



Know Your Air,  
Protect Your Students,  
Increase Cognitive Performance

01

## INTRODUCTION

Why Dust, HEAT and CO2 matter?

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02

## BENEFITS OF AirGradient

How the system keeps your students healthy and benefits your school

03

## NEXT STEPS

How to get started!

AGENDA



01

# Introduction

Why Dust and CO2 matter?

Today, air pollution is the  
largest environmental risk factor.

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source: [https://www.who.int/phe/health\\_topics/en/](https://www.who.int/phe/health_topics/en/)

# Particles

“More than 90% of the world’s children breathe toxic air every day.”

—World Health Organisation, Oct. 2018

# Serious Health Impacts by Air Pollution for Children

**A child who is exposed to unsafe levels of pollution can face a lifetime of health impacts. Exposure in the womb or in early childhood can lead to:**



Stunted lung growth  
Reduced lung function  
Increased risk of developing asthma  
Acute lower respiratory infections



Impaired mental and motor development  
Behavioral disorders



Low birth weight  
Premature birth  
Infant mortality



Childhood cancers



Increased risk of heart disease, diabetes and stroke in adulthood

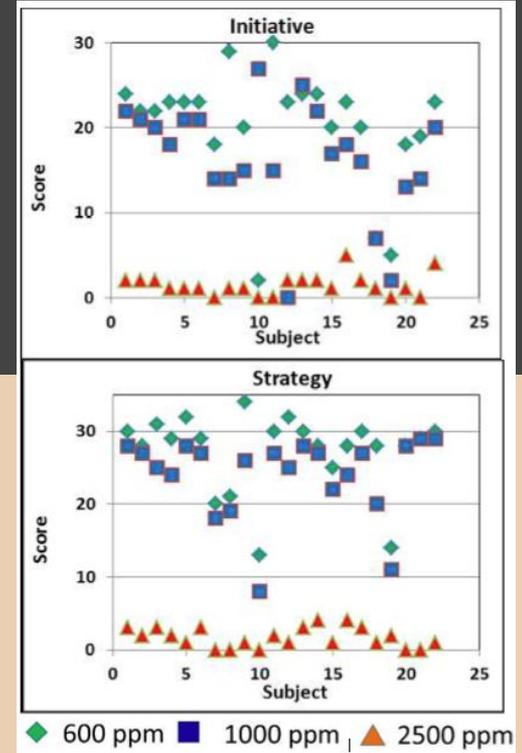
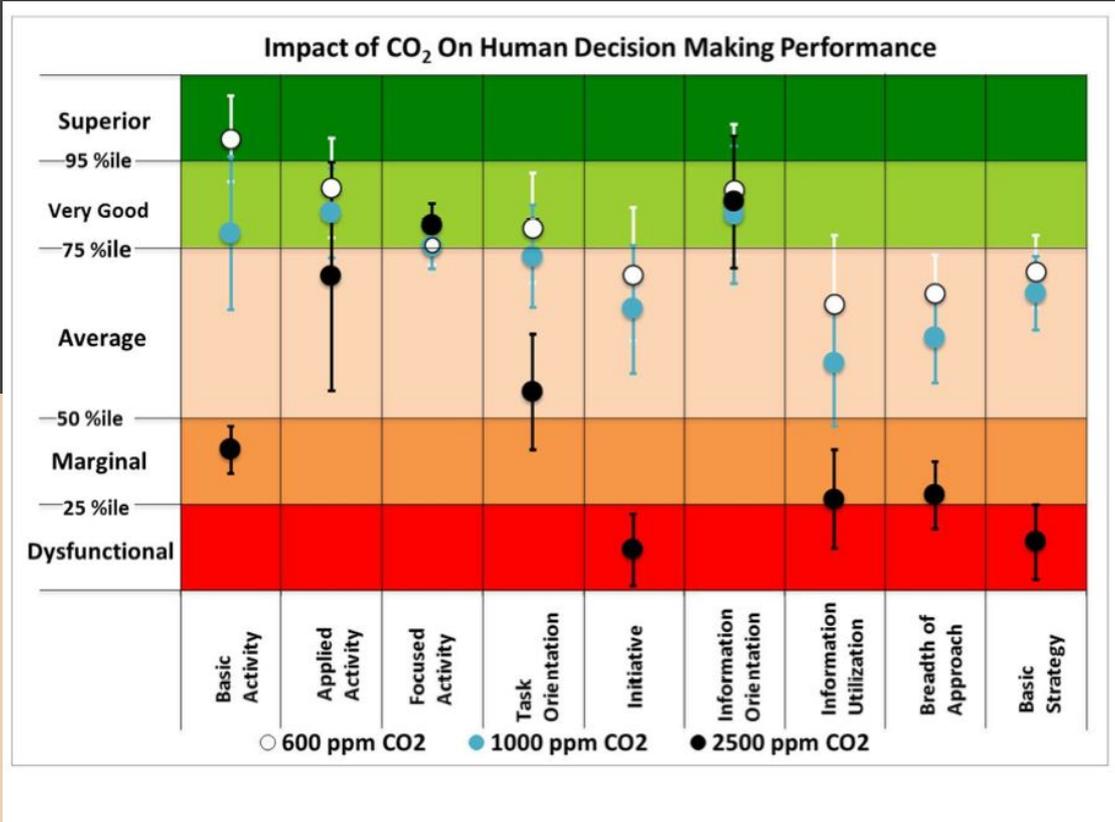


