

Research Question and Hypothesis

by *Gerrit Muller* University of Southeast Norway-NISE

e-mail: gaudisite@gmail.com

www.gaudisite.nl

Abstract

The research question and objectives with respect to architecting methods are defined. The scope is product-family and product level primarily. An hypothesis is formulated, that is based on a multi-view framework allowing many submethods to be used. Criteria for architecting methods are articulated.

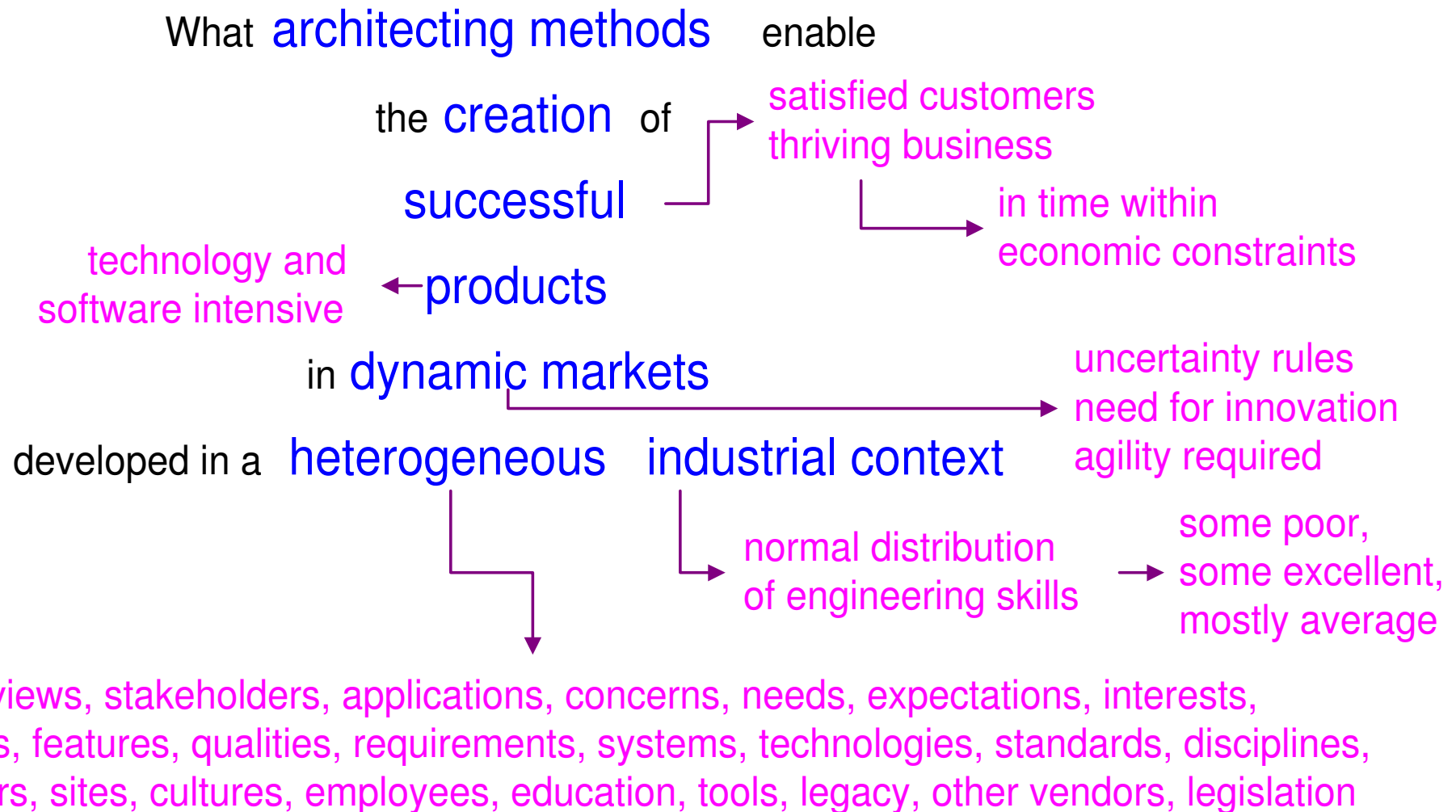
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| research question | What architecting methods enable the creation of successful products in dynamic markets developed in a heterogeneous industrial context |
| hypothesis | A rich collection of submethods fitting in a multi-view framework complemented with reasoning methods enables successful architecting of technology and software intensive complex systems in heterogeneous environments by means of generic insights grounded in specific facts |
| criteria | <ol style="list-style-type: none">1. product is a commercial success2. product family is sustainable commercially successful3. architect benefits from deploying submethods4. project leaders, product managers and engineers are able to use the outcome of the submethods |

