

IDEAS

- Index line chart (income vs CPI)



- Debt to income ratio bar chart



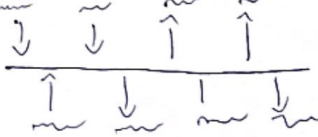
- Map of state



- Sankey diagram of income → expense → debt



- Time-line with annotation



- Scatter plot (income growth vs CPI growth)



- Heat map



- Household (budget donut chart)



FILTER

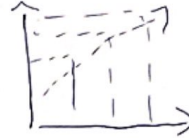
Remove duplicate



Map



index line chart



CATEGORIZE

Trend (Timeline, projection)



Breakdown (age, gender, diversity)



income growth, CPI growth



Map (state, region)



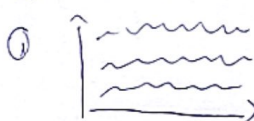
Interaction (filter, simulate, personalize)

COMBINE & REFINE

(1) Trend (income vs CPI) can be combined with site breakdown → Stacked line chart

(2) Income ratio combined with demographic → Heatmap / donut chart

(3) Slope graph with line width for income / expense

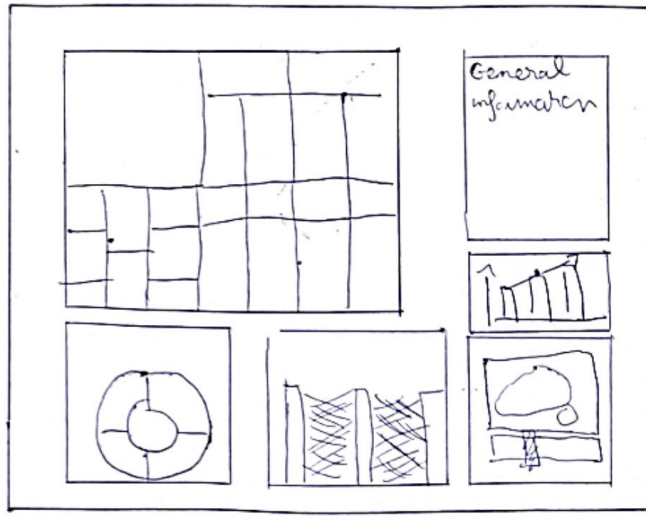


QUESTION

- Are wages keeping up with the cost of living and how does debt affect households?

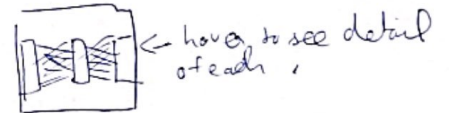
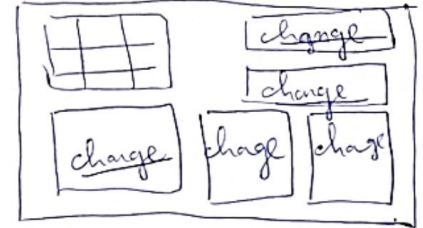
- Does it serve audience: young audience, adults, families not economists

LAYOUT



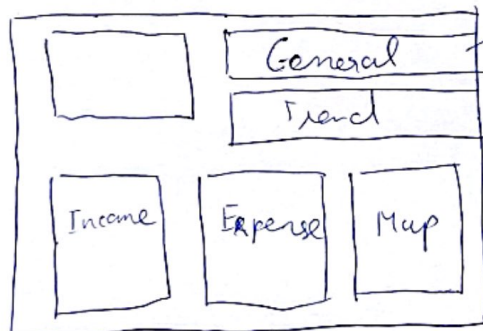
Title: Trends over Time
Author: Vuong Tran
Date: 29/9/2025
Sheet: 2
Task: Visualize trend over time

OPERATIONS



FOCUS



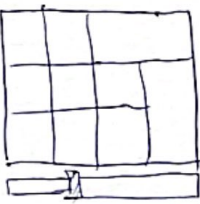

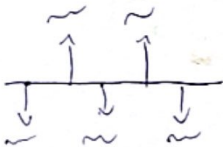


In dashboard, everything is being focused



General info, gives general info of different

DISCUSSIONS

- Pros:
 - easy to understand trends, clear message
- Cons:
 - may clutter if too many series

