

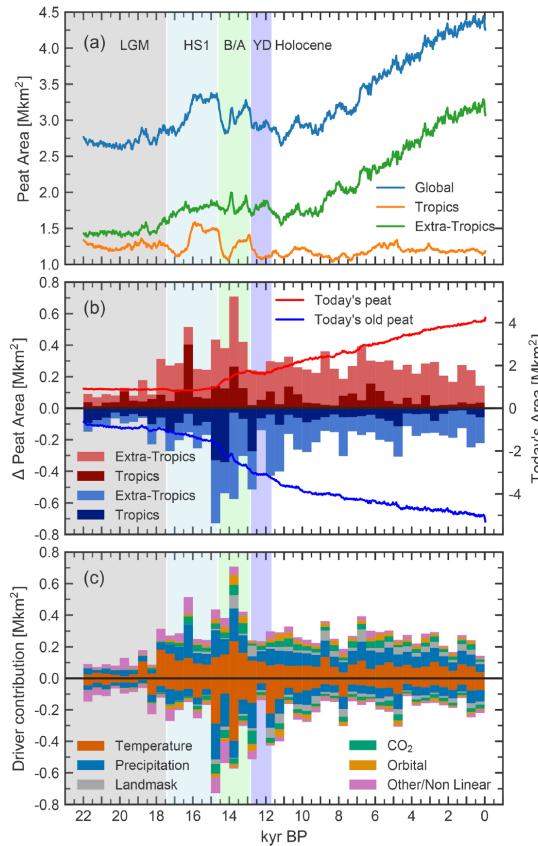
Portfolio

Jurek Müller

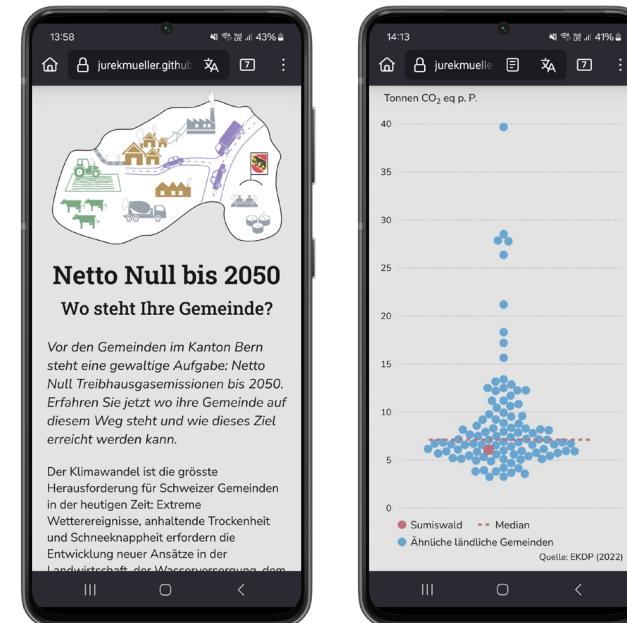
My work in three chapters

Data visualizations from charts to web apps

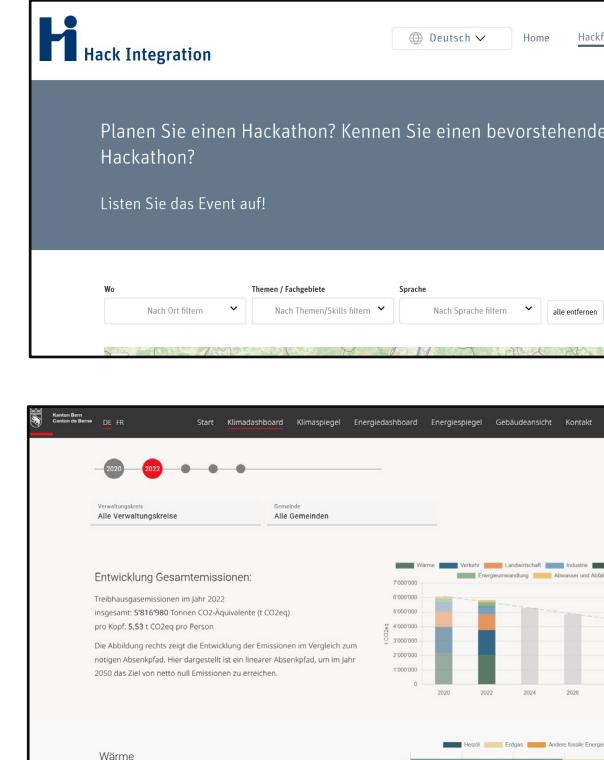
Data Visualization in Research



Interaktive Web-Visualizations



Full-stack Web Development



Data Visualization in Research

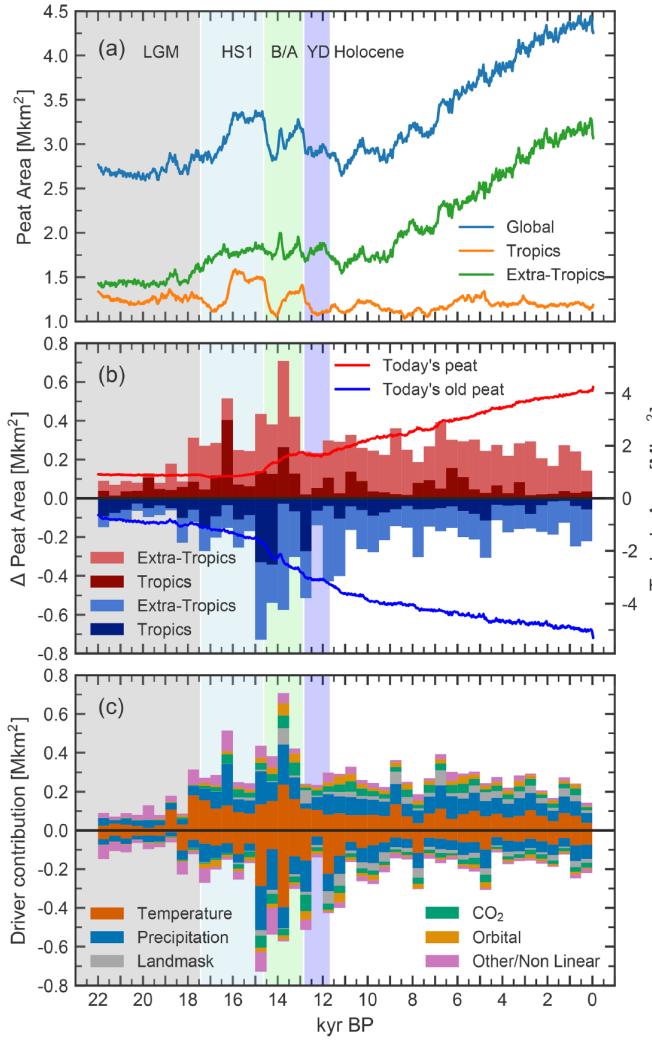
Convey complex information comprehensibly

In my previous scientific work, the aim was to convey the **complex relationships** in multidimensional data through **meaningful visualizations** and to make **abstract concepts** tangible in **understandable diagrams**.

