



MARKETING SEGMENTATION

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Definition of Market Segmentation

- ★ Markets are heterogeneous: consumer demand varies on the basis of demographic, socio-economic, lifestyle and other factors
- ★ In order to be competitive, firms must account for market heterogeneity
- ★ The Internet has exacerbated market fragmentation, with companies able to communicate with and target very small groups and even individuals



Purposes of Market Segmentation

Process of dividing an heterogeneous consumer or business market into relatively homogeneous sub-groups of customers (market segments) with similar needs and wants



STP Framework for Marketing Planning



A diagram illustrating the STP Framework for Marketing Planning. It features three colored rounded rectangles (green, orange, and blue) arranged horizontally, each containing a step of the framework. These rectangles are positioned within a large, light blue arrow that points from left to right, indicating a sequential process. The background is white, and the title is at the top in yellow text on a dark red banner.

Segmentation

Targeting

Positioning



Identify bases for
segmentation

Determine important
characteristics of each
segment

Evaluate current and
potential attractiveness
of each mkt. segment

Select one or more
target segments

Develop detailed
product positioning for
each target segment

Develop a marketing
mix for each target
segment

Segmentation



Segmentation

Targeting

Positioning

Market Segmentation Process



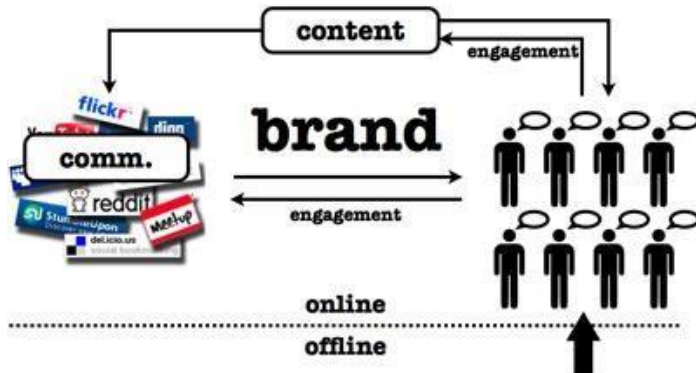
Types of Segmentation



Businesses selling to businesses (B2B)

Please give examples of B2B

social media: b2c.



Businesses selling to consumers (B2C)

Bases for Segmentation (B2B)

- ★ Industry
- ★ Business Size
- ★ Business location
- ★ Business technology
- ★ Purchasing approach
- ★ (...)

Bases for Segmentation (B2C)



- ✧ *Internal segment homogeneity*
- ✧ *external segment heterogeneity*

Demographic Segmentation

Quantifiable population characteristics
(e.g. age, gender, income, education, ethnicity, family size)

e.g. YUPPY; MUPPY;
DINKS; GLAMS; Empty-nester, Full-nester



Geographic Segmentation

Physical location or
region

e.g. Southeast Asia;
urban; rural; remote



Phsycographics Segmentation

Lifestyle, social or personality characteristics
(activities, interests and opinions)

Normally includes basic demographic descriptors)

e.g. Health conscious; style conscious; traditionalists; conservatives; young professionals



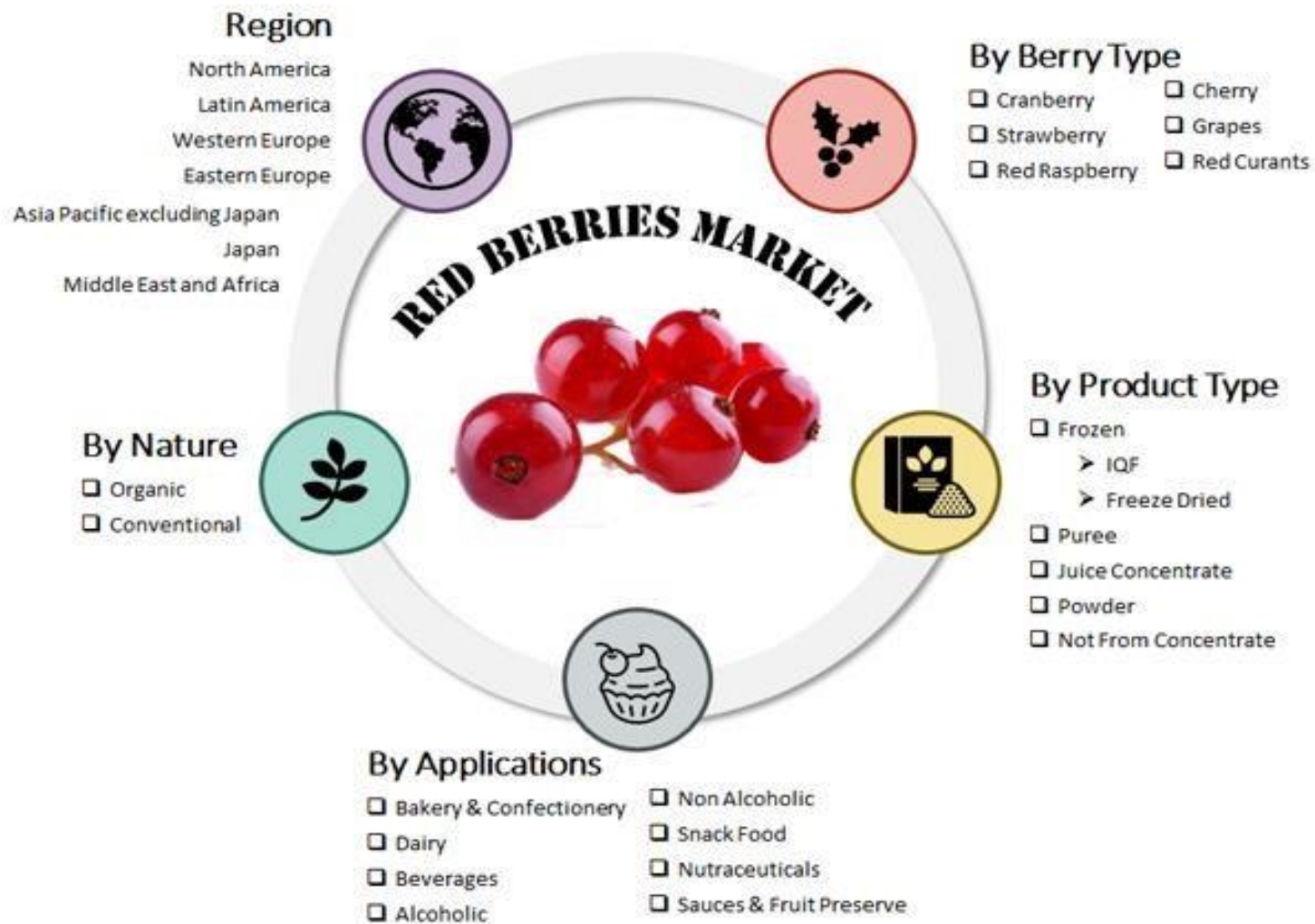
Behavioral Segmentation

Purchasing, consumption or usage behavior
(e.g. needs-based, benefit-sought, usage occasion, purchase frequency, customer loyalty, buyer readiness)

