

The background features abstract green geometric shapes. On the left, a light green triangle points upwards. On the right, a dark green triangle points downwards, with a thin white line intersecting it. At the bottom right, a light green triangle points upwards, partially overlapping the dark green one.

Capstone project: The Battle of the Neighborhoods

Elena Lestini

Background

- Education and safety play a big role in family decisions to move from one London borough to another. More space and good schooling attract a growing number of families out of central London, relocating into greater London. Greater London has a lot to offer, with shops, cafés, libraries, theatres and parks. There is a lot going on for families. It is also well connected by train, bus and underground making it easy to commute to work.

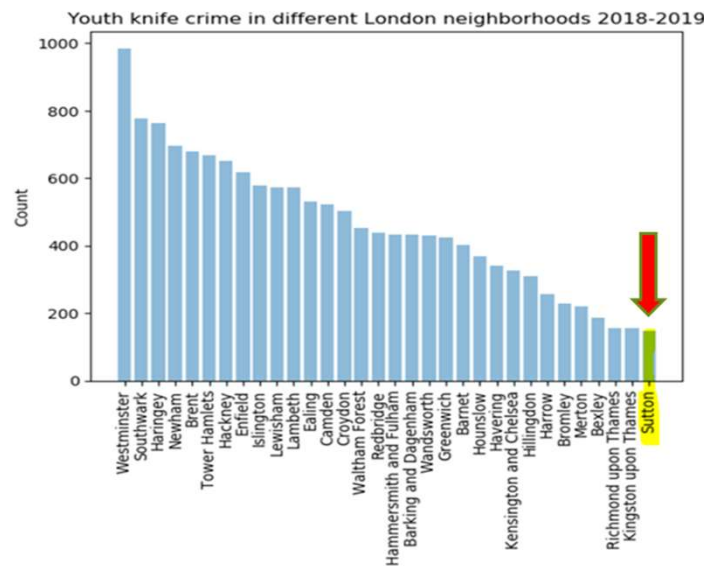
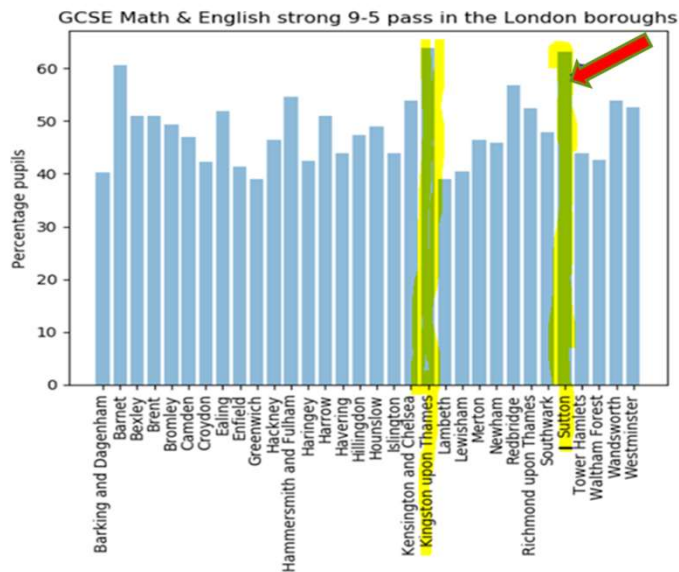
Problem

- The problem we want to solve is to find good schools in safe boroughs in London. London comprises of 32 boroughs. Finding a good school in a safe borough is an important task for many families with young children and teenagers. Many families decide to move borough to make sure their children attend a good school. Although there is a lot of interest in finding good state schools in London, it is quite difficult to have a real grasp of the situation. Detailed reports on this topic are available but they are not easy to read, especially for people moving from countries with a different school system and/or from non-English-speaking countries. The information and statistics available are not provided in a user-friendly manner and this can be quite frustrating for families moving to London.

➤ Interest

There is a lot of interest on this topic, from families with children and teenagers but also from couples that plan to start a family and foreign families moving to London.

