

An Analysis of Techniques and Methods for Technical Debt Management: a Reflection from the Architecture Perspective

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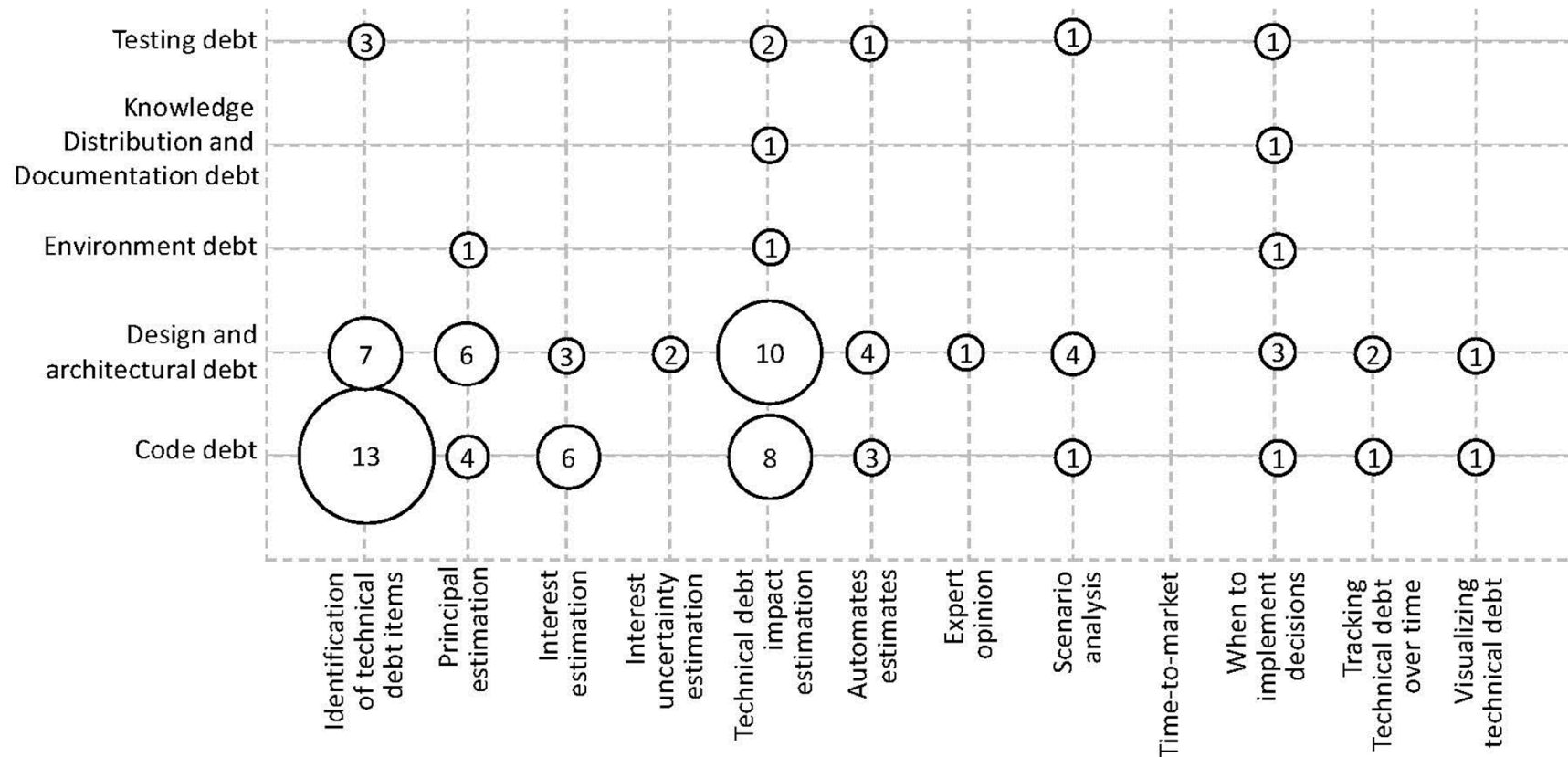
Second International Workshop on Software Architecture and Metrics
Firenze, May 16, 20015

Introduction and context

- Research context: use of architecture to help evaluate a product (to be commercial)
- Research context: Architecture as a product view: what's the value of product?
- Architecture at design time: as devised
- Architecture at development time: actual
- Need for indicators/predictors -> technical debt management helps