Household Debt and Cost of Living Pressure Across Australia	Wage Growth vs Cost of Living Growth 	Household Finance Summary by State Rank Household State 1 2
Wage Growth vs Cost of Living Growth by State 	Debt to Income Ratio by State and Year 	Dashboard View 
Key trend in Aus Household Debt and Cost of Living 	Geography of household Debt Stress 	Household Budget Breakdown 

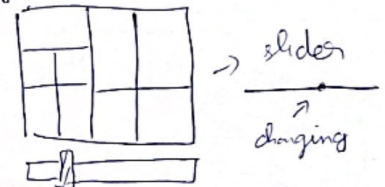
Title: City Snapshots: small multiples
Author: Vuong Tran
Date: 29/9/2025
Sheet: 3
Task: Provide side by side comparisons of major cities

OPERATIONS

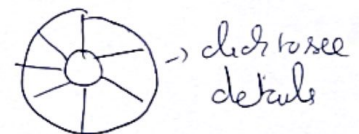
Page 3

Rank	Year	State
1		
2		

Page 5

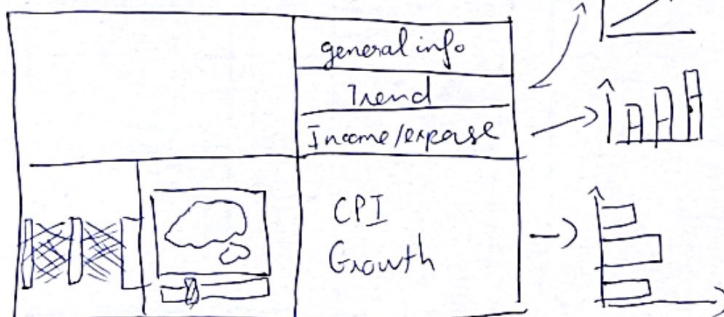


Page 9



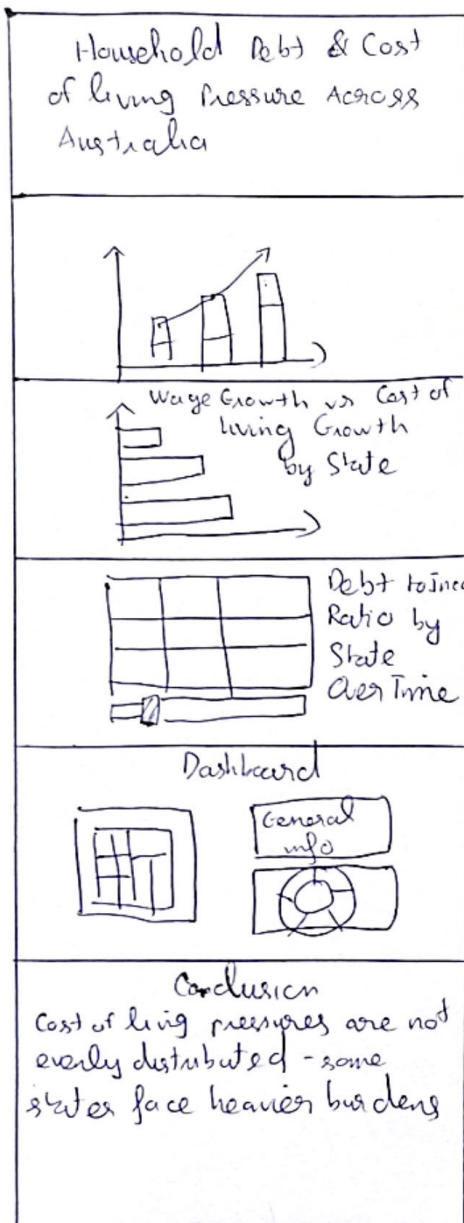
FOCUS

Focus on giving information about the



DISCUSSIONS

- pros
 - easy regional comparison, geographic context
- Cons
 - map may feel abstract for non technical audience

