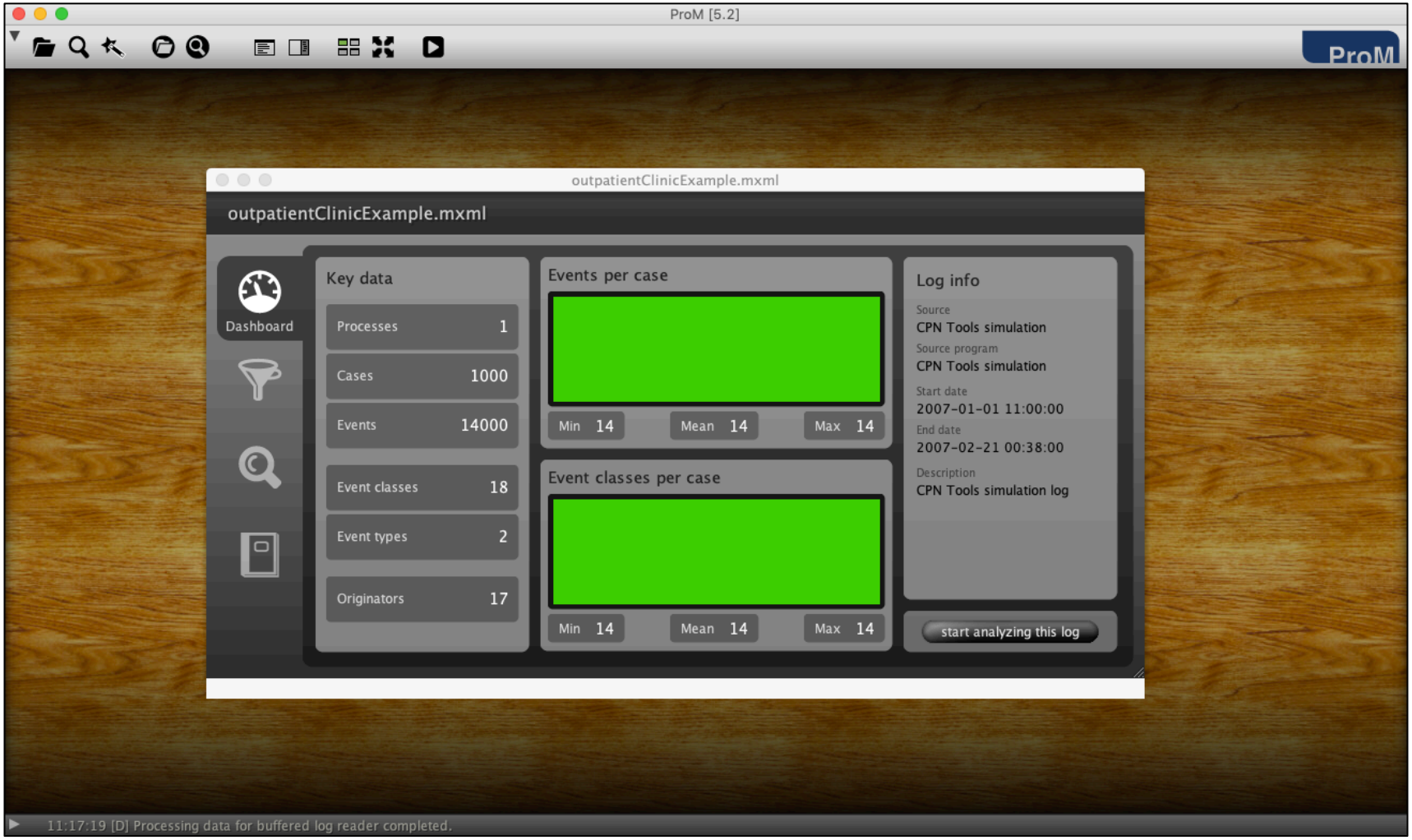
Process Mining

COMP9313: Big Data Management

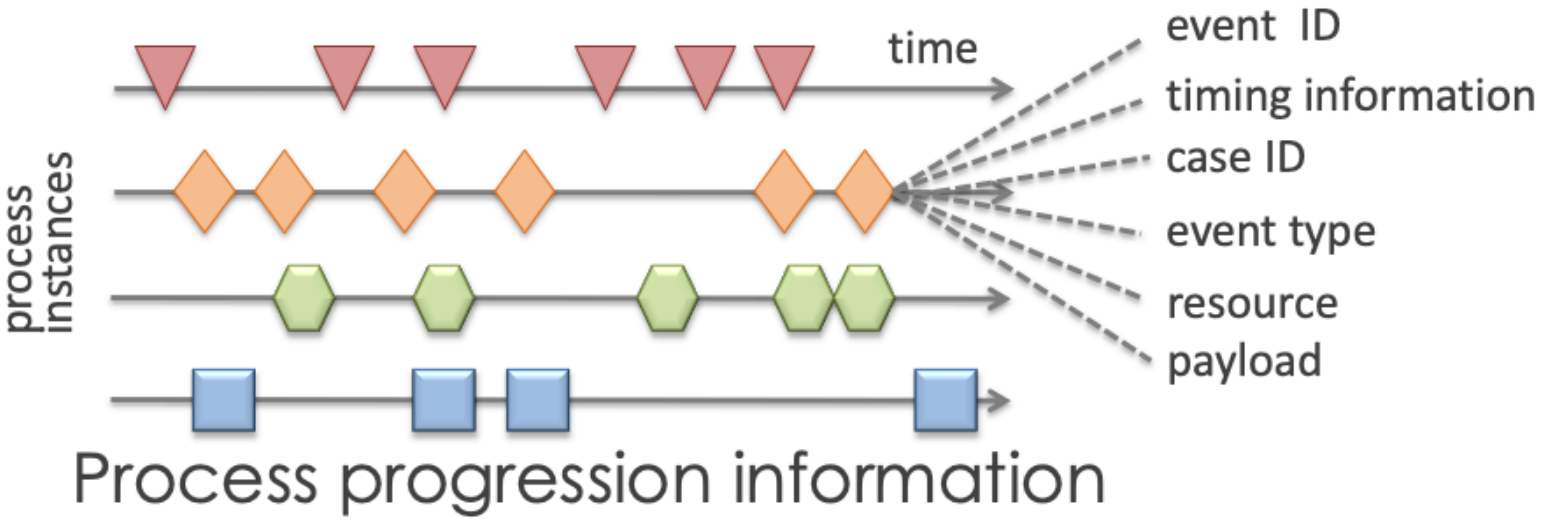
Tutorial / Demo: ProM Framework



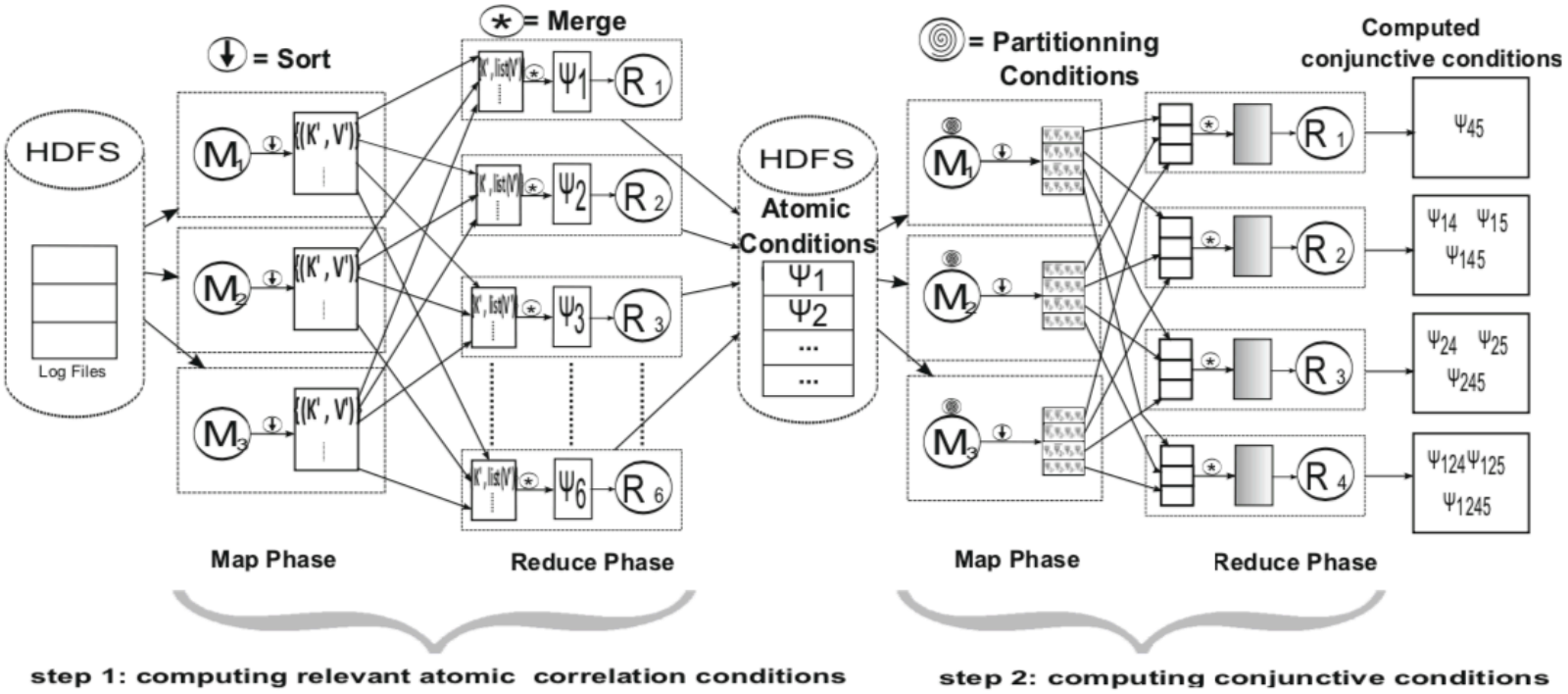
Challenges

- Huge event logs generated by process-aware information systems (**Volume**)
- Events generated at very high speed (**Velocity**)
- Heterogenous events (**Variety**)
- Are the events in the log legit / precise? (**Veracity**)
- Do we get access to all events generated by process-aware information systems? (**Visibility**)
- Are all events really relevant in the context of process mining? (**Value**)

Events and event correlation



Event logs and event correlations



(*) Reguieg et al., 2012, September. Using mapreduce to scale events correlation discovery for business processes mining. In *International Conference on Business Process Management*(pp. 279-284). Springer, Berlin, Heidelberg

Thanks