lihMesh-sedimentation workflow param_settings.in Input Mesh AMR Setup --- (mesh size, AMR parameters) Simulation Setup (maximum time, flow linear tolerance, flow non-linear tolerance) ----while t < tmax Evaluation Fluid Solver (final linear residual. final non-linear residual) Sediment Concentration Solver (final linear residual, final non-linear residual) Adaptive Mesh Refinement (before active elements. after active elements) XDMF/HDF5 Writer XDMF/HDF5 file pointers Catalyst Adaptor (points, velocity, pressure, sediment concentration)

