SMU | School of
**Computing and
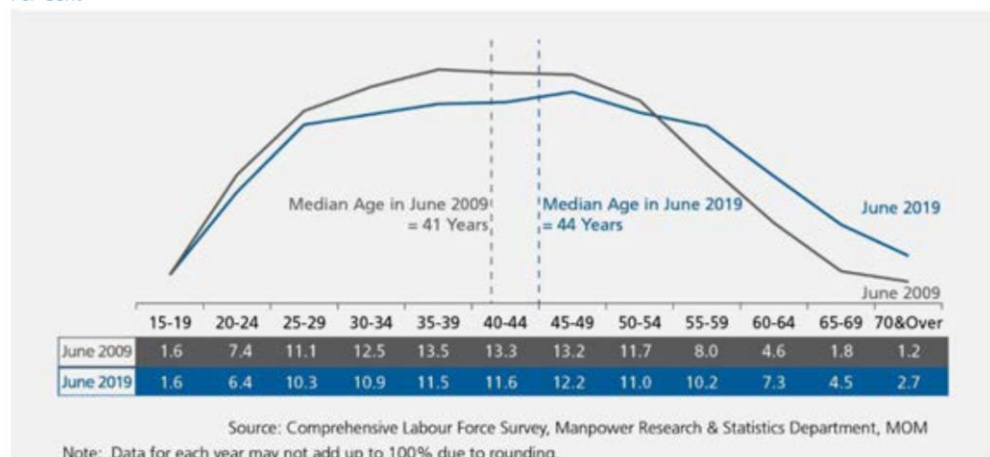Information Systems**

ISSS608 Visual Analytics and Applications

DataViz Makeover 1

The Data Visualisation

1.6   With population ageing[9] and sustained rise in LFPR of older residents, the share of residents aged 55 & over in the labour force rose substantially from 16% in 2009 to 25% in 2019. Meanwhile, the share of the resident labour force aged 25 to 54 declined from 75% to 67% even as their LFPR increased, as the population cohorts moving into these age bands were smaller than those who moved out due to lower birth rates.[10] As a result, the median age of residents in the labour force rose from 41 years in 2009 to 44 years in 2019.

Chart 6   Resident labour force by age
Per Cent

	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70&Over
June 2009	1.6	7.4	11.1	12.5	13.5	13.3	13.2	11.7	8.0	4.6	1.8	1.2
June 2019	1.6	6.4	10.3	10.9	11.5	11.6	12.2	11.0	10.2	7.3	4.5	2.7

Source: Comprehensive Labour Force Survey, Manpower Research & Statistics Department, MOM
Note: Data for each year may not add up to 100% due to rounding.

Data Source

The original source of this chart can be found on page 22 of Report: Labour Force in Singapore 2019.

The data is available at https://stats.mom.gov.sg/Pages/Labour-Force-Tables2019.aspx, Table 5: RESIDENT LABOUR FORCE PARTICIPATION RATE BY AGE AND SEX, 2009 - 2019 (JUNE).

The Task

a. Critic the graph from both its clarity and aesthetics. At least three from each evaluation criterion.

(15 marks)

b. With reference to the critics above, suggest alternative graphical presentation to improve the current design. The proposed alternative data visualisation must be in **static** form. Sketch out the proposed design. Support your design by describing the advantages or which part of the issue(s) your alternative design try to overcome.

(15 marks)

c. Using Tableau, design the proposed data visualization.

(30 marks)

d. Provide step-by-step description on how the data visualization was prepared.

(25 marks)

e. Describe three major observations revealed by the data visualisation prepared.

(15 marks)

Deliverable

- Upload the deliverable for (c) onto Tableau Public (https://public.tableau.com/s/) and the remaining sections (a), (b), (d) and (e) in a web blog document. You are required to provide the links for both the web blog and Tableau Public on eLearn and on course wiki.

Submission date

28th January 2021 (Thursday), mid-night 11:59pm.