

Digitalisation as a tool for sustainable architecture?

# SURAP

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SURAP - Sustainable Resource Application is a scientifically based life cycle assessment tool for climate- and resource-friendly construction, which architects and specialist planners can use to determine and evaluate the climate impact and resource consumption of buildings themselves. The tool is offered by the company of the same name and is owned by a non-profit foundation. [www.surap.de](http://www.surap.de)

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# Background

SURAP presents environmental impacts in the building sector using key figures. Relevant knowledge is quickly made available in the form of processed data. The SURAP software solution reads out the respective components and component layers directly when creating a building model. Planners use the tool independently by individually selecting materials for the respective layers when creating a building model. In addition to the usual certification indicators according to DIN EN 15804, the generated results are mapped in the form of environmental footprints (climate, energy, material, water), then compared and optimized. The results can be exported and further processed as an Excel spreadsheet. SURAP provides a life cycle assessment at the same time, so that you know the climate impact of your own plans at an early stage. The tool makes it much easier to change previous plans. A web tool that imports IFC data is being planned as a supplement to use with the Revit software.

## What?

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- Presentation and evaluation of environmental impacts using key figures
  - Goal: simple life cycle assessment on a model basis
  - Output of the life cycle assessment tool
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## Who?

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- Architects
  - Specialist planners
  - Universities (integration into teaching)
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## When?

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- From the moment a 3D model is available
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## How?

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- Use via Revit software; an IFC-based web tool is being planned
  - Basis: Ökobaudat plus own database with additional information
  - Product-neutral application
  - License model; basic version as open source
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