4TH INTERNATIONAL FORUM ON SUSTAINABLE FUTURE IN ASIA JAN 23-24, 2019 PAN PACIFIC HANOI

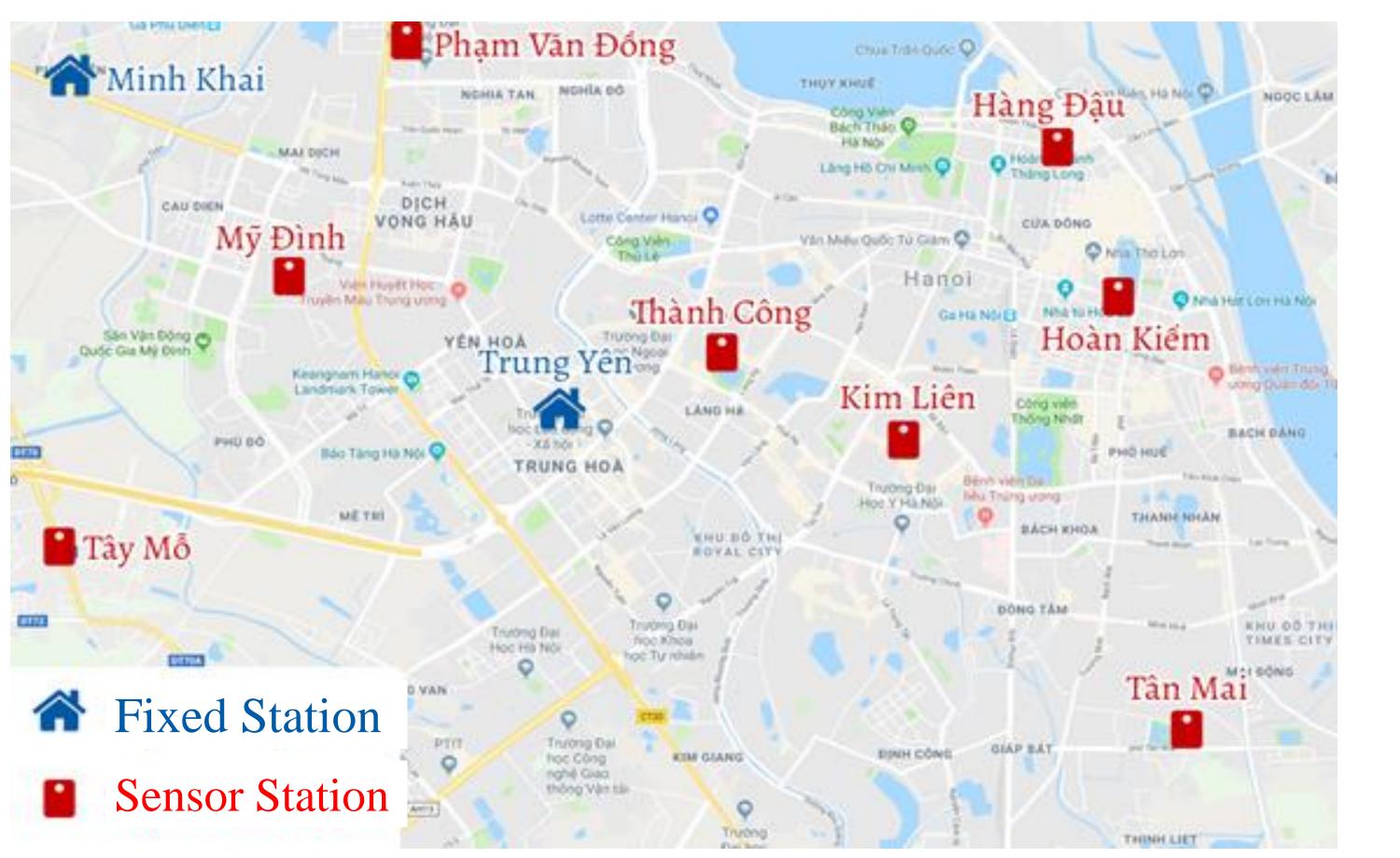
HANOI AIR QUALITY IN 2017

Nguyen Thi Hiep¹, Doan Thi Ngọc Anh¹, Nguyen Minh Hiep¹, Do Thuan An² ¹NBE JSC, ²NBE JSC, Thuy Loi University

Introduction

These days, air pollution is a major concern in many cities as the result of rapid urbanisation and industralisation. In 2016, Hanoi installed 10 ambient air quality monitoring stations including 2 reference stations and 8 sensor stations. This system has provided air quality automatically and continuously for public on television, website and mobile phone application.

