Using Architectural Decisions  
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Introduction
One proposed way to advance the quality of Software Architecture is through architectural decisions: they reduce Architectural Knowledge (AK) vaporization.

Problem: Who uses architectural decisions and how?
We propose a knowledge management system, a Knowledge GRID, which contains AK. Using this system, the problem is reformulated:

Problem: Who uses the Knowledge GRID and how?
Solution: identify industrial needs and create a use case model for a Knowledge GRID

Conclusion
The use case model enables improvement of the quality of software architecture in the following ways:
- Less expensive system evolution.
- Enhanced stakeholder communication.
- Improved intrinsic characteristics of the architecture.
- Extended architectural reusability. Reuse of architectural decisions.
- Extended traceability between requirements and architectural models.

More information: http://griffin.cs.vu.nl/

Future work
- Ongoing validation of the UC model by performing case studies of specific UC at the interviewed companies.
- Validation of the UC model by external architects.
- A prototype of the Knowledge GRID.

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