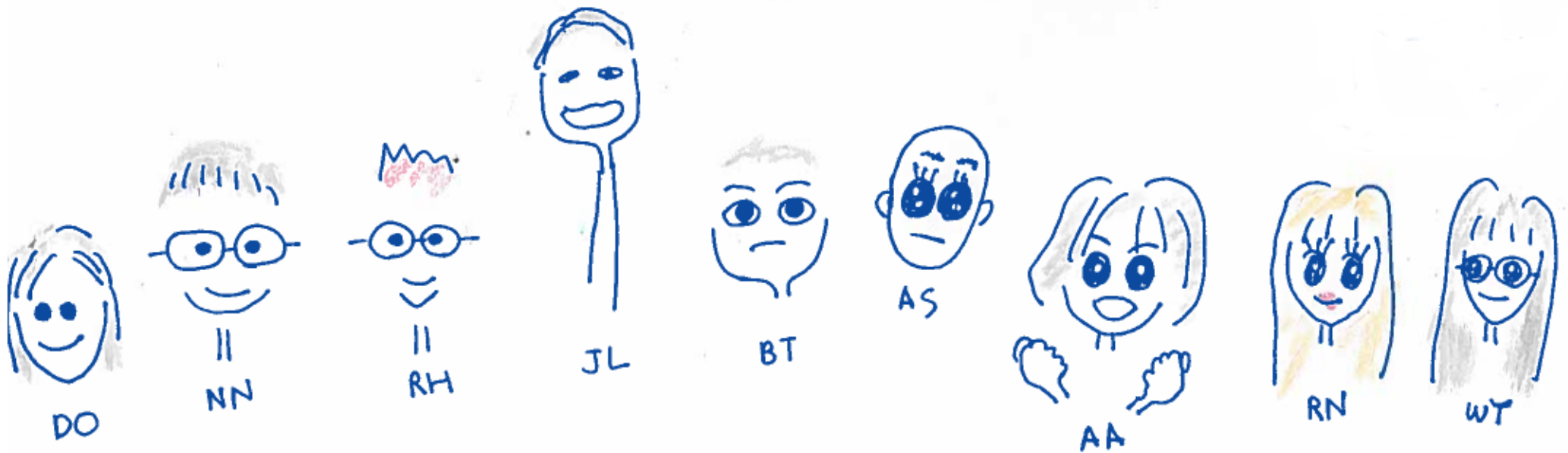


Nobuko Yoshida

Imperial College London



Mobility Reading Group

mrg.doc.ic.ac.uk

Selected Publications 2015/2016



- **[CC'16]** Nicholas Ng, NY: Static Deadlock Detection for Concurrent Go by Global Session Graph Synthesis.
- **[FASE'16]** Raymond Hu, NY: Hybrid Session Verification through Endpoint API Generation.
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- **[CC'15]** Nicholas Ng, Jose G.F. Coutinho, NY: Protocols by Default: Safe MPI Code Generation based on Session Types.
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<http://scribble.doc.ic.ac.uk:55000/>



```
1 module examples;
2
3 global protocol HelloWorld(role Me, role World) {
4     hello() from Me to World;
5     choice at World {
6         goodMorning() from World to Me;
7     } or {
8         goodAfternoon() from World to Me;
9     }
10 }
11
```

Hello World ▾

Check

Protocol:

