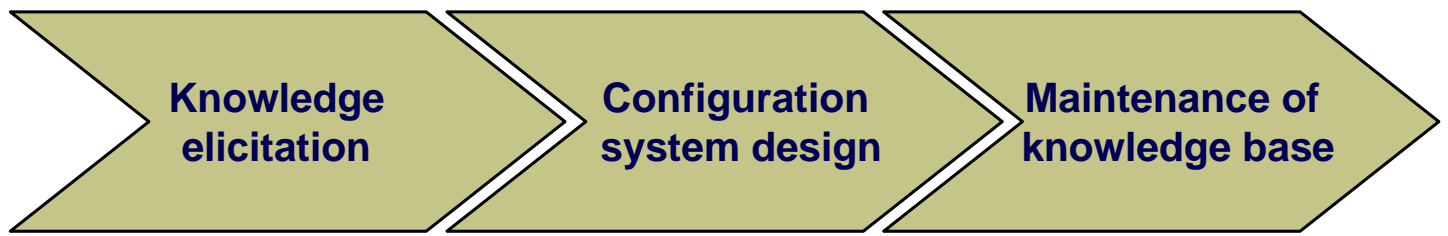




Modelling product knowledge

- as a basis for building and maintaining product configuration systems



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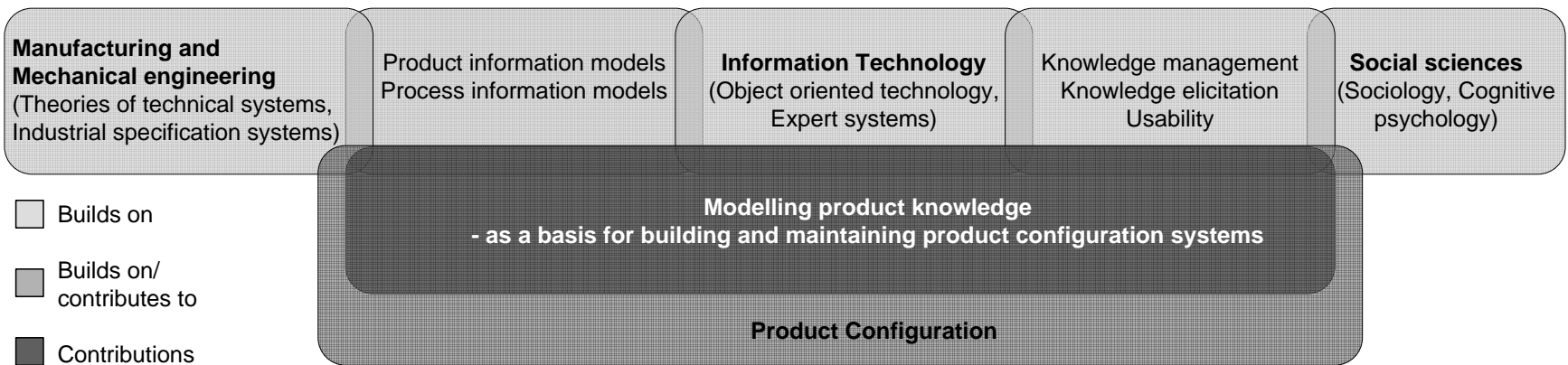
Modelling-related problems in product configuration projects

- Many resources spent on making product knowledge explicit
- Failure (or limited benefits) of projects due to problems in formalising knowledge
- Redundancy in tasks related to development and documentation
- Lack of IT-support makes modelling and documentation of product models resource-demanding
- Lack of documentation of product models makes it difficult/impossible to update the knowledge base
- Lack of methodical support for usability aspects of product configuration systems
- Lack of methodical support for modelling 3D configuration systems
- Lack of methodical support for modelling embedded configuration systems

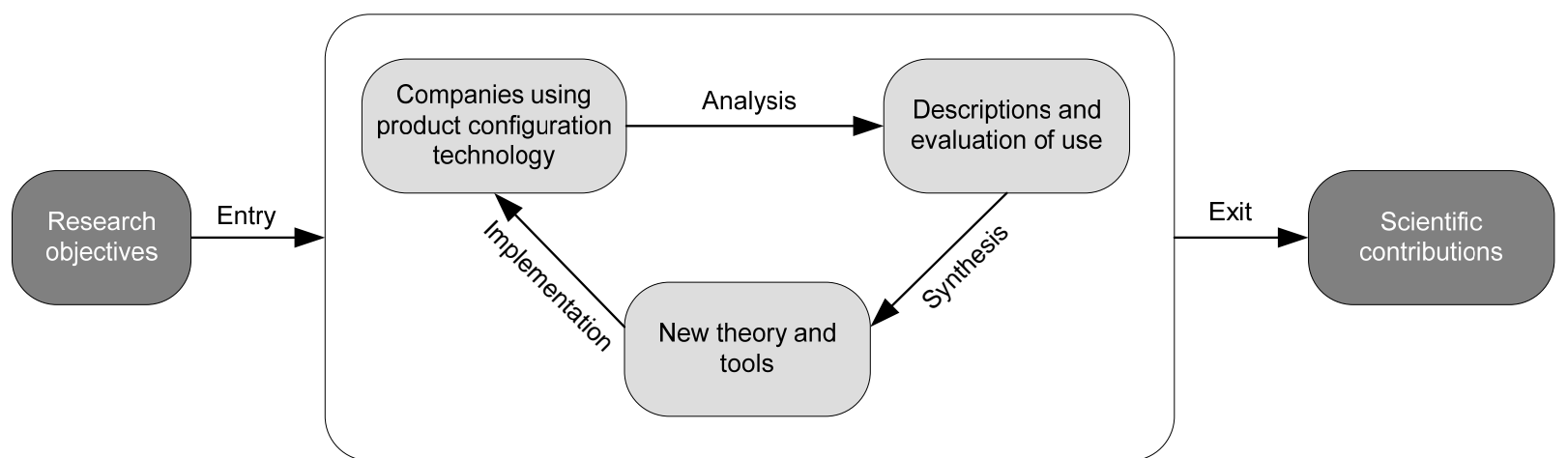
Purpose

Evolve models, methods, techniques and tools for modelling of knowledge - as a basis for building and maintaining product configuration systems

Theoretical foundations



Scientific approach



Contributions of PhD project:

- 1) Notation techniques for product analysis with increased usability and utility
- 2) Methods and techniques for achieving increased usability of product configuration systems
- 3) Guidelines for case specific use of modelling-techniques when building product configuration systems
- 4) Specification of an IT-based modelling and documentation system
- 5) Better understanding of product knowledge modelling processes in product configuration projects
- 6) Guidelines for modelling 3D configuration systems
- 7) Guidelines for modelling embedded configuration systems

Impact model

Basic observation: Several studies have shown that there can be achieved great benefits from the use of product configuration systems (PCS) for different kinds of companies