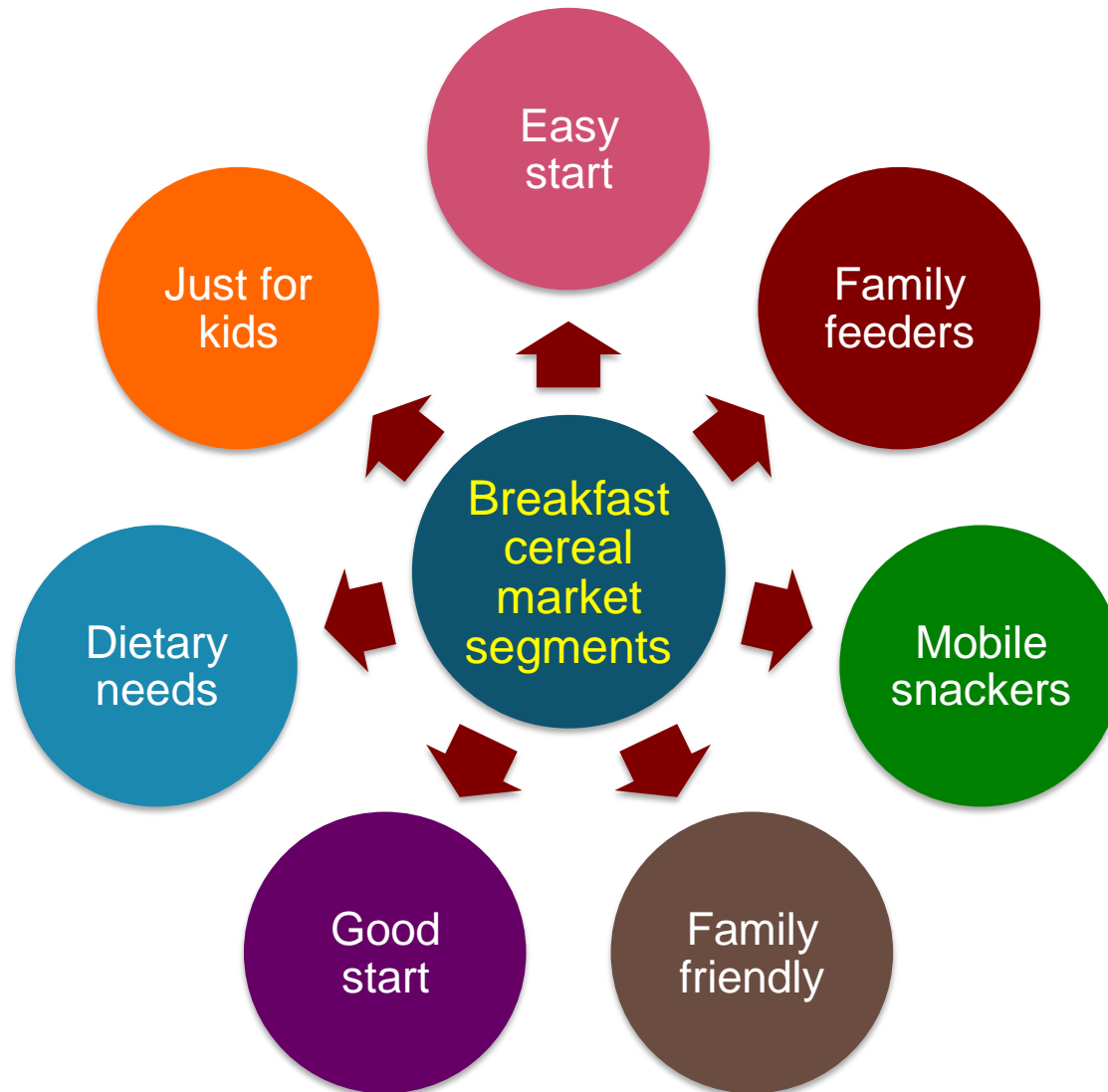
e.g. Tech-savvy; heavy users; enthusiasts; early adopters; opinion leaders; luxury-seekers; price-conscious; quality-conscious; time-constrained



Segmenting the Red Berries Market



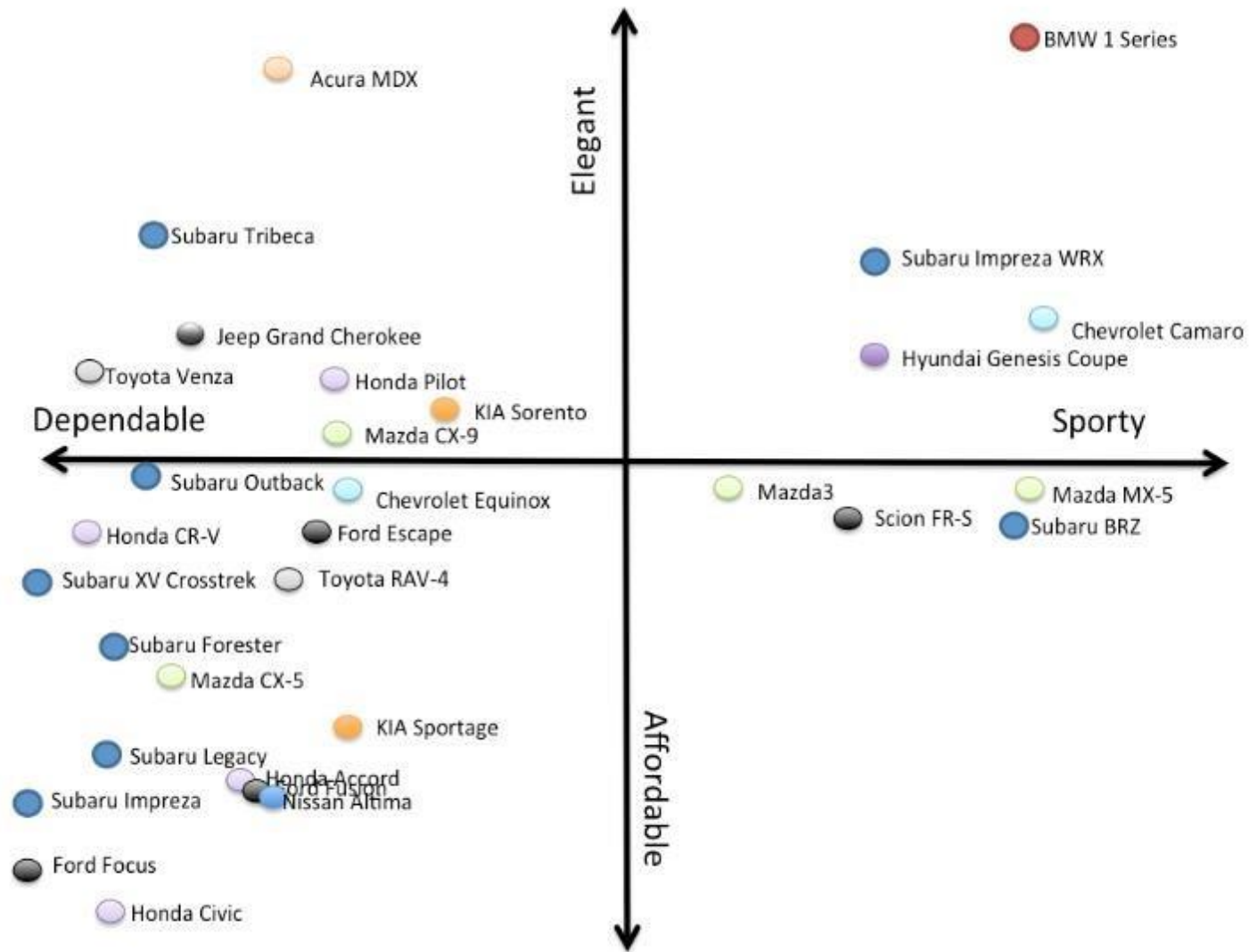
Segmenting the Breakfast Cereal Market



Segmenting the Car Market



Another Example from the Car Industry



Targeting



Segmentation

Targeting

Positioning

Criteria for Selecting Target Markets

1. Segment size and growth
2. Segment structural attractiveness
3. Company objectives and resources



Segment Size and Growth

- ★ How large is the market?
- ★ Is the market segment large enough to be profitable?
- ★ Is the market segment growing?
- ★ What are the indications that growth will be sustained in the long term?
- ★ Is the segment stable over time?