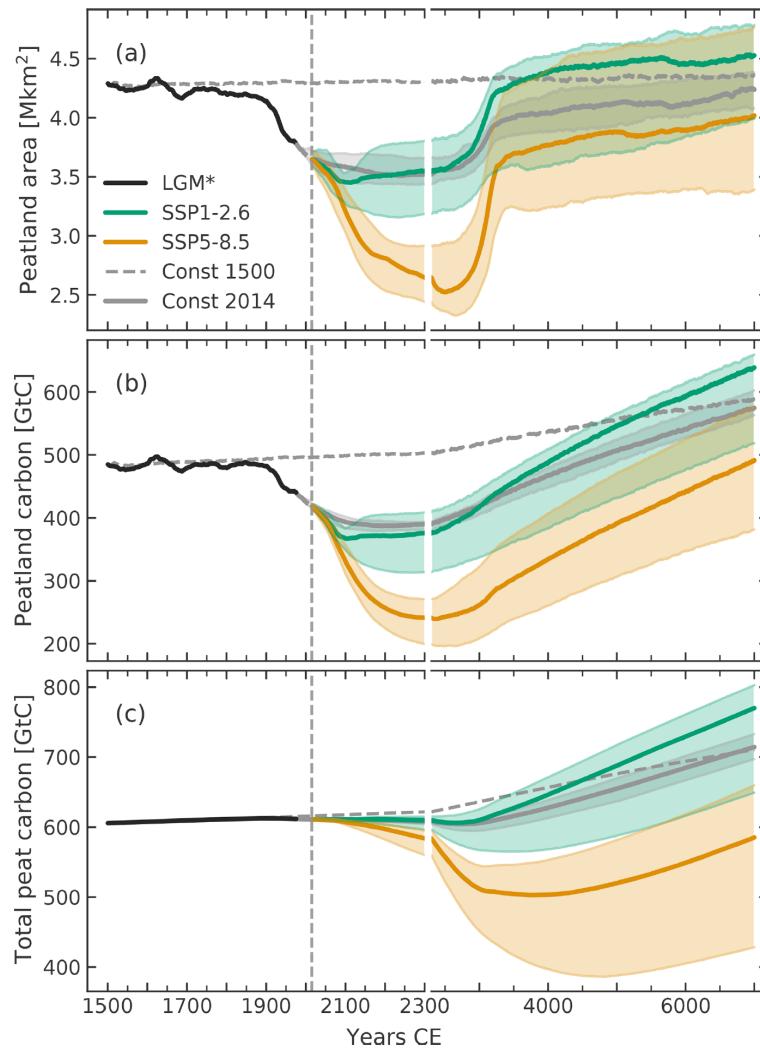


Data Visualization in Research

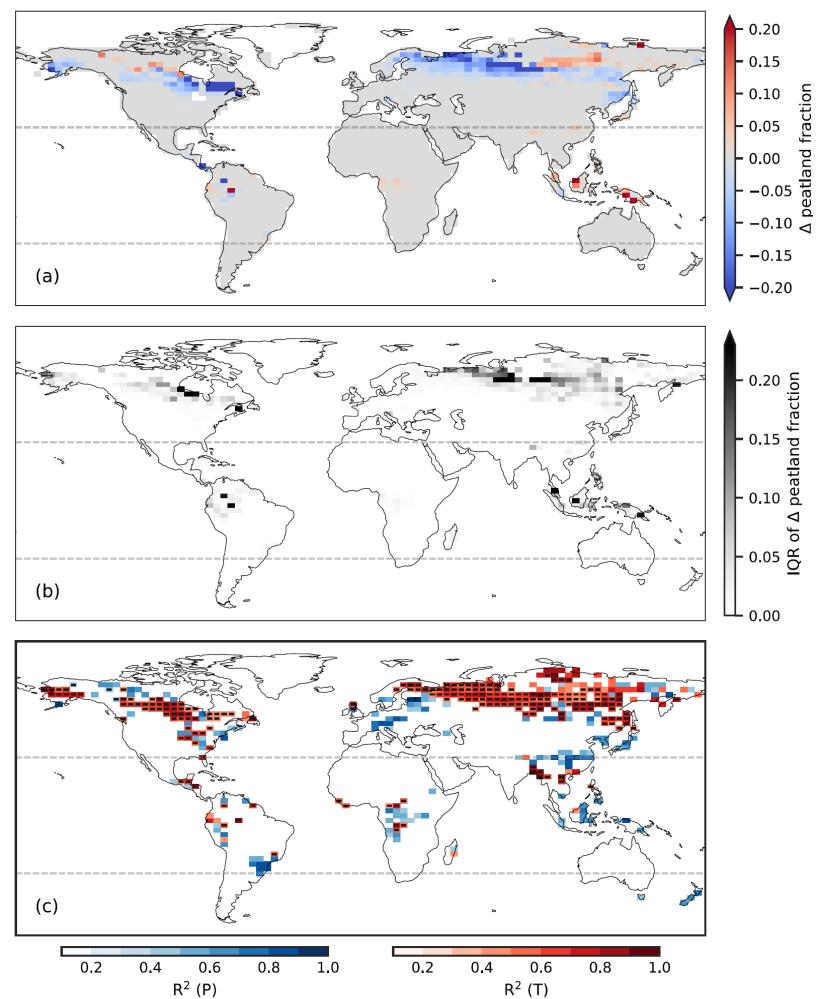
Convey complex information comprehensibly



Müller & Joos (2020)



Müller & Joos (2021)

