

Modernizing Cities via Smart Garden Alleys with Application in Makassar City

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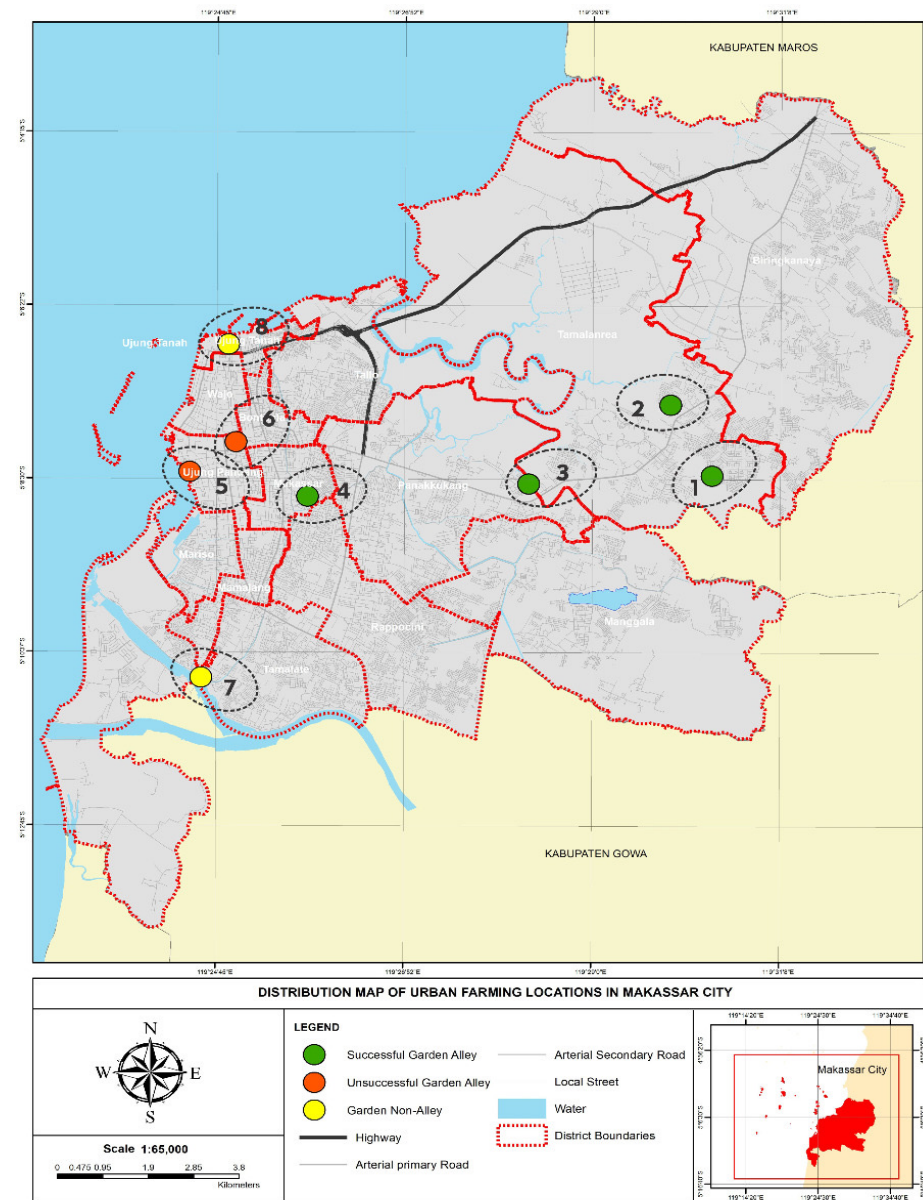
Primary Project Goal:

Transform the garden alleys of Makassar City, Indonesia into smart environments to improve the quality of life of residents and visitors and to enable the offering of new services