Technical debt management SMS

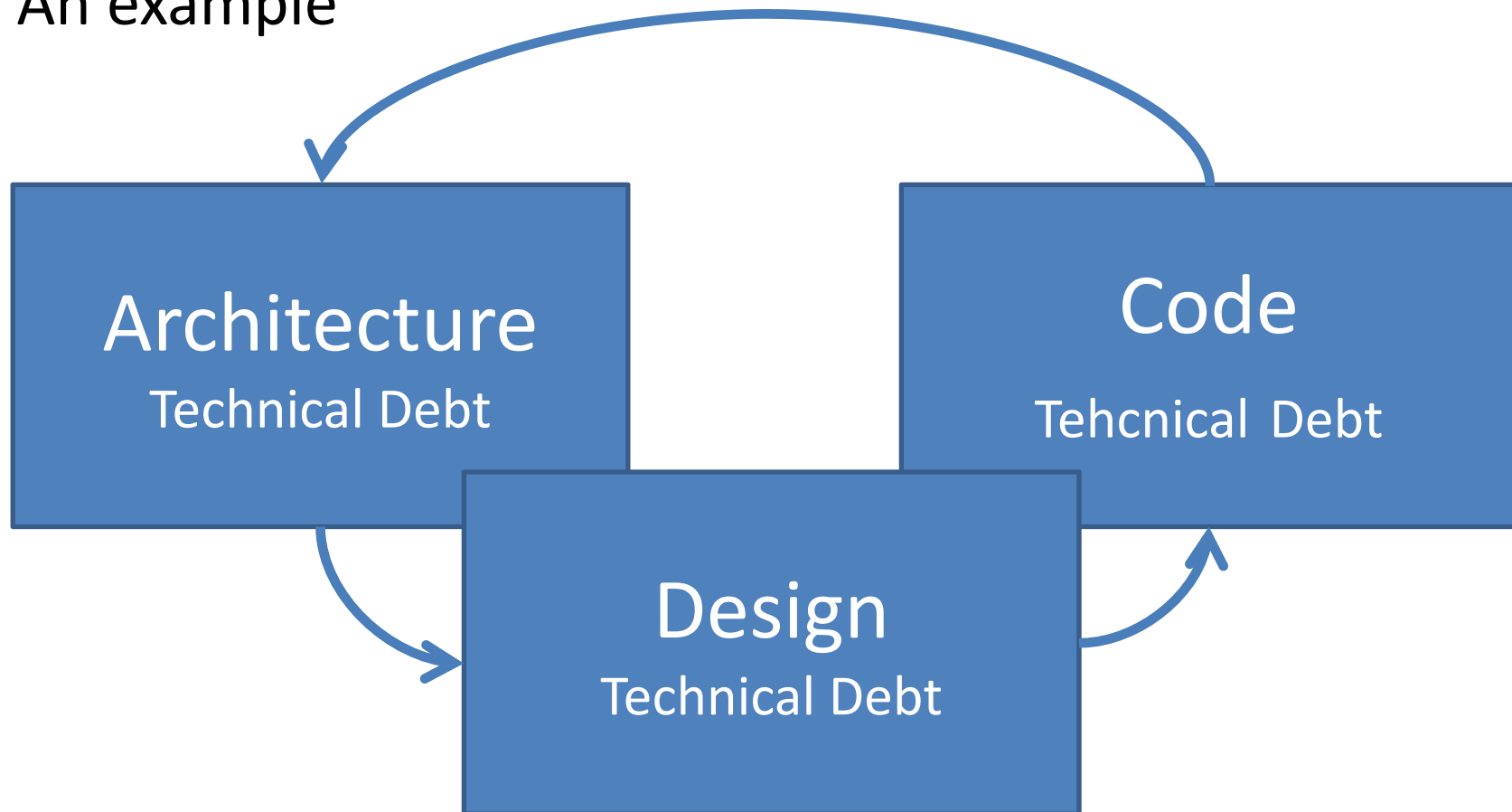


Paper main focus versus technical debt management theme



Interdependencies

An example



Useful concepts complexly related

- Time to market
- Uncertainty
- Release management

History, and future matters: scenarios

Lack of frameworks, guidance...

Issues

- Technical debt management is promising for **helping** characterize the **actual** product architecture
- We lack frameworks, it is difficult to apply technical debt management
 - How to work on the architecture side considering also (the history of) code

Discussion

- How can we make run in parallel technical architecture management and technical debt management ?
- How can we better “deploy” and “leverage” technical debt management for improving the characterization of architecture “as it is”?

Questions?

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