

Interactive 3D building overview with CO₂ tracking in SAP Analytics Cloud

The Starting Point

A German real estate group faced the challenge of making its building portfolio and its carbon footprint accessible in a centralized, transparent, and mobile-friendly manner.

While the existing BI tools were capable of displaying standard metrics, they lacked:

- Interactive, geographic visualizations, particularly those related to buildings and land areas
- A mobile and intuitive solution that can be used by field staff or management without the need for training
- The ability to flexibly filter and analyze CO₂ data and other KPIs at the individual building level

The Challenge

The customer wanted to make his SAP BW-based SAC solution, which includes reports on the building inventory, accessible on mobile devices. The goal was to create a map view in the SAC with drill-down functionality down to the building level, including satellite images. However, due to technical limitations, the mobile SAC only supports static area cartograms that do not respond dynamically to filters. Instead, the drill-down is performed manually through the hierarchy levels (e.g., state → city → building).

While the client's previous consulting partner was unable to find a workable solution to this limitation, we developed an innovative, functional approach that fully meets the requirements.

The Implementation

Development of an individual custom SAC Widget

User-centered

High ease of use thanks to intuitive filtering options

Seamlessly integrated

Full integration of the widget into existing SAC stories and dashboards

Technologically flexible

Integration of various mapping services such as Google Maps, Microsoft Maps, and OpenStreetMap

Optimized for mobile

Early focus on touch-based controls and mobile devices



The Result

Modular & interactive 3D surface cartogram

Filterable Building View

Users can use the drill-down function to analyze specific individual objects

Two-dimensional map visualization

For areas, building types, or areas of responsibility

Customization

Any key performance indicators, such as CO₂ emissions or energy consumption, can be flexibly integrated

Maximum Usability

Minimalist, intuitive design for a seamless user experience



Your Benefits

- ★ **Transparent management of the real estate portfolio**
Based on real-time data and interactive maps
- ★ **CO₂ tracking at the individual building level**
Supports sustainability strategies and ESG reporting

- ★ **Portable**
Ideal for site inspections, management reports, or field service
- ★ **High degree of self-service**
No reliance on IT for data usage or visualization

Lets get in touch today!

