

Move! Office Ladies!

A report of a data analysis on helping Bellabeat marketing strategy

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Project Background

- Bellabeat is a high-tech company that manufactures **health-focused smart products**.
- Its products collect data on **activity, sleep, stress, and reproductive health** to empower women with knowledge about their own health and habits.
- It believes that analyzing smart device fitness data could help unlock **new growth opportunities** for the company

Data Source

- Source: Amazon Mechanical Turk
- Date range: April 12th 2016 and May 12th 2016
- The measurement the health metrics Fitbit users, like heartrate, calories burned,intensity and steps taken in a given time interval

Business Task

- Find out the trend of **how** people are using their smart devices and how it can be applied to a product in Bellabeat.
- Give high-level recommendations on Bellabeat **marketing** strategy.

Marketing Strategy Advice

- ❖ Product applied to
- ❖ Promotion Target
- ❖ Core Value

- **Marketing Strategy** – Product applied to

a) Bellabeat membership,

b) which is a subscription-based **membership** program that gives users 24/7 access to fully personalized guidance on nutrition, activity, sleep, health and beauty, and mindfulness based on their **lifestyle and goals**.

- Marketing Strategy – Promotion Target

a) Women

b) Busy with work and start to have a higher body fat level

c) Believe in healthy life style and want to stay active and get into a good shape with the time after work

- Marketing Strategy – Core Value

- a) The belief of work-life balance
- b) Help women manage their body in an flexible and friendly way with our membership.

