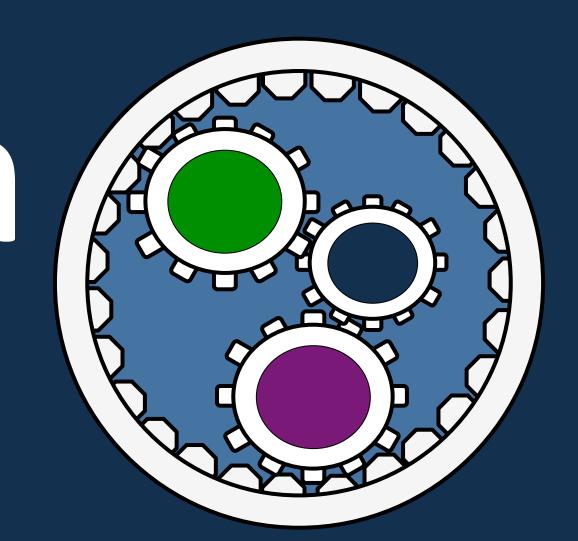
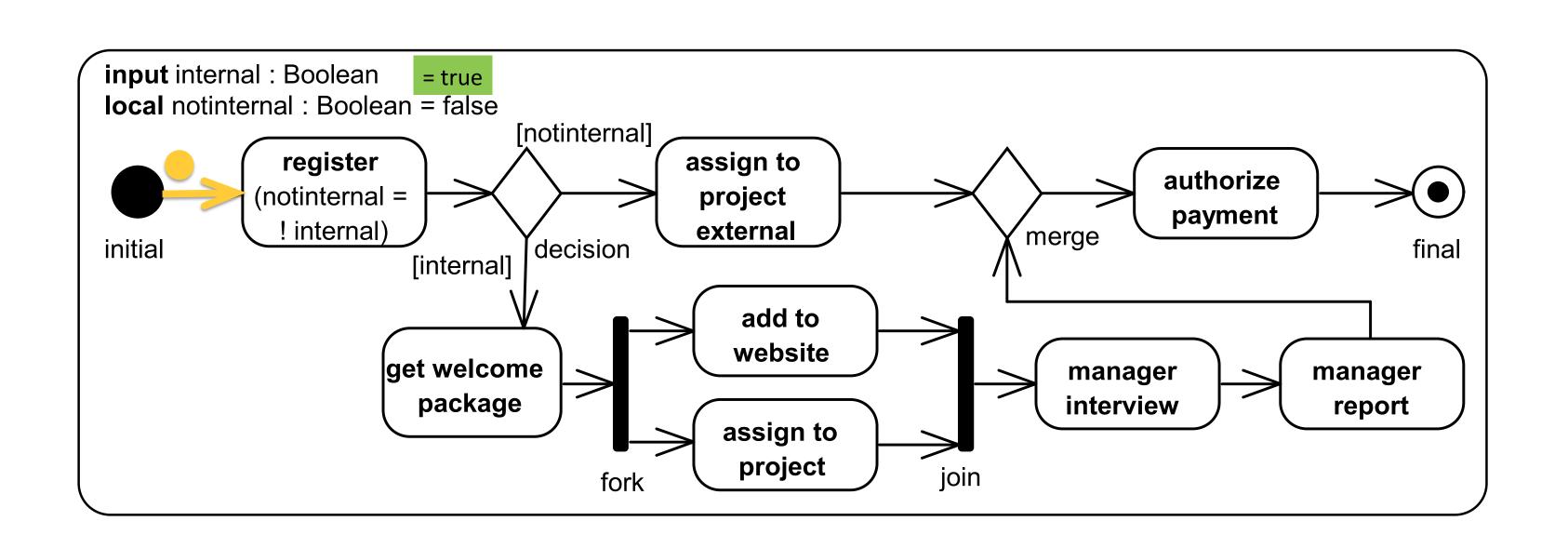
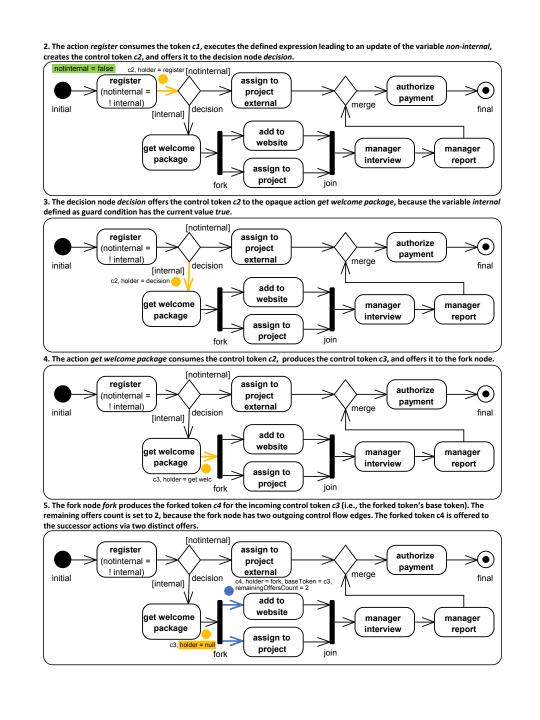
## fUML Activity Diagrams with RAG-controlled Rewriting

