

Promoting Clean and Safe Public Space in Lambeth

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WPI



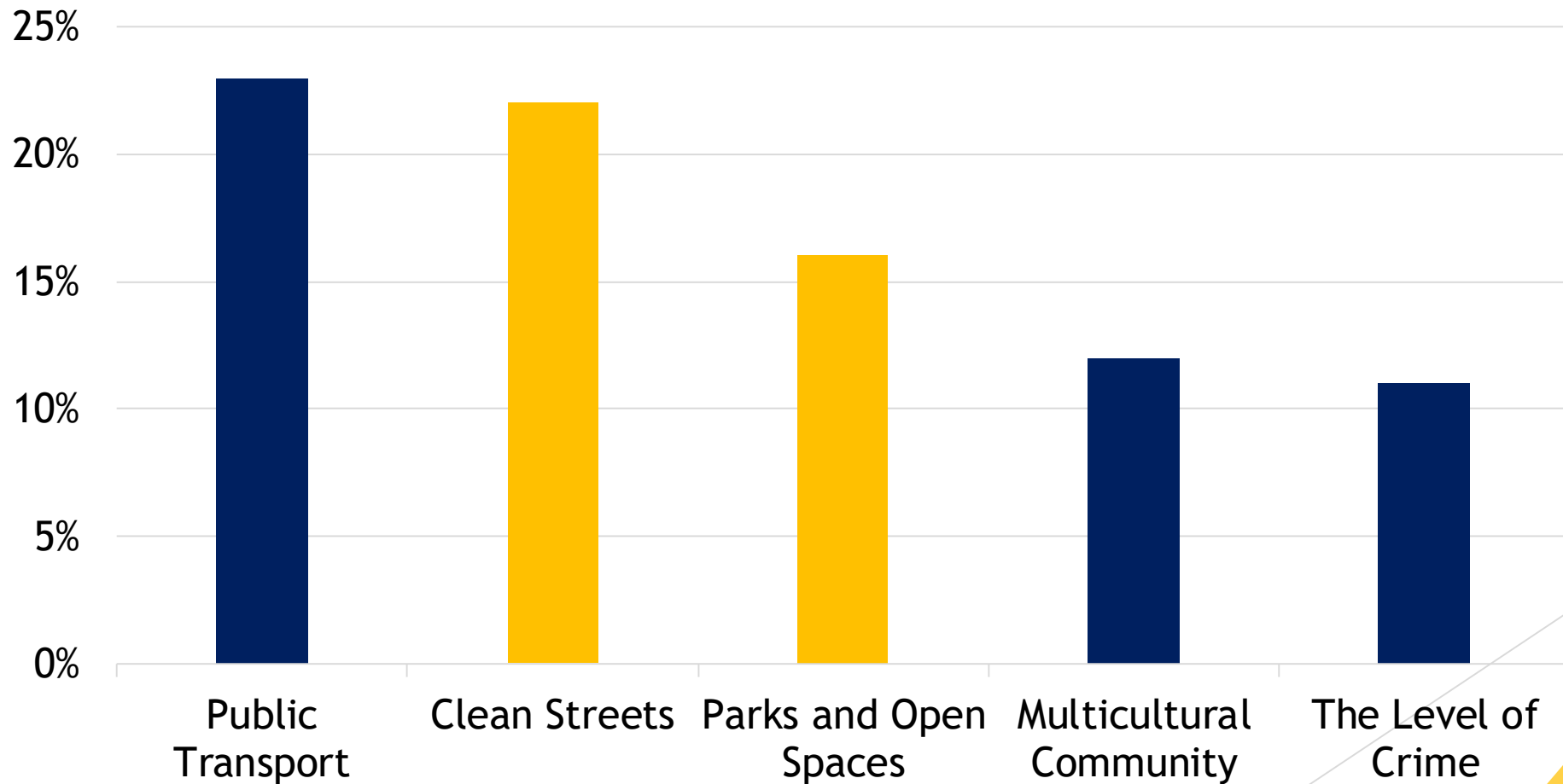
Lambeth

Project Goal



Importance of Clean and Safe Public Space

Priorities of the Lambeth Community



Threats to Public Space

- ▶ Litter:

- ▶ Lambeth spends 7.3 million pounds a year cleaning litter



- ▶ Street Clutter:

- ▶ Unauthorized tables and chairs obstruct the public highway and limit accessibility



Lambeth's Current Systems

- ▶ Enforcement for littering and license violations

- ▶ NSL
- ▶ Community Safety Officers (CSOs)
- ▶ Fixed Penalty Notices (FPNs)