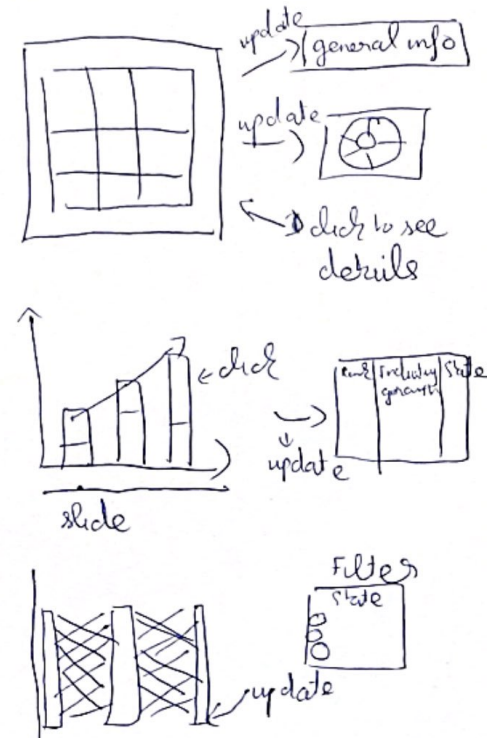


⇒ Alternative

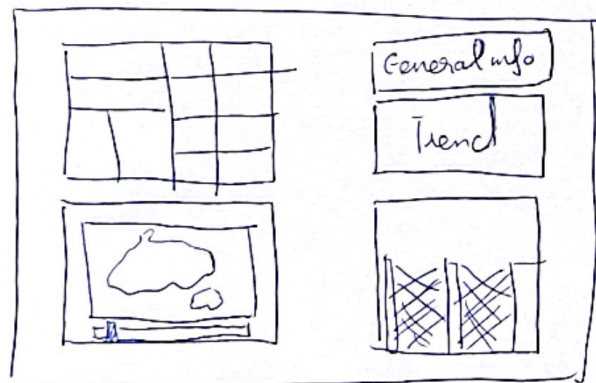
⇒ Alternative

Title : Geographic Stress
Author: Vuong Tran
Date: 29/10/2025
Sheet: 4
Task: Compare debt to income ratios and CPI growth across states