Segment Size

Traditional foodstore sales by segment, 2011

Retail food and nonfood sales were \$571 billion in 2011

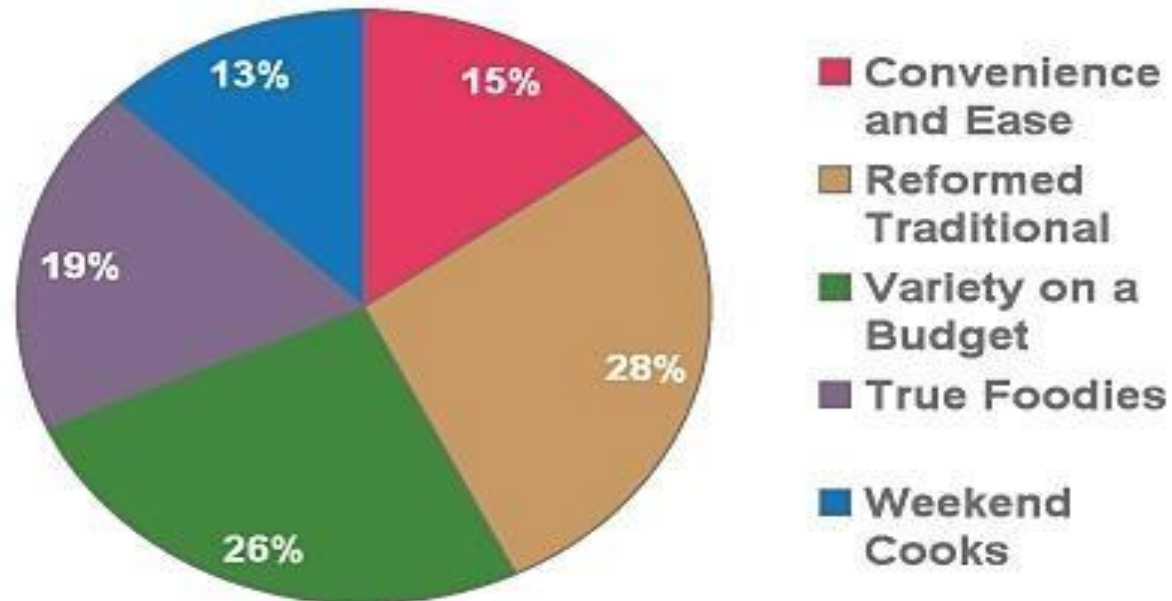


- Grocery stores, including supermarkets
- Convenience stores
- Specialized stores

Source: U.S. Census Bureau, Annual Retail Trade Report, 2011.

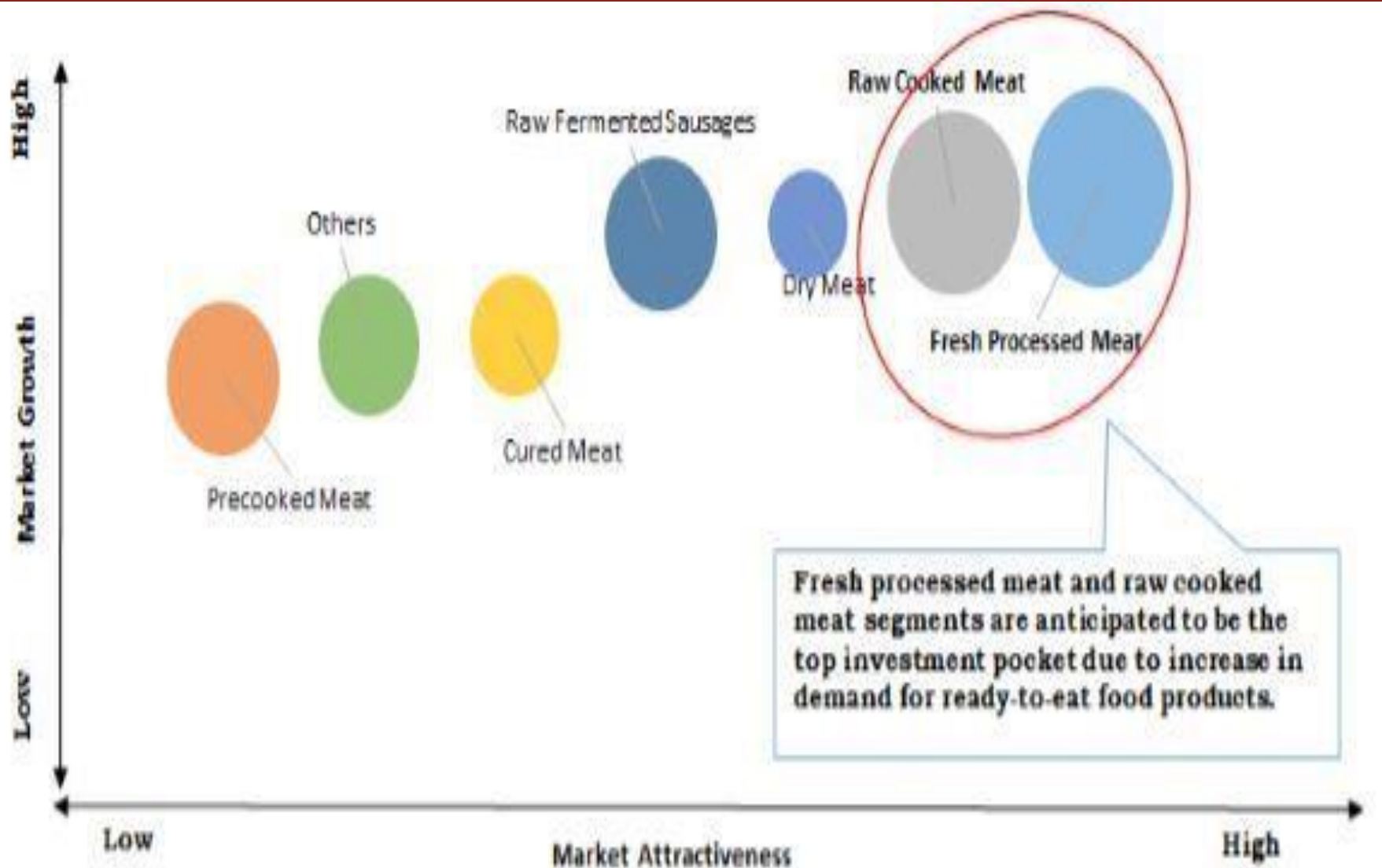
Segment Size

New Segmentation Solution: Food Lifestyle



Source: Experian Simmons National Consumer Study/Hispanic Consumer Study Summer 2009 Full Year, Food Lifestyle Segmentation System

