

M7: Bayesian networks and soil functions: integrating uncertainty and multi-functionality

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In this masterclass we will learn about Bayesian Networks (BN) and how they can be useful for modelling a diverse suite of soil functions (SF). BNs make it possible to incorporate uncertainties and to complement empirical data with expert knowledge. This allows us to incorporate spatial heterogeneity, present in soils and land management practices, in SF assessments. In a practical exercise, you can build and test your own expert-knowledge Bayesian belief network. A short demonstration will be given how these networks can be used to map different SFs.

