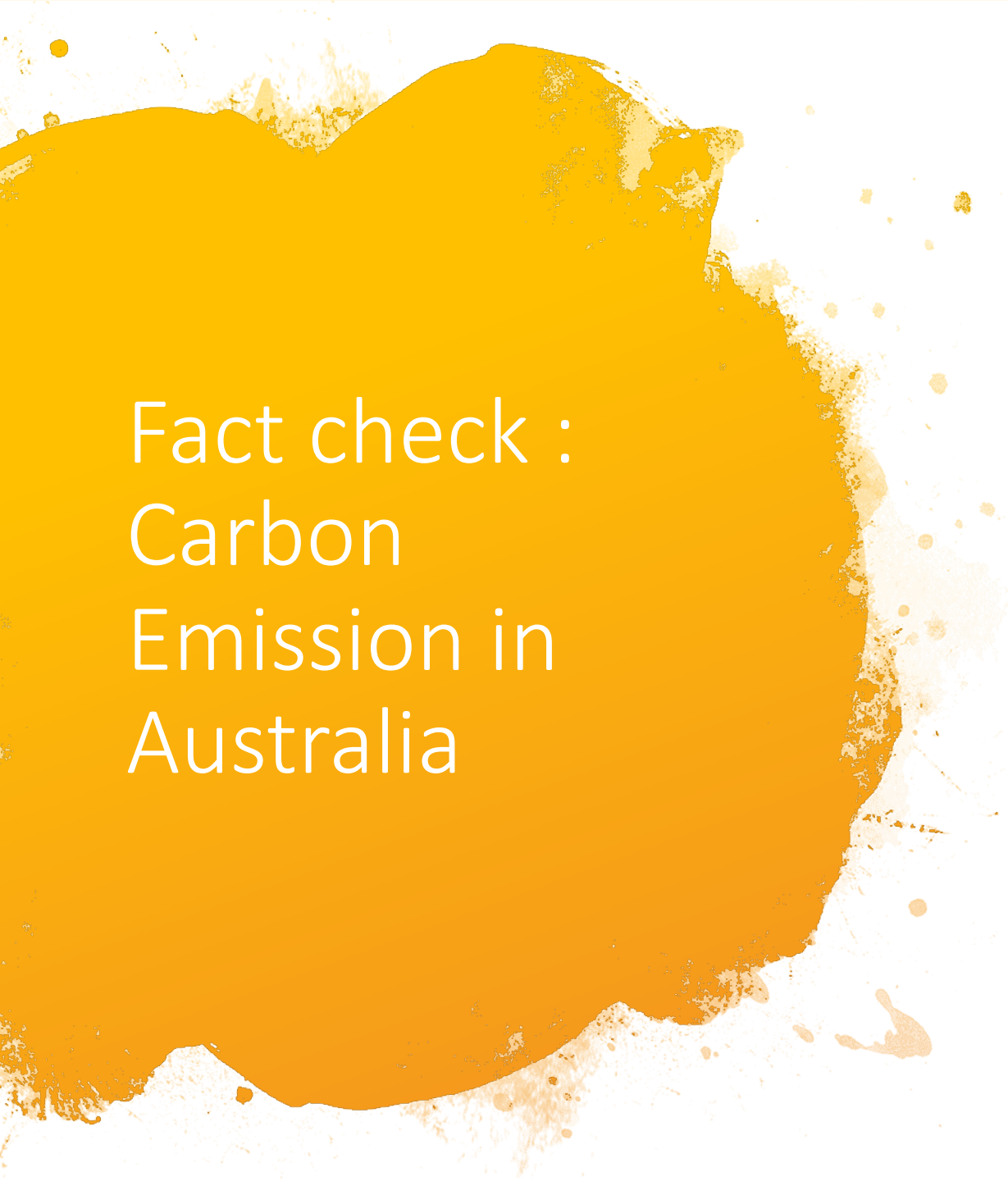


The background of the slide is a large, irregular orange watercolor splash. The splash is centered and has a textured, painterly appearance with various shades of orange and yellow. It has several smaller splatters and droplets extending outwards from the main shape, particularly towards the top and bottom edges. The overall effect is vibrant and artistic.

