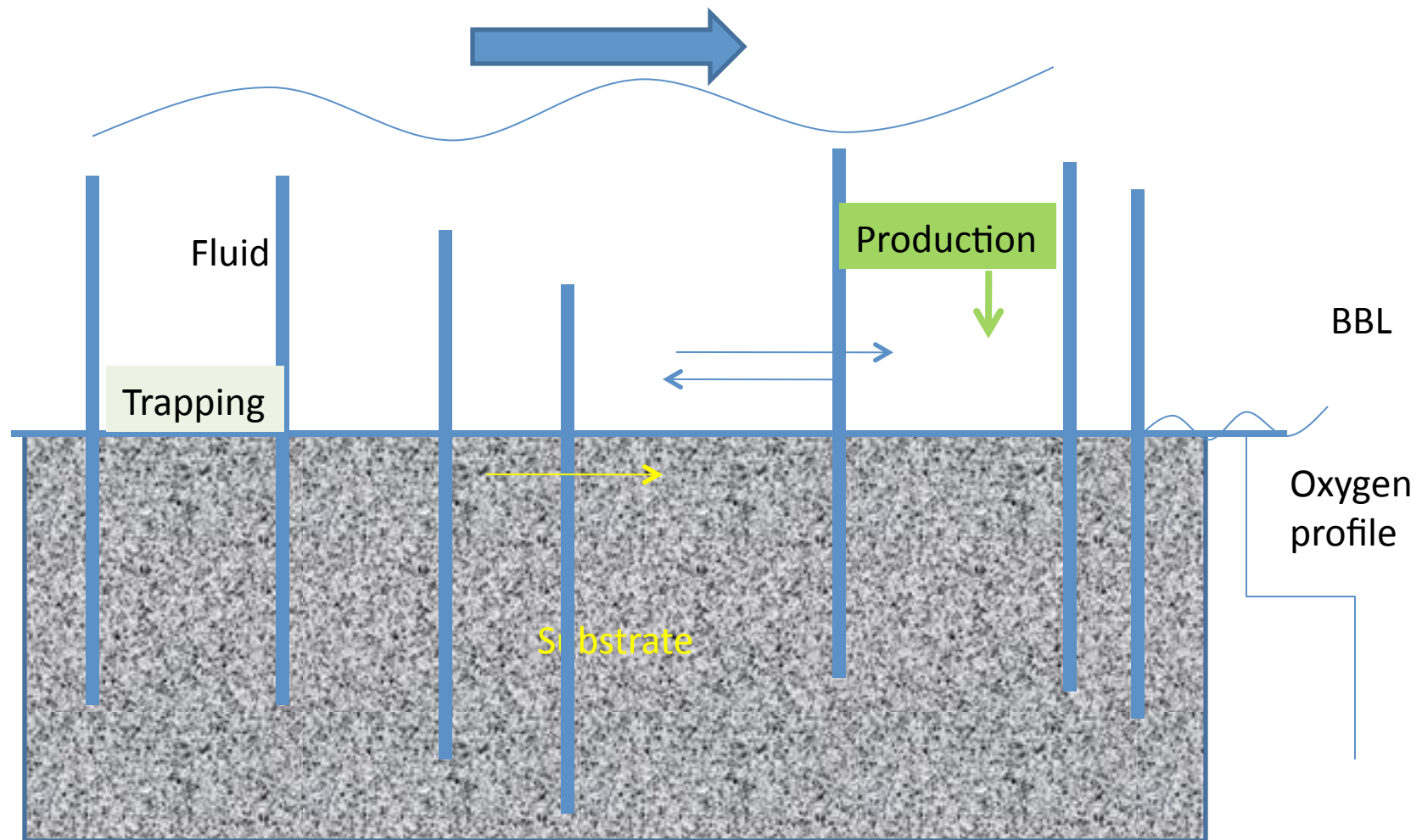


Breakout: Organic Baffles Module

Where: seagrass, sedge marshes, coral frameworks, forests, river bank root systems, mangroves

Human interactions: forestry incl. mangroves, harbour & coastal constructions, boat props/anchors, herbicides, surge-tsunami-surf protection, fisheries recruitment

Already some implementations – are specialized - none generic ?



Issues: spatial scales, time scales, equilibrium system, is an intensely internally coupled system

5-year plan:

A generic module to deal with organic baffles – fluid flow, shear – grain transport/trapping – baffle life/growth – organic movements

Will yield – source/sink budgets/fluxes – patch character – existence / destruction / creation – sensitivities (what if)

Is an opportunity – to develop an OO (object oriented)/agent type of module in CSDMS – test the experience

Also a challenge as an equilibrium system – may need chaos theory concepts (metastable states, attractors, etc)