Model-in-Action is a tool suite that implements MDA® approach

The suite is composed of two major tools:
Mia-Generation, to build model-to-code translators
& Mia-Transformation, to build model-to-model translators

MIA-GENERATION: A TEMPLATE-BASED CODE GENERATOR

Mia-Generation performs translations on a model to generate files based on your architecture and framework. It provides continuity between analysis and design, and supports iterative cycles by preserving user-defined code fragments between successive generations.

Mia-Generation is open to any source model file format, and can be connected to major CASE tools (XDE™, Rose™, Together™, Rhapsody™, Argo™, and any XMI® compliant tool).

The generation rules are specified with:
- Templates (WYSIWYG scripts), which let you enter the text to be generated instead of programming the code
- Java™ scripts for more complex operations

Mia-Generation is integrated with major IDEs: Eclipse™, JBuilder™, Visual Studio™, BEA Weblogic Workshop™...

MIA-TRANSFORMATION: A MODEL TRANSLATION PROCESSOR

Mia-Transformation performs translations on a source model to create a target model. The mapping is specified by rules based on the source and target meta-models.

Mia-Transformation environment provides a graphical editor to specify the rules, and a code generator to generate the MOF™ components used to manipulate source and target models.

Mia-Transformation has been used in various domains, like:
- Application of design patterns
- Tools bridging (Rose™ to Erwin™, Statemate to Rhapsody™...)
- Mapping between graphical user interface models and UML® models
- Execution of process models within workflow engines
- Migration of legacy code to J2EE™ or DotNet™ technology

MODEL-IN-ACTION SUPPORTS OMG STANDARDS:

- The MOF (Meta Object Facility) to support any metamodel (not just UML)
- XMI (XML Metadata Interchange) to exchange models with CASE tools
- UML Profiles to support Domain Specific Languages