

Reflection applied on Systems Architecting

by *Gerrit Muller* University of South-Eastern Norway-NISE

e-mail: `gaudisite@gmail.com`

`www.gaudisite.nl`

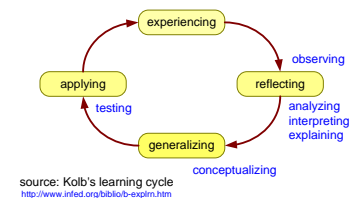
Abstract

Reflection facilitates the learning process. We discuss a simple reflection model and provide some means for reflection.

Distribution

This article or presentation is written as part of the Gaudí project. The Gaudí project philosophy is to improve by obtaining frequent feedback. Frequent feedback is pursued by an open creation process. This document is published as intermediate or nearly mature version to get feedback. Further distribution is allowed as long as the document remains complete and unchanged.

August 16, 2025
status: preliminary
draft
version: 0



Colophon

Merete Faanes from Buskerud University College created the educational flow *Reflective Practice*. Reflective Practice is a thread throughout the entire master Systems Engineering to stimulate students to relate *Education and Practice*.

These workshops are the result of the cooperation of Merete Faanes and Gerrit Muller

When to Reflect

Reflection
Before
Action

*anticipation
preparation*

Reflection
In Action

concurrent

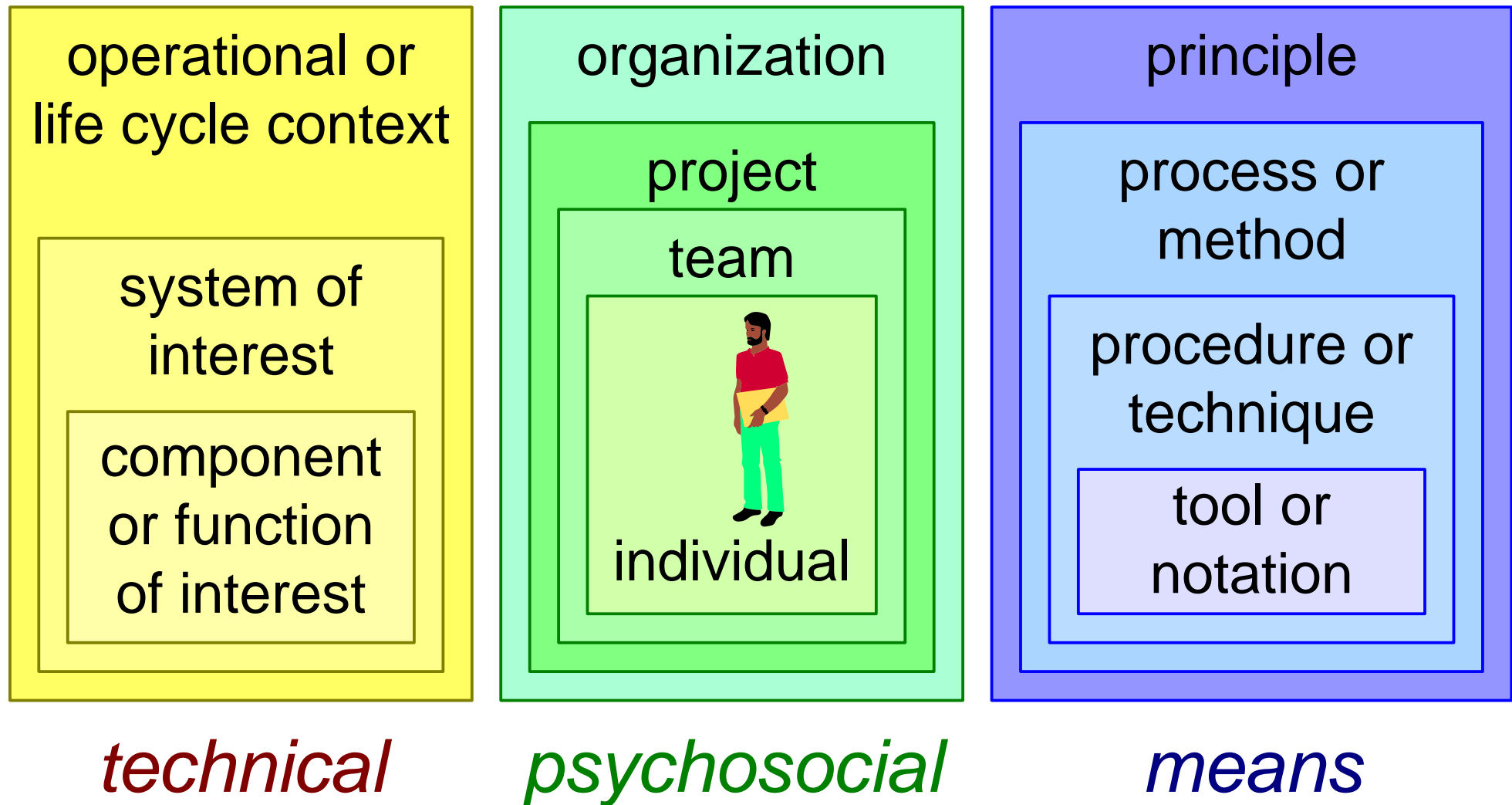
action

Reflection
On Action

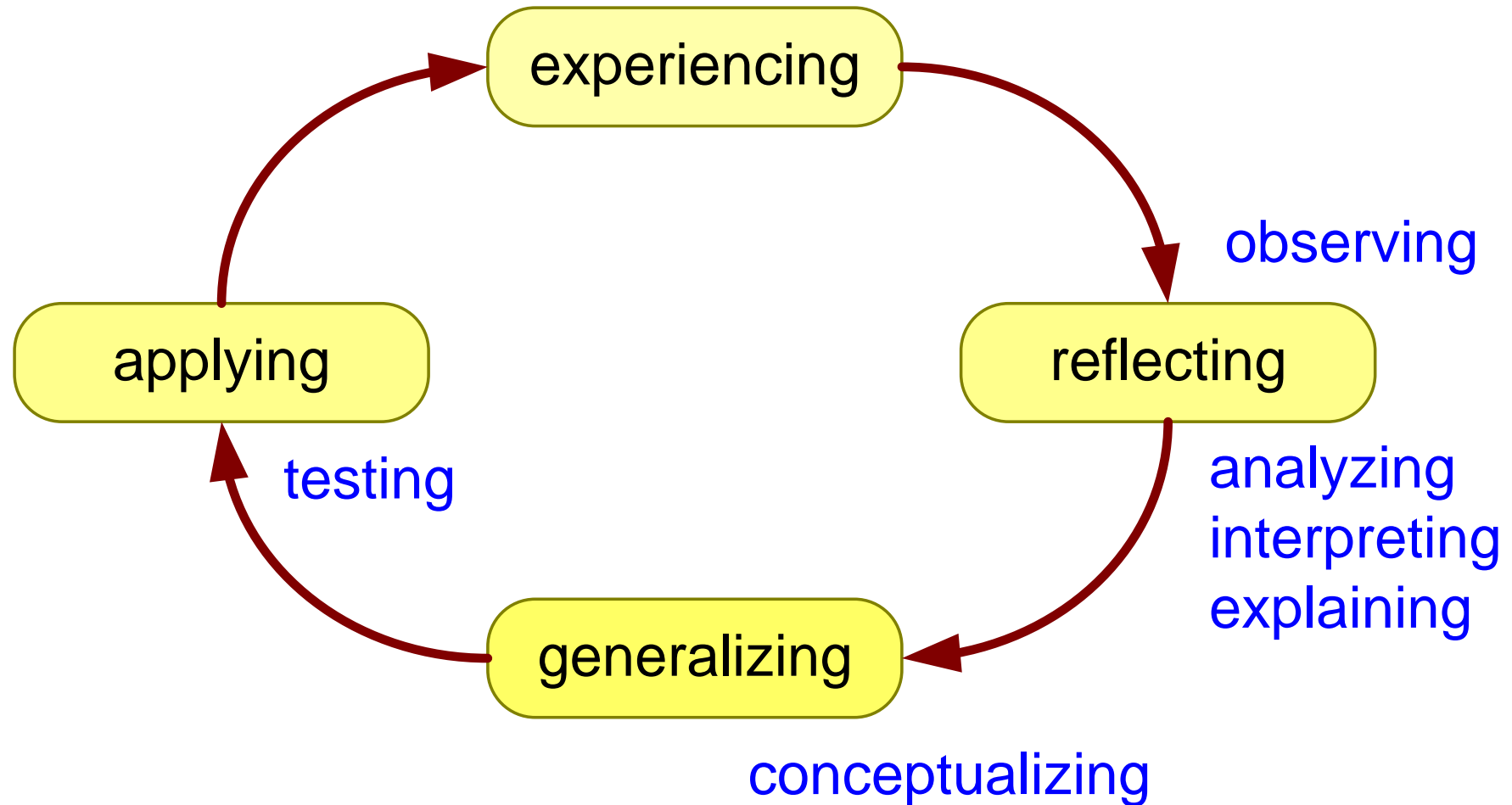
retrospective

— time —>

Scope: What to Reflect on



Reflection Cycle



source: Kolb's learning cycle

<http://www.infed.org/biblio/b-explrn.htm>

Example of Reflection Questions

What stakeholders are involved?

What are their needs and concerns?

What is our goal?

How did we get in the current situation?

What is going well, what is going bad?

What approach can we take?

What do we expect to happen?

et cetera

Recommended Reflection Report Content

subject or goal

description of your experiences

analysis

lessons learned

actions as follow-up

avoid broad generic statements

illustrate with specific examples