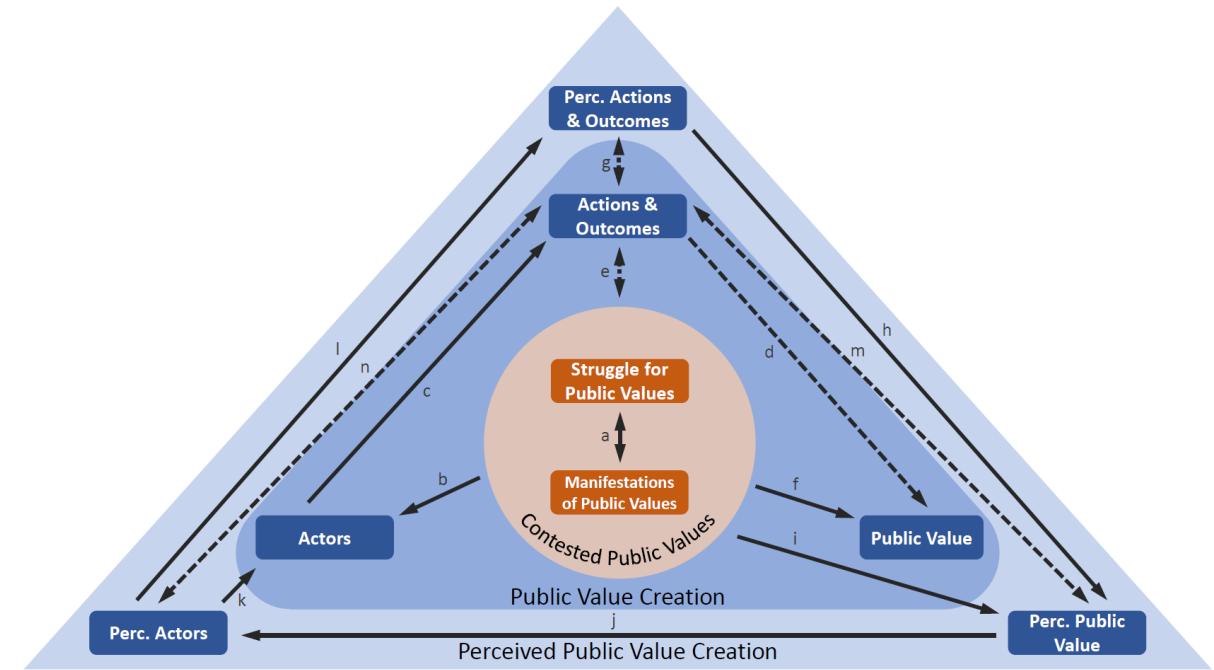
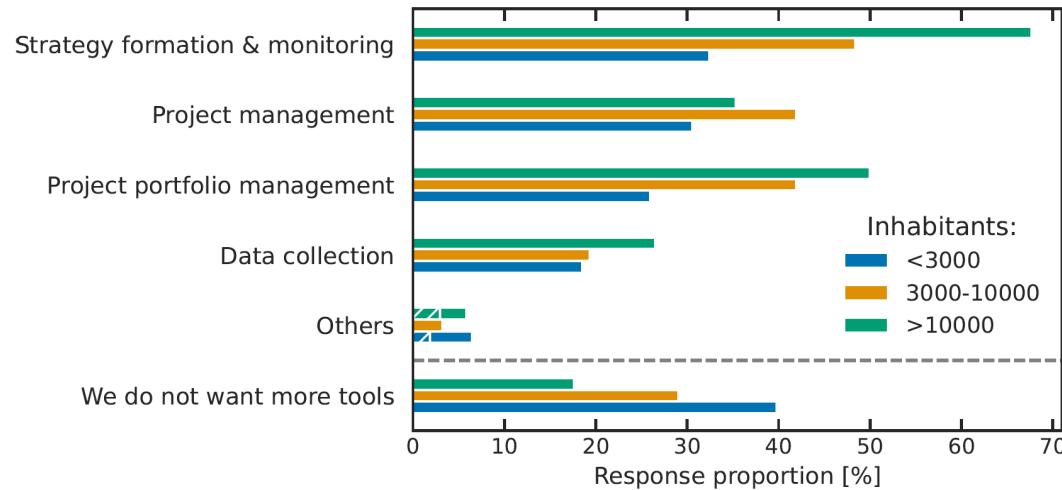


Müller (2021)

Data Visualization in Research

Convey complex information comprehensibly

Q1: A digital tool would be useful in your municipality for:



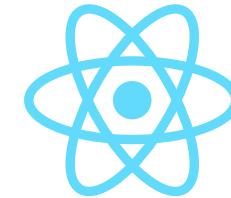
Bektaş et al. ([2023](#))

Müller & Haller (*in review*)

Interaktive Web-Visualizations

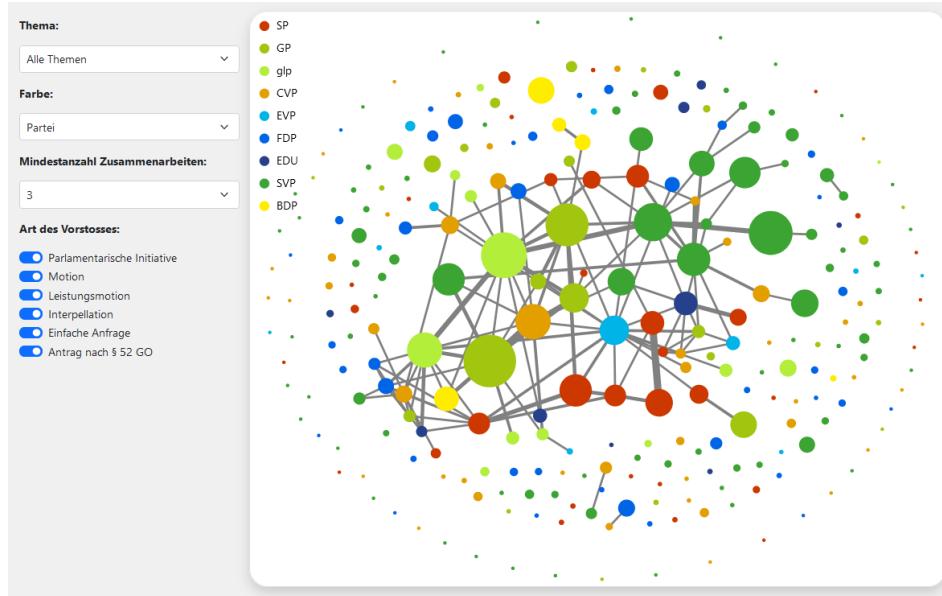
Make data tangible – Tell stories – Create impact

Both in my role as a web developer and in my own projects, I develop **interactive web visualizations** and **scrollytellings** to bring the **stories** in the data **to life**, make them **tangible** for users, and thus **create** personal and societal **impact**.