Operations



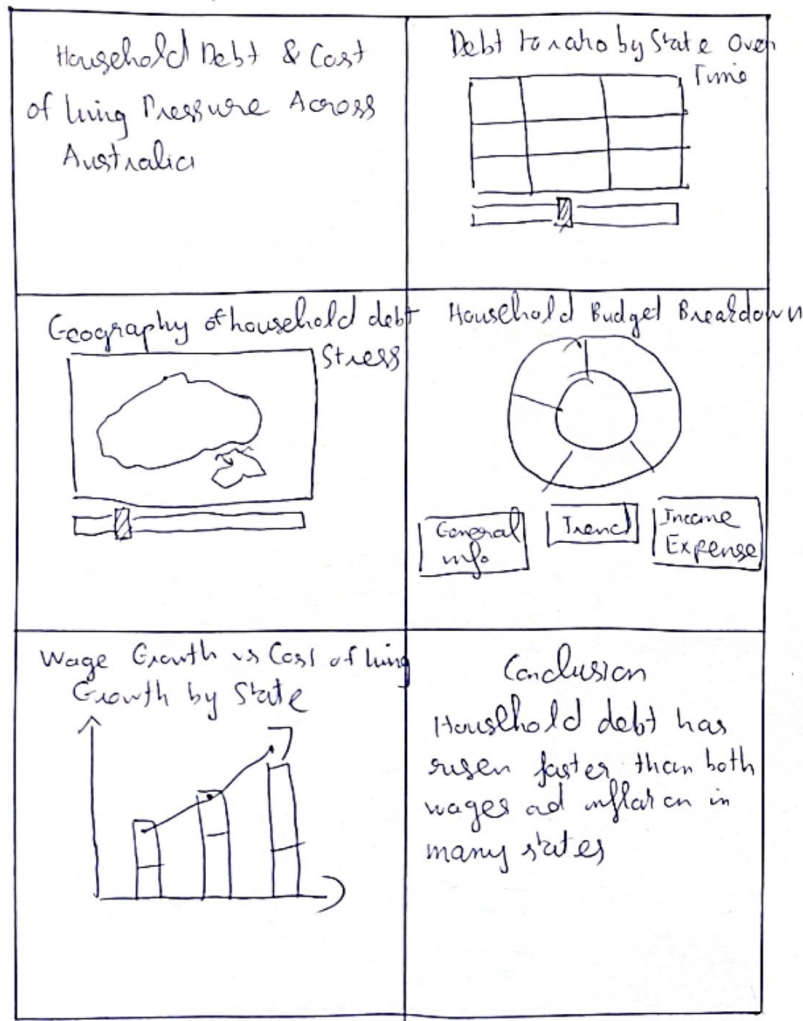
FOCUS



DISCUSSIONS

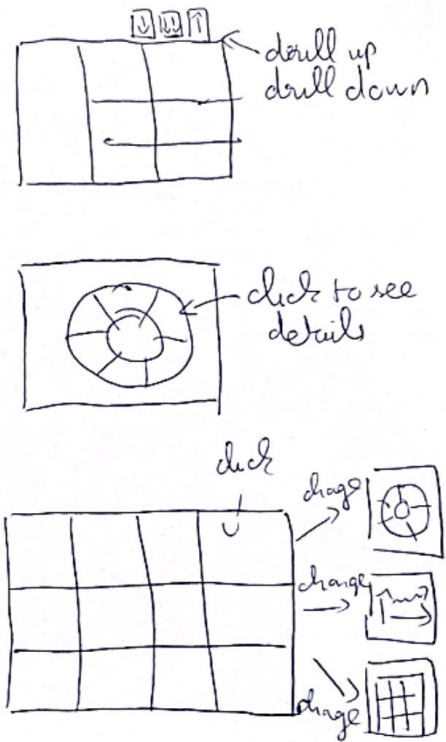
- Pros
 - Strong comparability, no clutter
- Cons
 - needs more space, less big & busy

LAYOUT

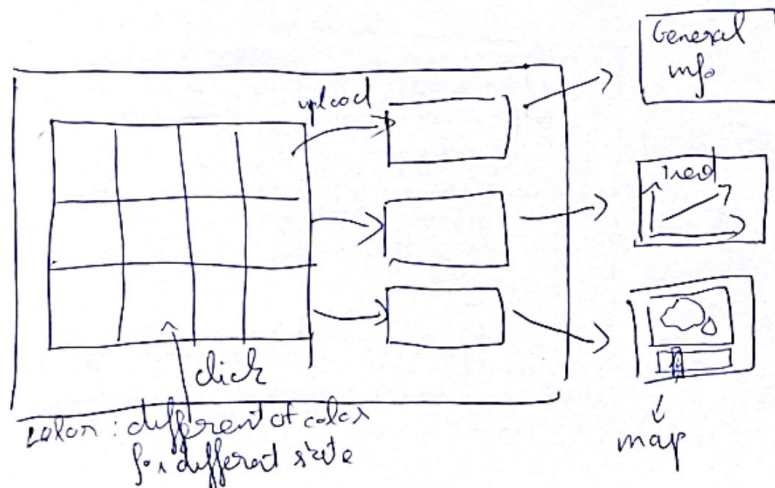


Title: Final Design Sheet
 Author: Vuong Thiem
 Date: 29/9/2025
 Sheet: 5
 Task: Final Implementation Design

Operation



FOCUS



DETAIL

- Data prep: join CPI + household finance → derive debt ratio
- Libraries: Vega-Lite for interactive, D3 for mapping
- Dependencies: CSV file, Vega-Lite JSON, GitHub Pages hosting
- Time estimate: ~2-3 weeks including testing, polishing
- Accessibility: Use colour-blind safe palette, annotate key event