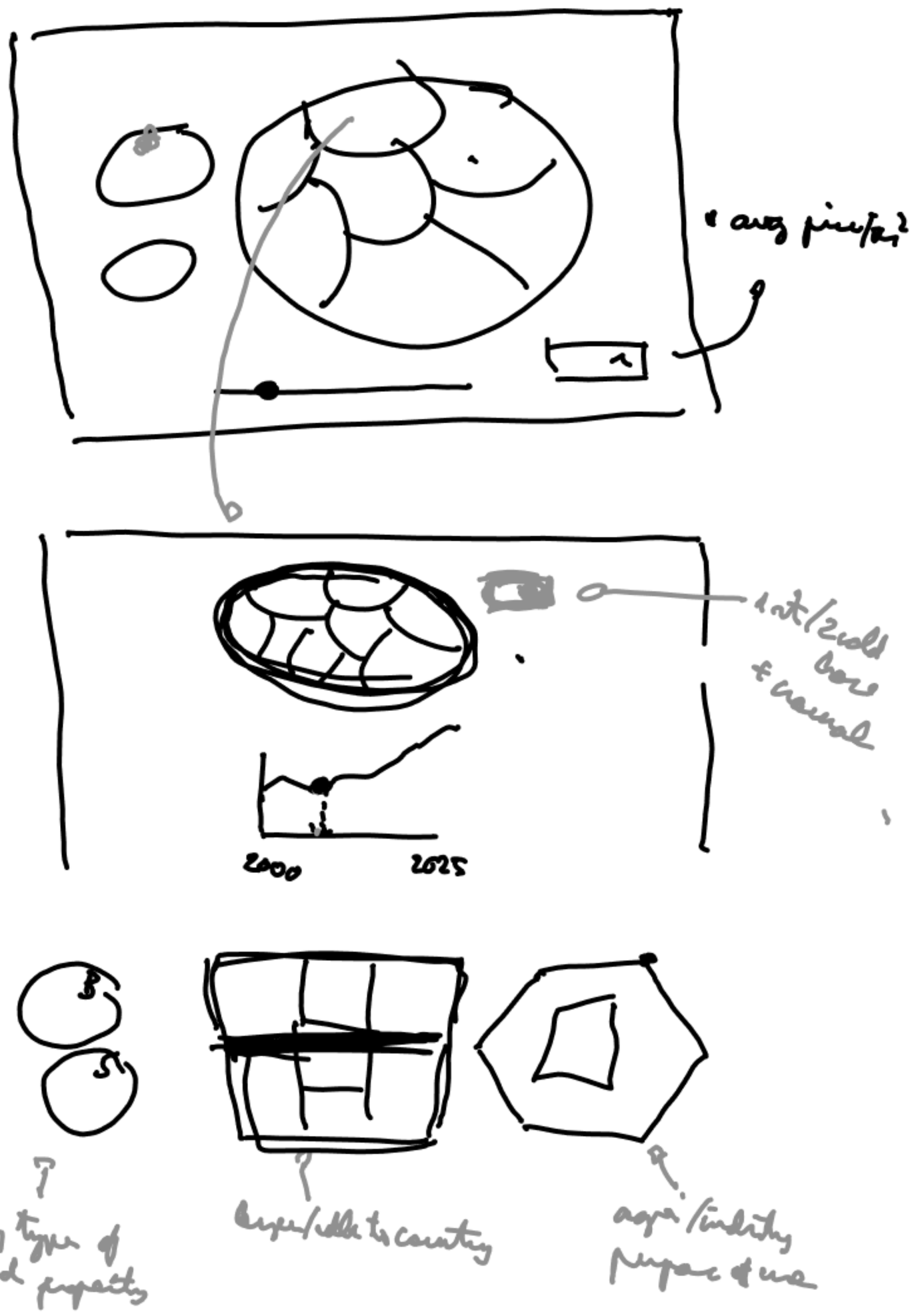
PROCESS BOOK

Our project explores real estate prices and trends to gain insights into economic patterns and urban development. Using data from the Estonian Government, we created intuitive dashboards that make complex information clear and accessible.