Segment Growth

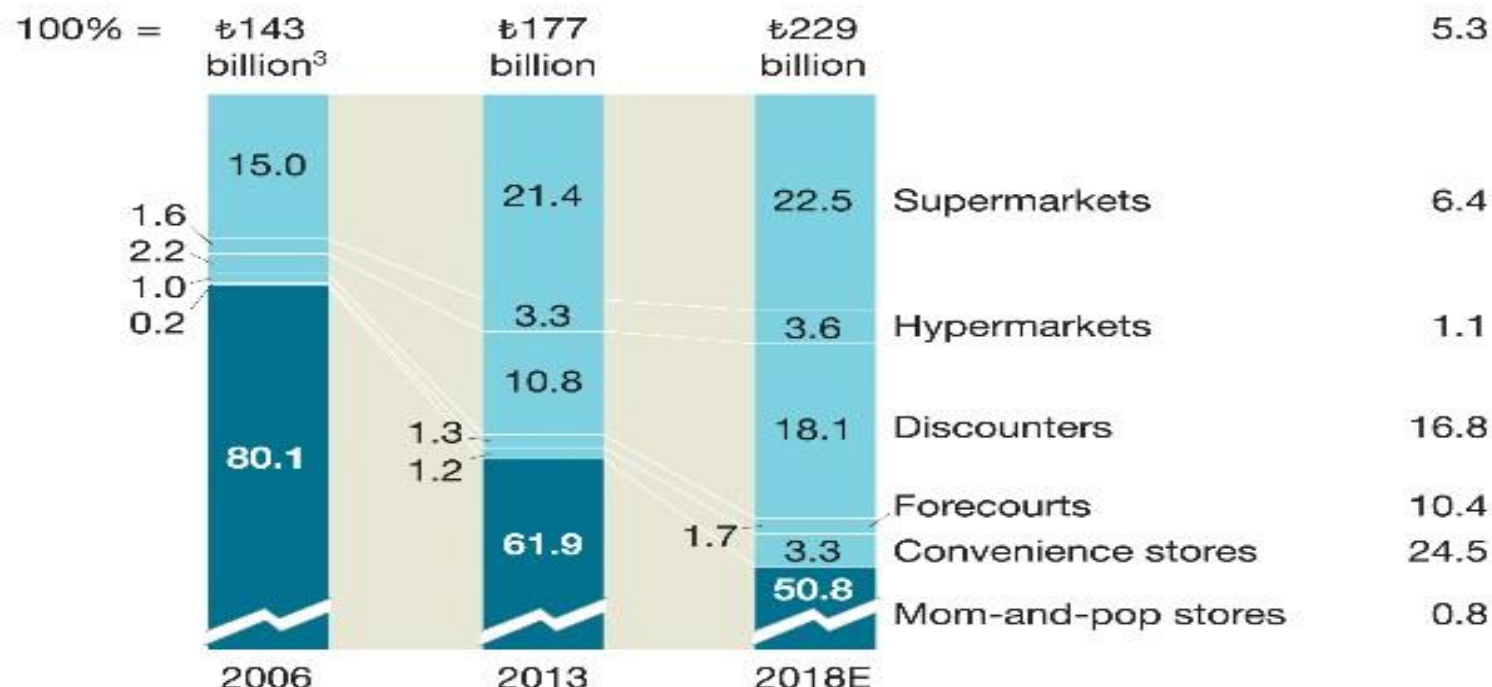


Segment Growth

The channel structure in Turkish retail is changing rapidly.

Grocery retail by channel, %¹

**CAGR,²
2013–18, %**



¹Figures may not sum to 100%, because of rounding.

²Compound annual growth rate.

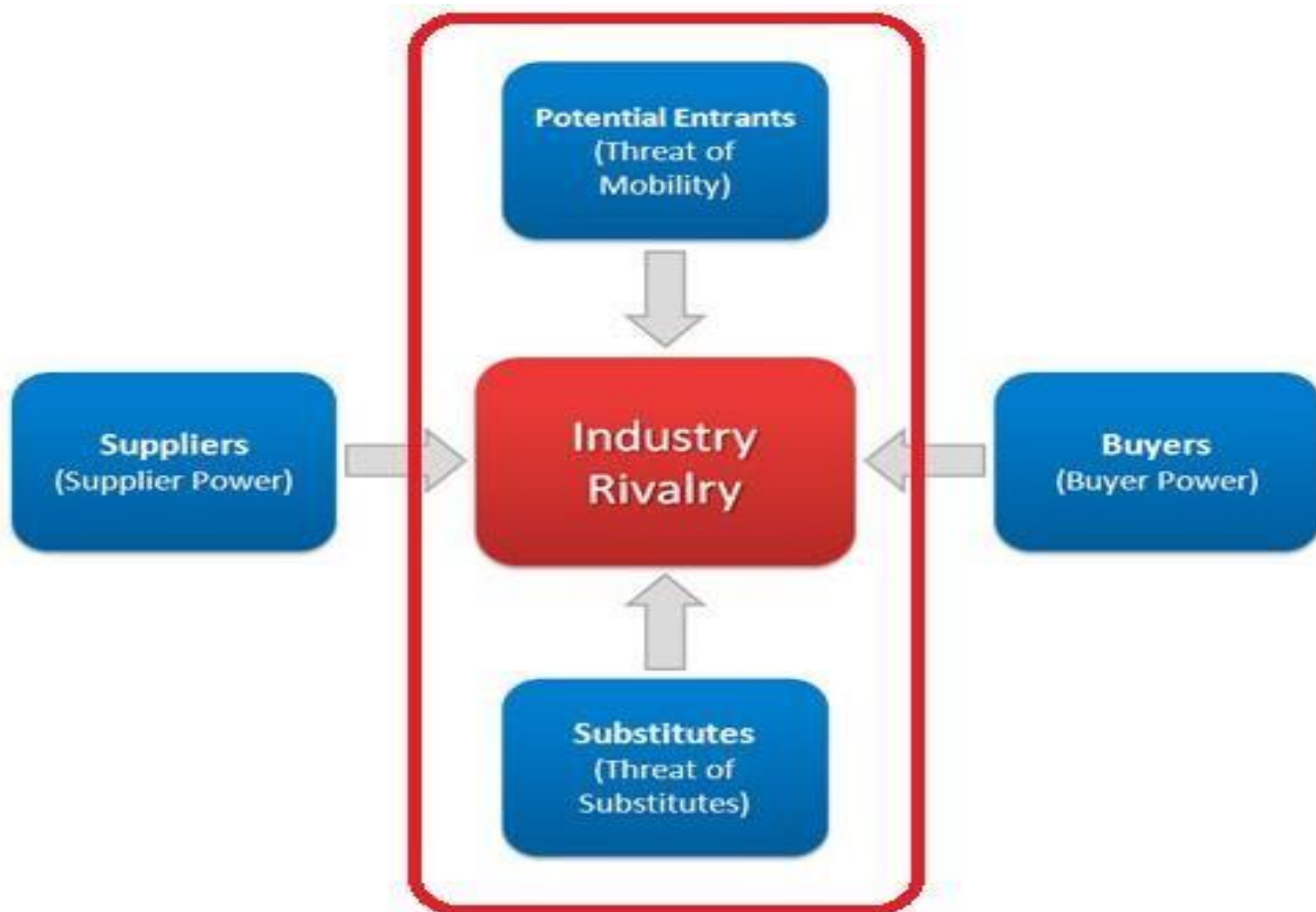
³As of Aug 2015, \$1.0 = ₺2.8.

