



DREAMS

Digitally supported Environmental Assessment for Sustainable Development Goals



Digitalising environmental assessments

Environmental assessments (EAs) are applied worldwide as an important decision support tool in the development of numerous types of projects and plans. Current practices do, however, have drawbacks as highly manual, time-consuming and inefficient EA processes. Building on experiences from international frontrunners on digitalization, DREAMS utilize the potentials of digitalization to develop novel tools that as open-access platforms will support societal actors in improving EAs practices and thereby promote a more sustainable development.

Problems

- Lack of easy access to data and reports.
- Extensive EA reports due to broad scoping.
- Highly manual and time-consuming EA processes.
- SDGs not operational for EA practice.

DREAMS objectives

- Making previous reports and background data accessible and searchable for EA actors.
- Synthesising experiences from past reports through data mining.
- Integrating SDGs in EA.

Expected effects

- Integration of measures to reduce GHG emission by 15-50%.
- More focused EA reports resulting in a cost reduction of 10-20%.
- Massive market potentials for Danish actors due to digitalization advantages.

The innovative DREAMS tools

The most novel tool is the CAUSA tool, which will synthesise experiences from thousands of EA reports and relevant research in a public platform. Using possibilities within NLP and advanced knowledge extraction methods, CAUSA will provide users with an overview of how similar activities in a specific geography were assessed, including significant aspects and characteristics of impacts and mitigation measures. Furthermore CAUSA will make it easy for the user to understand contributions to SDG, including interlinkages.