This process book highlights the key decisions and challenges we faced throughout the project. By detailing our approach to these points, we provide a transparent account of how we refined our design and technical choices to create a robust and user-friendly dashboard.

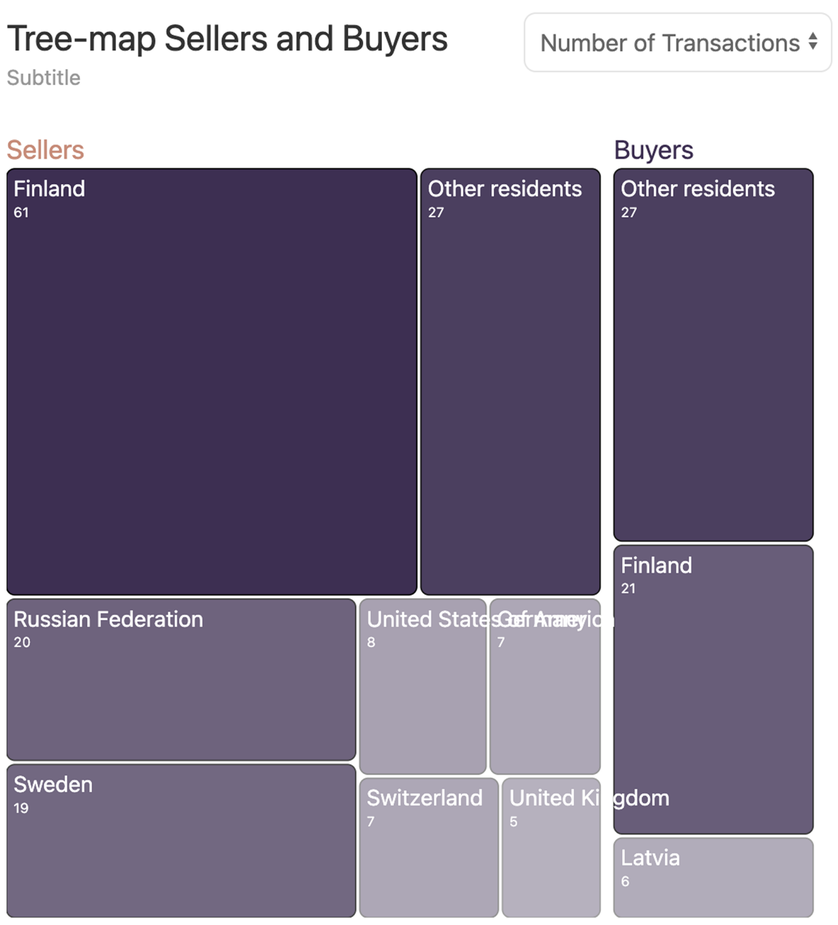
IDEATION

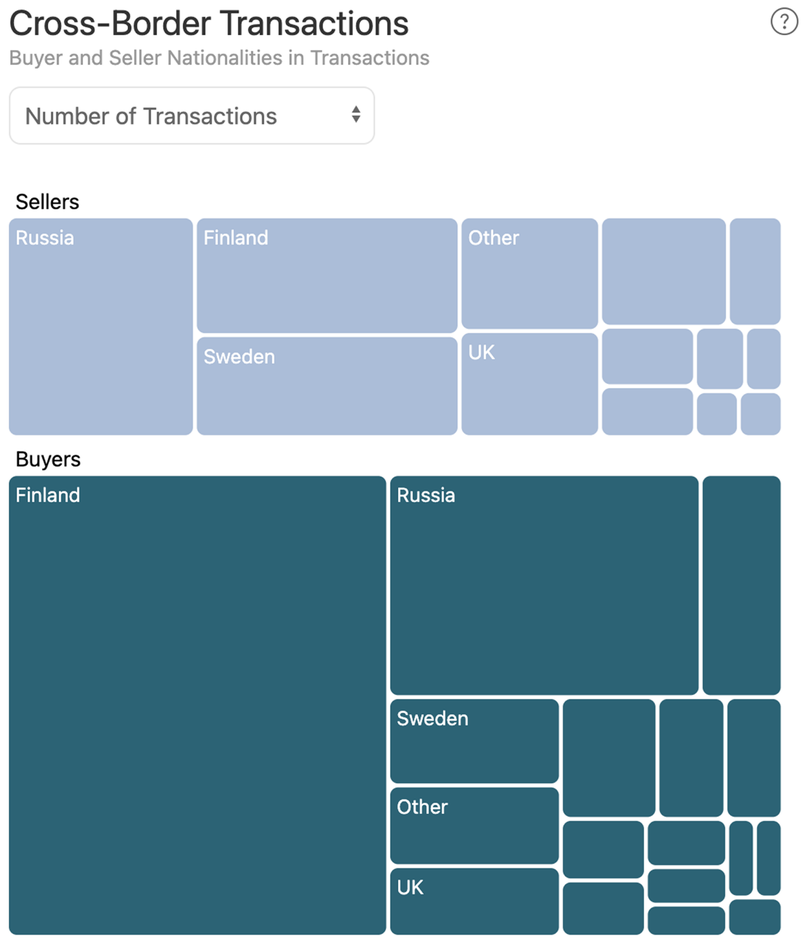
The wireframing process began with coarse, preliminary sketches, which we progressively refined. The final layout features a clean landing page anchored by a map of the country, offering users immediate orientation. From there, a county-level dashboard provides further detail through a selection of charts, enabling deeper exploration of the topic.

