The workshop papers showed a wide variety of model application in software development, including experiences in both academia and industry. Some tools to support modeling in software development were also presented. The general discussion at the workshop revolved around the following open questions:

- What is the value of modeling?
- To whom?
- In what situations?
- In what ways?
- What models?
- What is the conscious or explicit separation between Platform Independent Models (PIM) and Platform Specific Models (PSM)? What is meant by the term “platform independent models”? Can we really separate PIM and PSM?

We also developed a list of related issues:

- Many new keywords have been used in the workshop presentations, but they often mean similar concepts; what is the overlap between these concepts? Are there a key few that comprise a set of base concepts that we are building upon?
- Conformance testing of systems to their base models is an issue when semantic specifications intersect across systems, but concrete system instances may or may not intersect.
- Explicit support for transforming PIMs to PSMs is needed.

We concluded the workshop with a discussion of the research topics that we should address in order to make progress in answering the open questions and addressing the open issues we developed. These topics are also core Model-Driven Architecture (MDA) concepts and building blocks. The topics are:

- Meta-Object Facility (MOF)
  - Should we use it?
  - What is its place?
  - Where do purpose and policy lie in terms of MOF?
- Ontologies
  - What role can ontologies play in MDA technologies?
- Properties of models
  - Core properties versus constructed properties
  - Integration: what can be integrated? What do we lack?
- Platforms
  - What is a platform?
  - Is the distinction between PIM and PSM important?
- Viewpoints
  - What are relevant viewpoints; how they compose and communicate?
  - RM-ODP viewpoints (are they sufficient?)
- Meta-models
  - Federating different viewpoints?
  - Consistency, validation and verification, exception-handling
  - Semantics
  - Finding the correct meta-model (mix of structural and axiomatic concerns)
  - Functional conflicts – aspect weaving can help explore/identify such conflicts
- Transformations
  - Specification?
Common formalism? MOF? Other?
- Implementation technologies? e.g. MOF vs. profiles base for transformation?
- Directional? Should transformation types be distinguished at all?
- Relationship definition across resulting viewpoints.
- Refinement, re-factoring, and retrenchment of transformations and resulting models
- Are aspects a special type of transformation?

Composition of various types of transformations
- Transforming multiple viewpoints – composing viewpoints to produce a single comprehensive model

Other related questions:
- How much is the customer willing to “pay” for consistency and formal correctness? Tradeoffs have to be made and that determine the level of rigor (and areas of focus for such techniques). Completely formal approaches can be too rigid; completely informal approaches can lead to confusion over intent.

- MDA: standardization of domain-specific languages and mappings between different languages is needed; this issues is concerned with identifying terminologies and “framework” needed to support an MDA approach