

## **ASSESSMENT OF AIR POLLUTION IN ALPINE ENVIRONMENTS**

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Road traffic emissions have severe impacts on the natural environment as well as on the socio-economic development of regions in the vicinity of major alpine traffic routes. This is essentially true in alpine regions, where several studies have shown that road traffic emissions are likely to further increase in the future, whereas other categories of emissions will decrease within the next years.

ALPNAP is an ongoing research project focussing on corresponding effects along several major transit routes across the European Alps. Assisting regional authorities with appropriate output, a unique cooperation of scientists within the alpine region was setup to better assess and predict the spatial and temporal distribution of air pollution and noise close to major alpine traverses. Results of the long term air quality simulations (1.5 years) with the regional meteorology-chemistry model MCCM for the Brenner traverse and the impact of different emission sources to the air pollution levels - with the focus to the traffic - will be discussed and presented. Projected scenarios based on instructions and formulated by the local government will demonstrate the impact on air quality within the alpine traverse.

**EXTENDED ABSTRACT NOT SUPPLIED**