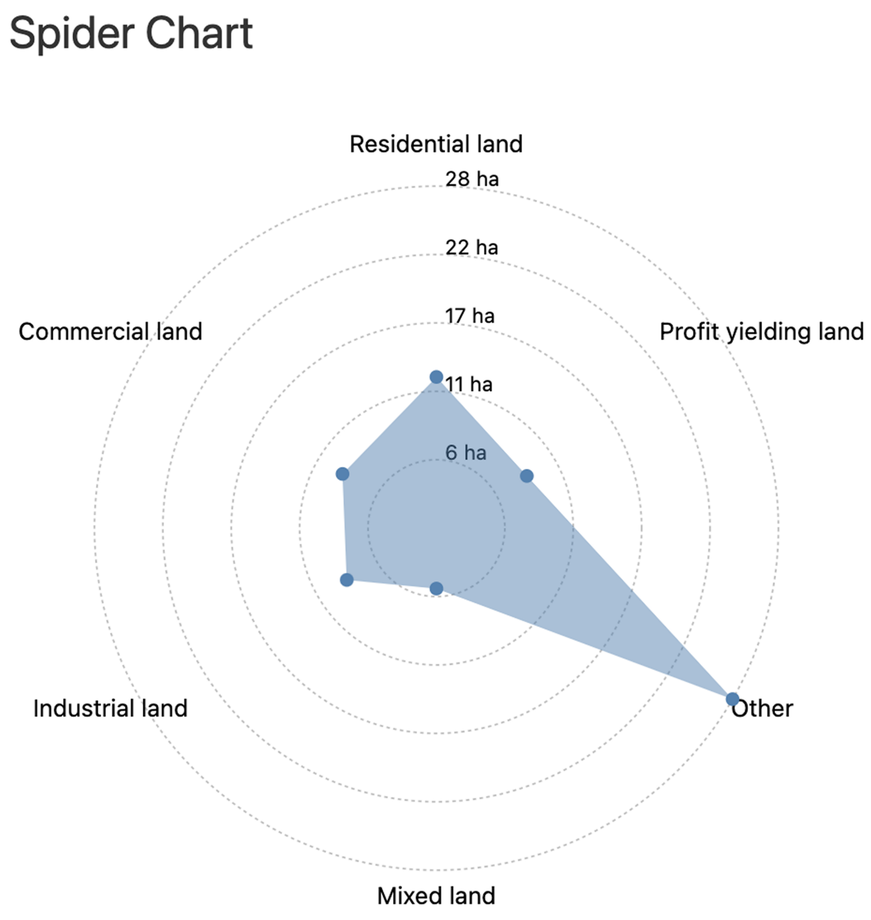


CHARTS

Our dataset primarily features data types that represent "part of a whole" and "ranking," in addition to the time-series information visualized using maps. To best present these relationships and comparisons, we selected a combination of circular packing, tree-map, and spider charts.

