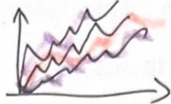# SHEET 1 — Brainstorm

Name: Xiaowen Zhou
Date: 01 / 10 / 2024
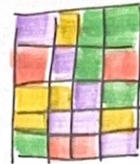
* IDEAS

1. Interactive line chart.

   - Visualize the trends in age rates of drug-induced deaths over time
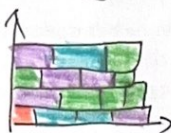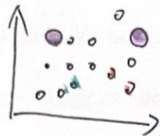
2. Global Comparisons Bar chart.

3. Heat Map for Ambulance Attendances.

4. Stacked Bar chart of Psychosocial Risk Factors

5. Scatter Plot of Alcohol Consumption vs Deaths

* FILTER

1. Year Selector → Time Range

2. Drug Type and class
   e.g. opioids, stimulants

3. Geographic Filter → Regions

4. Demographic Filters

   ✓ Map

* Categorise

1. Data Categories
   - Health Impacts   - Behavior Patterns

2. Visualization Types   - Emergency Response
   - Trend Analysis   - Geographic Insights → OCED COUNTRIE
   Average Comparisons
   - Regional Focus

   | Vic |
   | NSW |
   | NcL |
   | SA |

* Combine & Refine.

- Combine Health and Behavior.
  Overlay line charts of drug-Induced deaths with alcohol consumption data.

- Integrate International Data.
  Use dropdowns to switch between and OCEN Countries

- Refine User Experience.

  Simplify Filters

  Group visualations by theme.

  Health impacts ▯▯ , emergency response, behaviour.

  Color coding for drug closes. Cannabis All opins. Heroin

* Summarise and Questions

① Summary of Dashboard Goals

   Aims to provide a interactive exploration of substance use

   Data Interaction

   key Questions to Address ②

   - How have drug-evolved deaths evolved in rural vs. urban areas over the years? — What are the key psych

SHEET 2 — Initial Ideas

Title - Initial Concepts for the Alcohol, Tobacco, and Other Drugs Dashboard.

Name: Xiaowen Zhou,
Date: 01/10/2024

Description - The sheet outlines the initial ideas for the dashboard's design, focusing on how to present data on alcohol, tobacco, and drugs use in Australia. The design balances detail with accessibility to provide clear visualizations of data trends and comparisons with International benchmarks.

Big Picture / Layout.

Top Section - Overview & Sum
- A High-level summary key statistics.
counters
Summary card

Middle Section - Trend Analysis

Lower Section - Geographic Insights

Bottom Section - Health Impacts & Risk Factors
Total countries
Oced countries
Aus

Components / Operations

1. Interactive Line Charts (Trend Analysis)

2. Heatmap (Geographic Insights).

3. Barchart (Health Impacts).

4. Scatter Plot (Intergenerational Comparison)

5. Summary Cards (Overview).

Parti / Focus.

1. Trend Analysis.
2. Regional Comparisons
3. International Benchmarking

Drug-Related

Vic   NSW   Compare   SA

Oced Countries

tooltips

Pro & Cons

Pros.	Cons.
- Comprehensive. Analysis.	- Data Overload.
- User-friendly.	- Performance Considerations
- Customizable Views	- Complexity in Comparisons
- Highlighting key Trends.	- Steep learning Curve.

Average
/ mean
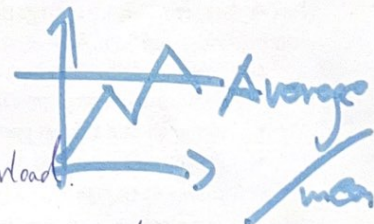
Interactive maps.

Time-series charts

SHEET 3 — Initial IDeas.

Title: Deaniked Initial Design Concepts for the Alcohol, Name: Xiaowei Zhou.
Tacobol, Drugs Dashboard. Date: 01/10/2024.

Description: This sheet focuses on refining the Initial design concepts. breakes down the specific visualizations, and interactions that will be part of the boradad. Highlights show the data will be b presented in an engaging and intuitive way, ensures that key insights.
were Australia.

Big Picture / Layout

1. Header — Quick Summary
Display headlines sta tistics.

Uses a series of summary cards

2. Section 1- Trend Analysis.
Interactive line and area charts.
A dropdown menu and checkboxes to filter

3. Section 2- Geographic Analysis.
Interactive Map of Australia,

4. Section 3- Health Impacts Analysis.
a set of stacked bar charts.
Filter by specific risk factors

5. Footer - User Tools & Navigator:
contains buttons for exportery done visalation
External lole to help

Compari / Operarias

1. Line charts (Trend Analysis):

2. Heat Map (Geographic Analysis).

3. Pie charts (Drug Impacts Analysis)

4. Sankey Diagram (Inernational Comparison)

5. Radar chart (Footer). Drug Tacobol Alcohol.

Parti / Focus.

1. Interactive Exploration of Trends

2. Regional Disparities and Focus

3. Impacts.

4. Makeg complex health Data

Average Number of Cigarettes 8↑
Smoke Por day
7↑
Age Group.
5↑
3↑

Pro & Cons.

