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**Draft Guidelines for Developing
National Strategies to use Air Quality Monitoring
as an Environmental Policy Tool**

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Introduction

Air quality monitoring should be understood in a broader context of **air quality assessment and management system** which includes:

- Institutional framework
- Policy-level document setting
- Regulatory and other instruments
- Monitoring and information management
- Operational level setting

System Linkages of Air Quality Monitoring

As a part of air quality assessment and management system, monitoring should be linked with:

- Emission inventories and projections,
- Modeling (both dispersion and complex models),
- Assessment of health and environmental effects,
- Remote sensing,
- Other monitoring activities,
- Standards (air quality, emissions),
- Target setting (priorities, timing),
- Climate change related issues.

Priorities

In order to mitigate health and environmental impacts, the following pollutants should be taken into account:

- PM (PM₁₀ and PM_{2.5}),
- Ground level ozone
- Sulphur dioxide (SO₂)
- Nitrogen oxides (NO_x)
- Volatile organic compounds (VOCs)
- Ammonia (NH₃)

Notes:

POPs and HMs correlate with PM

NO_x and VOCs are precursors of ozone and of secondary PM, SO₂ and NH₃ are precursors of secondary PM.

Targets

Main targets:

- Air quality standards
- Emission reduction targets

Complementary targets:

- Development of monitoring networks,
- Institutional settings,
- Mechanisms for development of emission inventories and projections,

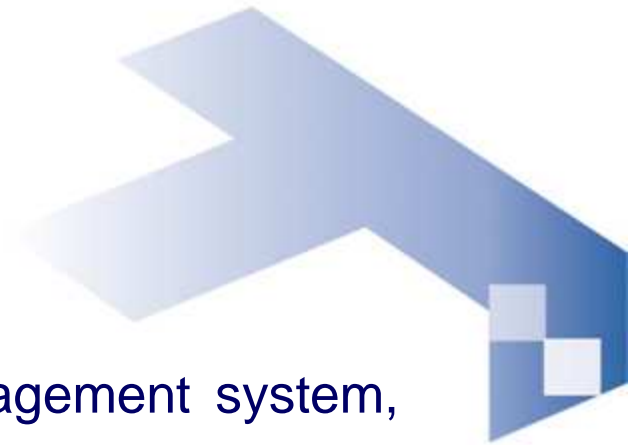
SMART concept recommended: Specific, Measurable, Achievable, Realistic, Timely.



Better use of monitoring data

Within the air quality assessment and management system, the monitoring data can be used in:

- Permitting,
- Compliance assessment,
- Reporting,
- Public information and warning,
- Calibration of models.





Institutional setting

One institution should be responsible for the coordination of air quality assessment and management system.

Within this system framework, one institution should be responsible for the coordination of all air quality monitoring activities in the country.



Thank you for your attention.

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