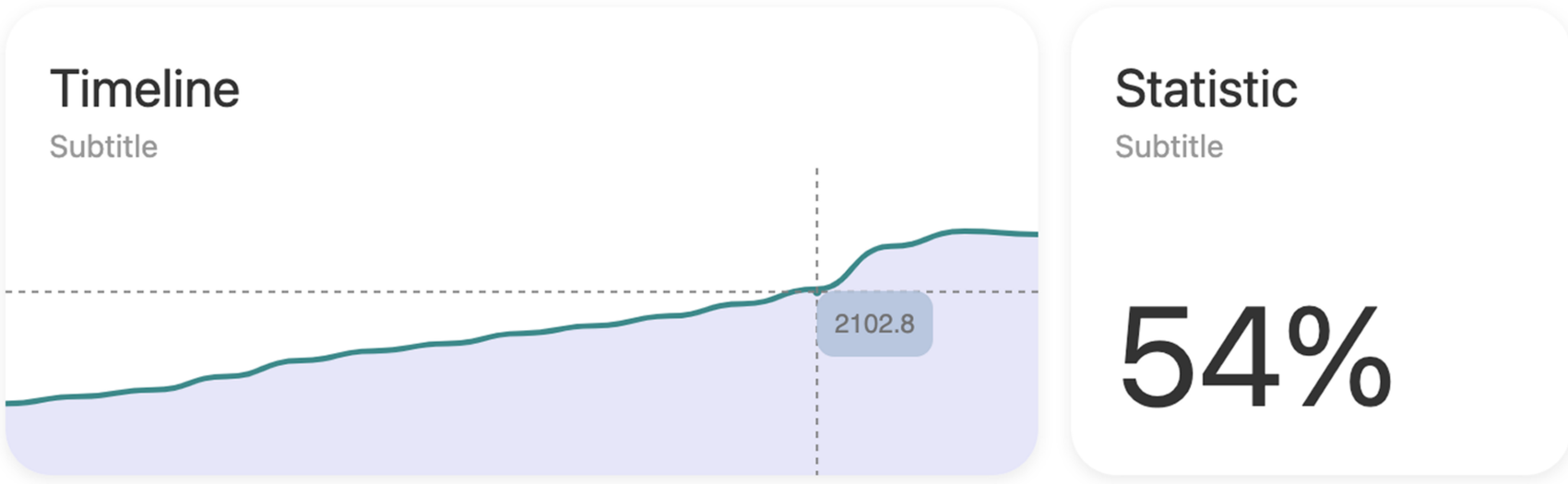




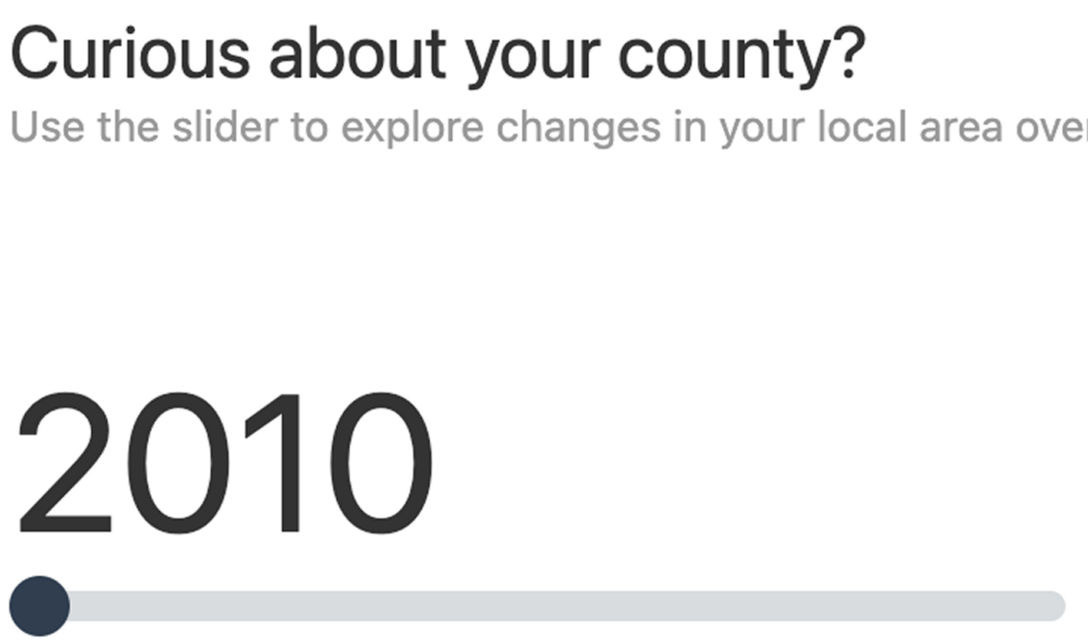


LAYOUT STYLE

When designing the dashboard's interactive elements, we carefully considered how users would navigate and interact with the data. Initially, we explored using a single timeline chart as the primary slider, enabling users to adjust values across all charts at once.

