Let's assume a channel with three cells and two class of sediment

V = [0.5 ,1,-1] meter per second

d = [0.001, 0.000125] very coarse sand and fine sand =>

settling velocity = [0.15497120869127, 0.00107763658010]

manning = [ 0.015, 0.02, 0.025]

area = [ 1000, 1000, 1000]

width = [200, 250, 300] meter => Hydraulic radios = [5 , 4, 3.333] meterz

concentration = [0.01, 0.02, 0.03] vol/vol

delta\_b = 0.05\* depth

Kinematic viscosity = 1.0d-6

gravity = 9.80

Specific gravity of particle (~2.65)