

Modeling languages become used at least in the "prototyping" phase. But we have essentially a scaling problem today. Modeling languages are at least necessary for expressing our understanding of the problem (may too early for certified code generation).

Modeling languages should also be used for existing software. They should provide ways to go back and forth between designs and existing code. They should handle view consistency between different levels (design code).

Modeling languages should not be too general. They should be domain oriented. For some domains, the mapping between the formal model and its implementation is well understood. For others, we have yet to make studies.

The use of modeling languages relies essentially on tools. Their use become dependent of version changes and we should be aware of that. Version control is a real problem.

Education is very important. When people arrive at industry it is too late. Teaching formal methods (or at least teaching rigorous modeling) is a must.