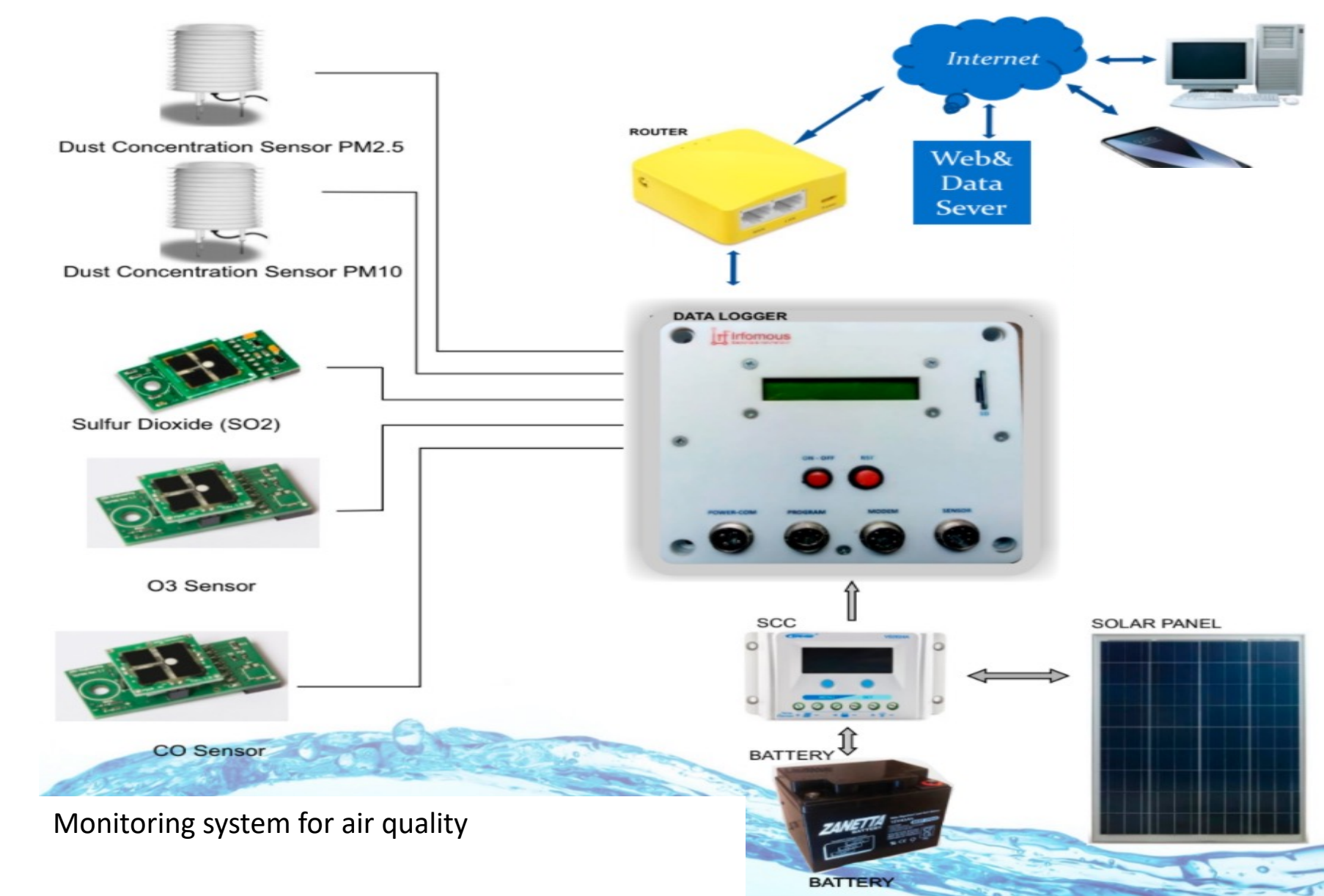
Intellectual Merits

- Assessment of real-world smart urban gardens in Makassar City, Indonesia
- Deployment of smart sensor networks to monitor urban gardens
- Machine learning frameworks to analyze the data and make recommendations to the city on how to operate the smart gardens

