

# Possible modification of the Enviro-HIRLAM model to include urbanization effects for Saint-Petersburg

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# Main Goal & Objectives

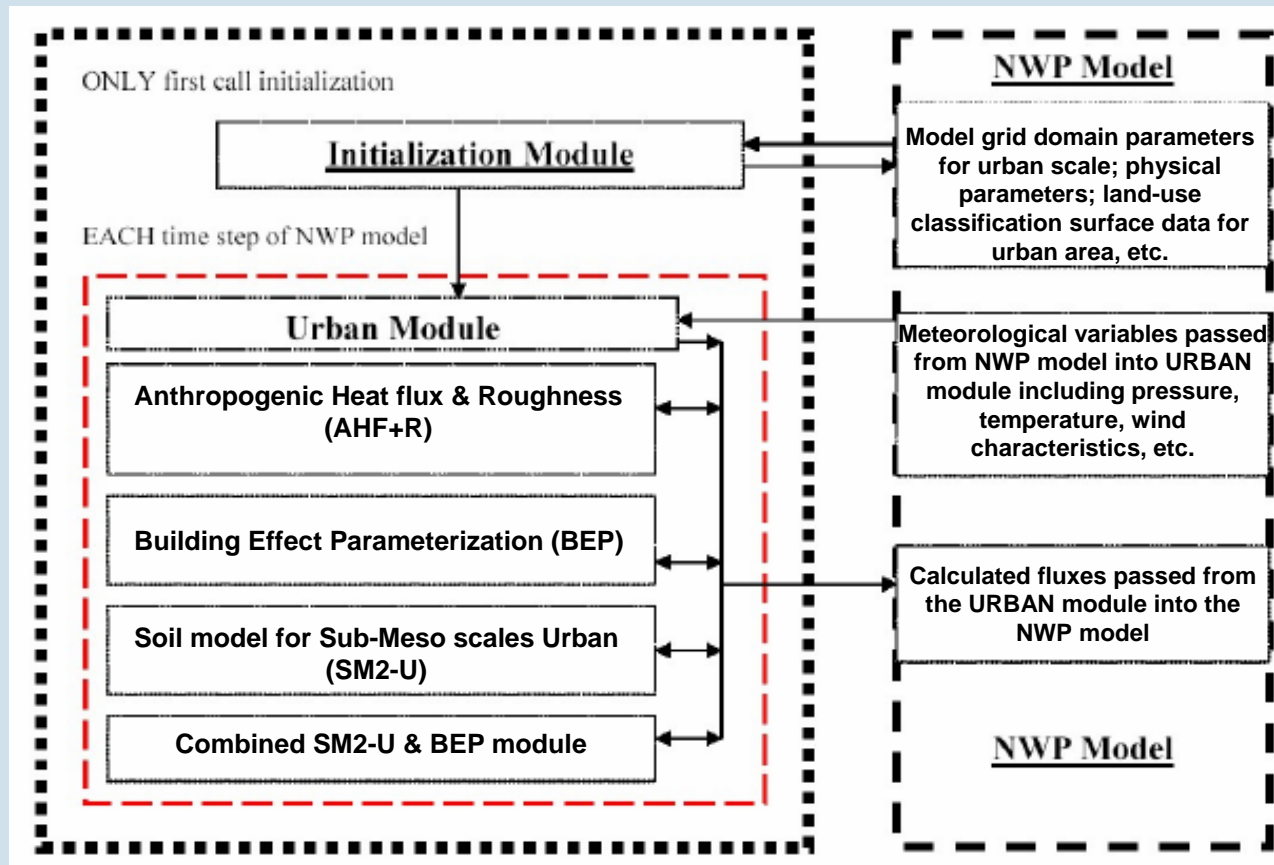
## Main Goal


- ① The aim of study is to evaluate effects of urbanization of NWP model on simulated meteorological and pollution patterns over the urbanized areas and surroundings on example of Saint-Petersburg metropolitan area.

## Specific Objectives

- ① To investigate the Enviro-HIRLAM model with different parameters.
- ① To evaluate the diurnal cycle variability of meteorological parameters comparing two types of runs: with anthropogenic activity influence and without it.
- ① To estimate the impact of the metropolitan area on meteorological fields and, thus, the weather.

# General scheme of the Enviro-HIRLAM urbanization





**If you interested  
my future plans and  
applicability of results  
see poster!**