High Schools Performances GSE & Knife-crime per London Borough



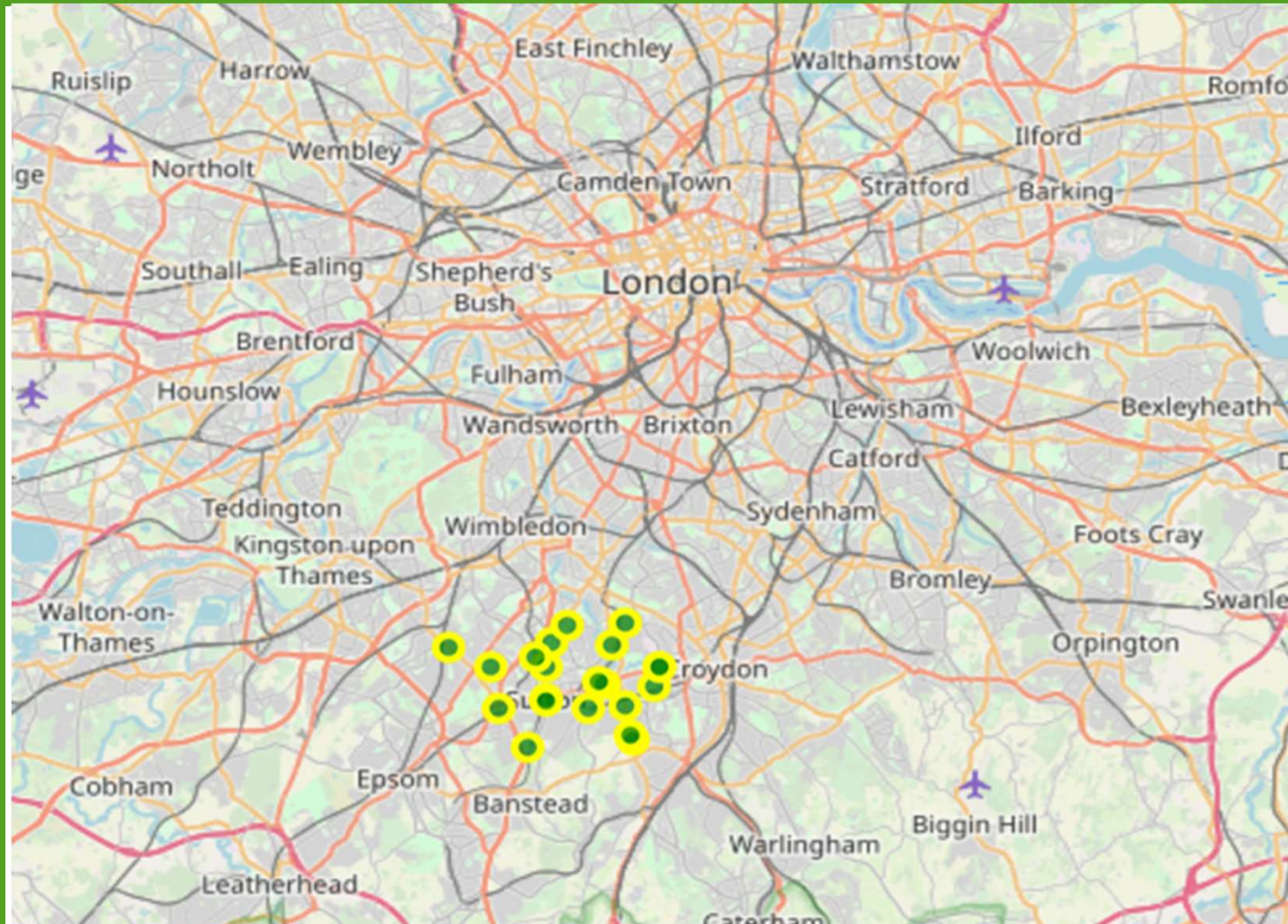
The Royal Borough of Sutton has the lowest youth crime rate and best achieving high schools in London