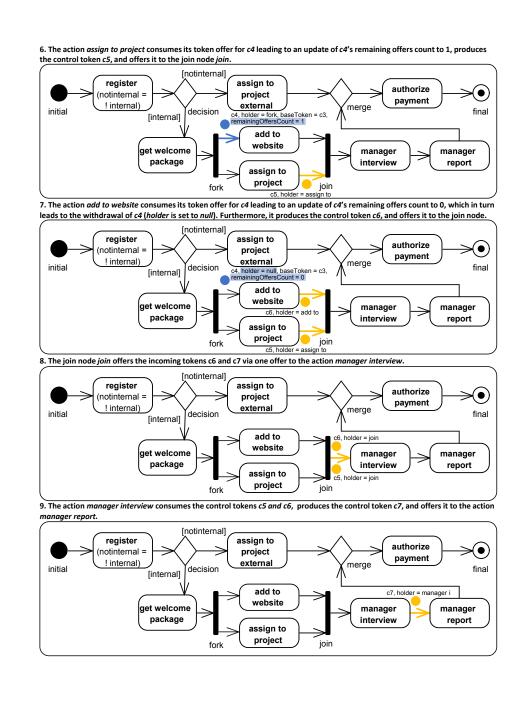


## A RACR Solution of the 8<sup>th</sup> Transformation Tool Contest

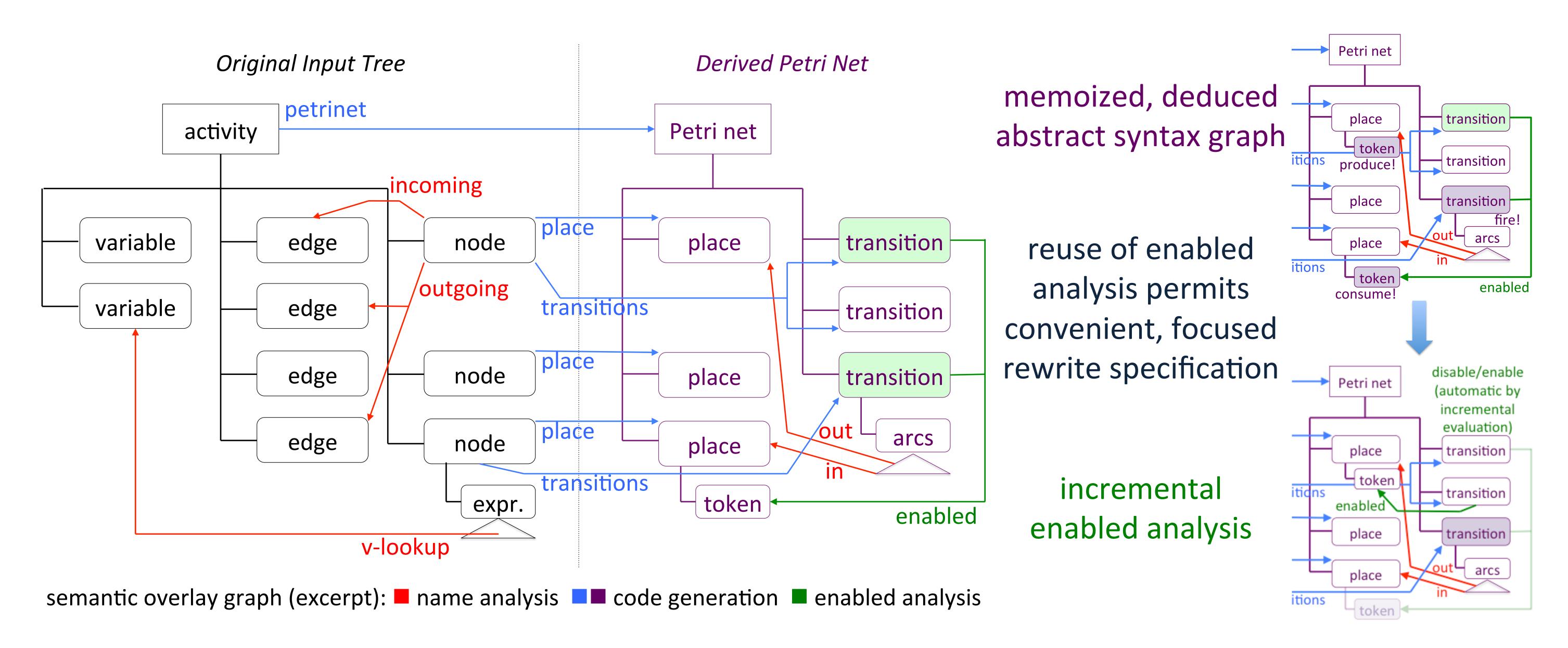
TTC 2015 task: execution of fUML Activity Diagrams.







RACR Solution: diagram to Petri net interpreter, uses a reference attribute grammar to deduce memoized abstract syntax graph well-suited for execution by rewriting.



RAG-controlled rewriting: declarative, seamless combination of reference attribute grammars & graph rewriting (*RACR*: reference implementation, *Scheme* library).

- analyse-aware rewrite-based transformations (analyses deduce rewrites)  $\leftarrow$  mutual control