Segment Structural Attractiveness

- ★ To what extent are competitors targeting this market segment?
- ★ Do buyers have strong bargaining power?
- ★ Are substitute products available?
- ★ Can we develop a viable, differentiated position in the segment?
- ★ How responsible are customers in the segment to the marketing program?
- ★ Is this market segment reachable and accessible?



Porter's Diamond

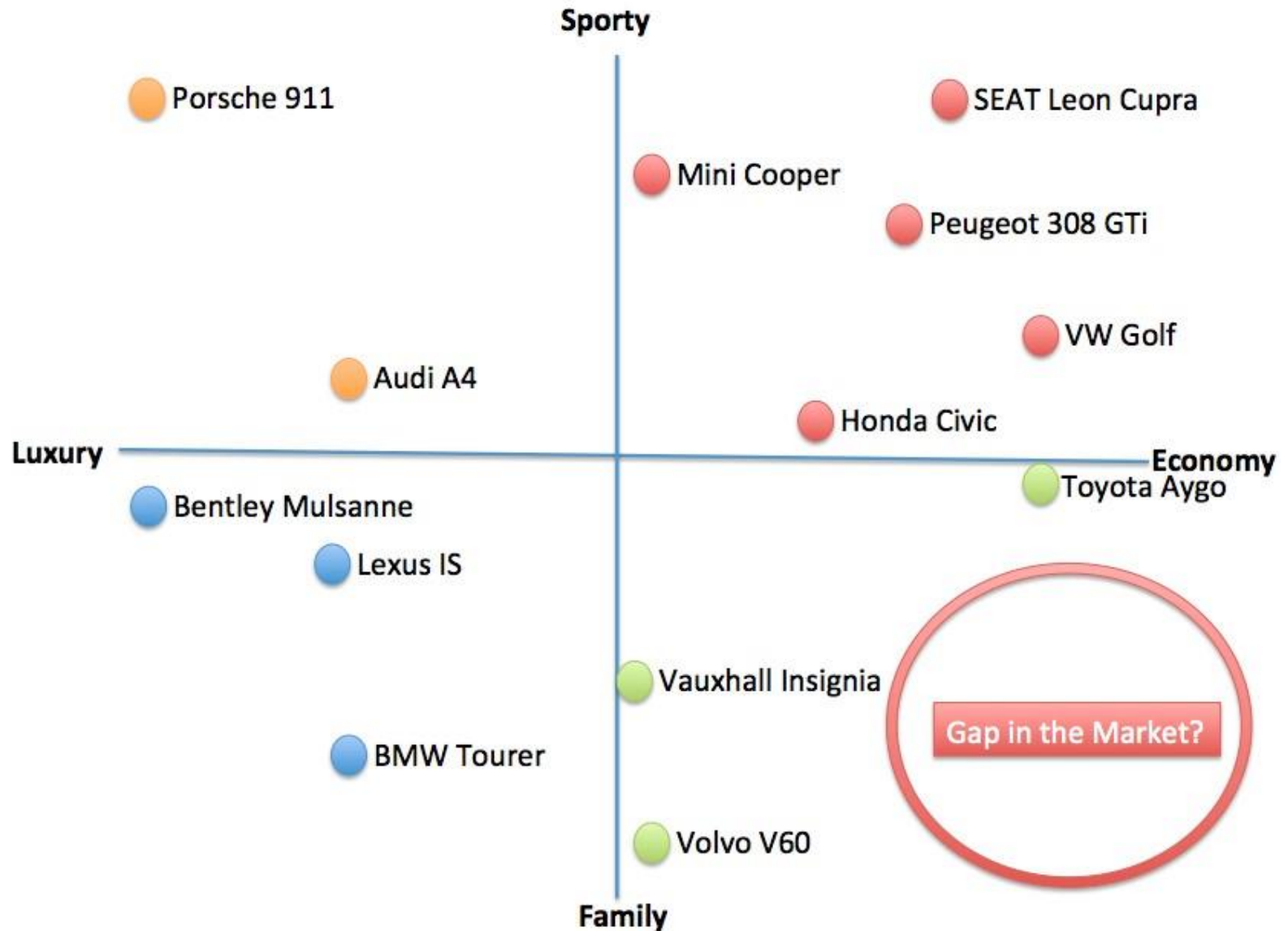


Company Objectives and Resources

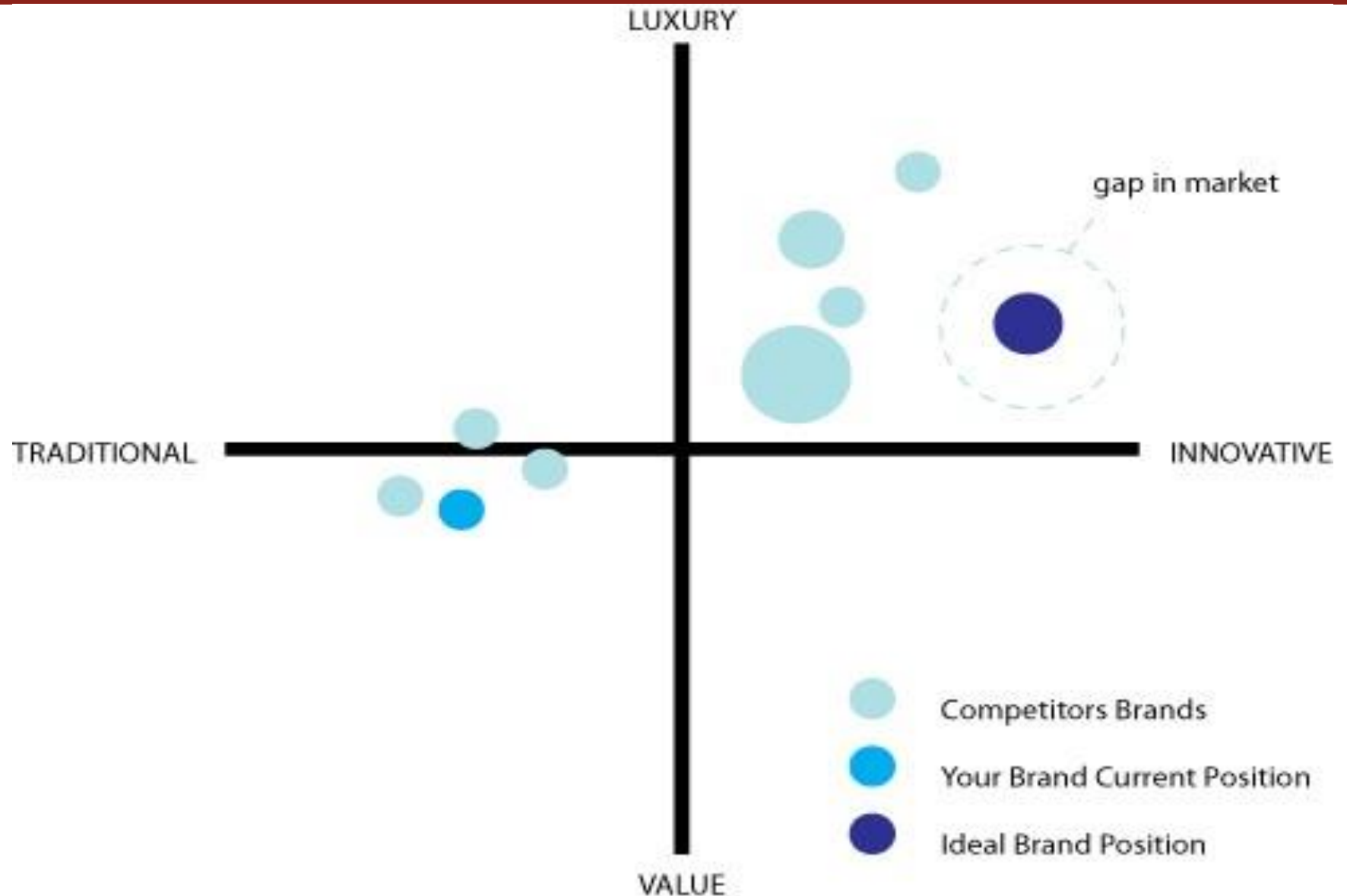
- ★ Do we have the resources necessary to enter this market segment?
- ★ Do we have prior experience with this or similar market segments?
- ★ Do we have the skills and know-how to enter this segment successfully?



