

Organisation: Société wallonne des eaux

Name, position: Dr. Ir Ph. Beaujean, Hydraulic expert, Ir J. Plancke, Hydraulic expert, Ing S. Denooz, Chemical - process expert, Ir B. Pevée, Energy expert, X. Stassart, Technical quality expert, Ir J-Y. Simon, Director of studies and expertise

Feedback from a systemic approach for the development of the water production master plan of the municipalities of the East of the province of Brabant Wallon, Belgium.

Main findings

- Use of a systemic approach based on a design thinking method and hydraulic models to define a water production master plan.

Summary

SWDE's position as a major player in the water sector in Belgium means it is responsible for putting in place master plans to secure the water supply for Walloon municipalities, taking into account the infrastructures of other players in the field. To do this, it was necessary to think global and to have an integrated approach, to analysing the existing situation, to identify the problems and to define the major orientations for the future design of the framework of the new efficient water supply in Wallonia.

Methodology

Our methodology relies on the use of a design thinking approach, originally defined to promote innovation, combined with hydraulic models. It helps to understand the needs of the study area, to explore the potential scenarios and to test and implement prototypes through modelling.

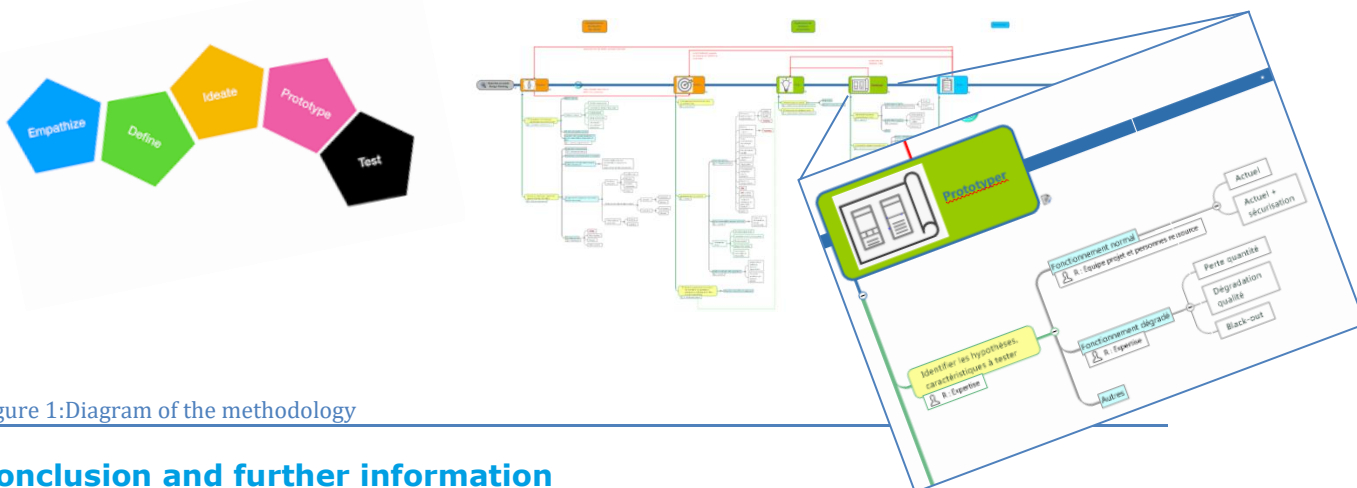


Figure 1: Diagram of the methodology

Conclusion and further information

The systemic approach allows us to evaluate scenarios and define the optimal investments to be made while considering how to operate them to ensure a quality and efficient water supply.

- Dr. ir Philippe Beaujean, philippe.beaujean@swde.be