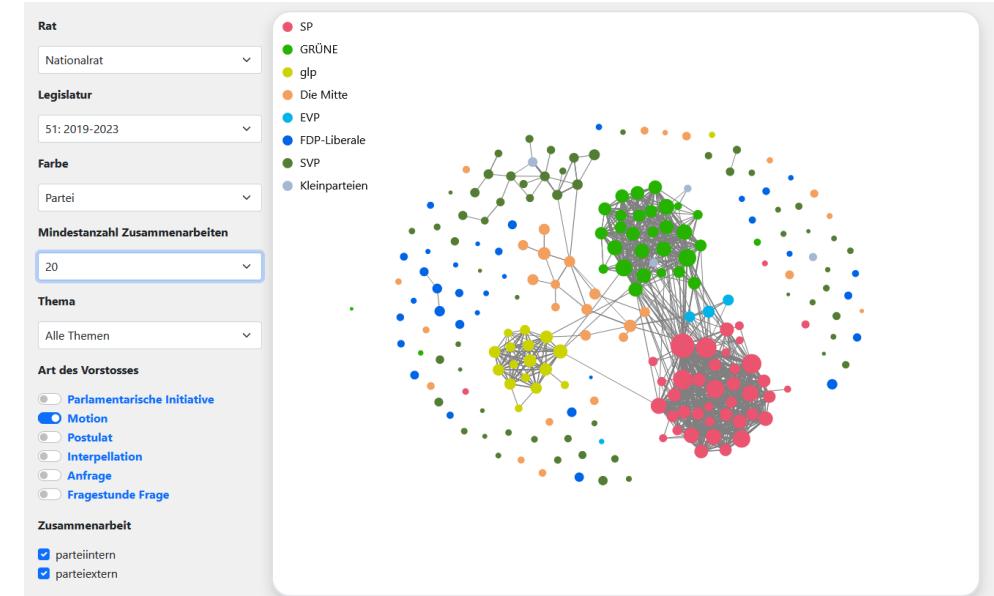


Interaktive Web-Visualizations

Make data tangible – Tell stories – Create impact



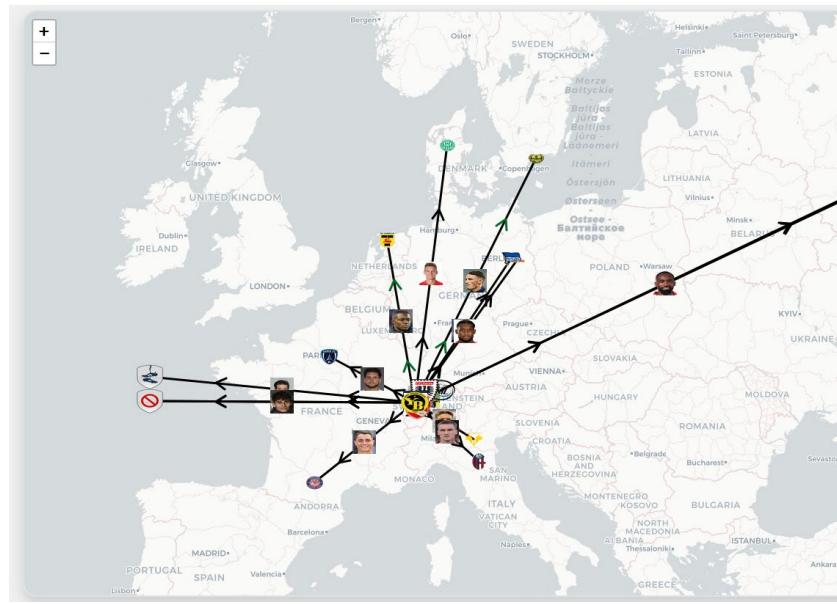
Collaboration in the Grand Council of Thurgau ([2022](#))



Collaboration in the National Council and Council of States ([2022](#))

