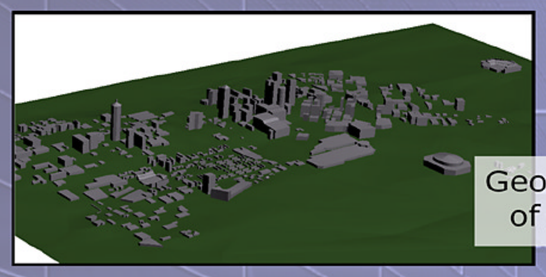
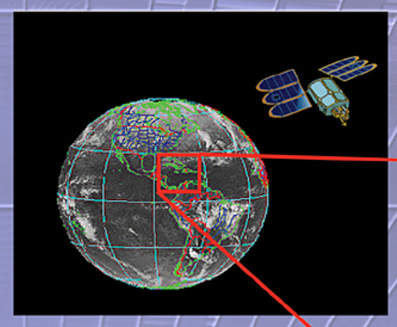
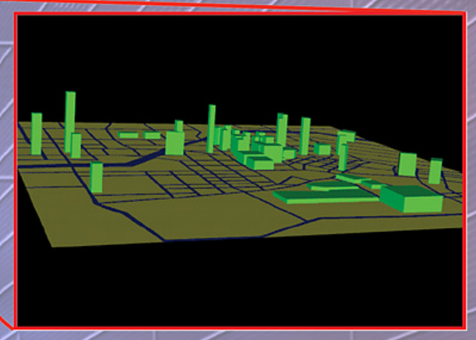
Dispersion of Airborne Contaminants in Urban Environments

A predictive model for the dispersion of airborne contaminants can help the US Army and other emergency planners respond to an accident, terrorist attack, or other event. The model can also be applied to battlefield environments to help predict the behavior of a contaminant release for an effective response, visibility and obstruction, and signature modeling.

