

Adidas France Retailer Impact

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“Data-driven Engineer, I like to work with data to retrieve critical insights and help improving the business-decisions. During my freetime I enjoy playing Badminton, Ping-pong and hanging out with Friends”

Etudes :

2021-2023: Ecole Centrale Lille

2020-2021: IAE Caen

2017-2020: Dipl. D'ingénieur Polytech Orléans



Target of the project

Identification of new retailers in France with potential business impact (+/-)



exploring new opportunities to grow the business in some locations with high opportunities in France





Four main tasks identified :

1

Showing the distribution of the current retailers vs new retailers

3

Impact of the current retailers by evaluating them within distance of 3 km from the new retailers

2

Showing the evolution of Sales throughout the period of 2018 and 2019

4

providing Insights on Football Footwear



Datasets Descriptions

1

France Customer master data

2

2 datasets of Sales 2018 and 2019 of the existing retailers

3

New retailers dataset

Current retailers vs new retailers

Dynamique map displaying the current retailers vs the new retailers which Adidas is targeting to implement.

The new retailers (Red) and current retailers (blue)

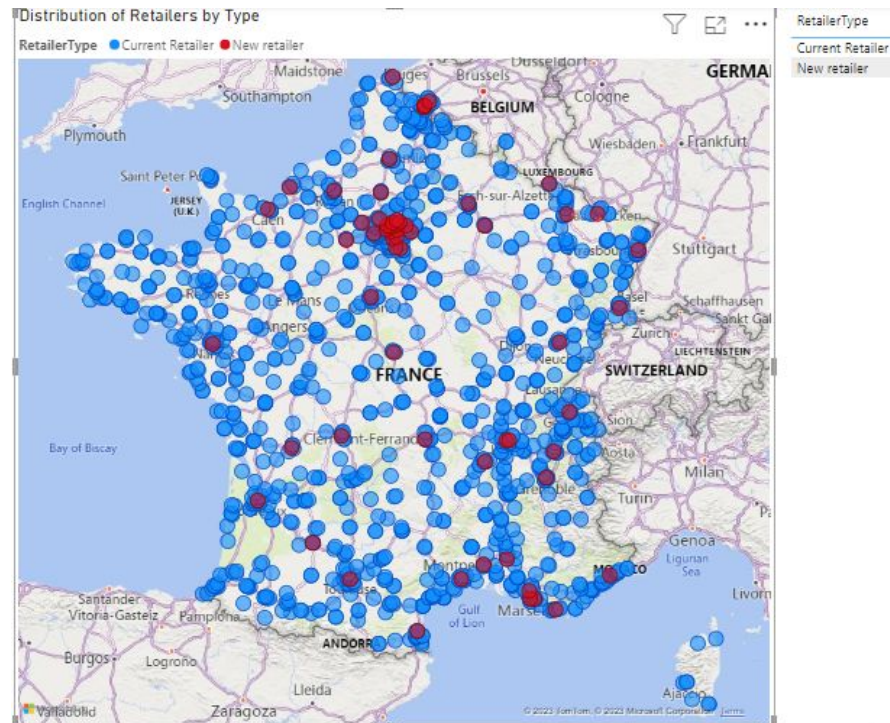


Figure 1 : Distribution of current vs new retailer

Sales Distribution



Figure 2 : Weekly distribution of sales during 2018 & 2019

Units Distribution

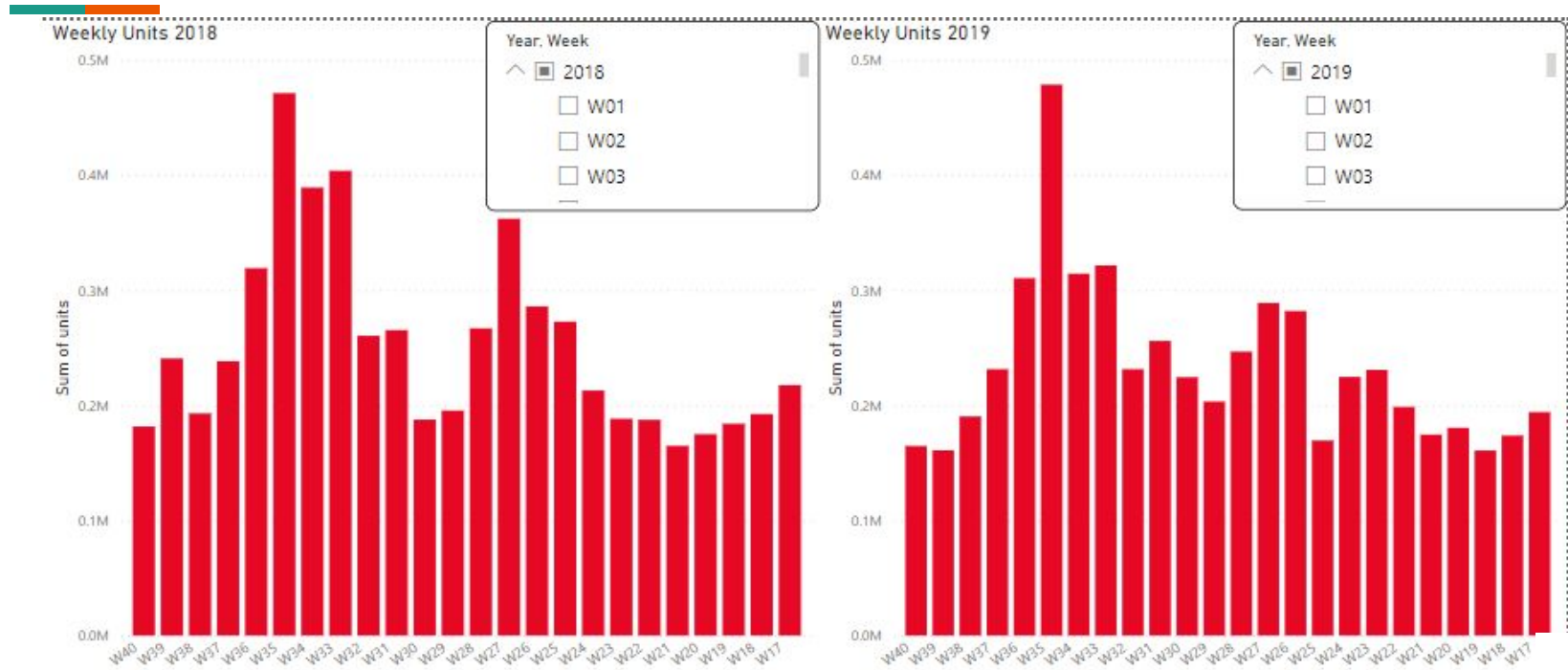


Figure 3 : Weekly distribution of units during 2018 & 2019

Sales Distribution (Ex: Basketball ACC HW ALL)

