r.sim.terrain input data determine steady state or dynamic flow regime determine model **RUSLE3D** SIMWE **USPED** variable erosiontransport limited regime detachment limited regime deposition regime event-based event-based erosivity factor erosivity factor flow accumulation water flow flow accumulation topographic sedi-3D topographic factor ment transport factor sediment flow at erosion-deposition detachment rate transport capacity landscape evolution landscape evolution landscape evolution gravitional diffusion gravitional diffusion gravitional diffusion iterate iterate

output data