<https://data.london.gov.uk/dataset/gcse-results-by-borough>

<https://www.london.gov.uk/mopac-disclosure-log/london-knife-crime-statistics>

Latitude and longitude) for 22 Neighbourhoods (districts) Belonging to the Royal Borough of Sutton

| | Borough | District | Latitude | Longitude |
|----|---------|--------------------|-----------|-----------|
| 0 | Sutton | Bandon Hill | 51.364777 | -0.134833 |
| 1 | Sutton | Beddington | 51.371988 | -0.132393 |
| 2 | Sutton | Beddington Corner | 51.386942 | -0.149532 |
| 3 | Sutton | Belmont | 51.343785 | -0.201152 |
| 4 | Sutton | Benhillton | 51.371642 | -0.191571 |
| 5 | Sutton | Carshalton | 51.365788 | -0.161086 |
| 6 | Sutton | Carshalton Beeches | 51.357196 | -0.169351 |
| 8 | Sutton | Cheam | 51.357616 | -0.216241 |
| 9 | Sutton | Hackbridge | 51.379613 | -0.156754 |
| 10 | Sutton | Little Woodcote | 51.346076 | -0.145932 |
| 11 | Sutton | North Cheam | 51.371578 | -0.220225 |
| 12 | Sutton | Rosehill | 51.380152 | -0.188640 |
| 13 | Sutton | St. Helier | 51.386695 | -0.180057 |
| 14 | Sutton | South Beddington | 51.371988 | -0.132393 |
| 15 | Sutton | Sutton | 51.360398 | -0.190700 |
| 16 | Sutton | Sutton Common | 51.375373 | -0.196032 |
| 17 | Sutton | Sutton High Street | 51.359765 | -0.190991 |
| 18 | Sutton | The Wrythe | 51.367059 | -0.162956 |
| 19 | Sutton | Wallington | 51.357945 | -0.149562 |
| 20 | Sutton | Woodcote Green | 51.347991 | -0.146830 |
| 21 | Sutton | Worcester Park | 51.378400 | -0.241602 |



22
Neighbourhoods
(districts)
Belonging to the
Royal
Borough of Sutton
On the
London map

| | Neighborhood | 1st Most Common Venue | 2nd Most Common Venue | 3rd Most Common Venue | 4th Most Common Venue | 5th Most Common Venue | 6th Most Common Venue | 7th Most Common Venue | 8th Most Common Venue | 9th Most Common Venue | 10th Most Common Venue |
|----|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|
| 0 | Belmont | Electronics Store | Asian Restaurant | Train Station | Pub | Women's Store | Hardware Store | Gym / Fitness Center | Gym | Grocery Store | Gastropub |
| 1 | Benhillon | Indian Restaurant | Park | Coffee Shop | Clothing Store | Pizza Place | Supermarket | Grocery Store | Gym / Fitness Center | Gastropub | Fast Food Restaurant |
| 2 | Carshalton | Grocery Store | Pub | Park | Café | Veterinarian | Historic Site | Train Station | Hotel | Tea Room | Platform |
| 3 | Carshalton Beeches | Health Food Store | Italian Restaurant | Train Station | Bakery | Grocery Store | Electronics Store | Hardware Store | Gym / Fitness Center | Gym | Gastropub |
| 4 | Cheam | Grocery Store | Italian Restaurant | Pub | Coffee Shop | Indian Restaurant | Soccer Field | Creperie | Gastropub | Gym / Fitness Center | Park |
| 5 | North Cheam | Coffee Shop | Supermarket | Fast Food Restaurant | Seafood Restaurant | Soccer Field | Social Club | Pub | Gym / Fitness Center | Grocery Store | Turkish Restaurant |
| 6 | Sutton | Pub | Clothing Store | Coffee Shop | Italian Restaurant | Bar | Pizza Place | Café | Women's Store | Sandwich Place | Hotel |
| 7 | Sutton High Street | Pub | Coffee Shop | Italian Restaurant | Bar | Pizza Place | Café | Electronics Store | Hotel | Irish Pub | Park |
| 8 | The Wrythe | Pub | Grocery Store | Café | Gym / Fitness Center | Historic Site | Hotel | Train Station | Platform | Tea Room | Park |
| 9 | Wallington | Grocery Store | Bakery | Supermarket | Spanish Restaurant | Pizza Place | Portuguese Restaurant | Pub | Convenience Store | Coffee Shop | Fast Food Restaurant |
| 10 | Worcester Park | Grocery Store | Pharmacy | Lebanese Restaurant | Pub | Fish & Chips Shop | Platform | Convenience Store | Coffee Shop | Pizza Place | Pet Store |