Result and Discussion



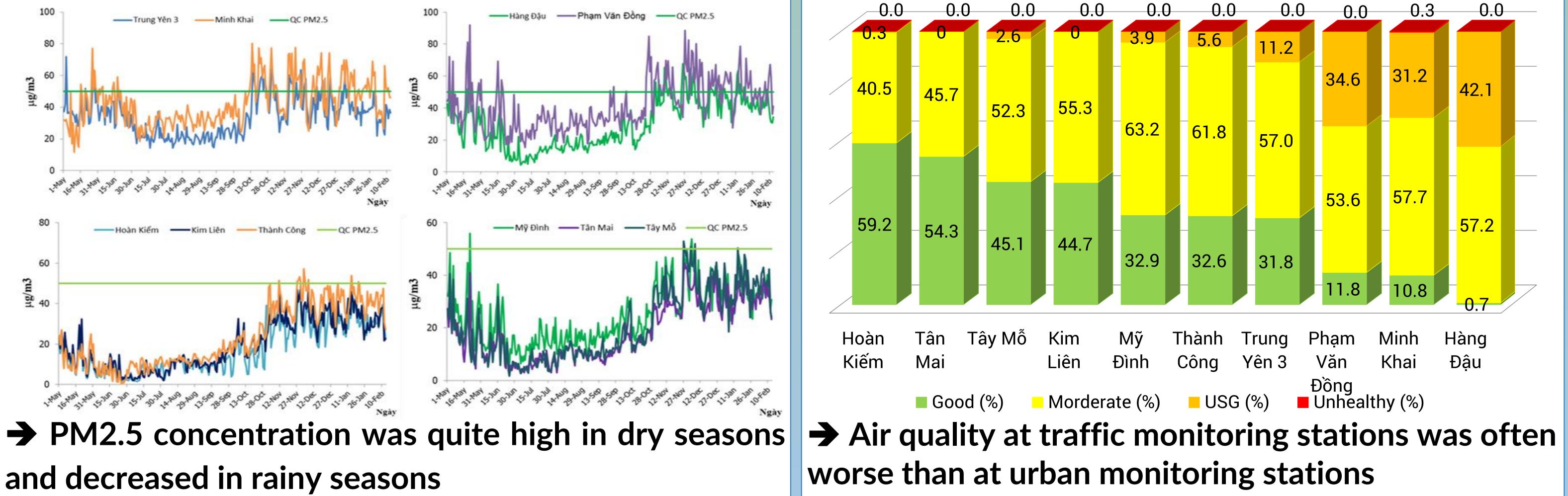
Map of 10 monitoring stations for ambient air quality in Hanoi

PM2.5 concentration from May 2017 to February 2018

Number of days from May 2017 to February 2018 PM10, PM2.5 and NO2 exceeded QCVN 05:2013 standard

Station	PM ₁₀	PM _{2.5}	NO ₂
Trung Yên 3	0	34	0
Minh Khai	13	87	15
Hoàn Kiếm	0	1	0
Hàng Đậu	0	35	115
Kim Liên	0	0	0
Thành Công	0	11	0
Tân Mai	0	0	0
Mỹ Đình	0	5	0
Phạm Văn Đồng	6	89	28
Tây Mỗ	0	4	0

Evaluation by AQI from May 2017 to February 2018



Conclusion

In general, air quality is in Good and Moderate levels in comparison to the Vietnamese standard

- QCVN 05:2013.
- PM2.5 is the main monitored pollutant in ambient air of Hanoi City.
- High pollution of ambient air was happened from 8:00-9:00 AM and 18:00-20:00 PM, in or after high traffic time. Dry season from November to February is the time of poor air quality.
- The main source of air pollution in Hanoi may be happened due to high traffic. On the other hand, ambient air quality is also significantly impacted by climate condition.