An example from the car industry



Another example from the Car Industry



Main Strategic Approaches to Segmentation

Number of segments	Segmentation strategy	
Zero	Undifferentiated strategy	Mass marketing: no segmentation
One	Focus strategy	Niche marketing: focus on a small, tightly defined target market (e.g. organic)
Two or more	Differentiated strategy	Multiple niches: focus efforts on two or more tightly defined targets
Thousands	Hypersegmentation strategy	One-to-one marketing: customize the offer for each individual customers

Please discuss the level of market segmentation of Cadbury

MARKET SEGMENTATION



Demographic

Age & Life Cycle

- Buyers come under the age group from 2 to 50

Gender

- Cadbury is meant for male as well as female

Income

- It is very reasonable and affordable

Factors Affecting Segmentation Strategy

- ★ Company resources
- ★ Product variability
- ★ Product life cycle
- ★ Market characteristics
- ★ Competitors' strategies



Targeting



Segmentation

Targeting

Positioning

Marketing Program or Marketing Mix (4Ps+)





Prototype Development`

➤ Defining the model

```
# Define K-means model  
kmeans_model = KMeans(init='k-means++', max_iter=400, random_state=42)
```

• Training the model

```
# Train the model  
kmeans_model.fit(customersdata[['Age', 'Annual Income (k$)', 'Spending Score (1-100)']])
```

• Creating the K-means model

```

# Create the K means model for different values of K
def try_different_clusters(K, data):

    cluster_values = list(range(1, K+1))
    inertias=[]

    for i in cluster_values:
        model = KMeans(n_clusters = i,init='k-means++',max_iter=600,random_state=42)
        model.fit(data)
        inertias.append(model.inertia_)

    return inertias

```

- Finding optimal number of clusters

we use **elbow method** for finding the optimal number of clusters

```

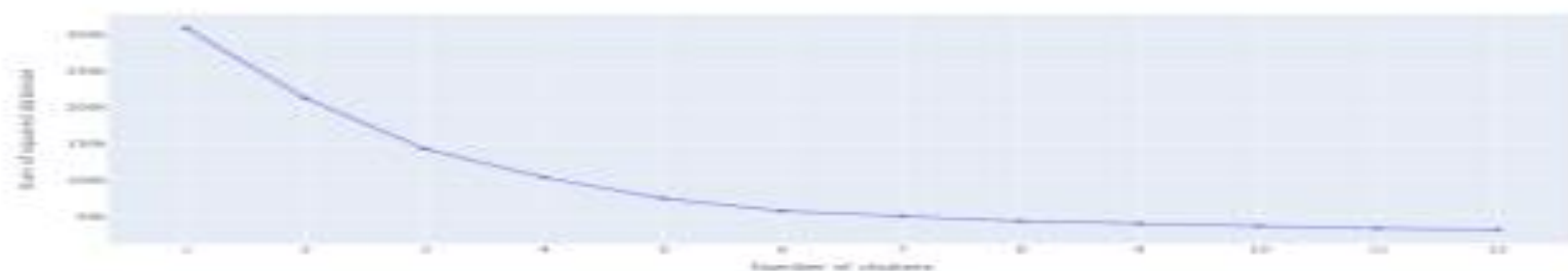
# Finding optimal number of clusters k
figure = go.Figure()
figure.add_trace(go.Scatter(x=distances["clusters"], y=distances["sum of squared distances"])))

figure.update_layout(xaxis = dict(tick0 = 1,dtick = 1,tickmode = 'linear'),
                      xaxis_title="Number of clusters",
                      yaxis_title="Sum of squared distances",
                      title_text="Finding optimal number of clusters using elbow method")

figure.show()

