

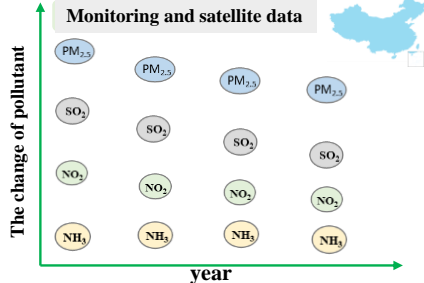
Meta-analysis

Dataset of components in PM_{2.5} during three periods

- PM_{2.5}
- Aerosol composition (OC, EC, secondary inorganic aerosol (SO₄²⁻, NO₃⁻, and NH₄⁺), other)
- NS, NSN, SOR, and NOR



National measurements



Identify critical factor of PM_{2.5} reduction

WFR-CMAQ model

Scenarios	Period I 2010	Period II 2014	Period III 2017	Special control by lockdown 2020
Scenario 0	baseline	baseline	baseline	baseline
Scenario 1	50% NH ₃ reduction	50% NH ₃ reduction	50% NH ₃ reduction	50% NH ₃ reduction
Scenario 2	—	—	50% acid emission reduction	—

The response of SIA and PM_{2.5} mitigation

Identify strategic options to mitigate PM_{2.5} pollution