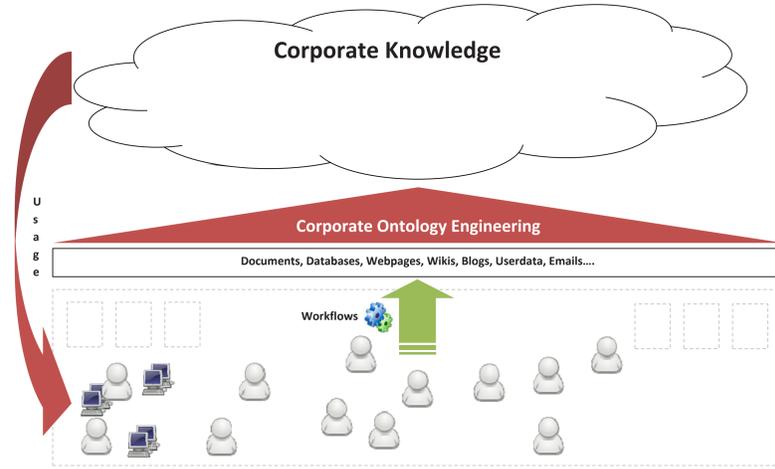


Motivation

Although recent ontology engineering methodologies might be well thought out, we miss an adequate support for the economic-driven needs of companies and a context-dependent point of view. Corporate settings are characterized by a complex IT infrastructure, which provides various contents, such as documents or databases (domain context). Ontologies, as knowledge representation artifact in this setting, should respect the agility of the evolving knowledge of the whole context.



Approach

We present an innovative two parts ontology lifecycle, which has been concluded from requirements that we derived from the Lekapidia case study. This lifecycle separates engineering tasks from ontology usage and aspires a minimal effort of corporate human resources and a reduction of engineering tasks. The integrity of the rapidly released ontology prototypes is reached by an innovative tracking mechanism, which enables an automatic, implicit improvement of the conceptualization.

Corporate Ontology Engineering Settings

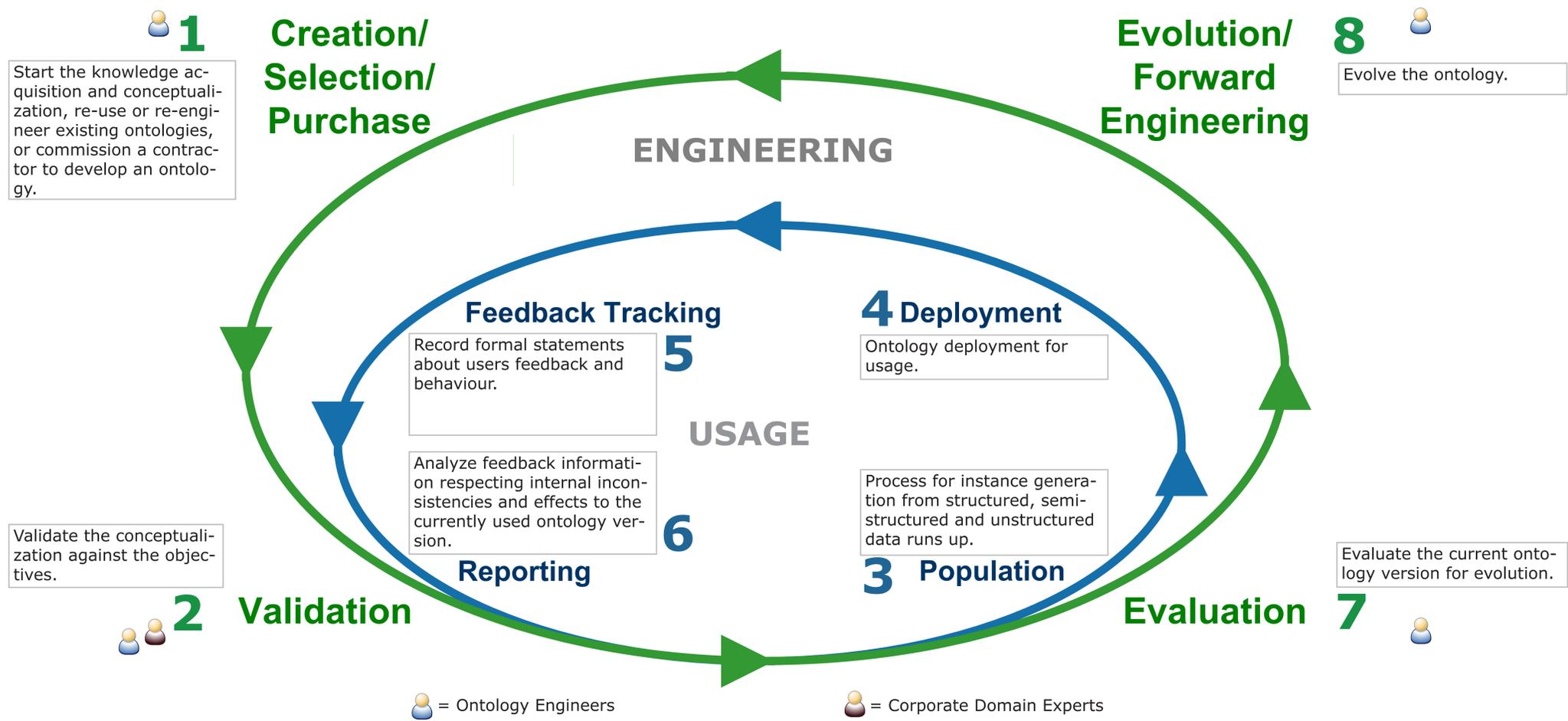
Central allowance and control of the conceptualization

Existing rules and workflows for employees

Limited availability of domain experts for engineering tasks

Trust in semantic annotations

The Corporate Ontology Lifecycle



Vision and Outlook

We aim at an extension of this approach towards an innovative architecture for ontology lifecycle management in corporate contexts. This architecture is carried by an ontology versioning mechanism, which makes use of an innovative knowledge tracking model to facilitate cost-effective, agile knowledge evolution. The lifecycle is designed to allow a cost-benefit-estimation in the forefront of each engineering iteration. A cost-benefit-estimation model for this purpose will be developed in the future.

