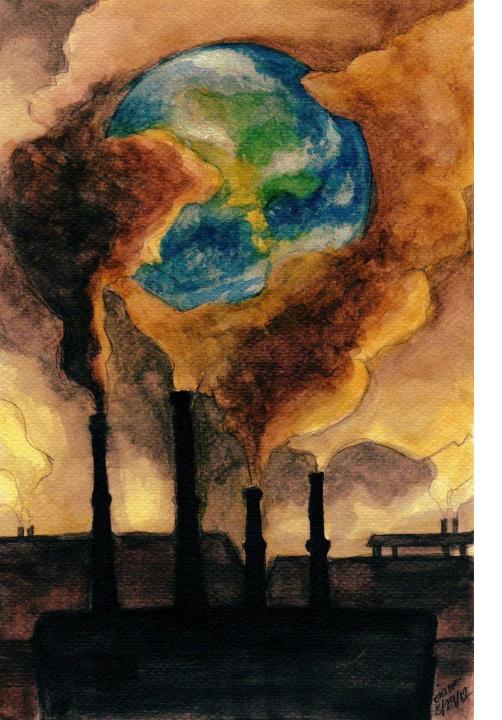


### NEW AIR FOR EARLY CHILDHOOD LIMA PROJECT

Ing. Kyara Mariel Díaz Carrasco



**4%** of mortality in Lima and Callao is caused by air pollution

Source: Copera Infancia, 2021



# This reality will not change by itself!

#### **New Air for Early Childhood Lima Project**

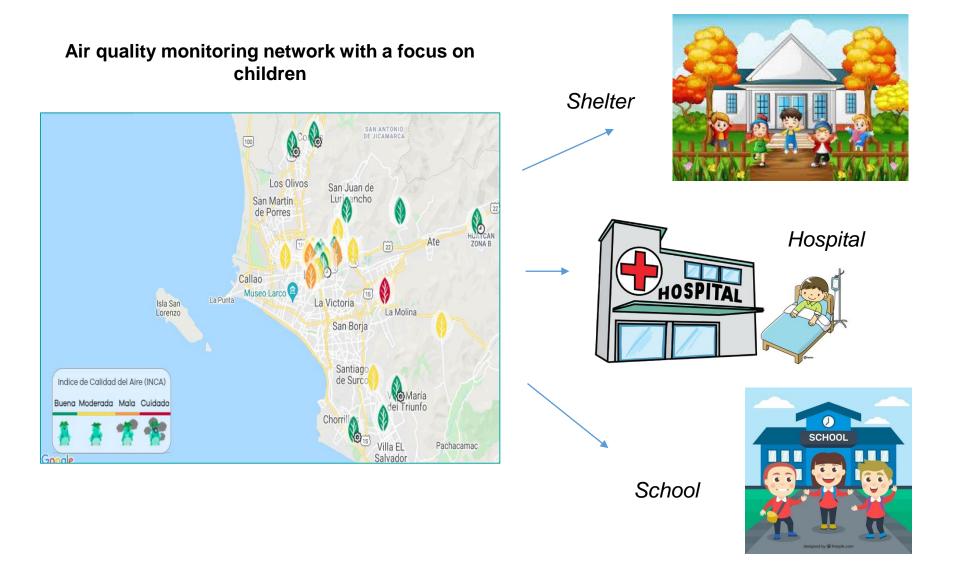
The Municipality of Lima seeks to implement an air quality monitoring network focused on early childhood with the objectives of:

PROMOTE VISIBILITY AND REDUCE EXPOSURE TO AIR POLLUTION OF EARLY CHILDHOOD during their first years of life





#### **New Air for Early Childhood Lima Project**

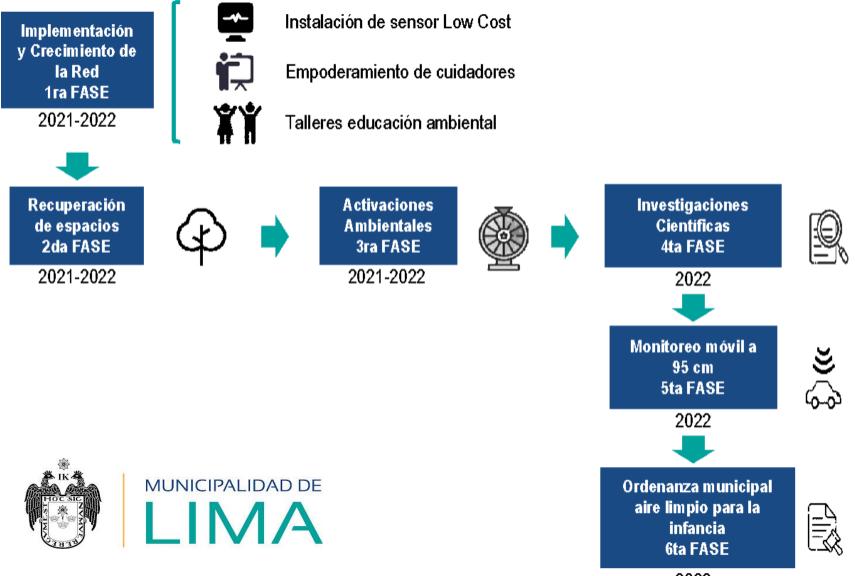


### Project phases





#### Phases of the New Air for Early Childhood Lima project



Phase 1 Implementation and growth of the Network

### Installation of **13 air quality sensors** in shelters, children's health centers and schools.



CAR Divino Niño (San Miguel)



Instituto Nacional de Salud del Niño (San Borja)