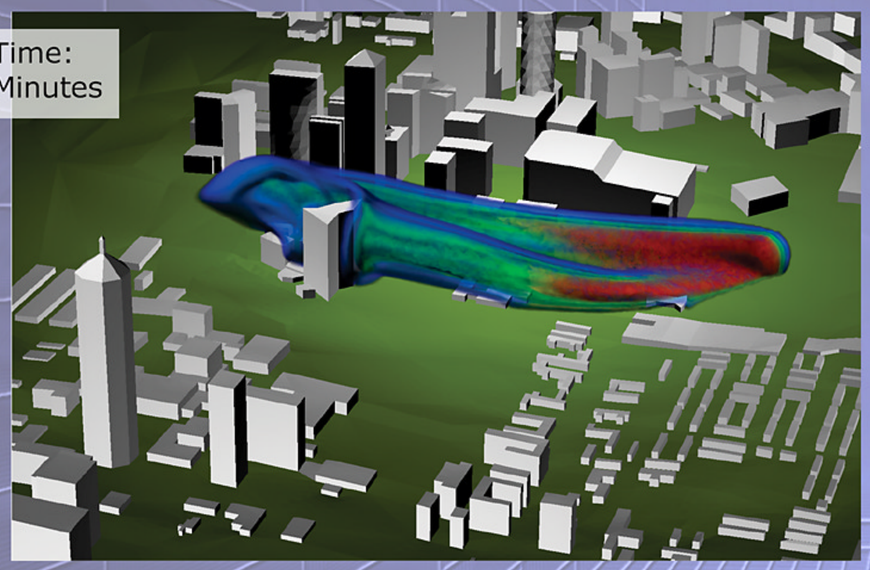


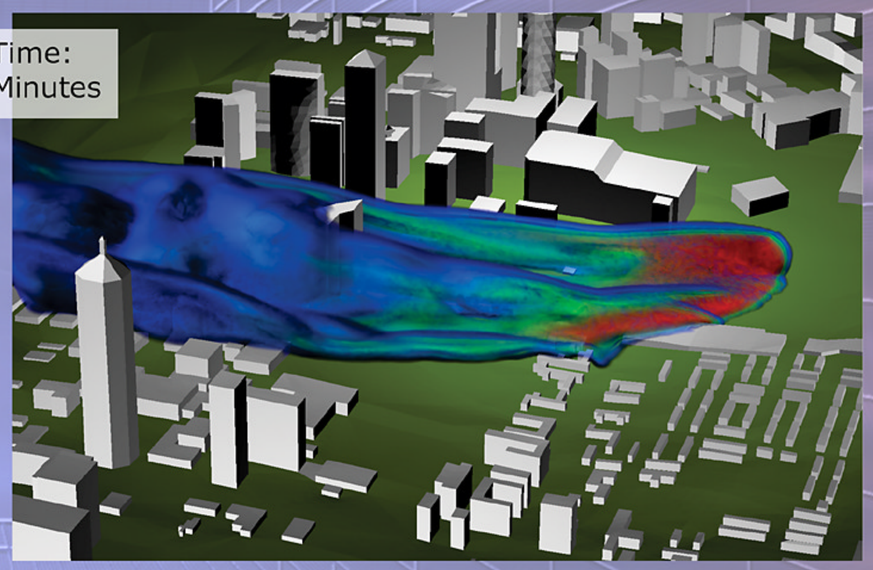
Geometric model of Atlanta, GA

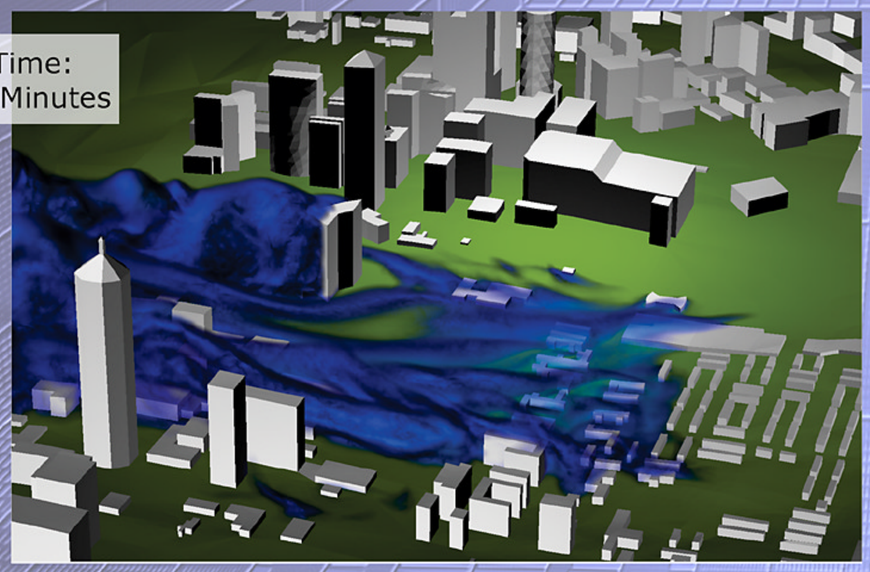


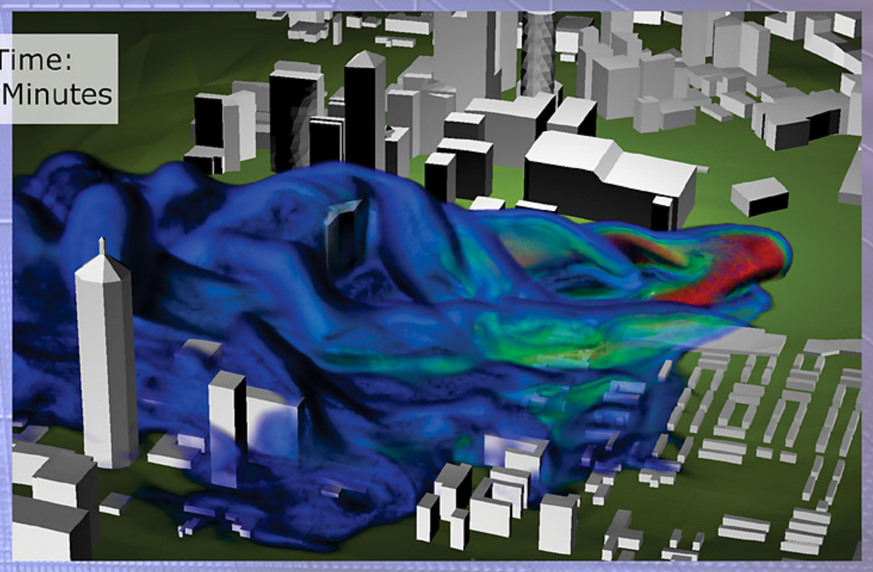


Two systems coupled together to form a complete meso-to-micro scale prediction model.









Parallel numerical simulation of the release of an airborne contaminant within Atlanta, GA.

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