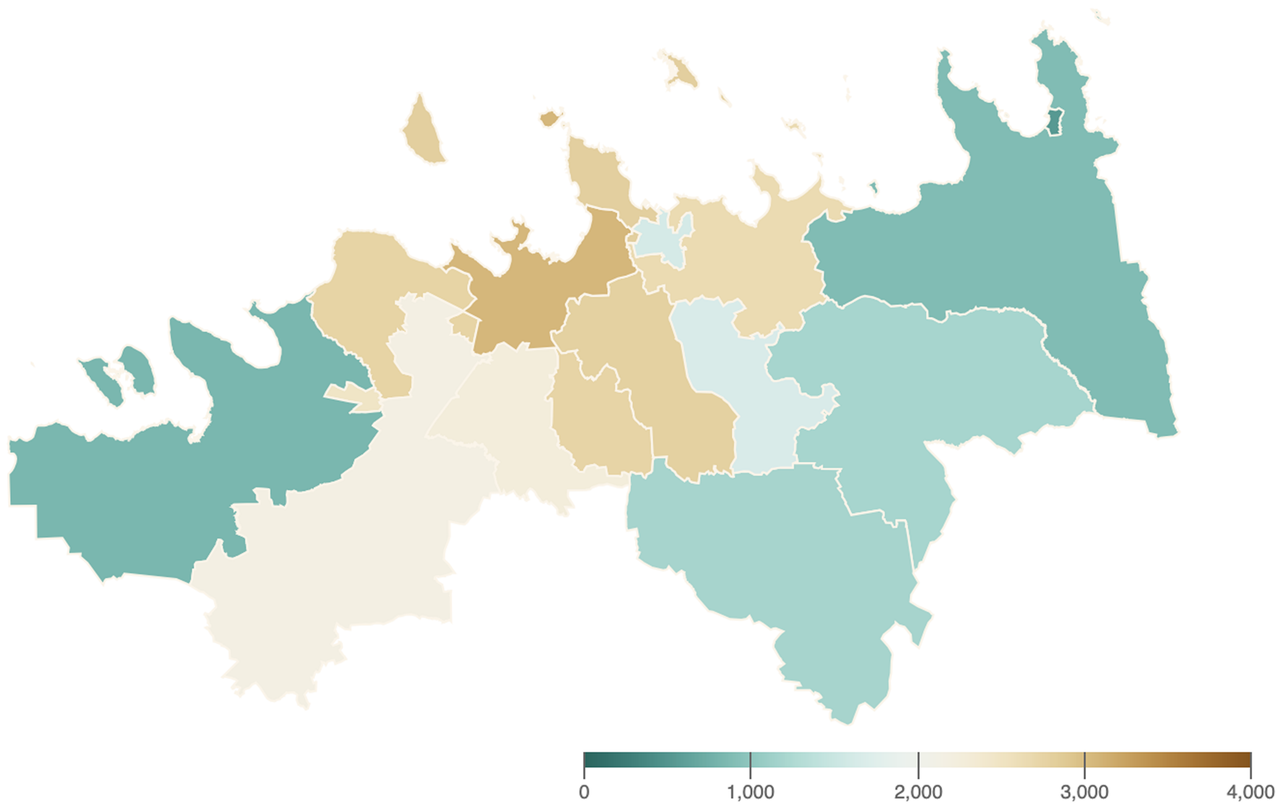


However, to achieve greater clarity and usability, we ultimately implemented dedicated sliders for each chart, each accompanied by clear introductory text. This approach ensures a more intuitive and precise experience for users interacting with the dashboard.