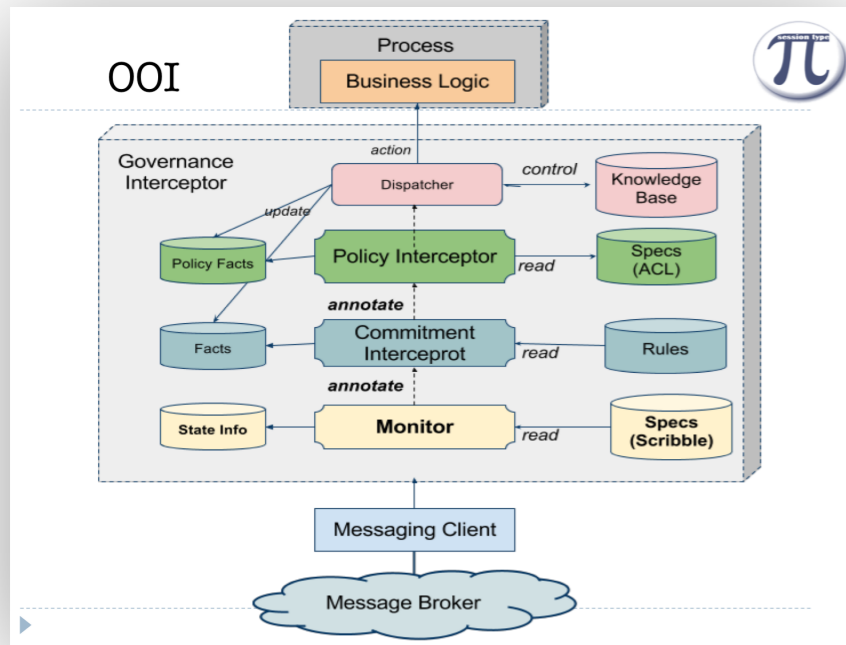
Role:

Project

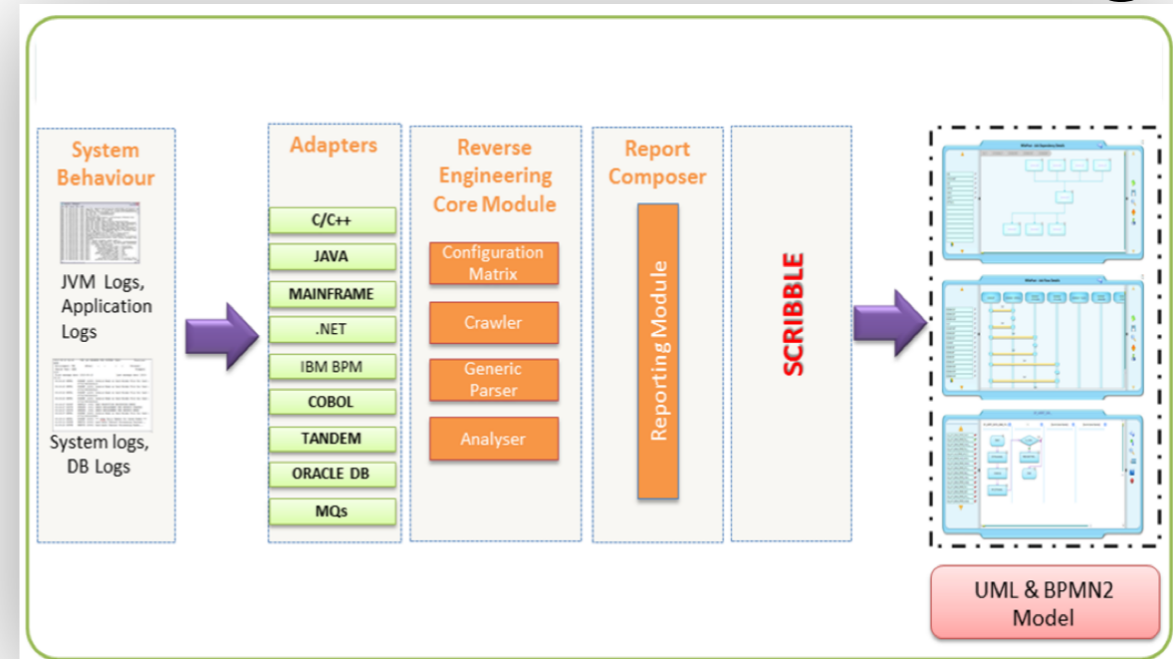
Generate Graph

Applications

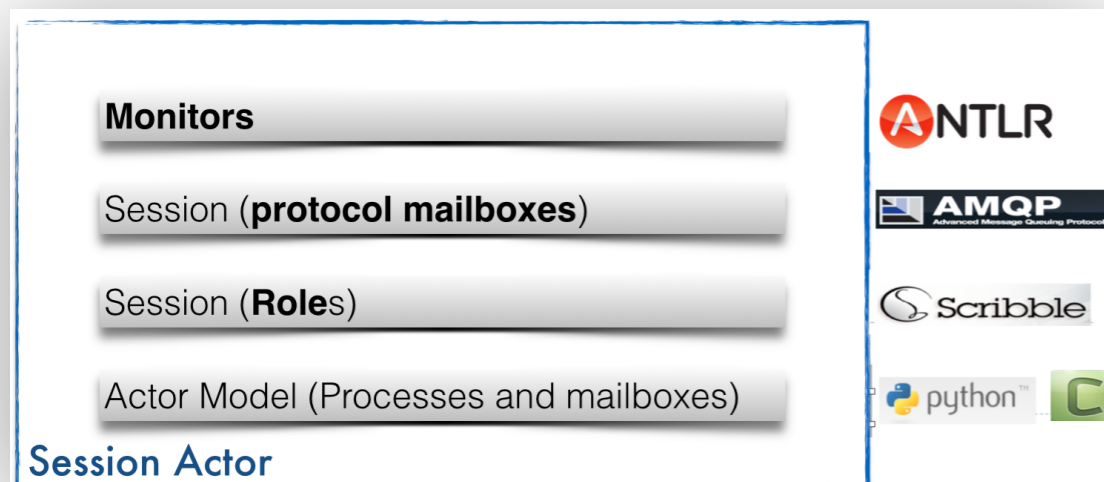
OOI Governance



