Model-driven engineering (MDE) plays a central role in many modern technology stacks. While MDE can help to improve software development and evolution, its tools are also subject to evolution and increasing complexity. This limits the application of MDE and is used to question their practicability and cost-effectiveness.

GECO addresses these issues of complexity, evolution and reuse for code generators as central element of MDE approaches. The solution provided by GECO is based on the following three approaches supported by tooling and frameworks:

1. Metamodel partitioning and modularization based on metamodel syntax and semantics
2. Modularization of generators along metamodel partitions into generator fragments
3. Modularization of fragments based on technical and semantical considerations

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