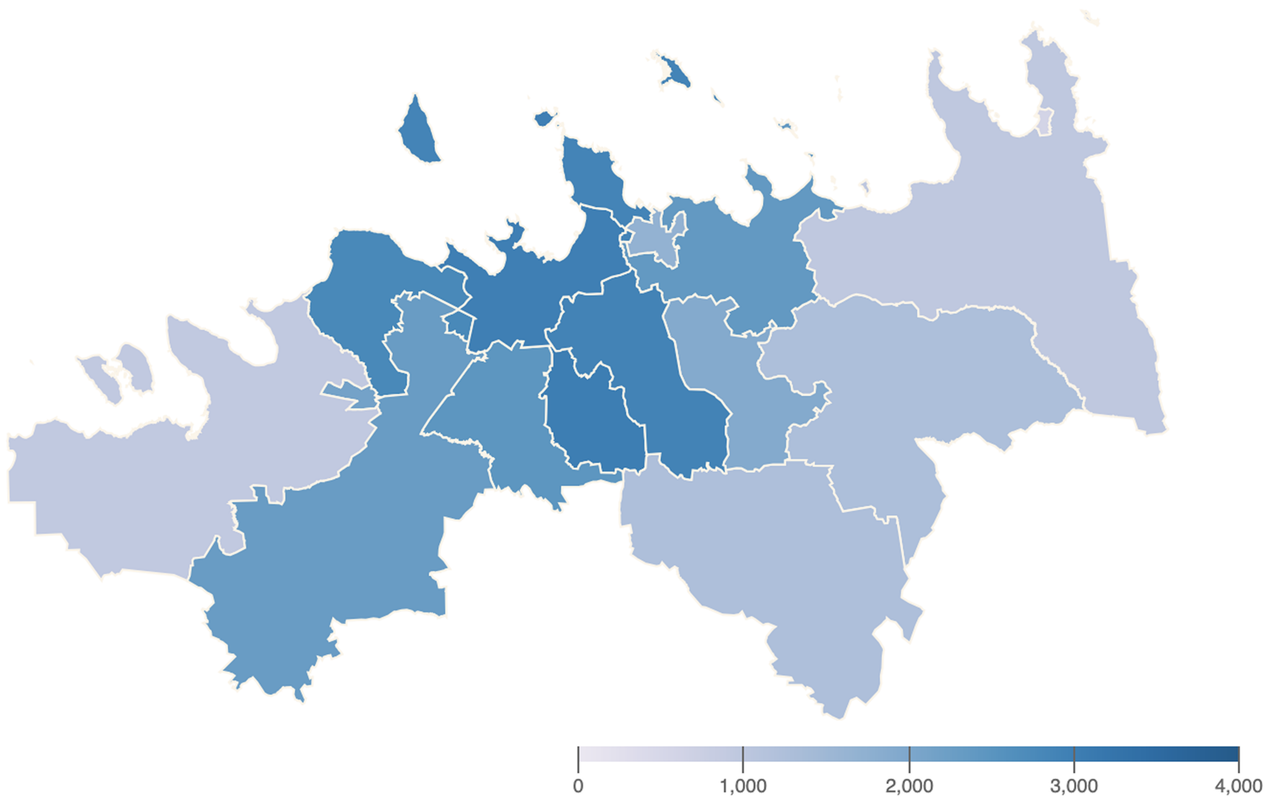


COLOR SCHEMES

In evaluating our color scheme options, we considered both diverging and sequential palettes. While the diverging palette provides a broader range of colors and emphasizes distinctions between values, it necessitates a clearly defined midpoint, which our data did not support.



As a result, we selected a sequential color scheme, which offers a clear and logical progression that aligns well with our data structure and enhances visual clarity for the audience.



RESPONSIVENESS

Ensuring that our data visualizations remain fully functional across all platforms was a central priority throughout the development process. We recognized early on that accessibility and usability on any device would greatly enhance the value and reach of our application.

To achieve this goal, we chose to implement the UIkit front-end framework. UIkit provided us with a robust set of responsive design tools, allowing us to efficiently adapt our layouts and interactive elements to various screen sizes and resolutions.