Interaktive Web-Visualizations

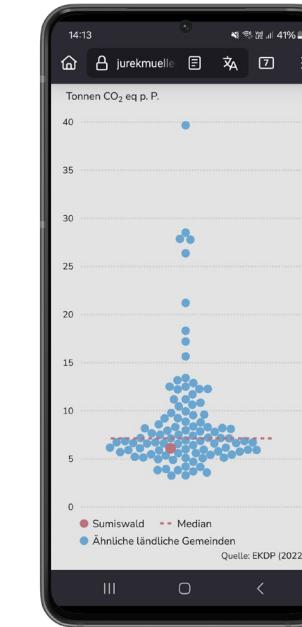
Make data tangible – Tell stories – Create impact



*Prototype: Transfers of
the BSC Young Boys
(2023)*



*Mobile-first scrollytelling with dynamic
visualizations (Final project, CAS Data
Visualization, 2025; Documentation)*



Full-stack Web Development

User-centered development of data-driven single-page apps

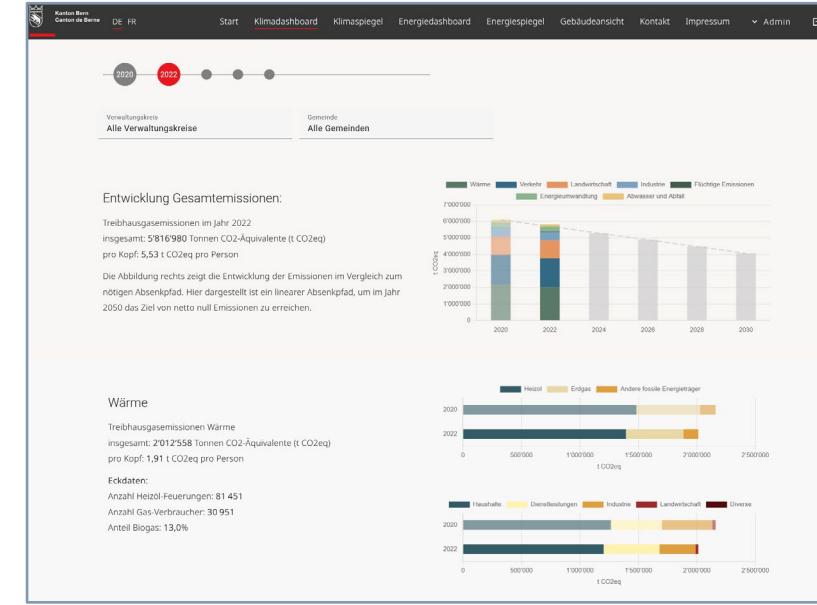
My previous work as a web developer included the **conception, construction, maintenance** and further **development of backends** (APIs, data pipelines, authentication, etc.), **frontends** (UI/UX, forms, visualizations, authentication, etc.) as well as **data infrastructures** (databases, data models, etc.). These were implemented using modern TypeScript-based web frameworks such as Angular and Nest.js.



Full-stack Web Development

User-centered development of data-driven single-page apps

The screenshot shows the homepage of the Hack Integration project website. At the top, there is a navigation bar with links for "Deutsch", "Home", "Hackfinder", "Ergebnisse", "Über", and a yellow "Registrierung" button. Below the navigation, there is a dark blue header with the text "Planen Sie einen Hackathon? Kennen Sie einen bevorstehenden Hackathon?" and a "Event hinzufügen" button. Underneath this, there is a section titled "Listen Sie das Event auf!" with three dropdown filters: "Wo", "Themen / Fachgebiete", and "Sprache". A large map of the Swiss Alps is displayed below these filters.