FIT5147 Final Project ----Presentation

By Tian ZHAI



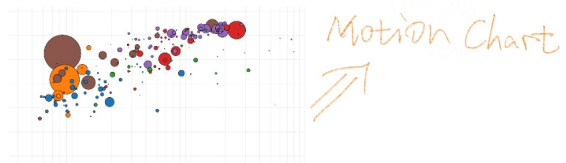
Fact check : Carbon Emission in Australia

- **What are the facts on Australia's Carbon Emissions?**
- Australia produced 447 million tons Co₂ in year 2017, which was only Rank 27 among other countries. At the mean time, China had produced 10 billion ton, over 23 times than Australia.
- **Australia** has one of the highest per capita **emissions** of **carbon** dioxide in the world (Rank 2 in year 2014)

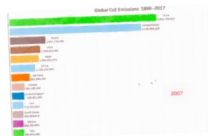
IDEAS

FACTs

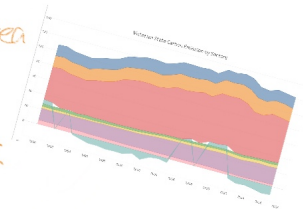
- Government & Uni. are working hard to achieve net zero
- Total CO₂ emission rank: AUS (19th)
- Per capita CO₂ emission rank: AUS (2nd at 2014)



Bar chart



Stacked area chart



Filter

- Years
- Countries
- Sectors



<



Country: Australia

Year: 2000

CO₂ emission: 57,659 tons

Filter: drop-down list

users can select the year from 1980 to 2017

Layout
Focus

Title: The bubble map of the world CO₂ emission

Author: Tian Zhai

Date: 10/06/2020

Sheet: I - FDS 2

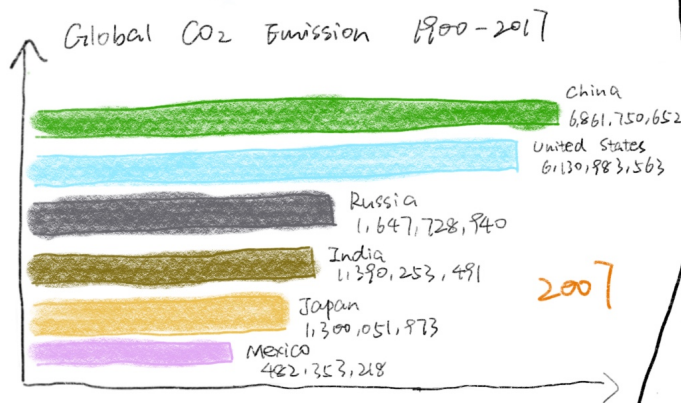
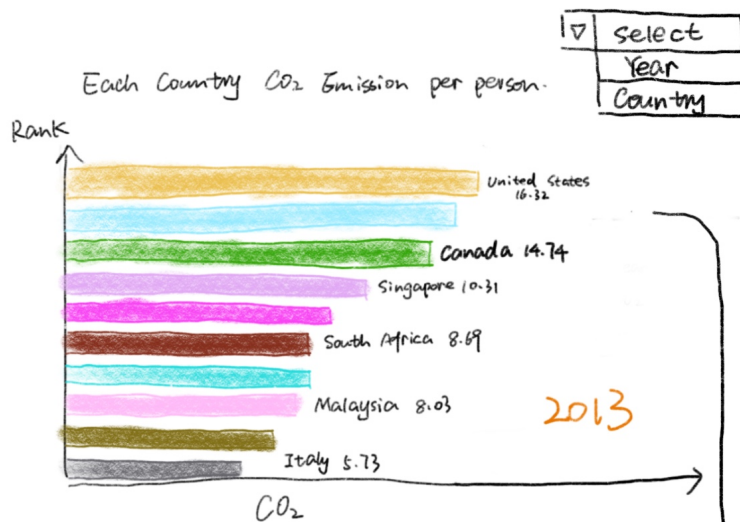
TASK: describe the total CO₂ emission for each country from the year 1980 to 2017

- 1) Data Pre-load
- 2) Hover - over
- 3) Mapbox API
- 4) The size of the circle indicates the value of CO₂ emission of each country
- 5) Color bubble

Operation

Discussion

- Users can make general distinguish for the rank of global CO₂ emission by the size of the bubble
- Provide details of the selected country



Country = Australia
Year : 2013
Rank : 2

Title: The bar chart for each country CO₂ emission per capita & global CO₂ emission