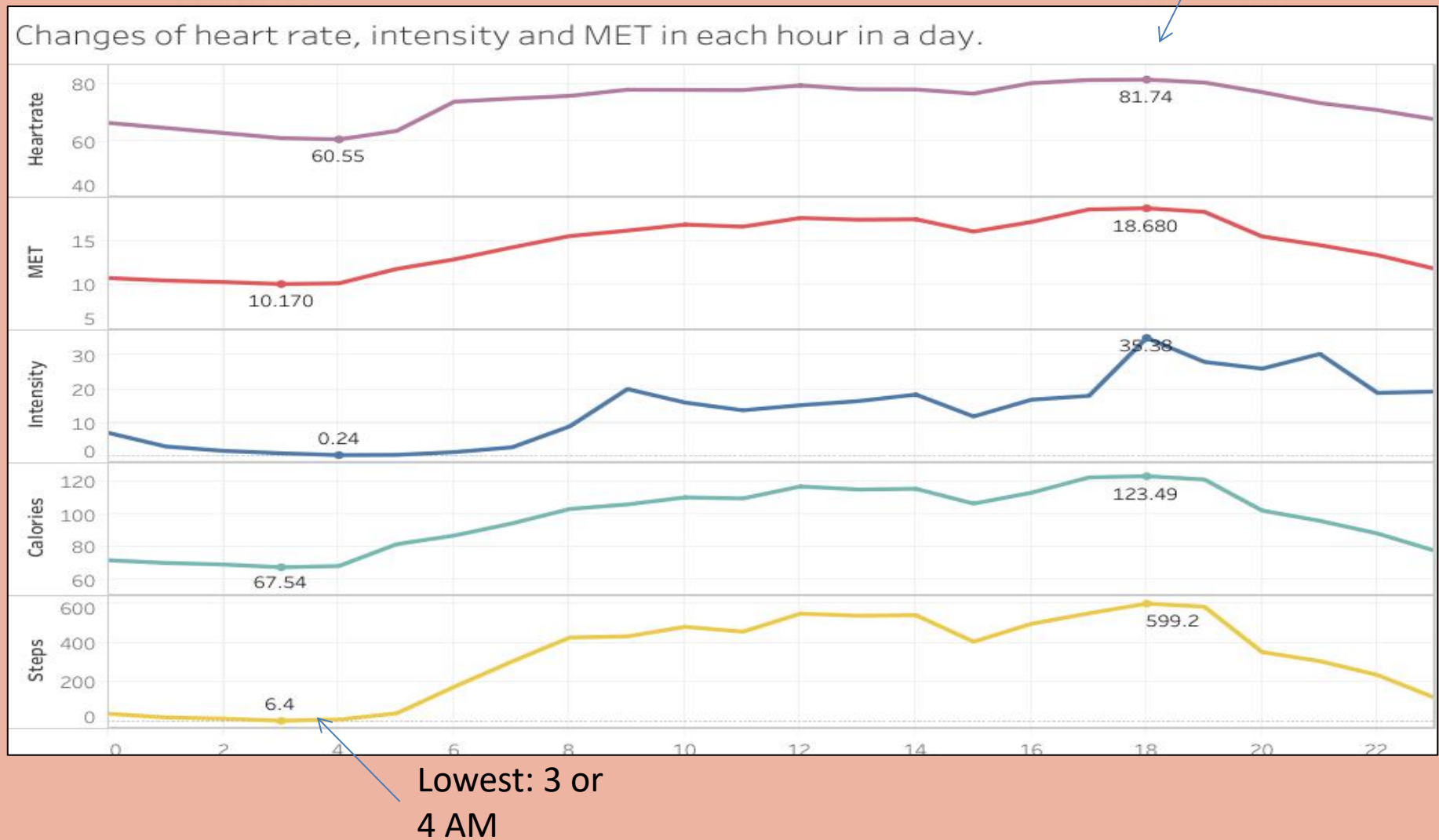
Data Analysis Results

- Result 1

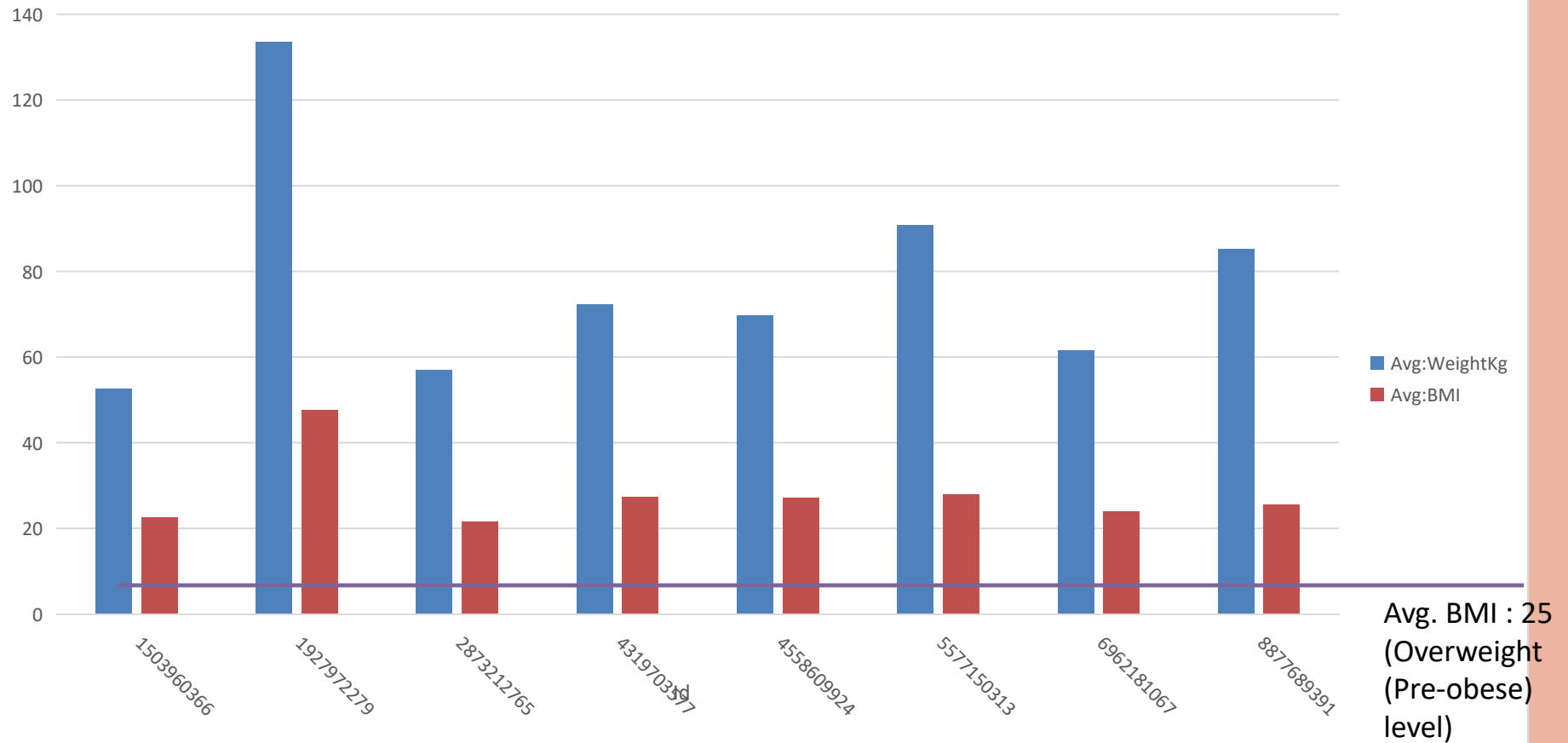
No.	Dataset	Completeness Level	Number of Fitbit users involved
1	calories_hourly	90.99%	33
2	calories_daily	91.89%	33
3	intensity_daily	91.89%	33
4	intensity_hourly	90.99%	33
5	MET_minute	90.96%	33
6	sleep_daily	55.11%	24
7	steps_daily	91.89%	33
8	steps_hourly	90.99%	33
9	Heartrate_hour	58.36%	14
10	user_info	29.91%	8
12	MET_hourly	90.96%	33

