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In this talk we survey results of the so-called Semi-algebraic (Tame) Variational Analysis, with emphasis to the desingularization of (variational) criticality and its consequences to the asymptotic analysis of (nonsmooth) dynamical systems.

*Joint work with The talk is based on several works obtained in collaboration with J. Bolte (Université Toulouse 1, France), D. Drusvyatskiy (University of Washington, USA) and A. S. Lewis (Cornell University, USA).*