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## Interdisciplinary analysis of soil acidification hazard and its legacy effects in Lithuania

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**Abstract.** An analysis of factors influencing effective soil acidification management is reported. This analysis was conducted simultaneously at both national and local levels. These investigations were accomplished in three stages: (i) validation of acid soil spatial patterns using system analysis and geoinformation methods; (ii) spatial statistical analysis of pH diversity using a statistical grid method; and (iii) development of a concept of soil acidity management. Results indicate the national scale distribution of topsoil reaction is a natural and stable phenomenon over Quaternary sub-surface deposits. However, secondary effects of liming are evident in both spatial and temporal soil reaction patterns.

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