Completeness Level = Number of Total Dataset rows/(Number of Unique Ids * Number of supposed observations) *100

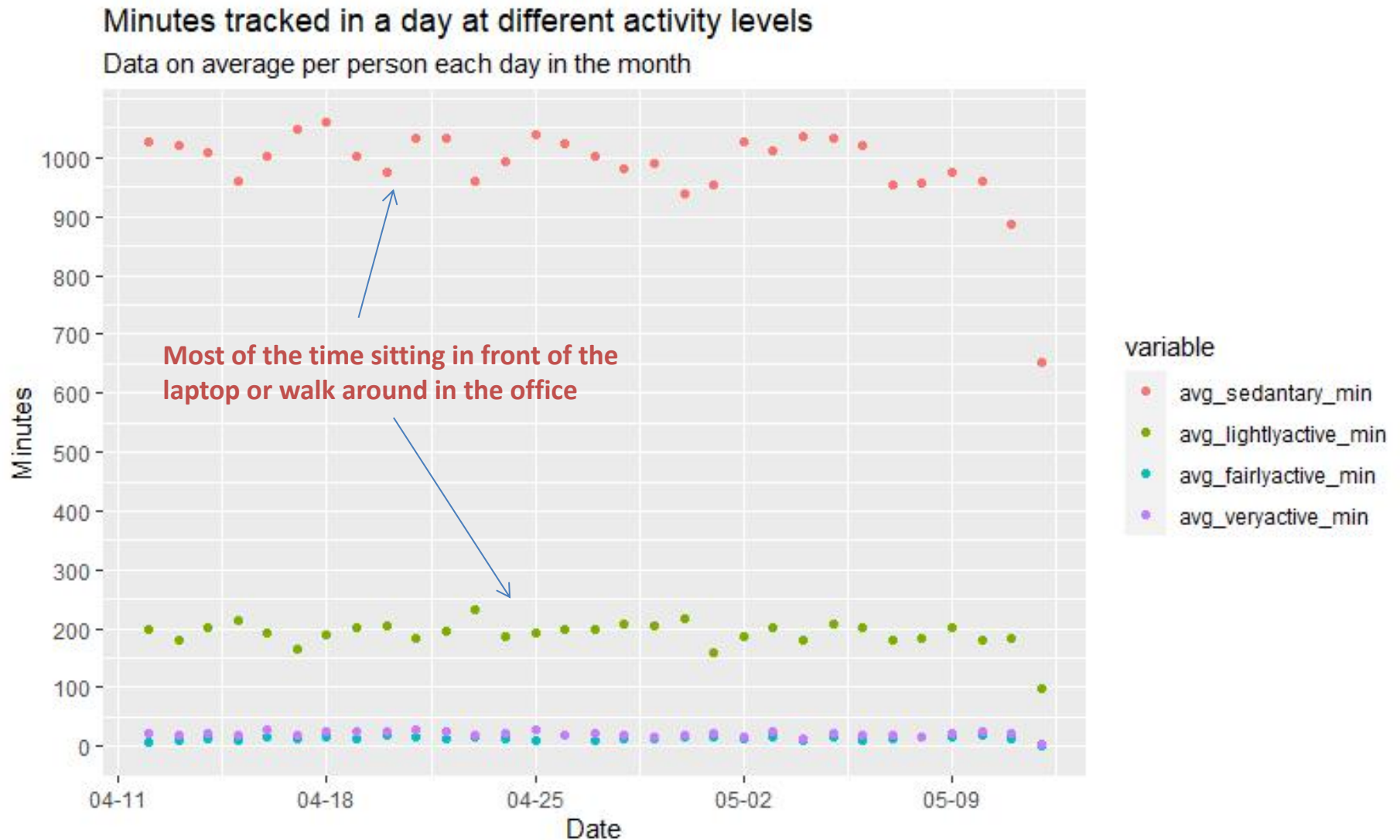
- Result 2



The average weight and BMI value of each user from Apr 12th to May 9th in 2016



• Result 3



30 – 40 minutes a day to be truly active (run, do cardio, cycling or do all kinds of sports)

Fairly active and very active minutes tracked in a day

Data on average per person each day in the month



Limitations

- Timeliness : Data collected back in 2016, which is five years ago.
- Small sample size : 33
- Gender difference : Between the sample population and our target customers

Further actions

- More investigations on the activities of the working women, in order to decide **effective promotion channels**.
- Dive into the **reasons behind** people's ways of their wearable device, for example, why they don't like using it to track their sleeping data?
- More analysis on other **up-to-date data at a larger sample size** to verify or develop the business ideas.

Thank you!

Q&A