

A QUALITATIVE PILOT FOR COMPLEX SYSTEMS SIMULATION

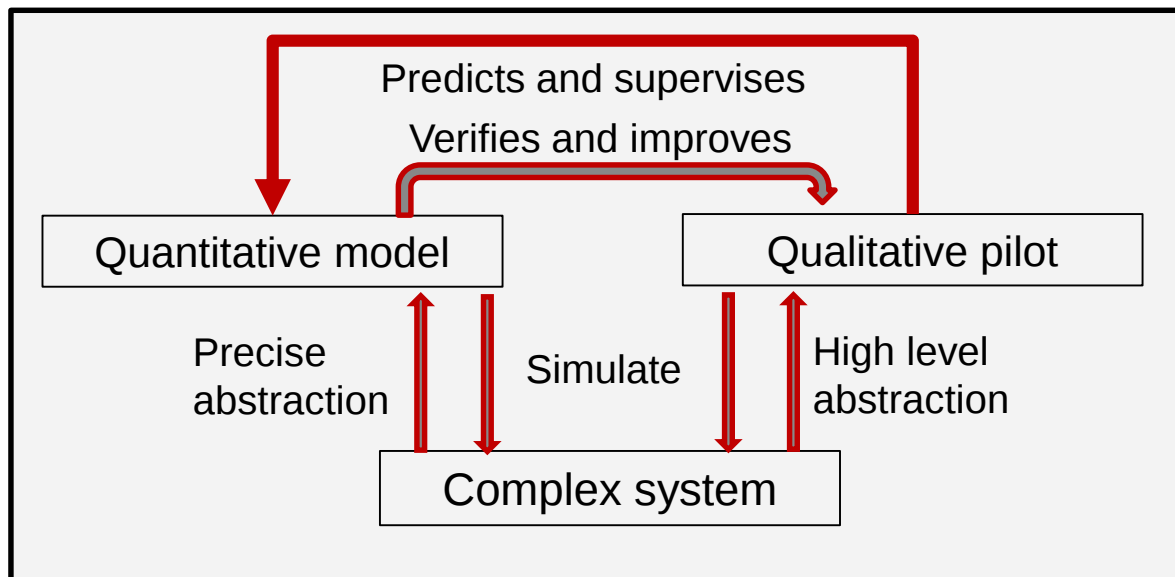
Problems :

- Cost of numerical simulations
- Uncertainty on some system parameters
- Difficulties to find unwanted behaviours

Our approach :

A Qualitative Pilot

- Simplify the first simulations (coarse grain)
- Identify categories of possible behaviors
- Supervise the execution of the quantitative model



Done Step 1: Unify qualitative modeling theories

Ongoing Step 2: Develop a new qualitative modeling method, capable of managing both abstraction of quantitative systems and comprehension of causality and logical predicates

Upcoming Step 3: Find a case study (ideas welcome)

Upcoming Step 4: Create a program to apply this method

Upcoming Step 5: Link qualitative and quantitative models together, and make the first model pilot the second.