Is it possible (useful) to evolve from a common tool baseline?

*Exchange formats are important (e.g., OMG)*

*Example: ETI project (Dortmund, Germany) - not what anyone wants*

*Common-language approach can lead to least common denominator*

*Try to develop an ontology to address semantic differences & retain memory of parts that differ*

*Standardizing notation could stifle progress*

**Alternative:** people working on common approaches could try to integrate their approaches

*But merging requires obtaining a common semantic domain*

Researchers should at least think of the connections between their tools and other parts of the process

*Should identify the elements of the current practice (e.g., Ford MoBIES report)*

Would help to have a centralized glossary-translator of terminology, both technical terms and tool terms

*New trends-buzzwords can be a smoke screen*

**A common point of view is impossible**

Document an existing process and identify where tools & languages fit and what’s needed to use them and what they generate

**Reference model**

*E.g., OSI 7-layer communication model*

*Should make it specifically for embedded systems*

*Could be a lattice to capture multiple tracks in the process*

*Look at how group discussions map onto this process chain*

*Makes it possible for researchers to identify people working on adjacent tasks*

*End-to-end reference model helps us identify the holes*

*Is reference model prescriptive or descriptive?*

*Do we need variants for the reference model?*

*Important to get initial version*
benchmark problems
  e.g., benchmarks for EDA (hardware verification)
  it takes a long time to document a real process
  could demonstrate tools & results in context of a
  "notional problem"
  ultimate goal needs to go from natural language to
  implementation
  benchmark problems will be first step toward getting
  metrics

industry needs to be involved

web site
  a central repository for program results/contributions
  place for reference model & benchmark problems

need support for design by refinement