```

Finding optimal number of clusters using elbow method



- **Re-Training the model with 5 clusters**

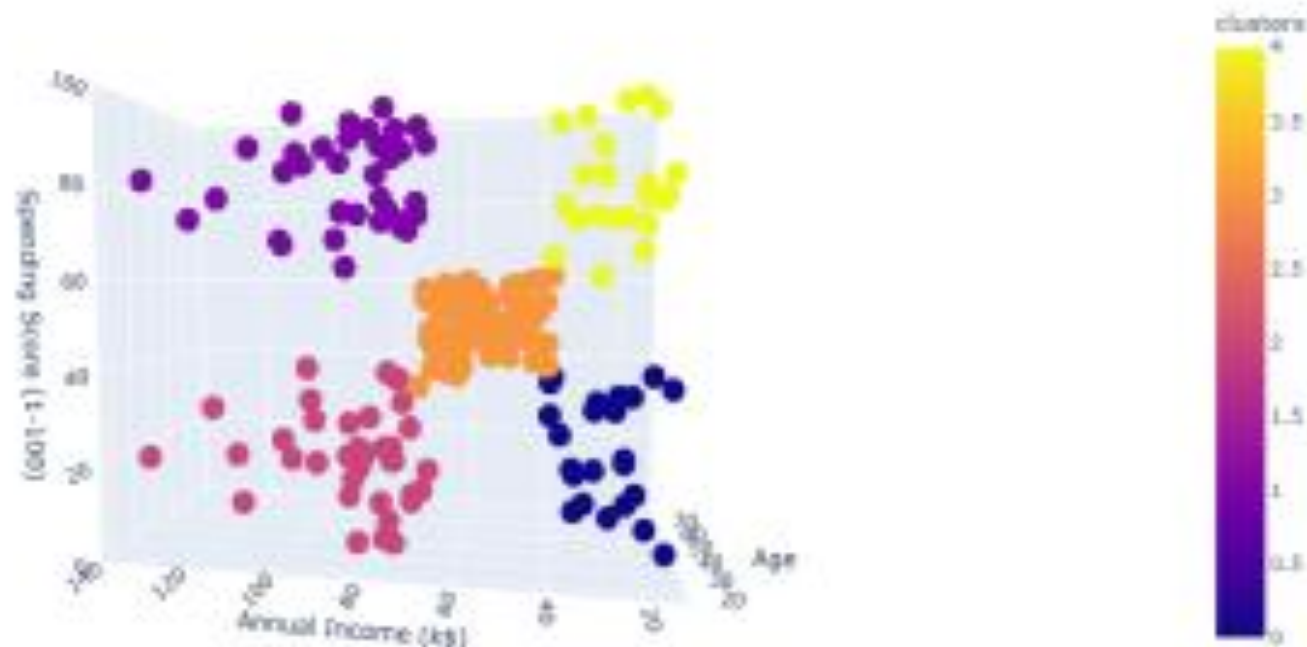
```
[38]: # Re-Train K means model with k=5
kmeans_model_new = KMeans(n_clusters = 5, init='k-means++', max_iter=400, random_state=42)

kmeans_model_new.fit_predict(customersdata[['Age', 'Annual Income (k$)', 'Spending Score (1-100)']])

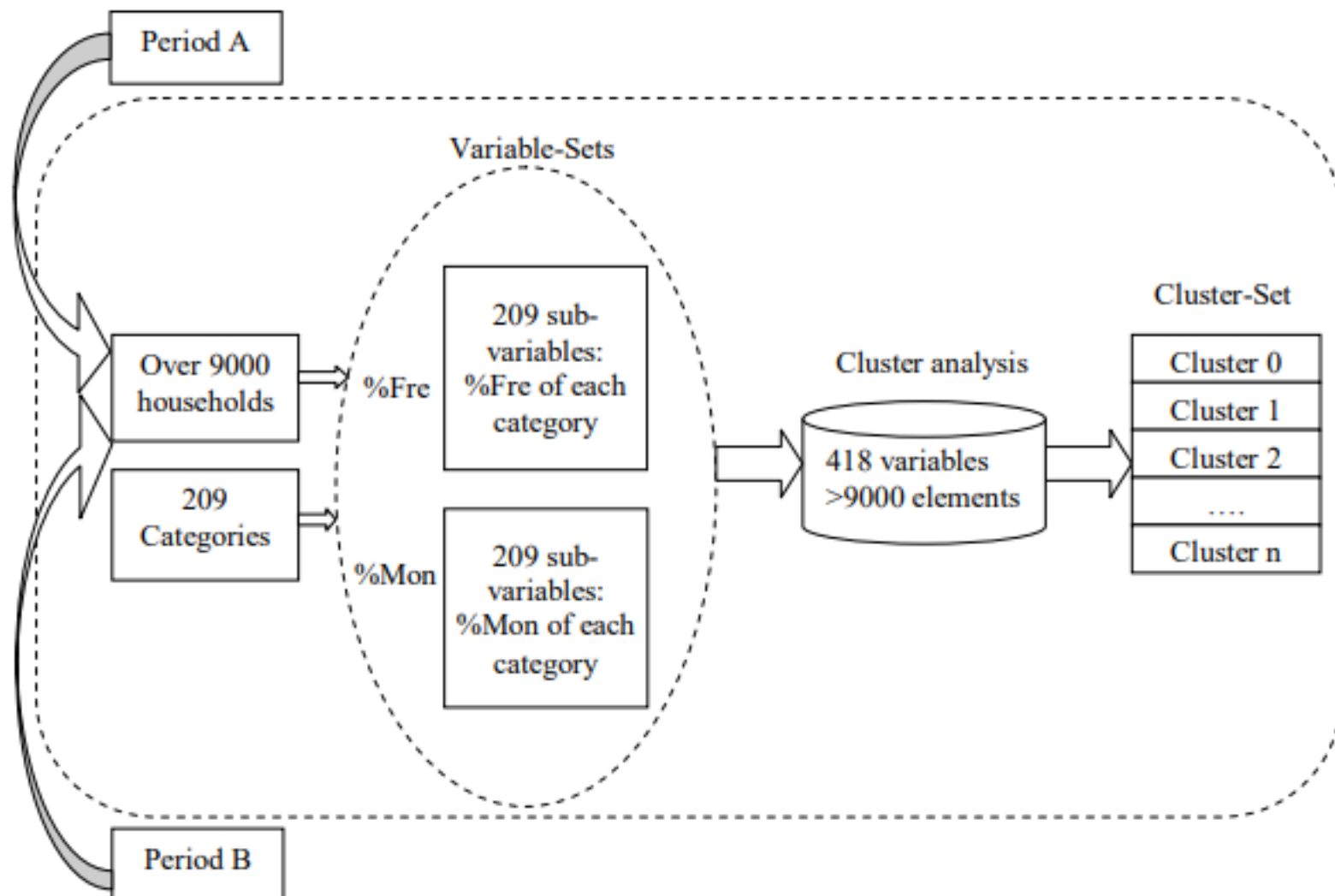
/usr/local/lib/python3.8/dist-packages/sklearn/cluster/_kmeans.py:870: FutureWarning:
The default value of 'n_init' will change from 10 to 'auto' in 1.4. Set the value of 'n_init' explicitly to suppress the warning
array([[0, 4, 0, 4, 0, 4, 0, 4, 0, 4, 0, 4, 0, 4, 0, 4, 0, 4, 0, 4,
        0, 4, 0, 4, 0, 4, 0, 4, 0, 4, 0, 4, 0, 4, 0, 4, 0, 4,
        0, 4, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,
        3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,
        3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,
        3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 1, 2, 1, 3, 1, 2, 1, 2, 1,
        2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1,
        2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1,
        2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1,
        2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1,
        2, 1], dtype=int32)
```

- **Visualizing the clusters**

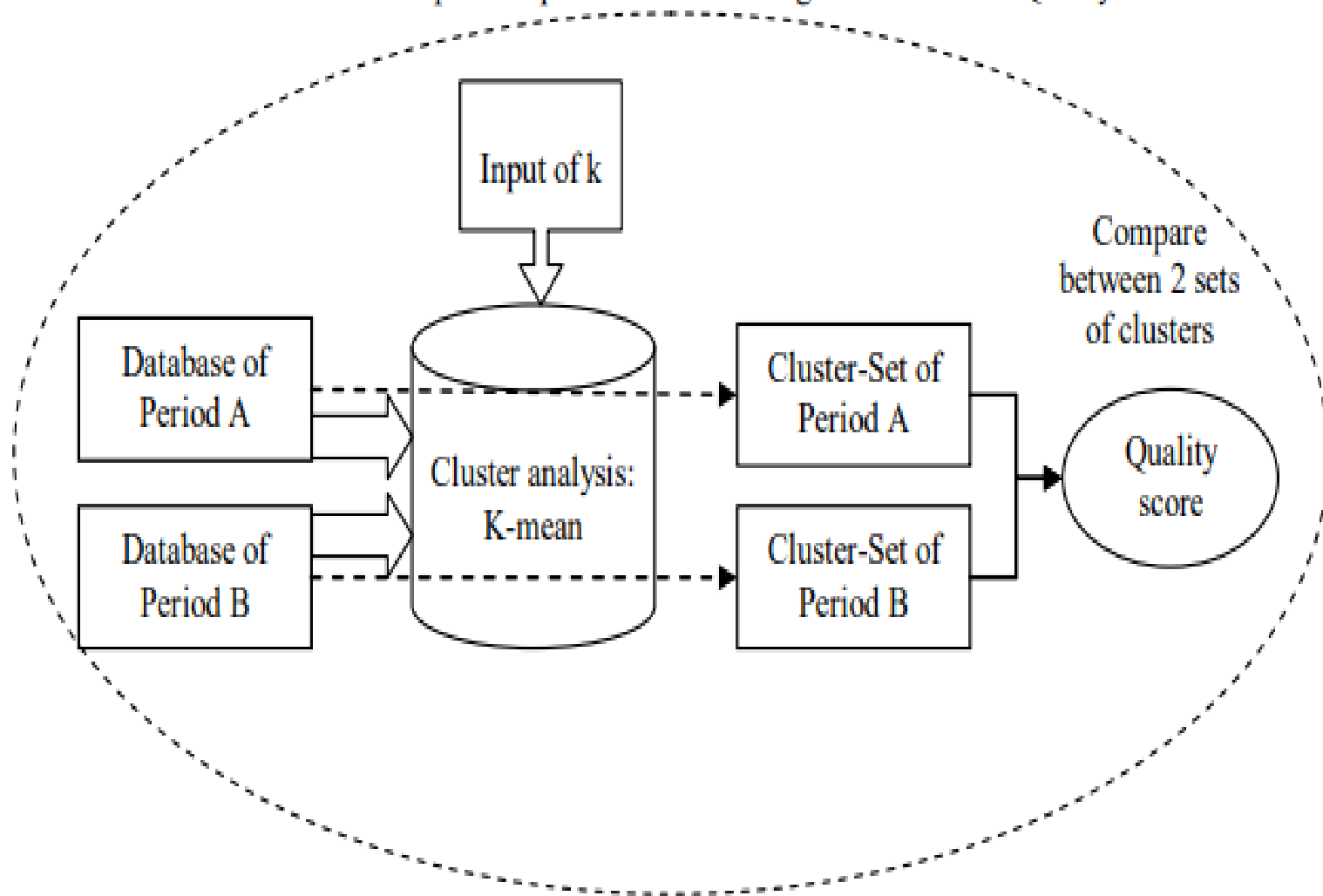
```
# visualize clusters
figure = px.scatter_3d(customersdata,
                       color='clusters',
                       x='Age',
                       y='Annual Income (k$)',
                       z='Spending Score (1-100)',
                       # category_orders = {'clusters': ["0", "1", "2", "3", "4"]}
)
figure.update_layout()
figure.show()
```



