limits and promoting good practices that make the bioeconomy the preferred partner. TakeAirLabs interlinks the land and marine ecosystems and the services they provide. Biological air treatments for indoor spaces with standards set out by the EU and the UN.

A we take action now in combatting a global pandemic, we have the momentum in contributing to our 2030 and 2050 sustainable goals.

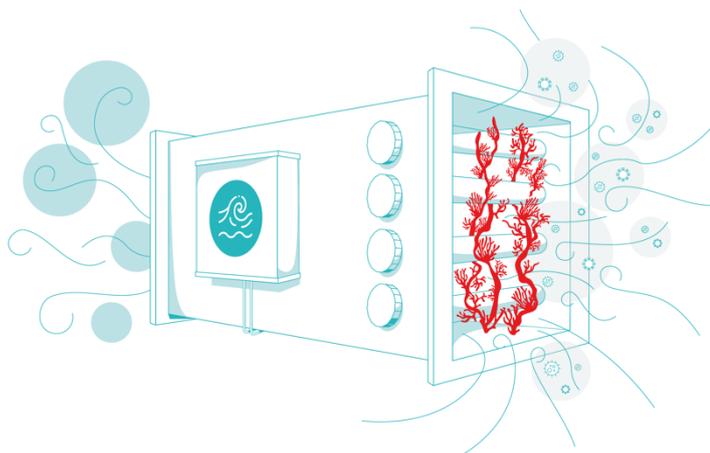
Air pollution has been linked with severe outbreaks of SARS and SARS-COV19 in cities throughout China, Italy and the United States. The accessory in these outbreaks is among us in the rooms and buildings we live and work. CO2 and PM2.5 levels are known of effecting a wide range of health issues and are in strong correlation with the quality of our indoor air. If we address these variables and physically remove airborne particles, we have a condition that is favourable. If we want an enhanced and healthy environment enabling good health and well-being, we need the help of our natural microbiomes.

Microbiomes houses in our air, but also our food supply, soil, water and air. And is a rising star in the bioeconomy of the world. But because of our limited knowledge and the deterioration of the natural microbiome a wide range of problems emerge. Drug-resistant super bacteria and auto-immune diseases are just a few examples. Due to increased pollution and excessive sanitizing of our environments, our indoor spaces deserve the same attention. A prolonged stay inside due to global lockdowns has deprived us access to healthy outdoor microbiomes that are abundant in nature. Weakening our immune systems further. Microbiomes are balanced and beneficial for human life. Our over excessive use of chemicals in trying to create sterile environments is failing in the light of our 2030 and 2050 goals.

HOW MICROBIOME TECHNOLOGIES COULD CONTRIBUTE TO SDGs



TAL already developed a system in delivering forest microbiomes in buildings. Bioremediation of indoor spaces has the potential of long-lasting benefits to the health of the occupant, reduce the burden on national health care systems and help in economic growth. Healthier indoor spaces help in combatting diseases such as asthma and allergies.



Key concept in helping our microbiomes getting better is targeted hygiene with the use of biobased solutions. This envisions a stronger core of truth and relevance to the world of tomorrow. As research is rapidly accelerating towards new insights and standards, a new frontier is opening for the global public. That is finding healthy air to breathe. Combatting air pollution in our indoor space makes the commitment to SDGs crystal clear. Being ahead of our goals sets the playing field and pushes us to seek new heights. As the world is seeking for long term solutions it is essential that we steer away from answers that require heavy polluted industries, aggressive chemical agents or technologies with adverse health effects.

Scientific evidence and standards in using microbiomes are growing each day. TAL goes beyond and is looking into innovative domains such as the blue bioeconomy. With our sea aeration technology, we rely on renewable, living aquatic resources such as algae. Providing a biodegradable and sustainable process, product and service in scrubbing airborne particles from ventilation practices.

“Algae provide an effective, sustainable, unlimited and almost entirely untapped resource for bio-based processes and products. Dense with energy and rich in nutrients, this natural product is ripe for exploitation by forward-thinking research organizations and commercial companies.” CORDIS EUROPE

Innovation in the blue bioeconomy today is centred around food, pharmaceutical and chemicals. With the use of red sea algae in scrubbing and inhibiting airborne particles from the ventilation system, TAL is the innovator kick-starting the blue bioeconomy in the building sector. Reducing our dependence on non-renewable, unsustainable resources. Our sea aeration technology offers a fully biodegradable solution with no chemicals or heavy industrial needs. Further contributing to the European Green Deal, we strengthen and highlight the importance of a sustainable, circular bioeconomy to achieve our common objectives.

Big data will help people determine which building or place they will be visiting. The visualization of our effort will help determine people if they want to visit a country, building or meeting room. Our world is evolving towards higher air quality standards for cities, buildings and even countries. Minimum requirements will set the stage for a battle for the cleanest and healthiest air, as ambitious policy will demand greater contributions. TAL meets serious challenges with ambitious solutions.