CO2

“CO2 that can be found in classrooms [...] have harmful effects on the body, including affecting cognitive performance”

—The Guardian, July 2019

# Impact of CO2 on Decision Making





02

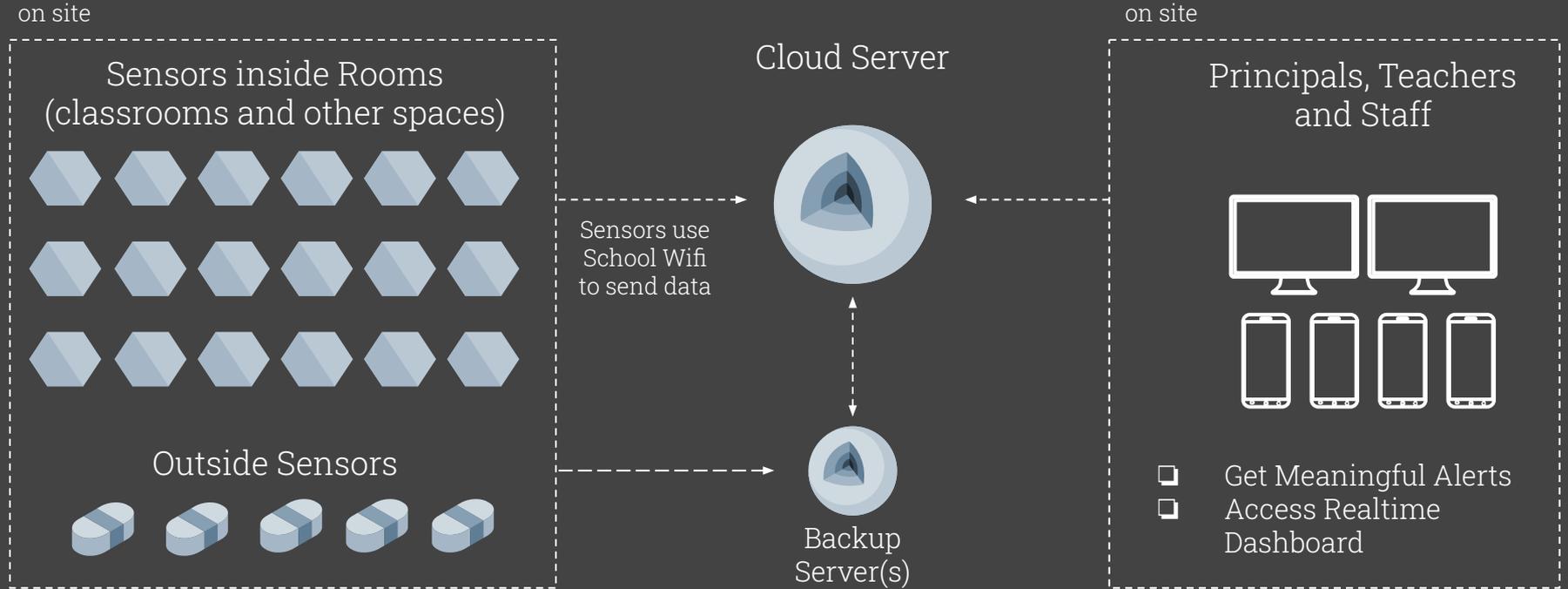
## Benefits of AirGradient

How the system keeps your students healthy and benefits your school

## AirGradient Sensor

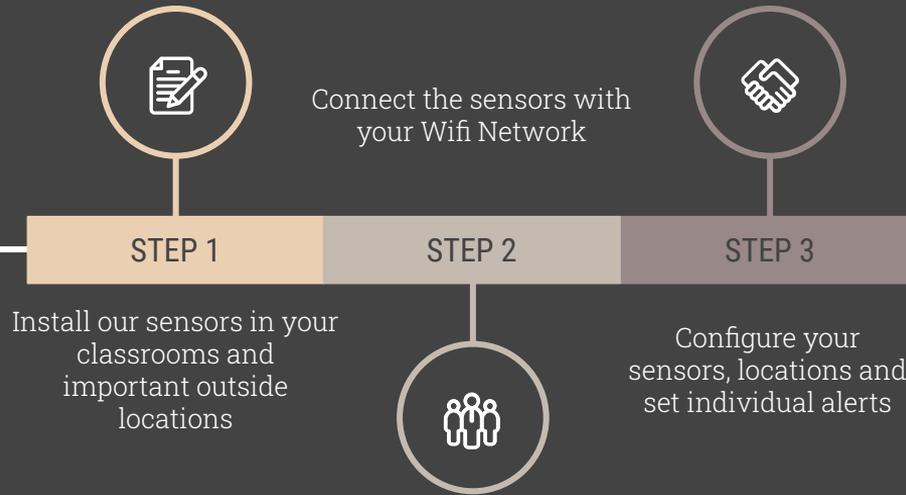


# Sensor Network



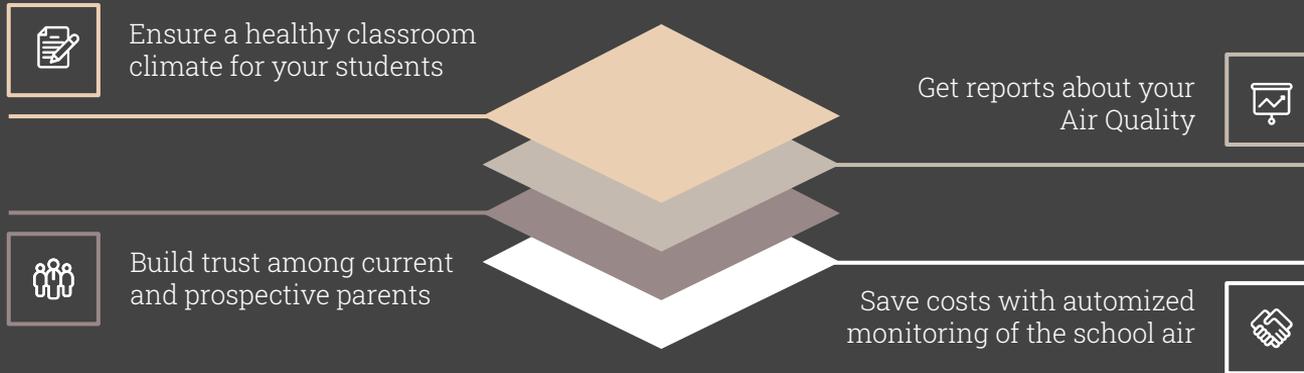
You only need to install the sensors, the central server is managed by AirGradient.

## THREE EASY STEPS TO KNOW YOUR AIR



No local installation required, service runs on our cloud server.

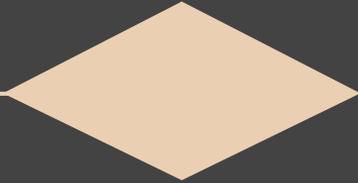
## FOUR LAYERS OF BENEFITS



# DYNAMIC MEASUREMENT



Ensure a healthy classroom climate



## MEANINGFUL INFORMATION

See all your outside locations and classrooms on an easy to use dashboard. Dashboard is mobile friendly and can be customized for each user to show the locations they are responsible for.

