

Bachelor Assignment Knowledge Management in the Civil Engineering Industry

Context

Eluxis B.V. is a company in Enschede and active in the area of knowledge management (www.eluxis.com). The company works for businesses in which people and their knowledge determine success. Together with clients, Eluxis ensures that the right information is available, that it is used effectively and that it is safeguarded. To do this, they help set up a living knowledge organization together with their clients; they take care of documenting and transferring essential information and deploy the proper knowledge systems. In this manner, knowledge becomes the basis for business results. However, many organisations do not pay sufficient attention to their knowledge management. Because of this, problems occur such as new employees that cannot be adequately trained, reinventing the wheel, errors that can have a serious negative effect and impact on business. In contrast, organisations that do have an adequate knowledge management system in place perform noticeably better.

The assignment

Eluxis sees opportunities for knowledge management in the civil engineering industry. For example by capturing knowledge on how to control the operation of bridges and locks, but also by gathering and managing design knowledge so that it can be reused. However, the civil engineering industry is relatively new for Eluxis. Therefore, Eluxis is looking for a Bachelor student who can:

- Map the current state of the art with regard to knowledge management in the civil engineering industry;
- Develop an evidence-based knowledge management approach/model/instrument tailored to the civil engineering industry.

Activities include, but are not limited to:

- Literature review: provide an overview of what is already known on knowledge management in literature, and in particular within the context of the civil engineering industry;
- Analysis of practice: investigating what is already done in practice on KM in the civil engineering industry. This can be done with for example interviewing organisations, studying a project, and/or analysing documents;
- Development: developing a first draft of a knowledge management model/instrument for the civil engineering industry by combining theory and practice (evidence-based).

Supervision

Dr. ir. R.S. de Graaf (r.s.degraaf@utwente.nl) in collaboration with Eluxis B.V.

Schedule (2020)

Q3 (Feb – April 2020): Company available for discussing the project (Module 11)

Q4 (May – July 2020): You are located/hosted at the company to conduct the research (Module 12)