Pros	Cons.
— Guided Data Exploration	— High Data Density
— Customization Options	— Complex Filters.
— Clean Visual Hierarchy	— Performance issue
— Engagement with Interactive Elements	— Steep learning Curve for Detailed Analysis

SHEET 4 — Initial.

Name: Xiaomen Zhou.
Date: 22/10/2024

Title — Exploring Alternative Design Concepts for the Alcohol, Tobacco, Drug.

Description — This sheet presents an alternative approach to designing the dashboard. focusing on new ways to visualise and interact with the data related to alcohol, tobacco and other drug use in Australia. It considers ways of dashboard to broder the possibilities
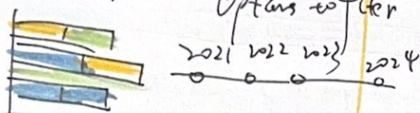
Big Picture / Layout

1. Top Section — Modular Overview Cards

a mini line charts or Sparkline to show recent trends and a comparison with ear

2. Left Panel — Interactive Filters & Options.

A collapsible sidebar with Options to filter
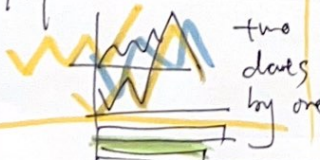
2021 2022 2023 2024

3. Central Vis Area — Main chat Section

Source Section.

Risk Factors

Year Secen

4. Right Panel — Insights & Analysis

A sidebar

Broad context or explanation of trends

Associated Causes

5. Bottom Section — Customizable Reports & Downloads.

two charts by one Central

Components / Operations

1. Modular Overview Cards (Top Sections).

2. Collapsible Filters (Left Panel).

Type.

3. Dynamic Visualization Area (Central Section)

Type

Rate

4. Insights Panel (Right Section).

5. Report Generation Tool (Bottom Section).

Parti / Focus

1. Modular Data Exploration

2. Dynamic Visual Interaction

Filter

3. Insight-Driven Design

4. Regional analysis on health aspects

Q. Button Ans Alcohol Tobacco Drugs ← Map Section

Pros & Cons

Pros
- Enhanced Flexibility
- User-Friendly Filters
- Contextual Insights
- Report Generation

Cons
- More Complex User Interface
- Possible Performance Issue
- Requires Clean Guidance
- Balancing Detail and Simplicity

SHEET 5 — Realisation

Name: Xiaowen Zhou
Date: 03 / 10 / 2024

Title: Detailed Realisation of the Alcohol, Tobacco, And Other Drugs Impacts.

Description: The focus is on finalising the layout, visual styles, and interactive features, ensuring a cohesive user experience. It breaks down each component, describes how the data will be presented, and outlines the detailed operations needed for a functional and effective Dashboard.

Big Picture / Layout

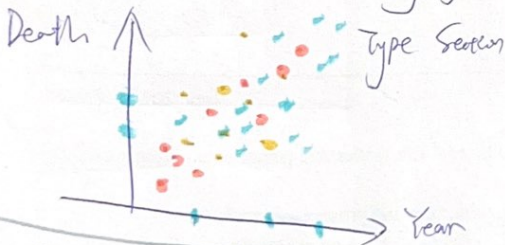Filters
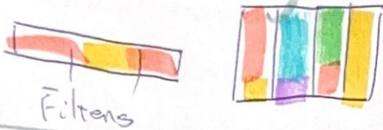
Proportion of Daily Smokers By Sex And People

Button to select.

Alcohol Consumption (Liters per) Among People

Map Sections.

Average Number of Cigarettes Smoked by Day

Map Section

Alcohol — Induced Deaths by Age Group.

Death / Type Section / Year

Drug — Related Ambulance Calls.

Type / Numbers / Year / Drug Type / Type
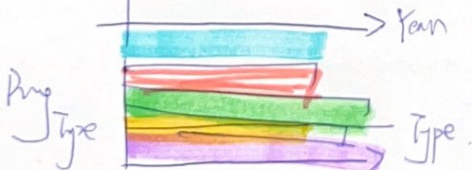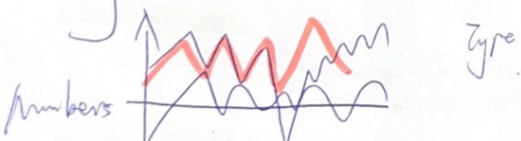
Parti / Focus.

* Intuitive Interaction
  The design ensures that users can easily navigate between different sections

* Visual Clarity:
  The layout prioritise clean and easy — to read visualisation

* Data Accessibility
  Aims to make the dashboard practical

Components / Operations

- Navigation Bar Button to Select 3 Maps (Top Section)

- Dynamic Visualization Area (Main Section)

- Filter Controls (Left Sidebar).

- Insights Panel (Right Sidebar).

- Export Tools (Footer)

Details.

1. Data Sources and Structure.
   - Data Cleaning   - Frontend Interface.
   - Backend Process
2. Visual Design Choices.
   - Color Scheme   - Font and Readability.
3. Interactive Features