Author: Tian Zhai

Date: 10/06/2020

Sheet: 2 - FDS3

Task: Provide detailed rank and data for each country about CO₂ emission

1) Data pre-load

2) Hover-over

3) Click & Highlight the specific value

Operation

Discussion

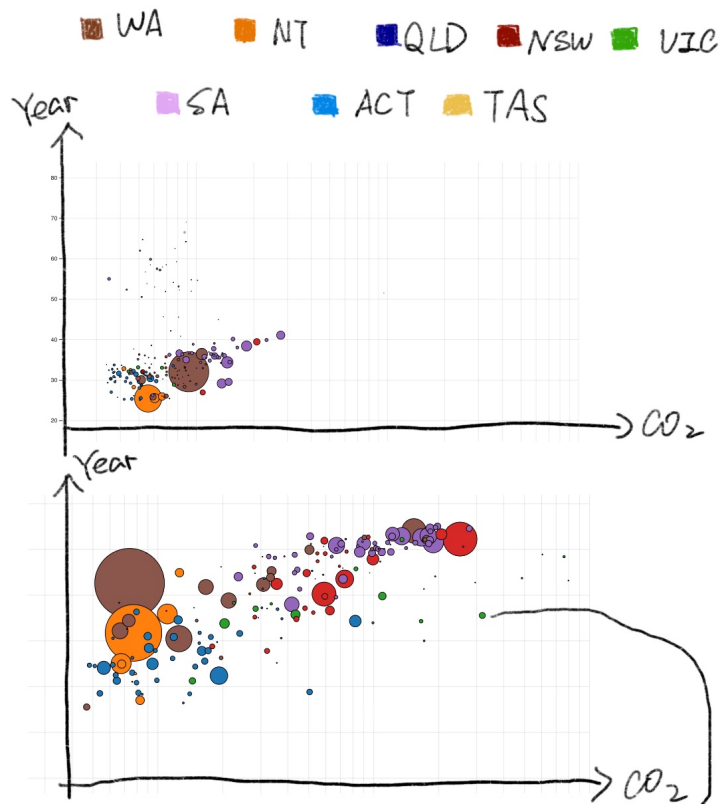
1) Users can click the specific data & data will be highlighted

2) Detailed ranking & data will be provided

3) Data visualisation

Layout

Focus



Title: The motion chart for different states in Australia about CO₂ emission

Author: Tian zhai

Date: 10/06/2020

Sheet: 3-FDS4

Task: describe the CO₂ emission in different states of Australia

1) Pre-load

2) Hover-over

Layout operation

Focus Discussion

State: Victoria

Year: 2008

CO₂ emission: 6,000

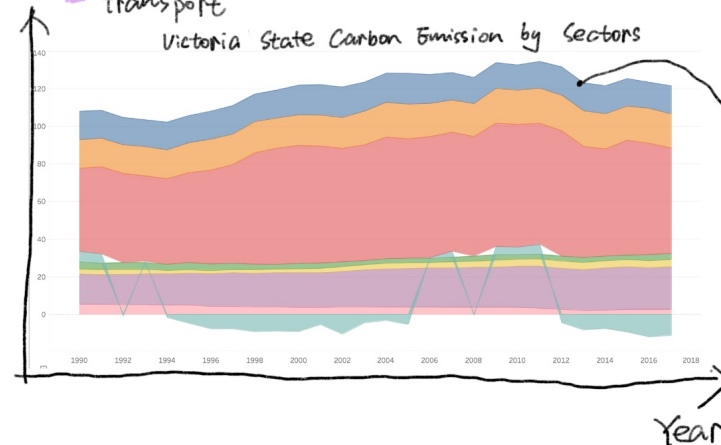
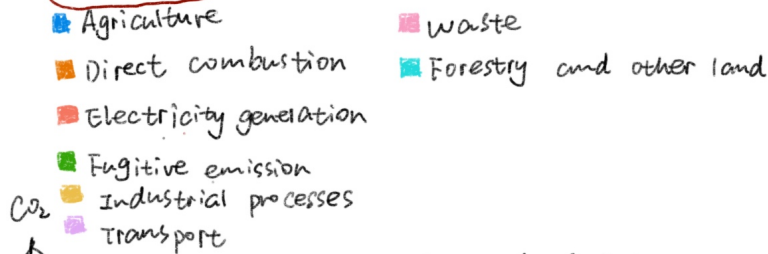
1) Users can touch the bubble to afford tooltips

2) To show more dimensions of data simultaneously

3) To show high level patterns

4) To dazzle users

Legend



Tool tip:

Sector: Agriculture
Year: 2012
CO₂ emission: 115

Title: The stacked area chart of CO₂ emission for different sectors

Author: Tian Zhai

Date: 10/06/2020

Sheet: 4-FDSS

Task: describe the CO₂ emission in different sectors

1) Highlight the value

2) Hover-over

3) Data Pre-loaded

Operation

Discussion

1) Provide tooltips for users when they click the chart

2) Data visualisation