As a result, both the dashboard and landing page are fully responsive and perform seamlessly on all devices, including smartphones. Users can now access and interact with the visualizations and information regardless of the platform they use, ensuring a consistent and user-friendly experience.

CONTRIBUTIONS

We enjoyed a truly collaborative and dynamic working process throughout the project. Our team's open communication and shared commitment to quality allowed us to efficiently tackle challenges and refine our ideas together.

JAN KOKLA
367628

- set up responsive design with *UIkit* and *express.js*
- contributed with interactions, sliders, time series and treemap
- designed the tooltips, legends and coloring scheme

SIIM MARKUS MARVET
377510

- scraped, cleaned and transformed the data
- worked with maps, salary statistics and fixed all possible bugs
- deployed the website and improved the quality of the code

MAHLIA MERVILLE-HIPEAU
345625

- designed spider chart and circular packing visualization
- created all materials that required copy-writing (on and off web)
- performed user testing and feedback gathering

FINAL RESULT

PriceMap

ABOUT

Home / Harju county

Harju county

Curious about your county?

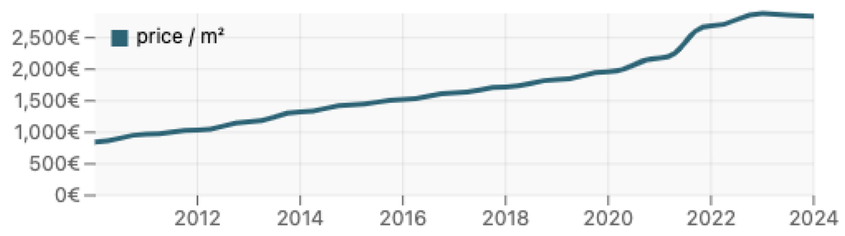
Use the slider to explore changes in your local area over time.

