

## CASE STUDY

### Air Quality and Health City Outlook

#### City: Asuncion

#### 1. Air Quality Management and Health Indicators

Indicator	Value	Units	Reference
Annual mean concentration of fine particulate matter (PM <sub>2.5</sub> ) in urban areas (µg/m <sup>3</sup> ). Year: 2019	*	µg/m <sup>3</sup>	Not available
Annual mean concentration of particulate matter (PM <sub>10</sub> ) in urban areas (µg/m <sup>3</sup> ). Year: 2019	*	µg/m <sup>3</sup>	Not available
Total number of air quality monitoring stations	1	Units	Ministry of the Environment and Sustainable Development
Number of fine particulate matter (PM <sub>2.5</sub> ) monitoring stations	1	Units	
Number of particulate matter (PM <sub>10</sub> ) monitoring stations	1	Units	
Emissions Inventories Year 2018	No	NA	There is no inventory of air quality emissions.
Regulatory Framework Based on WHO Guidelines	Yes	NA	Law 5211/14 Decree 1269/19
Health Sector Involvement on AQ Management	Yes	NA	
Total Population	520,917	inhabitants	INE National Institute of Statistics Surveys and Census
Urban Population	Not Available	inhabitants	
Rural Population	Not Available	inhabitants	
Population over 25 years	390,688	inhabitants	Calculated

Indicator	Value	Units	Reference
Natural mortality excludes accidental A00 R99	204	deaths	Estimated in this project
Ischemic heart disease mortality I20-I25 IHD	41	deaths	
Mortality due to cerebrovascular disease I60-I69	174	deaths	
Mortality due to Chronic Obstructive Pulmonary Disease COPD J40-J44, J47	26	deaths	
Lung Cancer Mortality C30-C39	15	deaths	

- The Ministry of the Environment and Sustainable Development has an air quality monitoring team, but we still do not have the processing of the results measured in the year.

## 2. Advances in Air Quality Management

- 1st Air Quality monitoring station installed in 2021
- 1st Installation of an air quality sensor.

## 3. Main Challenges and Opportunities

- The need to have trained human resources for air quality management.
- The need for financial resources for air quality management.

#### 4. Key Actors to Potentiate Air Quality Management

- Ministry of Environment and Sustainable Development.
- Ministry of Public Health and Social Welfare.
- Local governments Municipalities.

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