



Background:

- early phases in product development require support for decision making concerning variant- module- or concept-decisions
- methods and models do not continuously support analysis and synthesis of product architectures
- methods and models need to be adapted and combined to allow for the efficient and systematic derivation and comparison of different architectures

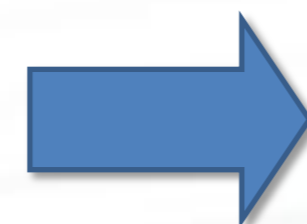
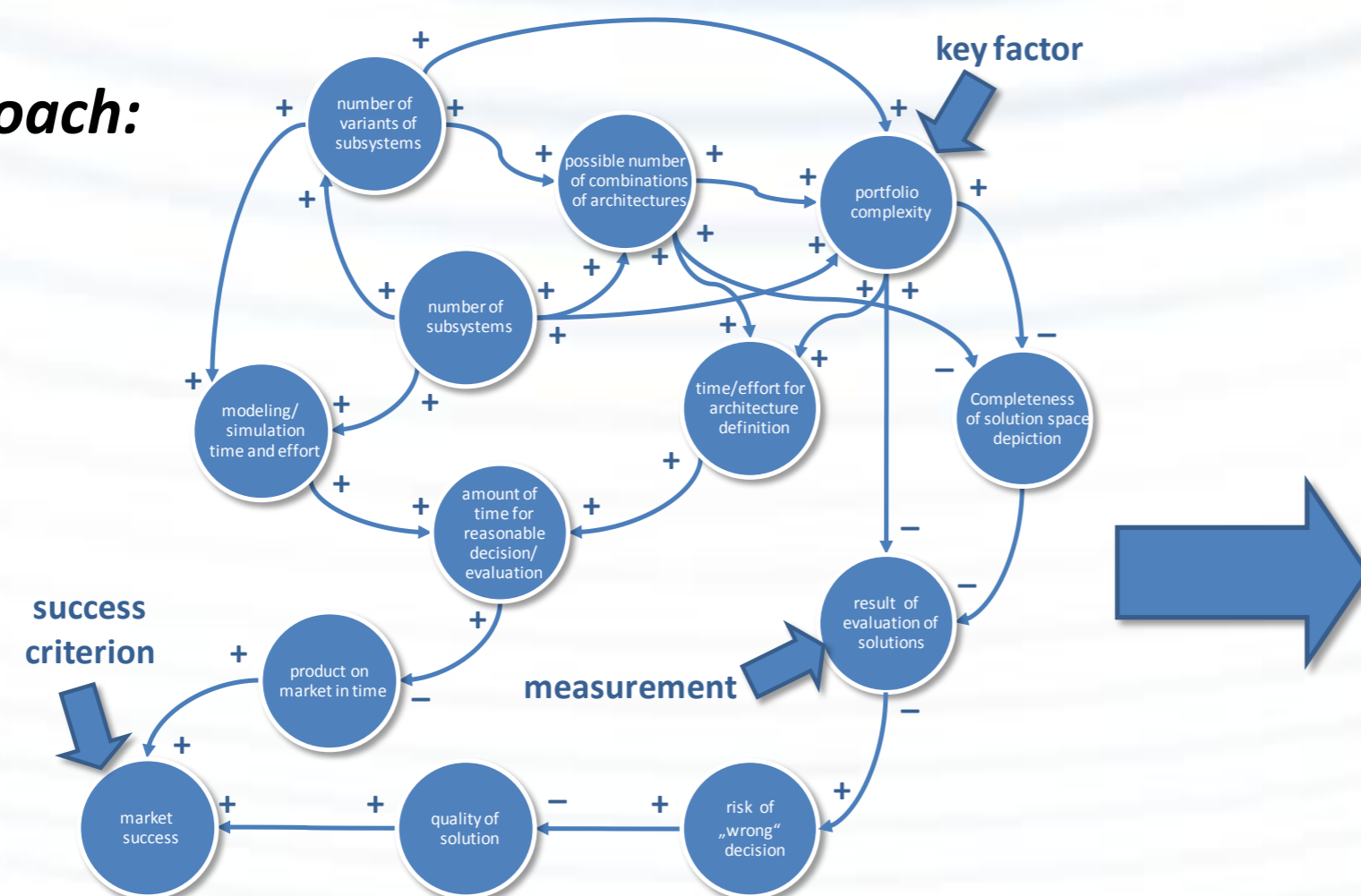


Research questions:

- What are similarities of different existing modeling methods?
- What methods allow for an integrated analysis and synthesis?
- How can supporting models be transferred to different phases?



Research Approach:



Expected results:

- methods and tools for the support of product architecture definition in early phases of product development
- new directions in the development and utilisation of modeling, analysis and synthesis techniques
- proof of concept and generalization by application in different fields of engineering design and business management

