



RESET Initiative

RESET Index for Airborne Infection Potential

The RESET Index for Airborne Infection Potential is a tool designed to help inform users of the potential risk of airborne virus transmission in indoor spaces. For its formulation, the Index leveraged a wide body of research, (100+ published and pre-printed research documents, digests, expert advisory committee posts, and rapid expert consultations). The research focused on viral transmission under specific environmental conditions, the effects of air quality parameters on the human immune system and information exploring the complexity of dosage; the quantity of viruses in a given space over time.

Further, the research was vetted for data relevant to air quality parameters that can be reliably detected and reported by continuous monitoring technology. Those air quality parameters included temperature, humidity, PM2.5 and CO2. As a result, the team at RESET has developed the following equation:

$$[\text{Airborne Infection Potential}] = \frac{[\text{Virus Survivability}] \cdot [\text{PM2.5 Impact}]}{[\text{Immune System Health}]} \cdot [\text{Dosage}]$$



The RESET Index for Airborne Infection Potential uses data from continuous monitoring in order to optimize the built environment by minimizing airborne infection potential.

The Index features projects that have monitoring systems in place, enabling them to showcase efforts towards creating healthier indoor environments.

Left: a sample design of the RESET Index Dashboard

Next Steps and how to Get Involved

The RESET Index for Airborne Infection Potential is part of the newly launched **RESET Initiative program**, a kickstarter-styled incentive created to further research key areas of human health and the environment to further expand and evolve the RESET Standards. By enlisting the help of a cross-section of industry experts, academics and professionals the final deliverable of the RESET Initiative team will be the RESET Index for Airborne Infection Potential tool, readily available to the public.

For more details, visit this webpage:

<https://reset.build/programs/initiatives/RESETVirallIndex>

To get involved, reach out to us via email at info@reset.build.