

KUALI-BEH: Software Project Common Concepts

KUALI-BEH describes the kernel of common concepts involved in software projects and their relationships. KUALI-BEH is a Mexican response to OMG RFP *A Foundation for the Agile Creation and Enactment of Software Engineering Methods* [1]. KUALI-BEH is based on the knowledge obtained from recognized sources and the experience of the definition of software development standards [2] [3] [4].

Software Engineering practitioners, actively involved in software projects, are the target audience of this document. Also method engineers, in charge of the existent and recommended working definitions, are another group who may benefit from this proposal.

KUALI-BEH is composed of two views: the static and the operational.

The **static view** provides a framework for the definition of the practitioners' different ways of working. These ways of working are arranged as methods composed by practices. This knowledge makes up an infrastructure of methods and practices that can be applied by practitioners.

The **operational view** is related to the software project execution. This view provides the work team with mechanisms to enact a method and adapt its practices to the specific context and stakeholder needs.

The KUALI-BEH common concepts are applicable to define methods and practices independently of the size and complexity of the projects, the lifecycle model or the technology used.

Figure 1 shows the global structure that makes up the KUALI-BEH proposal.

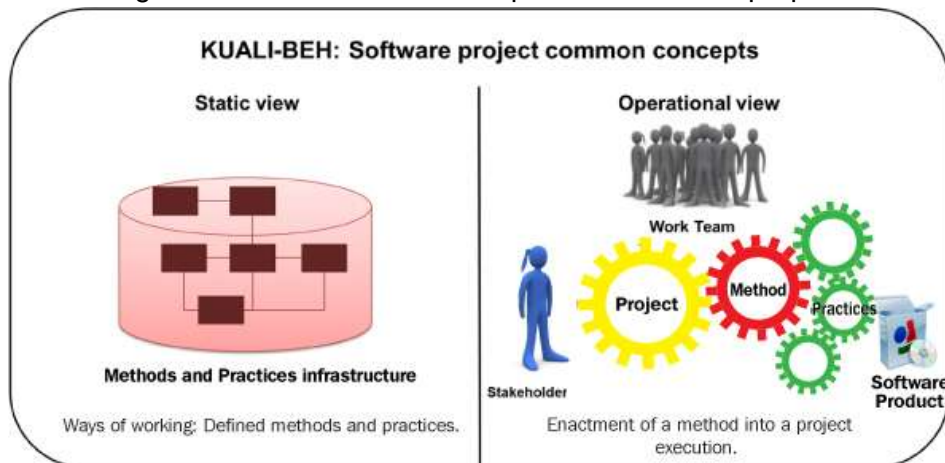


Figure. 1. KUALI-BEH Static and Operational view.

References

- [1] A Foundation for the Agile Creation and Enactment of Software Engineering Methods,
<http://www.omg.org/cgi-bin/doc?ad/2011-6-26> 16/05/11
- [2] Oktaba, H., García, F., Piattini, M., Pino, F., Ruíz, F., Alquicira, C.: **Software Process Improvement: The COMPETISOFT Project**. IEEE Computer, Vol 40, No. 10 (2008)
- [3] **Mexican National Standard** NMX-I-059-NYCE-2005 Modelo de Procesos para la Industria del Software (MoProSoft) (2005)
- [4] Standard ISO/IEC 29110-5-1-2 Software engineering -- **Lifecycle profiles for Very Small Entities (VSEs) – Management and Engineering Guide: Generic profile group: Basic Profile**,
http://standards.iso.org/ittf/PubliclyAvailableStandards/c051153_ISO_IEC_29110-5-1-2_2011.zip (2011)