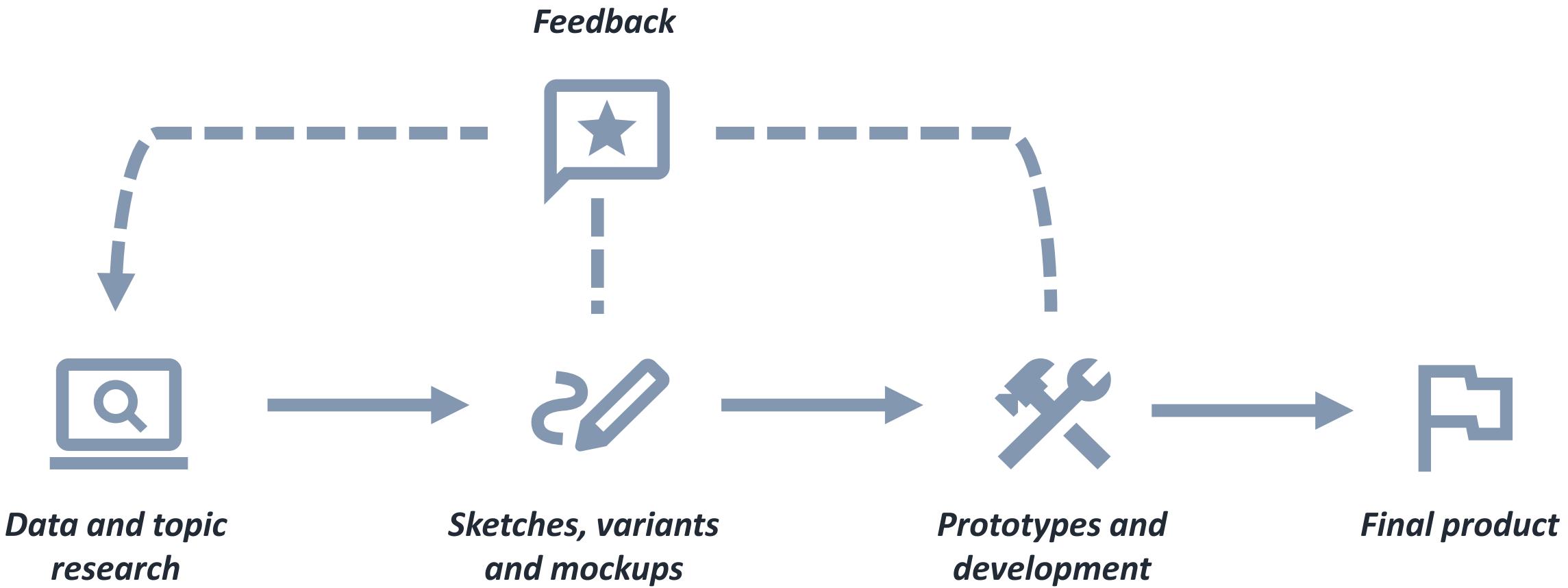


*Hackintegration project website
(Lead Developer [2024-2025](#))*

*Energie- und Klimadatenplattform
(EKDP) of the Canton of Bern
(Co-Developer [2023-2025](#))*

Methodology

Iterativ and agile



Methodology (example)