## COVERAGE

With the right placement of indoor and outdoor sensors, you can reach a high coverage of your school area and know the exact exposure at any time.

## ALERTS

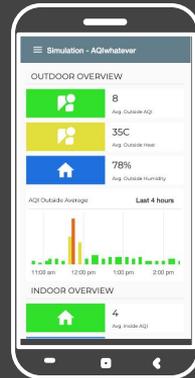
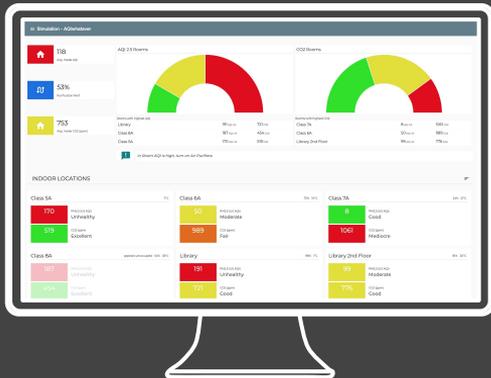
Teachers and staff get realtime alerts when the classroom air becomes bad and immediate action can be taken.

## RESULTS

A healthy classroom climate leads to increased cognitive performance, better test scores and long term health benefits.



*Outdoor Exercise shall be limited and moved to indoors as much as possible.*



# WE FOCUS ON THREE MEASURES YOU CAN INFLUENCE\*

\*You should also check your environment for other hazards like SO<sub>2</sub>, Formaldehyde and Ozone



## Particles

A high amount of small particles (PM<sub>2.5</sub>) pose a big health risk.



