**STOP CORONA INFECTION**

This project will reduce the problems of the Corona Pandemic by reducing the risks of infection and preventing super-spreading events. The SARS-Cov2- virus (Covid-19 virus) causes infections with slight or severe symptoms and in many cases death. This illness has spread throughout the world as a pandemic with severe consequences for the health systems and old-people homes and with tremendous effects on social, cultural, education, commercial and industrial life.

It is well accepted that people outside of buildings, in fresh air, have low risk of Covid-19-infection due to some air breeze and due to prompt three-dimensional dilution of the aerosol concentration. Each breathing of an infected person is immediately dispersed so that the chance of reaching the critical concentration for infecting even neighbor persons is very small.

In this project the aerodynamic principle is applied to people assemblies inside buildings by application of **upward airflow**: Aerosol-virus particles are moved upwards, by specific ventilation, and then moved out of the room. Thus, the infection of neighbor students or people can be excluded if the other precautions like hand disinfection, distance of ~70cm and wearing masks are followed to prevent infections from droplets.

With **obligatory** upward airflow life can be normalized and schools, restaurants, fitness centers, concert- and sports-halls opened when personalized seats are organized which allow tracking in case of an infection.