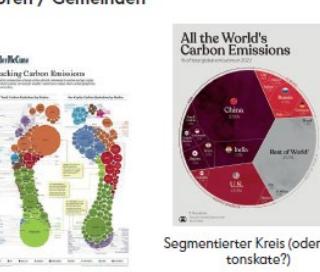
Data and topic research

Moodboard

Moodboard: Vergleich Sektoren / Gemeinden



Darstellung als Fussabdruck mit Sektoren als Teilmengen



Darstellung als Fussabdruck mit Sektoren oder Gemeinden als Bubbles

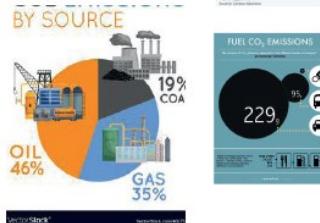
Darstellung der reduction



Darstellung der reduction



Treemap als Vergleich von Sektoren/Gemeinden



Ikonographie / Icons zur intuitiven Kommunikation der Sektoren

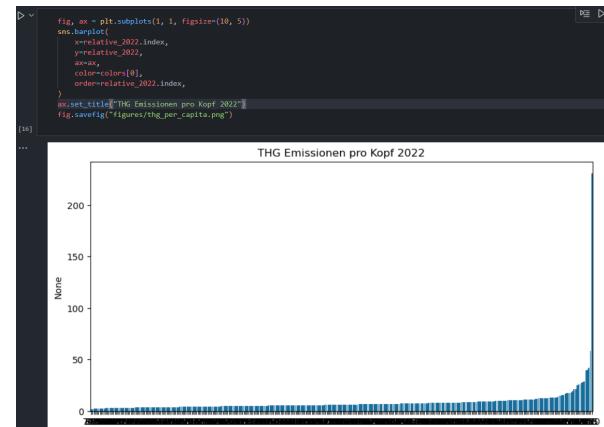


Sehr spannende Darstellung von CO2 pro Bevölkerung



Cool Darstellung von Windenergie