Cluster 1 of similar neighbourhoods & top 10 most common venues per neighbourhood

| | Neighborhood | 1st Most Common Venue | 2nd Most Common Venue | 3rd Most Common Venue | 4th Most Common Venue | 5th Most Common Venue | 6th Most Common Venue | 7th Most Common Venue | 8th Most Common Venue | 9th Most Common Venue | 10th Most Common Venue |
|---|-----------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|
| 0 | Little Woodcote | Park | Garden Center | Sports Club | Coffee Shop | Women's Store | Electronics Store | Hardware Store | Gym / Fitness Center | Gym | Grocery Store |
| 1 | St. Helier | Turkish Restaurant | Coffee Shop | Park | Breakfast Spot | Women's Store | Garden Center | Fish & Chips Shop | French Restaurant | Furniture / Home Store | Garden |
| 2 | Woodcote Green | Park | Garden Center | Coffee Shop | Women's Store | Electronics Store | Health Food Store | Hardware Store | Gym / Fitness Center | Gym | Grocery Store |

Cluster 2 of similar Neighbourhoods & top ten venues

| | Neighborhood | 1st Most Common Venue | 2nd Most Common Venue | 3rd Most Common Venue | 4th Most Common Venue | 5th Most Common Venue | 6th Most Common Venue | 7th Most Common Venue | 8th Most Common Venue | 9th Most Common Venue | 10th Most Common Venue |
|---|---------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|
| 0 | Hackbridge | Convenience Store | Train Station | Park | River | Women's Store | Garden | Fast Food Restaurant | Fish & Chips Shop | French Restaurant | Furniture / Home Store |
| 1 | Rosehill | Park | Supermarket | Gym / Fitness Center | Tennis Court | Fast Food Restaurant | Athletics & Sports | Gym | Grocery Store | Electronics Store | Hardware Store |
| 2 | Sutton Common | Grocery Store | Athletics & Sports | Train Station | Gym / Fitness Center | Tennis Court | Park | Garden Center | Fish & Chips Shop | French Restaurant | Furniture / Home Store |

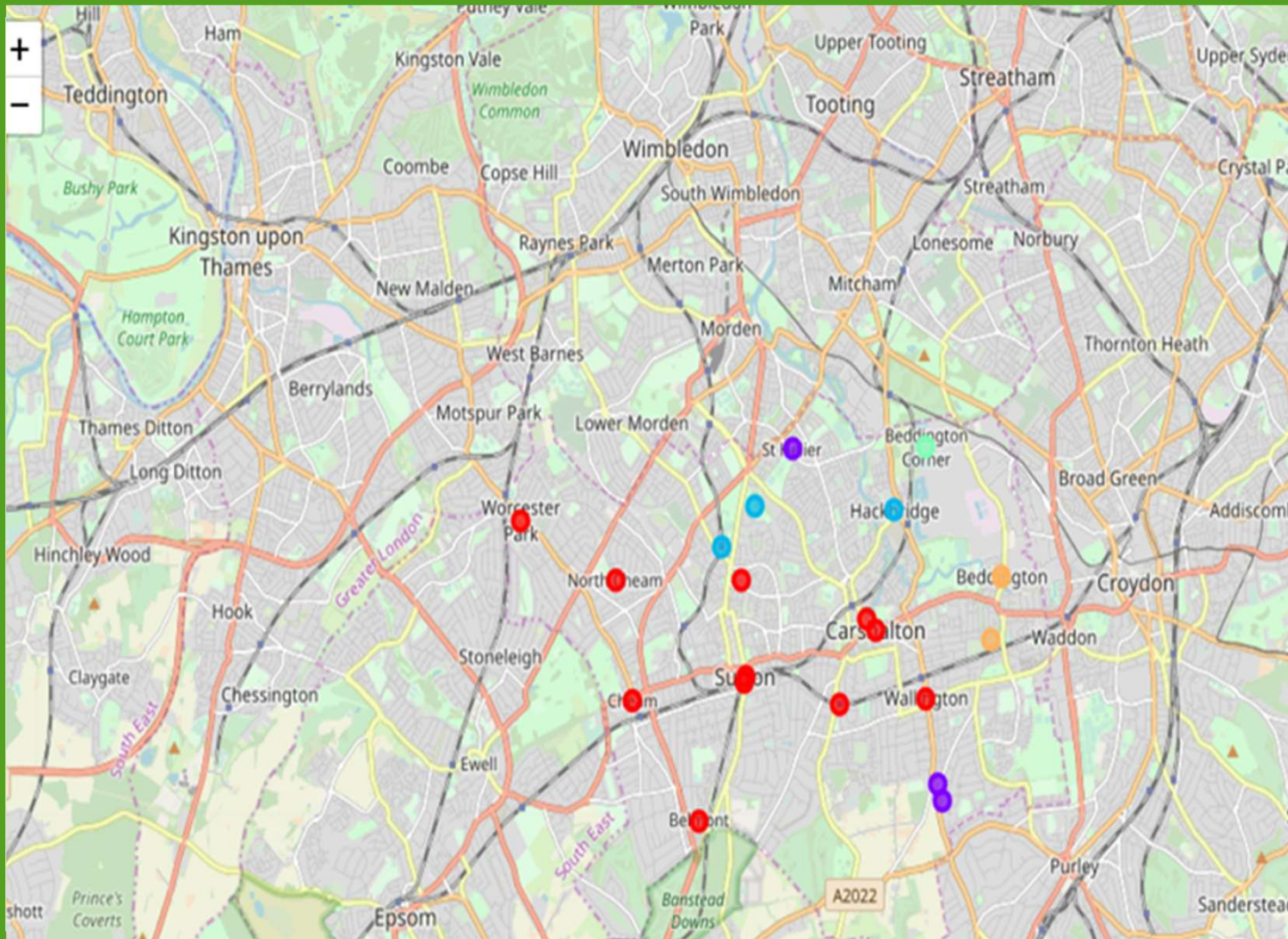
Cluster 3 of similar Neighbourhoods & top ten venues