2010

Yearly Trends in Property Prices

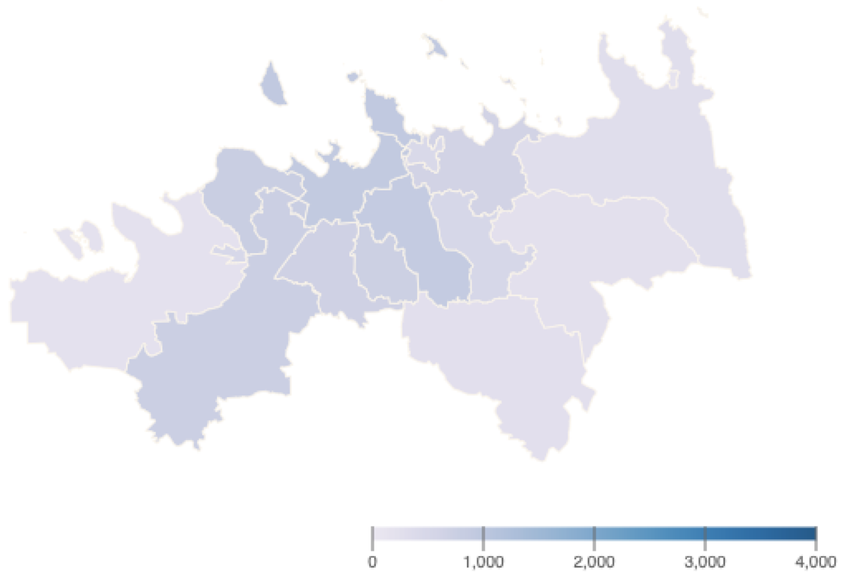
Average Price per Unit Area Over Time, in **€ / m²**

SALARY



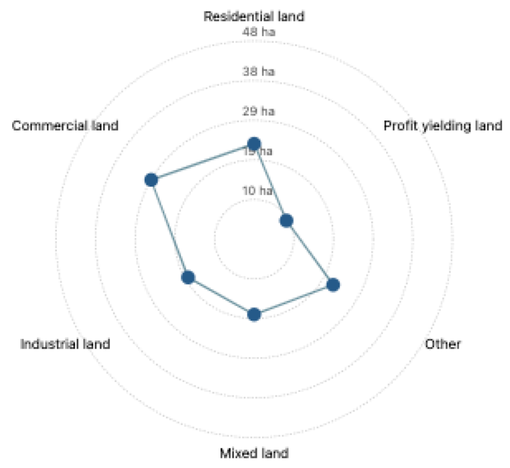
Municipalities Breakdown of Property Prices

Average Price per Unit Area Over Time, in **€ / m²**



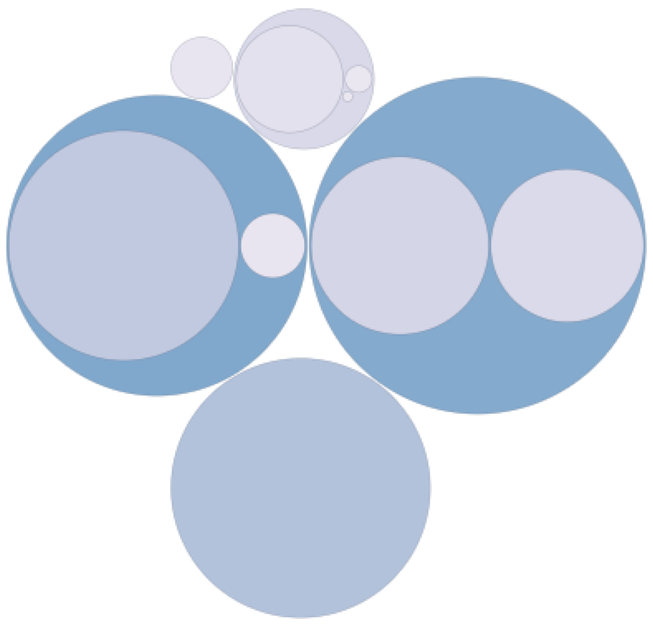
Land Type Distribution

Land Transaction Breakdown by Category and Area, in **ha**



Transactions per Property Type

Hierarchical view of the total value the category represents, in **€**



Cross-Border Transactions

Buyer and Seller Nationalities in Transactions

Number of Transac