FINE MODEL CONVERGED: NO COARSE MODEL CONVERGED: NO	FINE MODEL CONVERGED: NO COARSE MODEL CONVERGED: YES	FINE MODEL CONVERGED: YES COARSE MODEL CONVERGED: YES
<pre>// given: new coarse cplData from solvers H(x) measureConvergence(coarseModel) → false _coarseModelOptimizationActive ← true _MMPostProcessing.performPP(cplData) _coarseOptimization.optimize(cplData, q_k) RegisterSolution() // store coupling data for conv. measure and extrp // update time and iteration counts</pre>	<pre>// given: new coarse cplData from solvers H(x) measureConvergence(coarseModel) → true _coarseModelOptimizationActive ← false _doOnlySolverEvaluation ← true</pre>	// given: new coarse cplData from solvers H(x) measureConvergence(coarseModel) → true _coarseModelOptimizationActive ← false _doOnlySolverEvaluation ← true
// fluid solver:	// fluid solver:	// fluid solver:
readBlockScalarData(cplReadData)	readBlockScalarData(cplReadData)	readBlockScalarData(cplReadData)
napDown(cplReadData) evaluateCoarseModel()	evaluateFineModel()	evaluateFineModel()
napUp(cplWriteData)	writeBlockScalarData(cplWriteData) // to fine cplData IDs	writeBlockScalarData(cplWriteData) // to fine cplData IDs
vriteBlockScalarData(cplWriteData) // to coarse cplData IDs	// solid solver:	// solid solver:
vriteBlockScalarData(cplWriteData) // to fine cplData IDS	readBlockScalarData(cplReadData)	readBlockScalarData(cplReadData)
	evaluateFineModel()	evaluateFineModel()
// solid solver: readBlockScalarData(cplReadData) mapDown(cplReadData) evaluateCoarseModel() mapUp(cplWriteData) writeBlockScalarData(cplWriteData) // to coarse cplData IDs	writeBlockScalarData(cplWriteData) // to coarse cplData IDs	writeBlockScalarData(cplWriteData) // to coarse cplData IDs
	// given: new fine cplData from solvers H(x)	// given: new fine cplData from solvers H(x)
	measureConvergence(fineModel) → false	measureConvergence(fineModel) → true
	_doOnlySolverEvaluation ← false	_doOnlySolverEvaluation + false
	_MMPostProcessing.performPP(cplData)	_MMPostProcessing.iterationsConverged(cplData)
	_coarseOptimization.iterationsConverged()	_coarseOptimization.iterationsConverged()
	UpdateDifferenceMatrices() // F and C updateCoarseModelDesignSpecification(q_k)	updateDifferenceMatrices() // F and C updateCoarseModelDesignSpecification(q_k)
	coarseModelOptimizationActive ← true	coarseModelOptimizationActive ← true
	coarseOptimization.optimize(cplData, q_k)	
	RegisterSolution()	
	// store coupling data for conv. measure and extrp	// store coupling data for conv. measure and extrp
	// update time and iteration counts	// update time and iteration counts