## CO<sub>2</sub>

High Carbon Dioxide values have a significant negative impact on students' cognitive performance



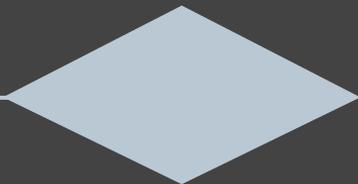
## Temperature and Humidity

Getting the right temperature and humidity inside the classrooms will ensure the students feel comfortable.

# MEANINGFUL REPORTS DESIGNED FOR ACTION



Get reports about your Air Quality



## **DAILY, WEEKLY, MONTHLY**

Get periodic reports about the inside and outside air quality at your school. Identify rooms with ongoing issues.

## **BENCHMARKS & COMPARISONS**

See the best and worst performing rooms. See the performance of your air purification system. Continuously improve your campus and decrease your students' exposure

## **EXPOSURE**

Get an estimate of your students exposure to bad air and comparisons to worldwide standards

## **RESULTS**

Meaningful reports makes it easy for you to identify weak areas in the air quality system and implement targeted improvements

# TRANSPARENCY & TRUST



Build trust among current and prospective parents



## TRUST

Build trust among parents by having a systematic school wide air quality monitoring system in place

## GROW

Attract more students and parents by being known for caring about excellent classroom air

## SHARE

Make your air quality data accessible to parents on your school website and through social media

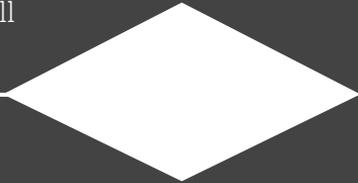
## RESULTS

Your commitment to clean classroom air will create peace of mind for parents and can be an additional growth driver for your school.

## COSTS & BENEFITS



Save resources by having full coverage of the school



### MONITORING SAVINGS

You do not need to have staff engaged with mobile air quality readings and recordings.

### NOTIFICATIONS

Relevant staff will be informed automatically with tailored notifications.

### ANALYTICS

No more manual analysis of air quality data spreadsheets. Get customised & meaningful periodic reports.

### EASY INSTALLATION

Only power and wifi required.

### RESULTS

By having a customised and automated air monitoring system in place you can improve the quality of your monitoring and save costs at the same time.

## WHAT MAKES US BETTER!?

- **AirGradient** is specifically **designed for schools**. We offer unique features tailored to schools
- **AirGradient** uses **industrial grade sensors** with high accuracy and **quality** and **precision** is at the heart of the product
- Founder team has **children in high polluted areas**
- We offer **educational material** for students and workshops so that students can learn how to build their own sensors

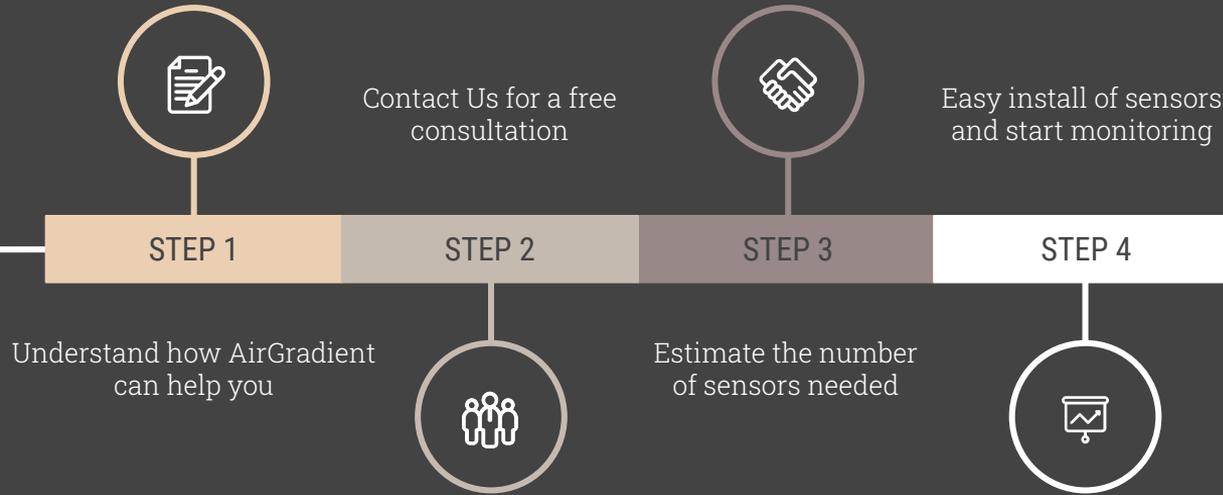


03

## Next Steps

How to get started!

## A TYPICAL IMPLEMENTATION TIMELINE





Contact us for more details:

[support@airgradient.com](mailto:support@airgradient.com)  
[airgradient.com](http://airgradient.com)

**THANKS!**