Data analysis



Tools

Data- und Topic Research

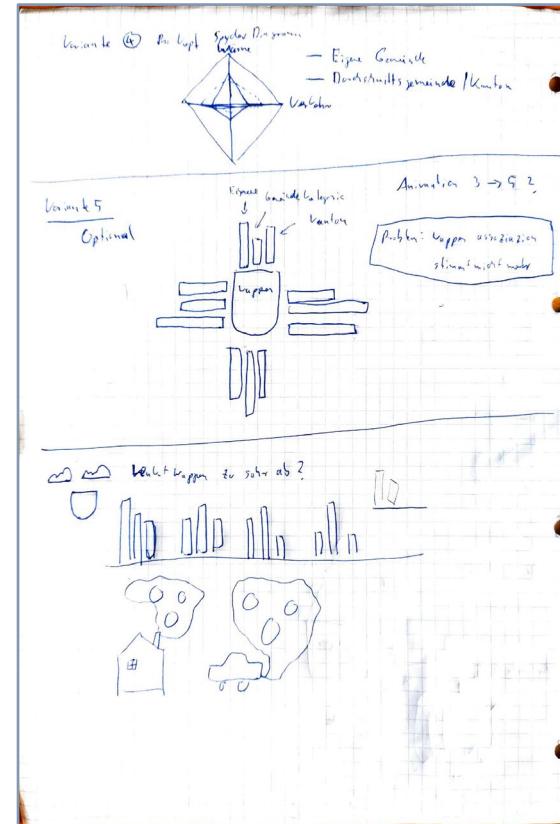
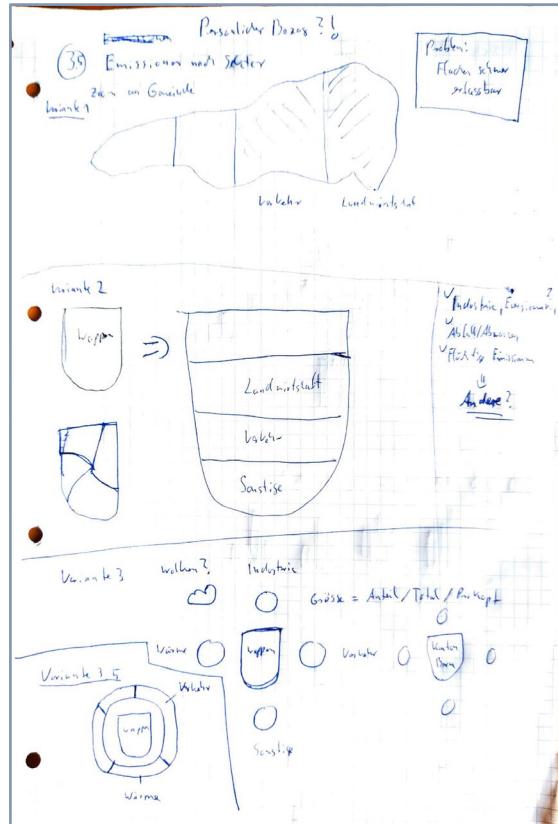


Methodology (example)



Sketches, variants and mockups

Sketches & Variants



Mockup



Tools
Sketches, variants and
mockups

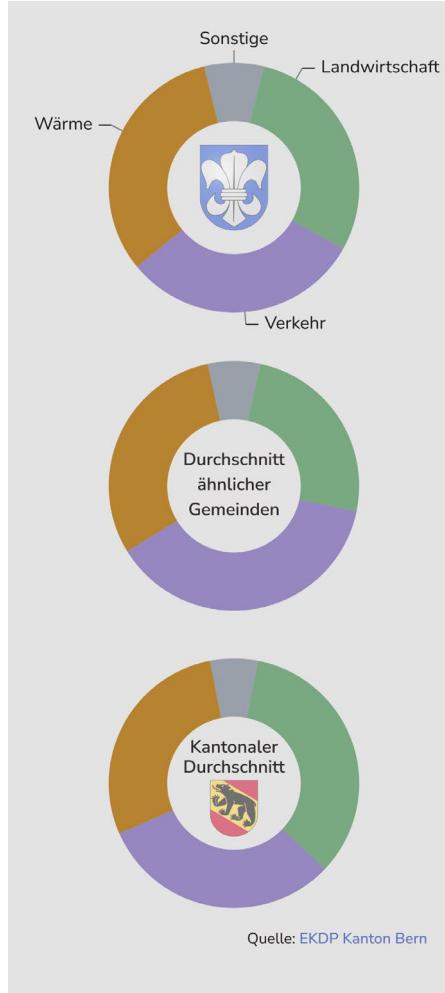
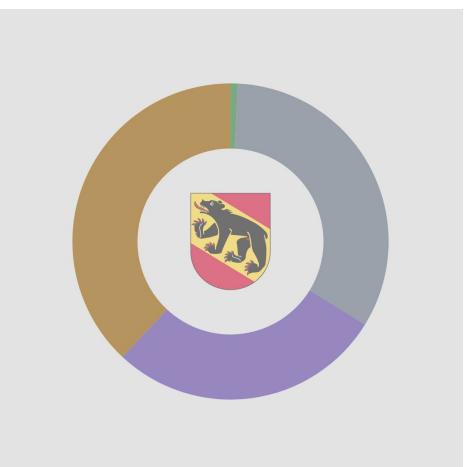


Figma



Methodology (example)

Prototypes and development



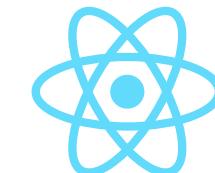
Tools

Prototypes and development

Datawrapper

RAWGraphs

matplotlib



Methodology (example)



Final product

