AM3 is intended to provide support for **modeling in the large**, i.e. managing global resources in the field of Model-Driven Engineering (MDE), basing the approach on the concept of a **megamodel**. These resources should be able to be accessed and used without increasing the accidental complexity of MDE. Thus, AM3 offers a generic and extensible way to create, store, view, access and modify the metadata on all the global entities (e.g. models) that may be involved in developing a complete solution.

**Basic Principles**

- **Megamodeling**: representing references to models and relationships between them as a model called a megamodel
- Deal with a high number of complex and heterogeneous modeling artifacts
- Use a megamodel as a metadata repository on all these artifacts
- Provide facilities to create, handle, manage and use the megamodel

**Potential Use Cases**

- Management of model transformations (single and composite)
- Management of Domain-Specific Languages (DSLs) and related artifacts
- Inter-model navigability/traceability
- Cartography of complex systems
- Management of software developments
- etc.

**Example AM3 Environment Features**

- The generic AM3 editor dedicated to transformation execution
- Support for:
  - Execution specification
  - Execution effective launching
  - Automated traceability
  - Execution recording

- The generic AM3 environment dedicated to inter-model navigability
- Support at:
  - Model-level
  - Model element-level (combined with model weaving)