Casa Sinchi roca (Comas)



Institución Educativa Fe y Alegría N°04 (San Juan de Lurigancho)



Puericultorio Pérez Araníbar (Magdalena del Mar)



Centro Infantil Municipal las Mercedarias (Cercado de Lima)





Centro Municipal Lima Infancia (Cercado de Lima)



Albergue Frieda Heller (San Borja)



COMAIN Casa de los Petisos y Centro Infantil Municipal Villa María (Cercado de Lima)



Institución Educativa Fe y Alegría N°02 (San Martín de Porres)



Instituto Nacional de Salud del Niño (Breña)



Aldeas Infantiles SOS Pachacamac (Pachacamac)



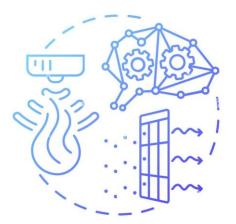


Colegio Fe y Alegría N°25 (San Juan de Lurigancho)

### The network has a coverage of

28%\*

\* Percentage at the district level of Metropolitan Lima



### 37%\*

From the air quality network has a childhood focus

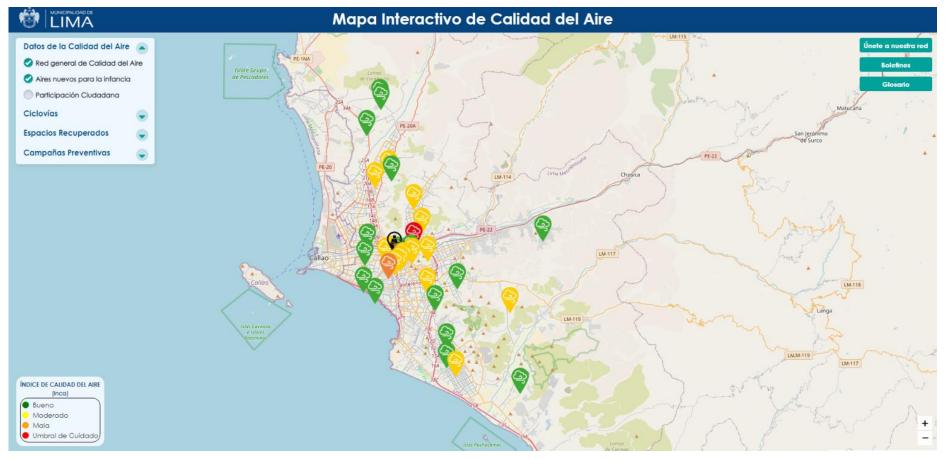
\* Out of a total of 35 air quality sensors





### Real-time air quality map displayed on the web or mobile





bit.ly/AireLima



### **Empowerment of teaching staff and caregivers**

#### Elaboration of the **Newsletter Red de Aires Nuevos para la** Infancia



Source: http://smia.munlima.gob.pe/documentos-publicacion/detalle/645

Determination of air quality and **periods of least pollution per hour and day.** This information will be useful in planning children's outdoor activities at times and days with less pollution.







#### Determination of time slots with less pollution

Average concentration of PM2.5

Perez Aranibar Child Care Center Values in ug/m3. Period: July 01 to 31, 2021.

#### Concentration of particulate matter by hour of the day and day of the week



### **Environmental Education Workshops to children**

### **21** environmental workshops on air quality



Workshops to raise awareness and involve children in caring for the air.



Execution of experiment "Captured Particles"



### Phase 2 Recovery of spaces

#### **1st INTERVENTION BASED ON SCIENCE**



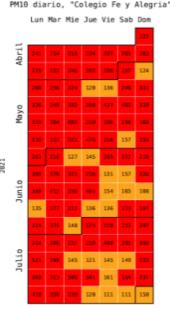
#### **OBJECTIVE**

Adapt a space in Los Olivos park that facilitates less exposure to polluted air and promotes the comprehensive development of children from 0 to 5 years of age hand in hand with their caregivers, under an ecopedagogical approach.

#### Fe y Alegría N°04 SJL

Exposure of boys and girls from the surroundings of Fe y Alegría N°4 school to highly polluted air.















81 m2 recovered facade

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#### 583 m2

of transformed space to avoid dust raising



Up to **45%** improvement in air quality







7 rest and play furniture

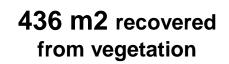














Phase 3 Environmental Activation for children

#### THE BIG GRAY BUBBLE

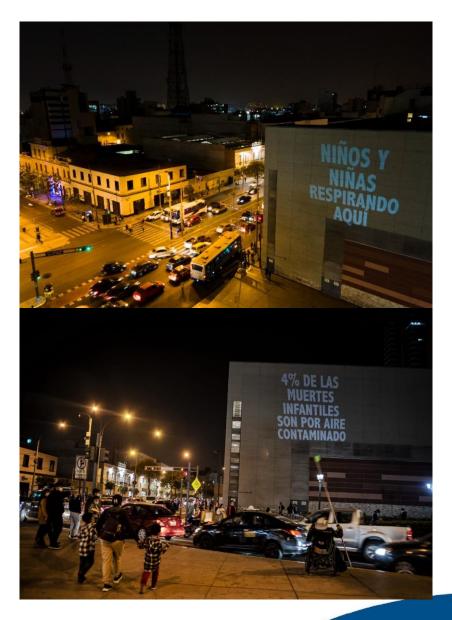
























#### "Given the many challenges children face, the air they breathe should not add to them"

Ing. Kyara Díaz Carrasco

kyara.diazc@gmail.com



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