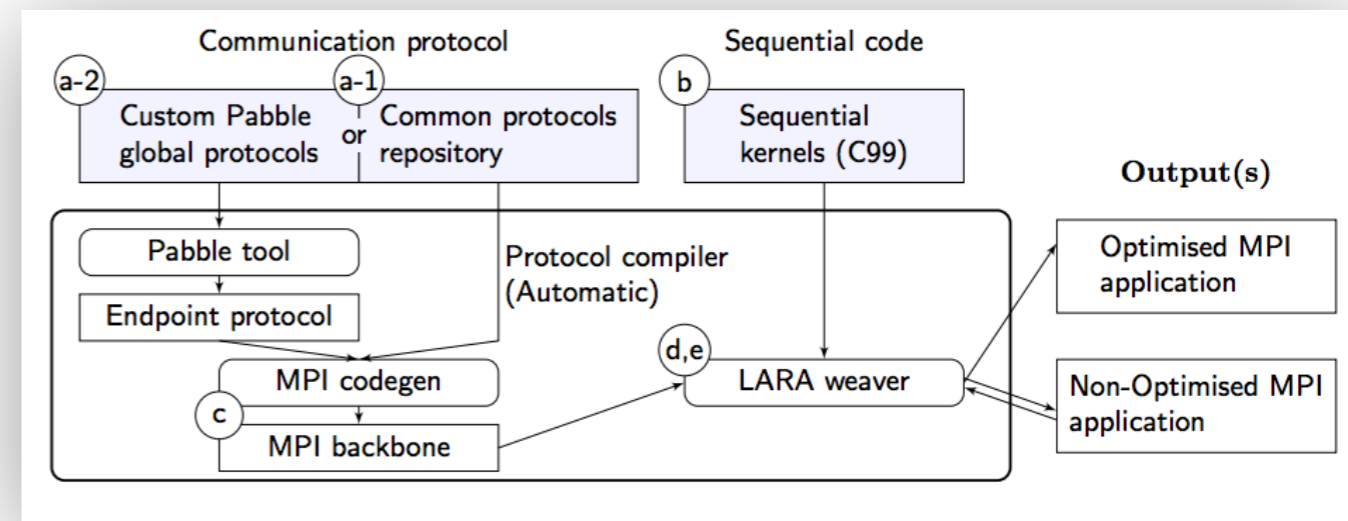
ZDLC: Process Modeling



Protocol Verification

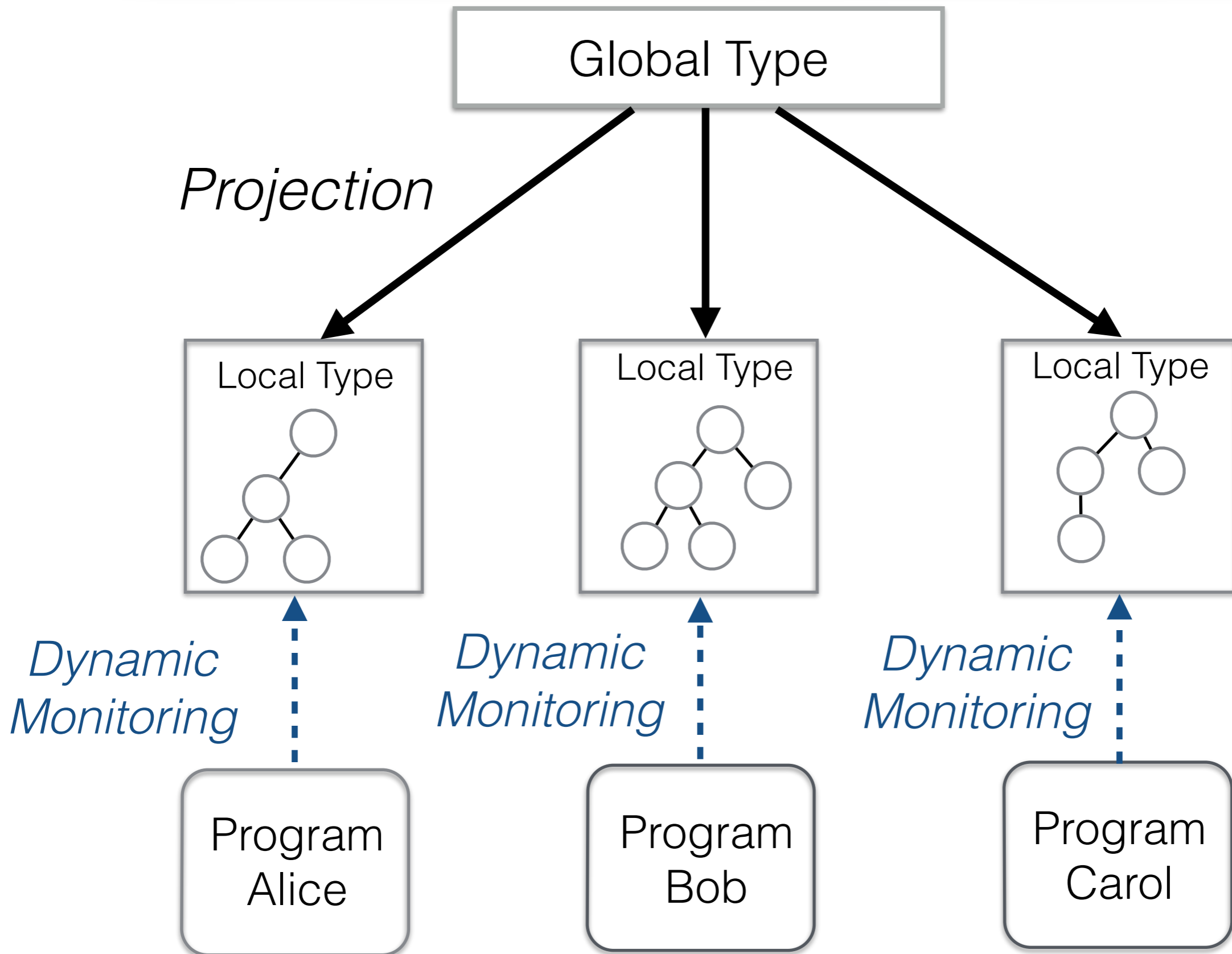


MPI code generations

