This presentation is to introduce the WMO GAW Urban Research Meteorology and Environment (GURME) pilot project on near real time (NRT) data application in the air quality (AQ) forecasting systems. The project will illustrate the integration of near-real time monitoring networks and numerical chemical weather forecasting models with a data assimilation system not only for providing a better initial condition but also for estimating current emissions. Piloted in China CMA (China Meteorological Administration), this project will use extensively the monitoring data of surface PM and AOD as well as the satellite observations in a near-real time manner from China. The central part of the project is the CUACE system: CMA Unified Atmospheric Chemistry Environment. Implemented into any meso-scale weather forecasting models, the CUACE provides the chemistry component for the chemical weather forecasts. Currently, CMA uses both GRAPES and MM5. The GRAPES is the new generation of the Chinese operational weather forecasting system. Through the integration of model and observations, GRAPES/CUACE or MM5/CUACE delivers the NRT chemical forecasts by using the NRT observation data.