- From the above visualization we can see that Mall Customers is broadly divided into 5 Groups.
 - 1) Clusters 1- Purple
 - 2) Clusters 2- Pink
 - 3) Clusters 3- Orange
 - 4) Clusters 4- Yellow
 - 5) Clusters 5- Blue



Increase $k = k+1$ and repeat the process until reaching local maximum Quality score



Financial Modelling (equation) with Machine Learning & Data Analysis


$$y = mx + c$$

The general equation of any straight line is:

$$y = mx + c$$

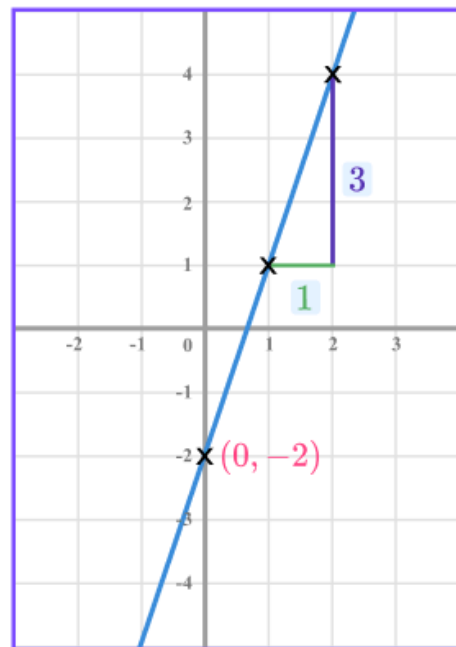
m is the **gradient**
(steepness) of the line

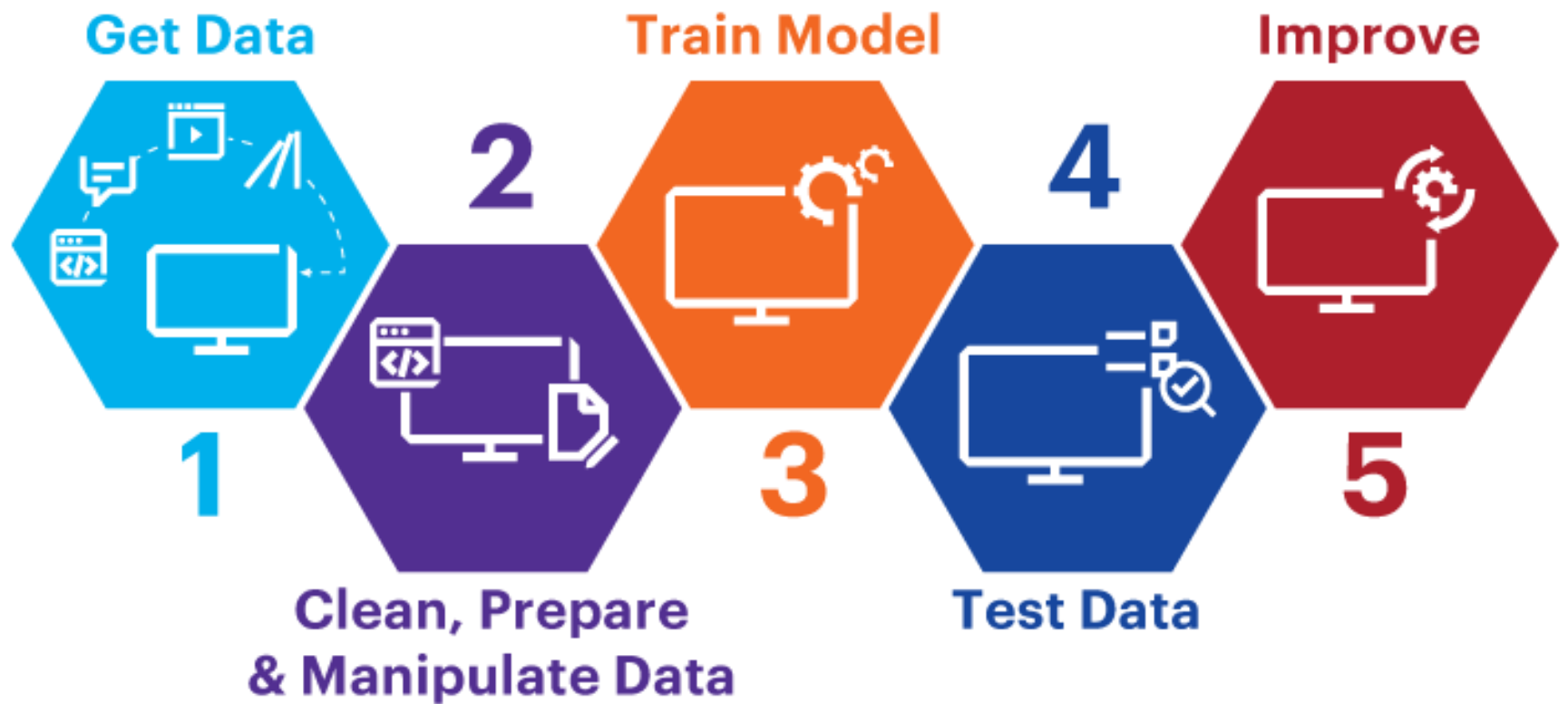
c is the **y-intercept**
(where the line crosses the y-axis)

 **Example** The graph of the line $y = 3x - 2$

The gradient is **3**

The y-intercept is **-2**, the coordinate $(0, -2)$





1. Financial modeling is the process of creating a representation of a company's financial situation and performance

2. Through the use of mathematical and statistical models.

3. These models are typically built in spreadsheet software like Microsoft Excel and are used to make informed financial decisions and projections.

