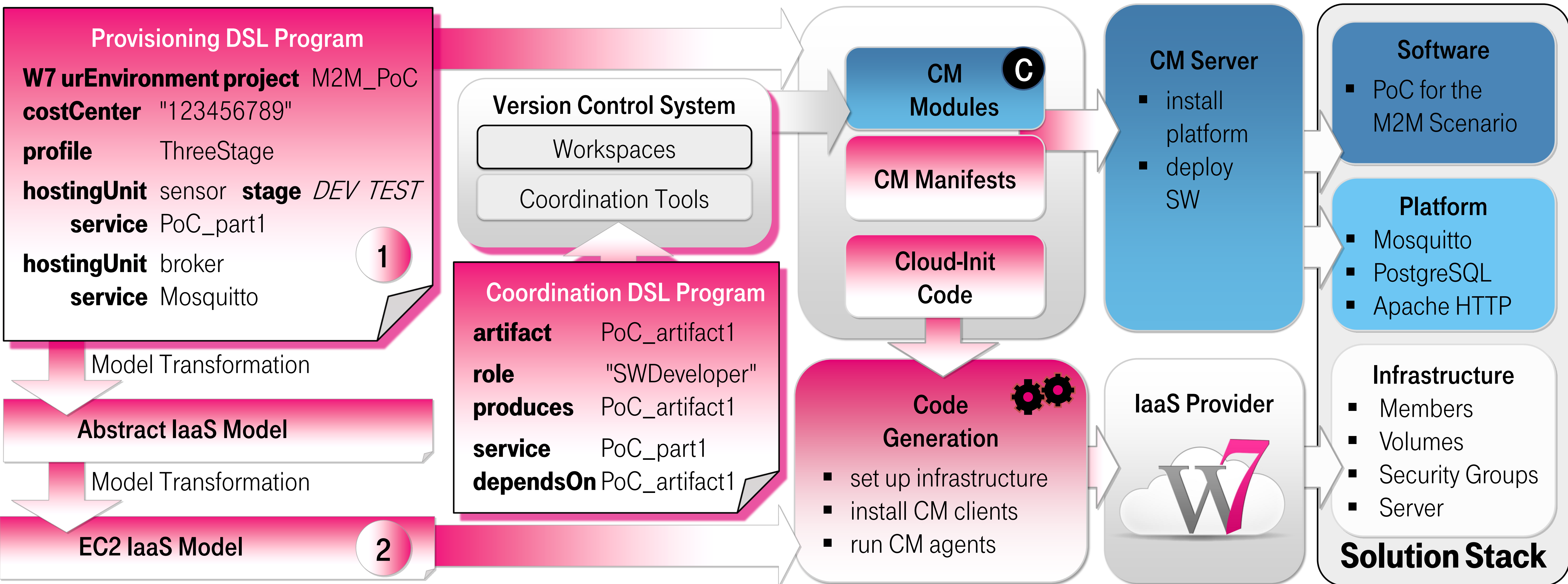
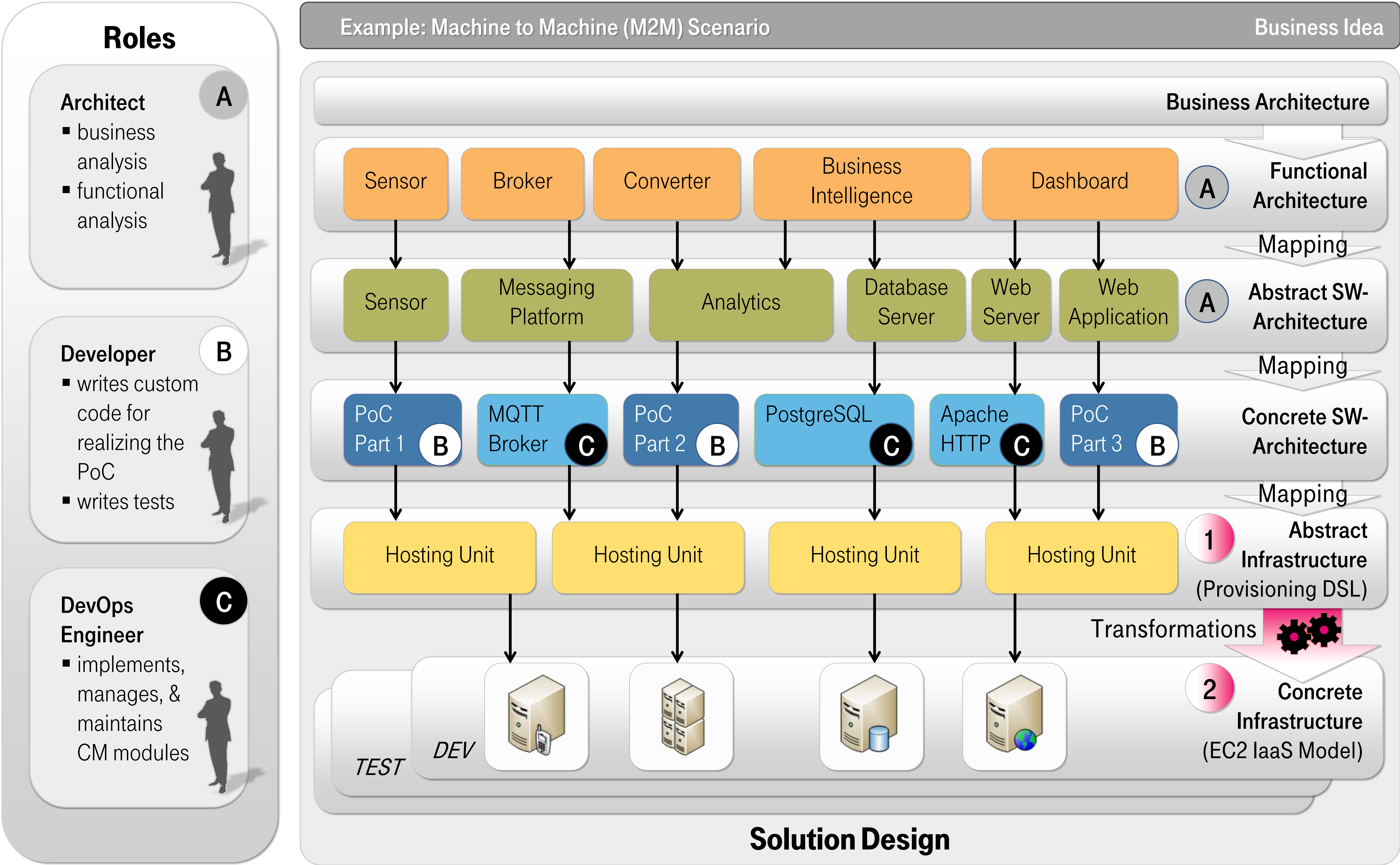


Facilitating Agile Prototyping of Cloud Applications — A Model-Based Approach

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Abstract—Modern cloud applications, generally, demand complex service topologies, e.g., for meeting scalability, maintenance, or security requirements. Thus, often, it is desirable to increase the complexity of service topologies in cloud applications. The required changes, however, may constitute a burden for improving cloud applications. Changes, overall, are undertaken frequently in prototyping or when adopting agile development. Their costs correlate with the number of people involved. For facilitating agile prototyping of cloud applications this demonstration presents a model-based approach incorporating different roles. Using, integrating with, and building on top of open-source projects, it comprises domain-specific language editors and showcases their use and the realized automation fostering iterative development. **Index Terms**—automation, agile, application, cloud, DSL, model-based, prototyping, provisioning, service topology



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