

# Journaling Design Science Research

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## Motivation

Design Science Research (DSR) is a highly context-dependent and iterative process. Every single DSR project follows its own process on the instance level. Furthermore, research has emphasized the evolutionary nature of DSR. However, in publications, it is difficult to account for the evolutionary and accumulative nature of design research due to space limitations.

In this research project, we aim to increase the transparency and accessibility of the design processes and the actual strategy of inquiry used to arrive at the design knowledge.

## Method

We follow the DSR methodology to address a real-world challenge through developing design principles and iterating over the generated artifacts and their evaluations and deliver the following:

- Design of a Meta-Model in order to conceptualize design-oriented research processes.
- Design of a publicly available tool supporting design-oriented researchers called [MyDesignProcess.com](https://mydesignprocess.com)

## Publications

Gau, M., Maedche, A., & vom Brocke, J. (2022). DSR Buddy: A Conversational Agent Supporting Design Science Research Activities. *Wirtschaftsinformatik 2022 Proceedings*. [https://aisel.aisnet.org/wi2022/prototype\\_track/prototype\\_track/35](https://aisel.aisnet.org/wi2022/prototype_track/prototype_track/35)

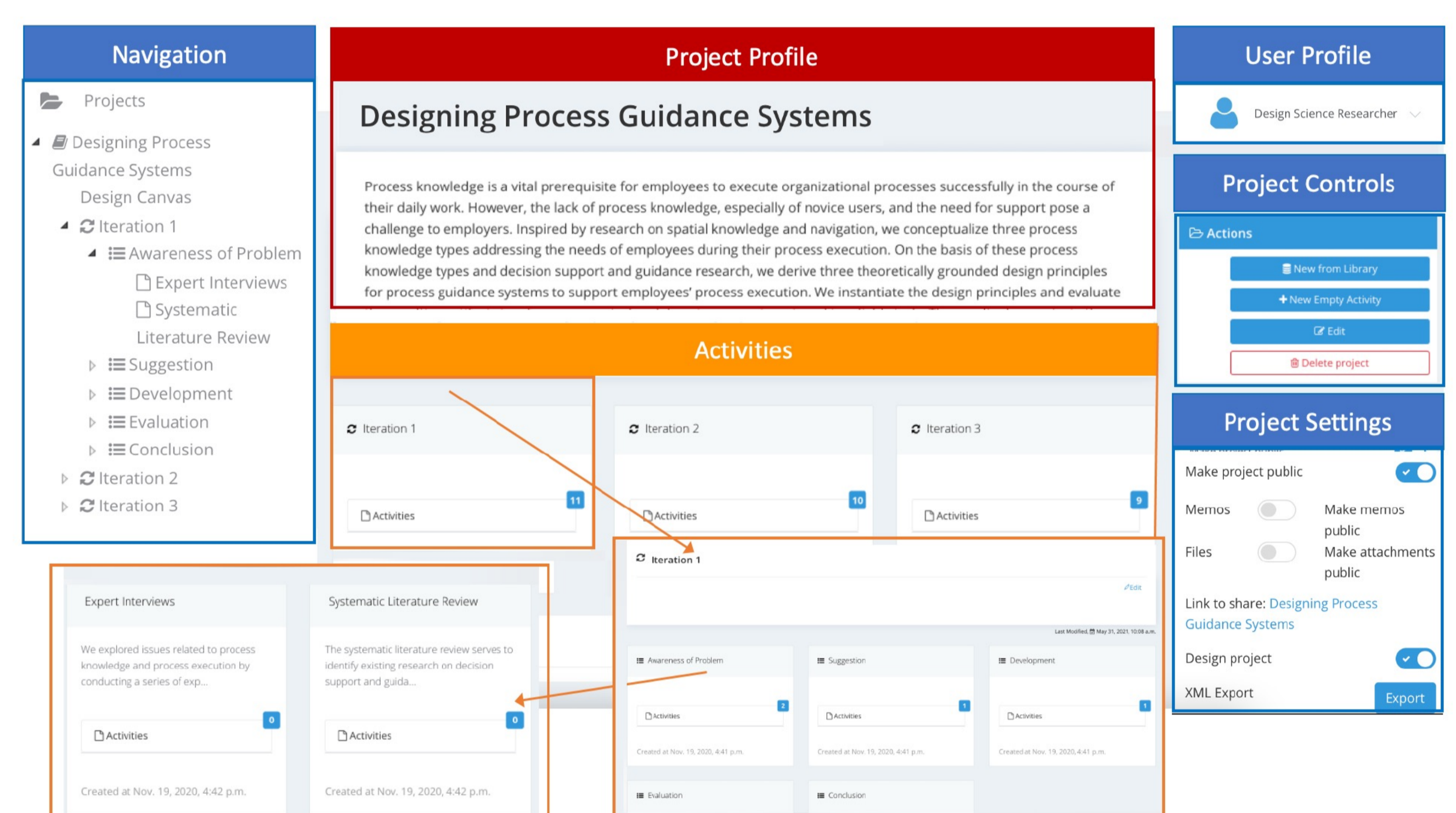
vom Brocke, J., Gau, M., & Mädche, A. (2021). Journaling the Design Science Research Process. Transparency About the Making of Design Knowledge. In L. Chandra Kruse, S. Seidel, & G. I. Hausvik (Eds.), *The Next Wave of Sociotechnical Design* (pp. 131–136). Springer International Publishing.

## Project Partners

## Results

We deliver design knowledge for research process transparency and accessibility in DSR projects in order to:

- Support better planning, communicating, and reflecting upon research activities.
- Allowing for more rigor in DSR and all design knowledge derived as the results of specific design processes.
- Make an important contribution to the discourse of open science and research transparency in DSR.



An Example of a DSR journal using MyDesignProcess