Subproject of TU Dresden, Chair of Meteorology

Objectives

1. Downscaling of climate data for Dresden and Erfurt to the scale of city districts, on the basis of structural parameters (buildings, vegetation)
2. Determination of meteorological and human-biometeorological effects in thermally stressed city districts
3. Assessment of planning effects on thermal indices (PET, UTCI) using measurements and modeling

Anticipated project results

User-oriented, spatially differentiated and freely available climate data base for present and near future for use in:
- building climate control, city planning and district management (regional to local scale) in Dresden und Erfurt
- protection of open spaces and extension of shadow areas from trees have a major priority for the residents.
- continuous participation of residents (who are affected by heat stress) in the process of project execution improves the chances for success!