

FOCUS

- D Comparative storytelling & predictive analysis
- 2) Show how data science can project environmental
- 3) Interactive, viewer (on see 3D globe.

INFO

Title: Global Comparison and Prediction

Author: Ee Gwen Ching

Date: 11/10/2025

Sheet: 2

Task: A global level interactive visualisation in terms of pollution sources and forecasting future trends.

OPERATIONS

- → Rotate globe to view different regions.
- -> Hover over a country. Pollution summary.
- → Time slider. See 5-year forecast.
- → Fitter by pollutant or sector.

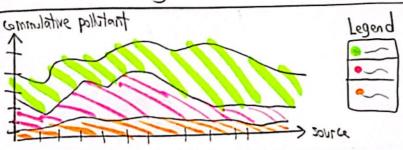
DISCUSSIONS

Pros:

- Ostrong visual oppeal. 3D globe, big picture insights.
- @Comparative and predictive. Deep analytical storytelling.
- 3 Supports learning Through exploration.

(ons =

- O High computational demand. 3D rendering, model computation.
- Might Overwhelm Users without proper narrative guidance.



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> Focus on personalisation and storytelling through interactivity.

> Uses human-centric narrative doign rather than only
a garegate data.

INFO

Title: "Air & You"- Personal Exposure Journey

Author: Ee Gwen Ching

Date: 11/10/2025

Sheet: 3

Task: User experiences how daily life activities contribute to personal exposure.

OPERATIONS

>Input your daily route

Home => Nork => Gym

→ Hover on timeline. See

Pollutant spikes by time

→ Slider. Simulate different

trace to be (see like)

transport modes (car, bike, wal

DISCUSSIONS

Pros:

Ostrong personal relevance. Highly user engagement.

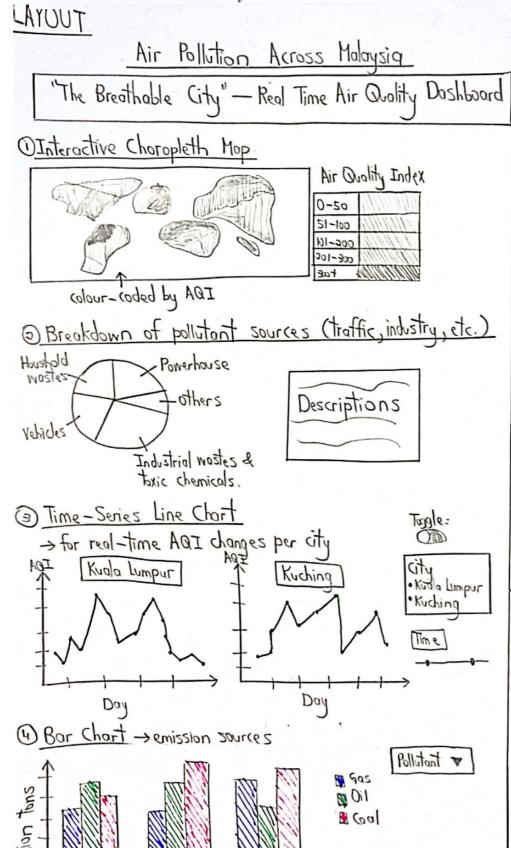
@Narrative flow promotes learning through exploration

DEffective for education
Campaigns.

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DNeeds user input or simulation engine. More complex backend

Top route visualisation (an become more cluttered with bong commutes.



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> Real-time storytelling of changing air quality

- strong data-ink ratio (minimal clutter, strong colour senontia)

INFO

Title: Air Pollution Across Malaysia

Author: Ee Gwen Ching

Date: 11/10/2025

Sheet: 4

Task: Poster-style dashboard to show the significance of air pollution in Malaysia

OPERATIONS

- → Hover over city. Shows pop-up AQI details.
- → Time slider. Adjust the date or time to view AQI trends.
- → Dropdown. Filter by pollutant type.
- → Toggle switch. Switch between city view and region view.

DISCUSSIONS

Pros:

- Offighty engaging, real-time data appeals to public interest.
- Multi-view visualisation shows
- 3 Interactive controls enhance exploration.

(ons:

- (needs real-time feeds)
- Moy be too complex for casual users if not simplified visually.