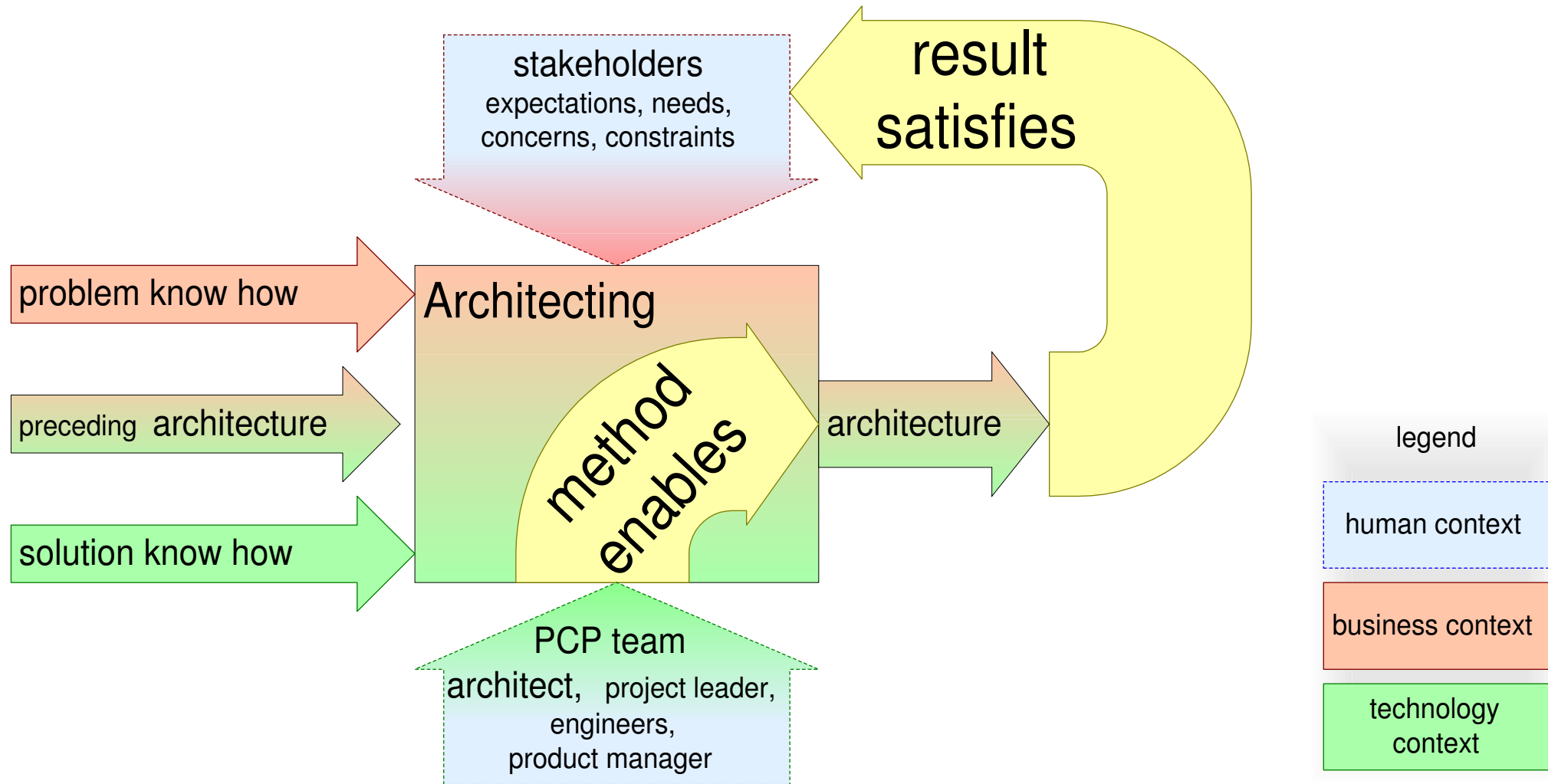
Research question



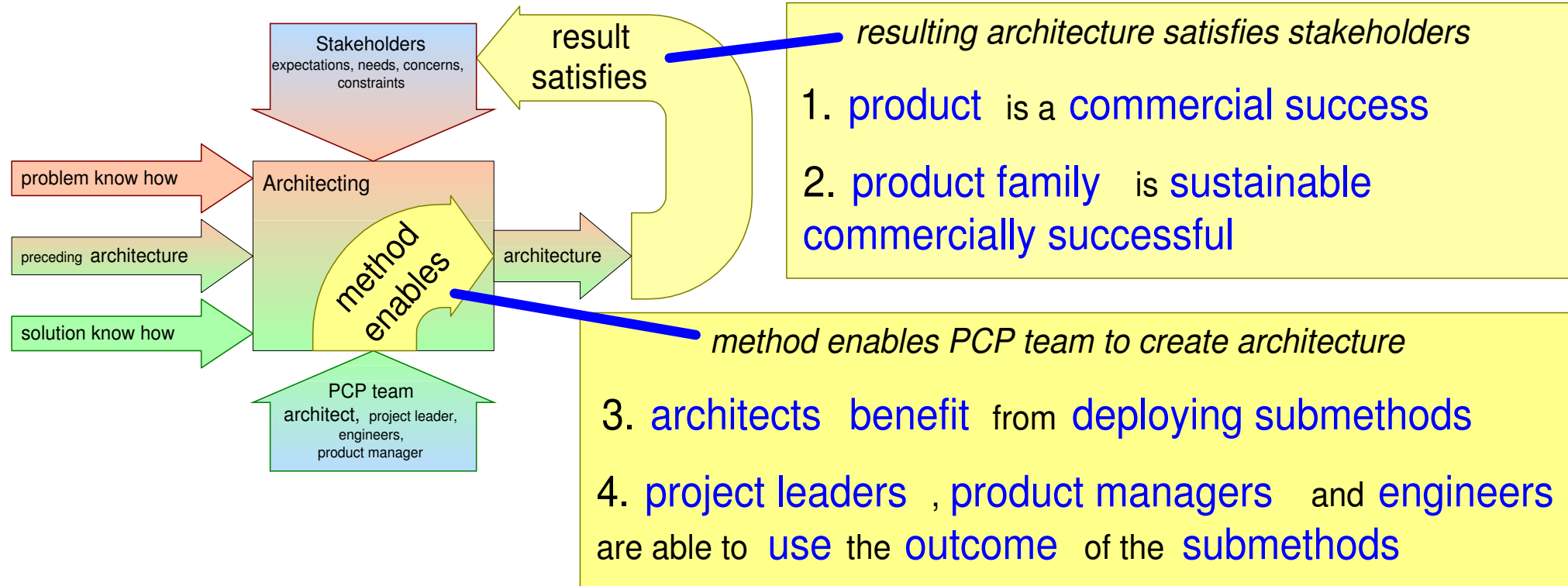
Hypothesis

A **rich collection** of **submethods** fitting in a **multi-view framework**
complemented with **reasoning methods** enables **successful architecting** of
technology and **software intensive complex systems** in **heterogeneous environments**
by means of **generic insights** grounded in **specific facts**

Successful architecting and architecting method



From hypothesis to criteria



Overview

research question

What **architecting methods** enable the **creation** of **successful products** in **dynamic markets** developed in a **heterogeneous industrial context**

hypothesis

A **rich collection** of **submethods** fitting in a **multi-view framework** complemented with **reasoning methods** enables **successful architecting** of **technology** and **software intensive complex systems** in **heterogeneous environments** by means of **generic insights** grounded in **specific facts**

criteria

1. **product** is a **commercial success**
2. **product family** is **sustainable commercially successful**
3. **architects benefit** from **deploying submethods**
4. **project leaders** , **product managers** and **engineers** are able to **use** the **outcome** of the **submethods**