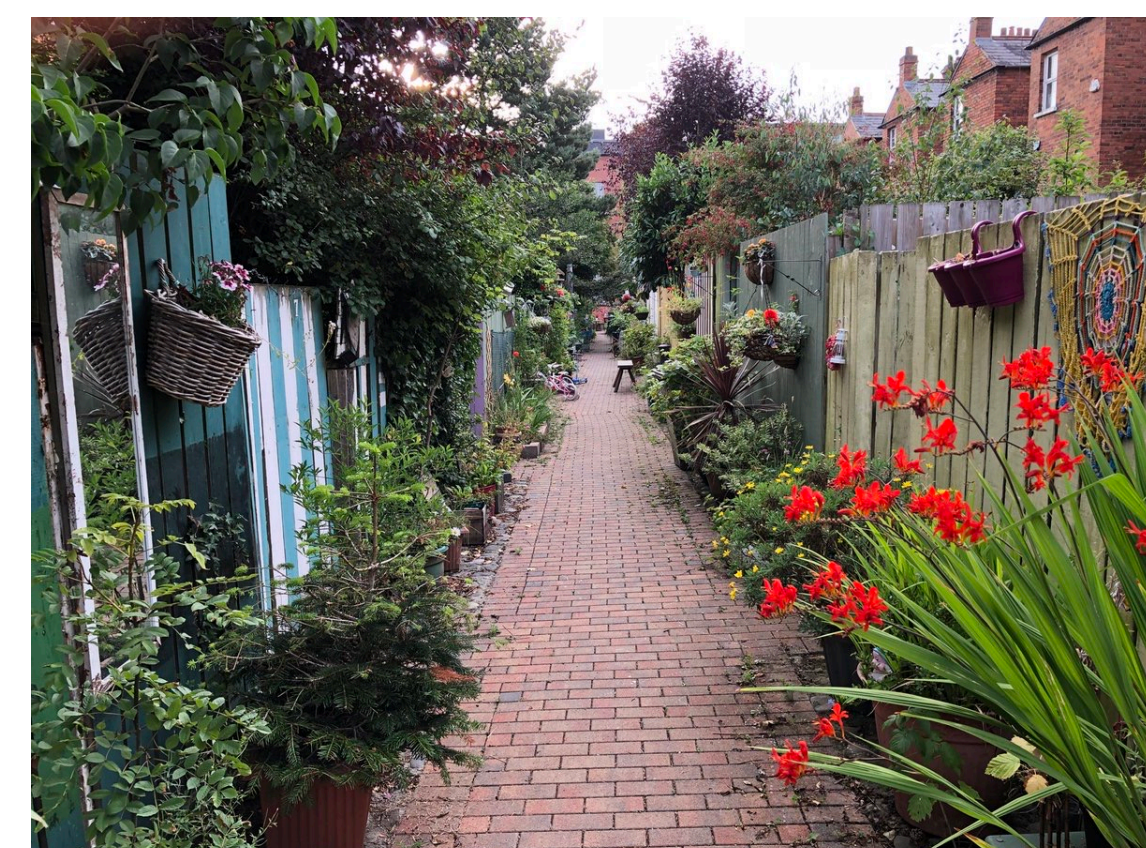


Project activities

- Design of sensor network, with the goal of monitoring various parameters (temperature, humidity)
- We assessed several garden alleys and found discrepancy in the quality/success



The project will contribute to advancing the “Garden Alleys” project of Makassar



Key sustainable outcomes

- Enhance the economic revenues from the smart garden alleys through increased visitor
- Improve agriculture/crops within the smart garden alleys
- Decision making framework for city

Key next steps

- Deploy air quality monitoring system
- Create a framework to represent the generated data
- Analyze data to identify factors that impact the quality of the garden alleys