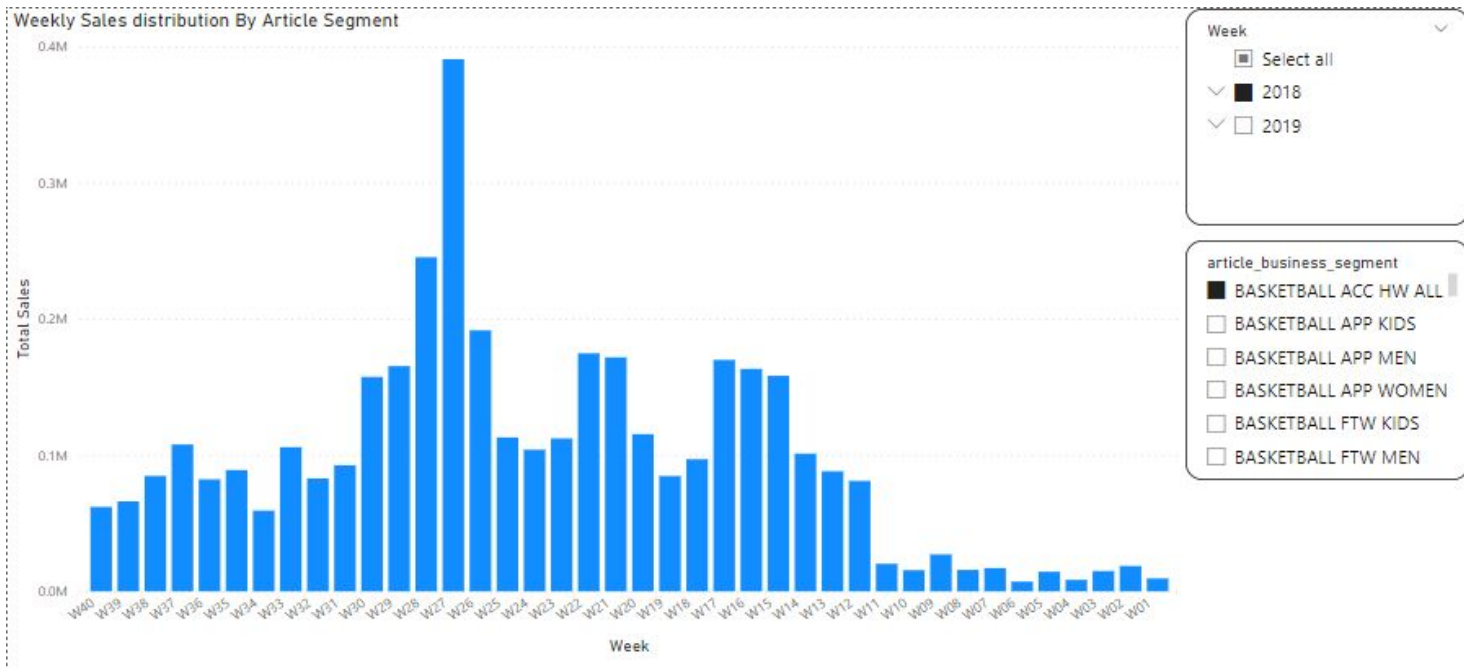


Figure 4 : Weekly distribution of Sales by segment during 2018 & 2019

Sales Distribution in France

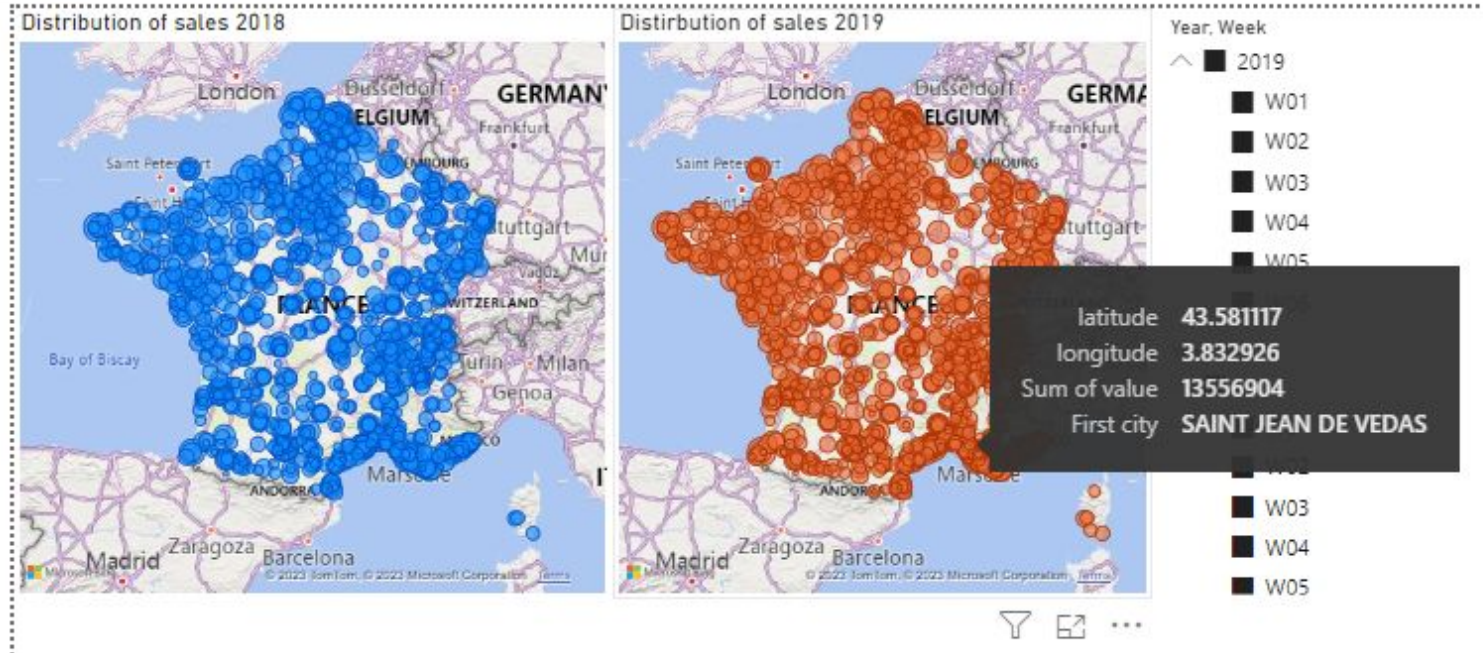


Figure 5 : Distribution of Sales in France during 2018 & 2019

KPIs of Sales trends in 2018 & 2019:

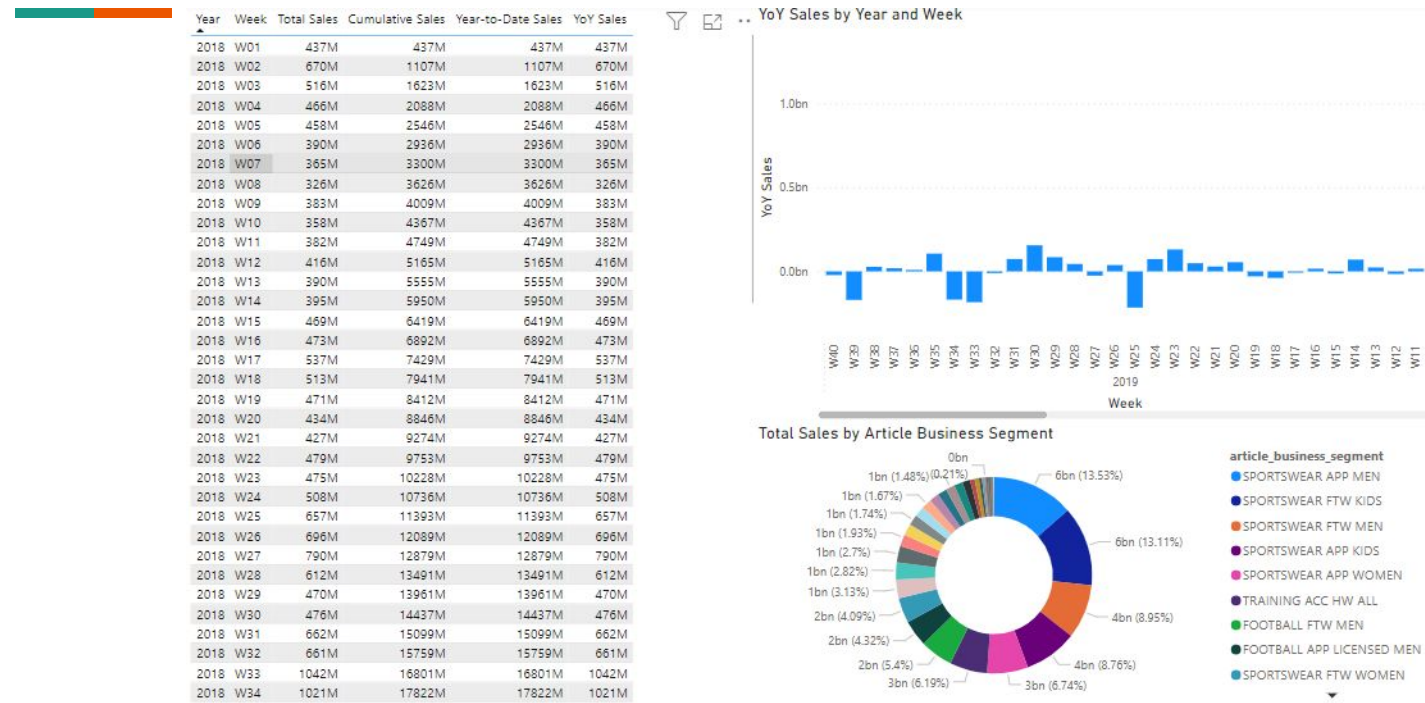


Figure 6 : YoY, Cumul, YTD of Sales in France during 2018 & 2019

Distribution of Opportunities in France:

- Very High Opportunity : $D = 0$
- High Opportunity : $D = 1$
- Medium Opportunity : $2 = < D \leq 3$
- Low Opportunity : $D \geq 4$

retailer	city	postal_code	Number of retailers Within 3km	Opportunity Level
Sport Azure	AGDE	34300		Very High
Red Sport	AMIENS	80000		Very High
Sport Azure	ANGLET	64600		Very High
F-King Sport	ANGOULEME	16006		Very High
Sport House	BAUME LES DAMES	25110		Very High
Red Sport	BERGERAC	24100		Very High
Red Sport	BEZIERS	34500		Very High
Red Sport	BOIS D ARCY	78390		Very High
Sport Azure	BORDEAUX	33000		Very High
Sport Azure	BOUC BEL AIR	13320		Very High
Red Sport	BOURG EN BRESSE	1000		Very High
Red Sport	BREST	29200		Very High
Sport Azure	BRETIGNY SUR ORGE	91220		Very High
F-King Sport	CAEN	14000		Very High
Red Sport	CARCASSONNE	11000		Very High
Sport Azure	CESTAS	33610		Very High
Red Sport	COULOMMIERS	77120		Very High
Sport House	EVRON	53600		Very High
F-King Sport	FAREBERSVILER	57450		Very High
Sport Azure	FREJUS	83600		Very High
F-King Sport	GOUSSAINVILLE	95190		Very High
Red Sport	LAVAL	53000		Very High
F-King Sport	LILLE	59000		Very High
Sport Azure	LILLE	59000		Very High
Sport Azure	LYON	69002		Very High
Red Sport	MANDELIEU LA NAPOULE	6210		Very High
Sport Azure	MARCO EN BAROEUL	59700		Very High
Sport Azure	MARSEILLE	13008		Very High
F-King Sport	METZ	57000		Very High

Distribution of Retailers per Opportunity Level

RetailerType ● Current Retailer ● New retailer

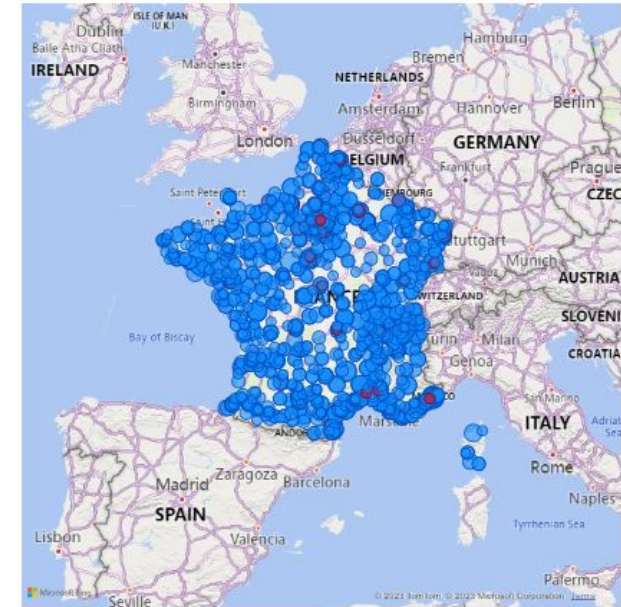


Figure 7: Distribution of opportunities in France

Methodology:



We use [GeocodeAPI](#) to retrieve the information of GPS and addresses using the XML :

```
https://maps.googleapis.com/maps/api/geocode/xml?place_id=ChIJJeRpOeF67j4AR9ydy_PlZPuM&key=YOUR_API_KEY
```

Methodology:

To determine the distance between pair of data points we use Haversine formula in DAX :

The Haversine Distance formula is used to calculate the great-circle distance between two points on the Earth's surface.

$$\text{Haversine Distance} = 2r \cdot \sin^{-1} \left(\sqrt{\text{hav}(\Delta\text{lat}) + \cos(\text{lat}_1) \cdot \cos(\text{lat}_2) \cdot \text{hav}(\Delta\text{long})} \right)$$

Where:

- r is the Earth's radius (approximately 6,371 kilometers),
- $\text{hav}(\theta) = \sin^2 \left(\frac{\theta}{2} \right)$,
- $\Delta\text{lat} = \frac{\text{lat}_2 - \text{lat}_1}{2}$,
- $\Delta\text{long} = \frac{\text{long}_2 - \text{long}_1}{2}$,
- lat_1 and lat_2 are the latitudes of the two points, and
- long_1 and long_2 are the longitudes of the two points.



Merci !