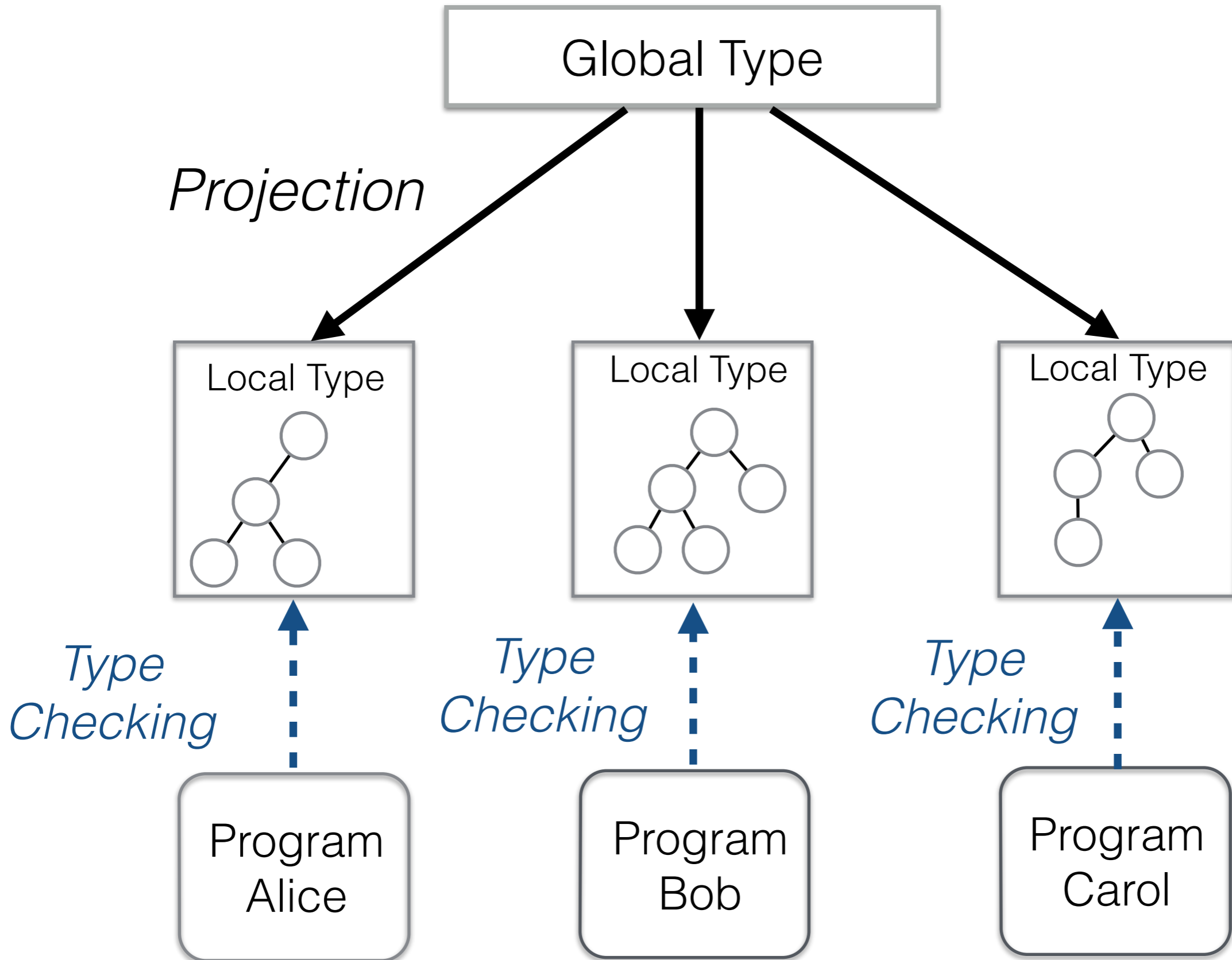


Dynamic Monitoring

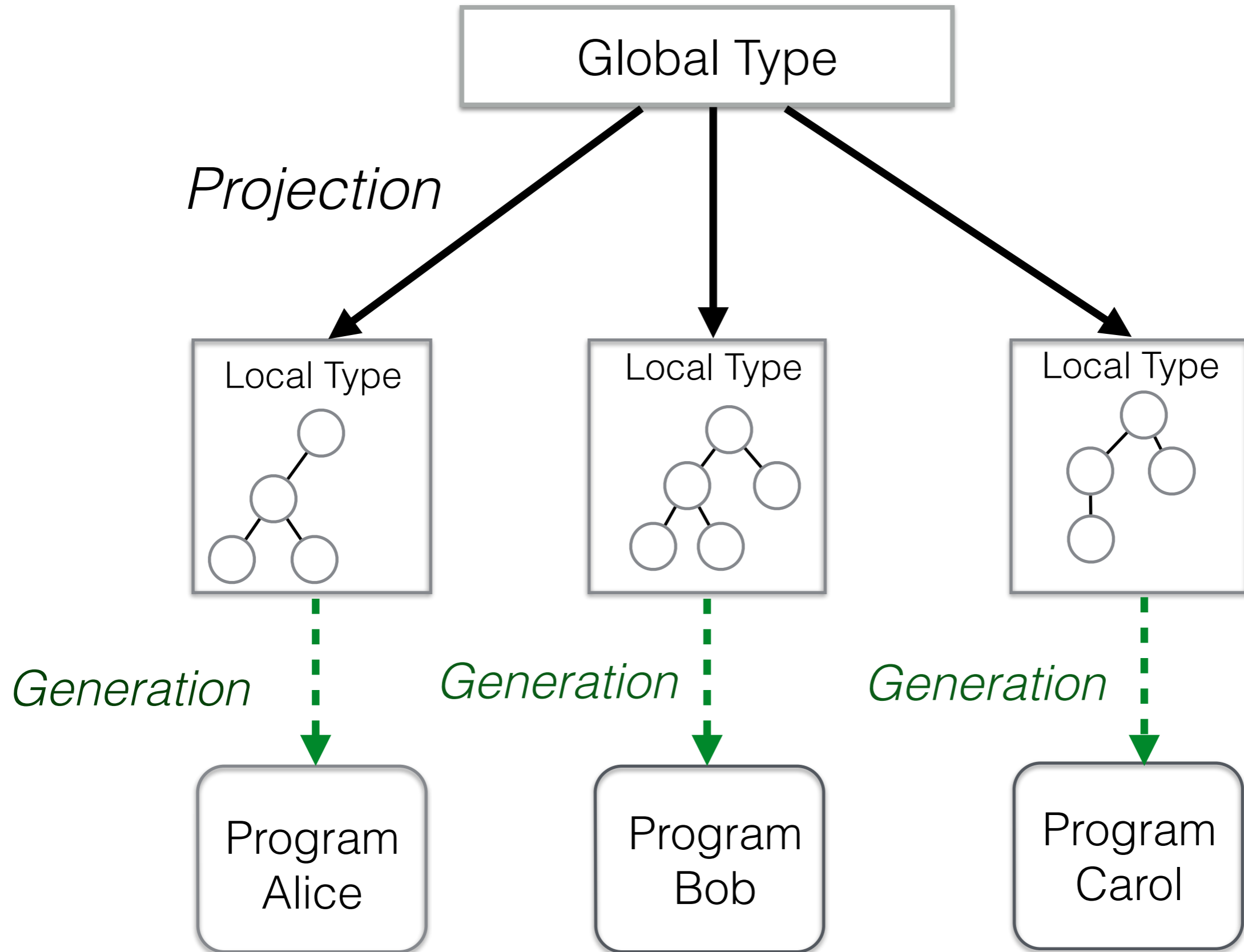
[RV'13, COORDINATION'14, FMSSD'15]



Type Checking [OOPSLA'15, POPL'16]



Code Generation [CC'15, FASE'16]



Synthesis

[ICALP'13, POPL'15, CONCUR'15, TACAS'16, CC'16]