| | Neighborhood | 1st Most Common Venue | 2nd Most Common Venue | 3rd Most Common Venue | 4th Most Common Venue | 5th Most Common Venue | 6th Most Common Venue | 7th Most Common Venue | 8th Most Common Venue | 9th Most Common Venue | 10th Most Common Venue |
|---|-------------------|-----------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|
| 0 | Beddington Corner | Business Service | Furniture / Home Store | Racetrack | Women's Store | Electronics Store | Health Food Store | Hardware Store | Gym / Fitness Center | Gym | Grocery Store |

Cluster 4 of similar Neighbourhoods & top ten venues

| | Neighborhood | 1st Most Common Venue | 2nd Most Common Venue | 3rd Most Common Venue | 4th Most Common Venue | 5th Most Common Venue | 6th Most Common Venue | 7th Most Common Venue | 8th Most Common Venue | 9th Most Common Venue | 10th Most Common Venue |
|---|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|
| 0 | Bandon Hill | Park | Garden | Pub | Women's Store | Electronics Store | Hardware Store | Gym / Fitness Center | Gym | Grocery Store | Gastropub |
| 1 | Beddington | Indian Restaurant | Hardware Store | Park | Pub | Electronics Store | Gym / Fitness Center | Gym | Grocery Store | Gastropub | Garden Center |
| 2 | South Beddington | Indian Restaurant | Hardware Store | Park | Pub | Electronics Store | Gym / Fitness Center | Gym | Grocery Store | Gastropub | Garden Center |

Cluster 5 of similar Neighbourhoods & top ten venues



Similar Neighbourhoods that belong to the same cluster are represented with the same colour (circle) on the London map

.

Conclusion

- Finding good schools in a safe borough is an important matter for many families in London.
- The safest borough in London with the best achieving high schools is Sutton.
- Sutton neighbourhoods were explored and 11 seem quite vibrant with many amenities to offer. The other half seems quieter with many parks, a great choice for those families who love outdoor activities.
- Sutton neighbourhoods are mostly well connected to central London by railway. That is key for all those people who need to commute for work.
- This approach gives a good snapshot of each neighbourhood helping families make their choice when it comes to move home.