- ▶ Licensing for street clutter

- ▶ Skip licenses
- ▶ Tables and chairs licenses



Current Software Systems

Objectives



Lambeth community



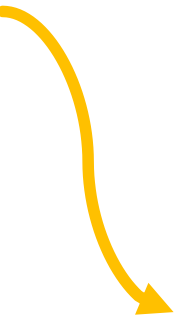
Lambeth

Lambeth employees



TOWER HAMLETS

Other boroughs



Understand systems



Identify problems and recommendations



Four Key Topic Areas

Skips

Tables
and Chairs

Section 87

Software

Skips



Methods

- ▶ Interviewed employees and observed CSOs
- ▶ Benchmarked application process
- ▶ Reviewed Council data
- ▶ Surveyed skip companies



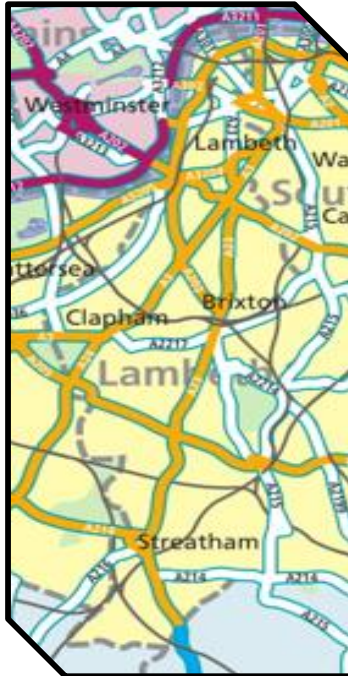
Skip Application Submission

- ▶ Problems:
 - ▶ Gov.uk website
 - ▶ Unsecure Lambeth application payment
- ▶ Recommendations:
 - ▶ Do not allow Gov.uk submissions
 - ▶ Bill after application is submitted

Lambeth License Application

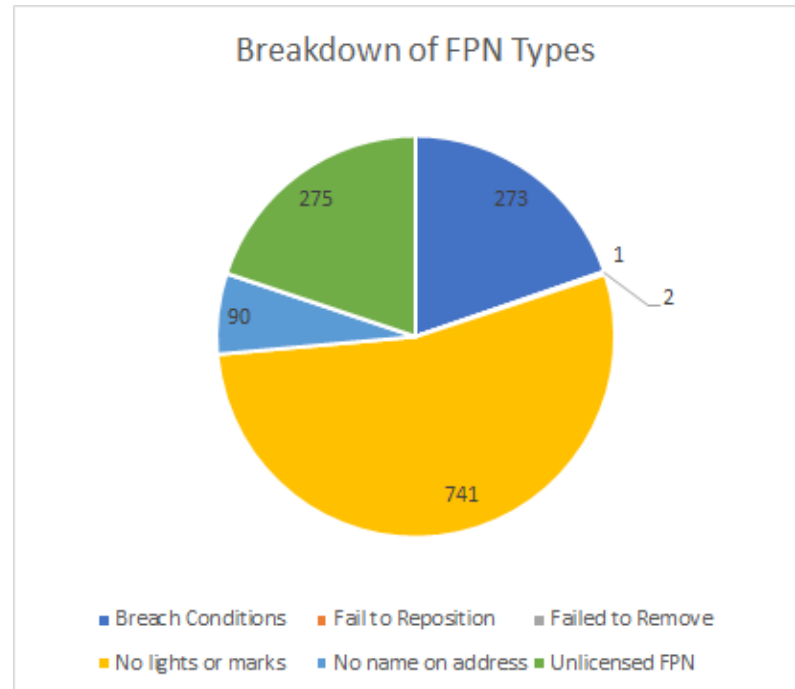
► Problems:

- Frequent no lights or marks violations
- TfL controlled and traffic sensitive roads
- Incorrect submission email address



► Recommendations:

- Highlight lights and marks license regulation on the application
- List TfL controlled and traffic sensitive roads on the application
- Update submission email address



Policies

► Problems:

- Infrequent skip inspections
- Obstructed skip spot

► Recommendations:

- Create formal skip inspection policy
- Create policy regarding an obstructed skip spot



Tables and Chairs



Methods

- ▶ Interviewed:
 - ▶ Employees
 - ▶ Businesses holding tables and chairs licenses
 - ▶ Tower Hamlets Council employee
- ▶ Observed tables and chairs consultation process



License Application

► Problems:

- Manual application fee calculation
- Over half of applicants pay incorrect amounts
- Banding system

► Recommendations:

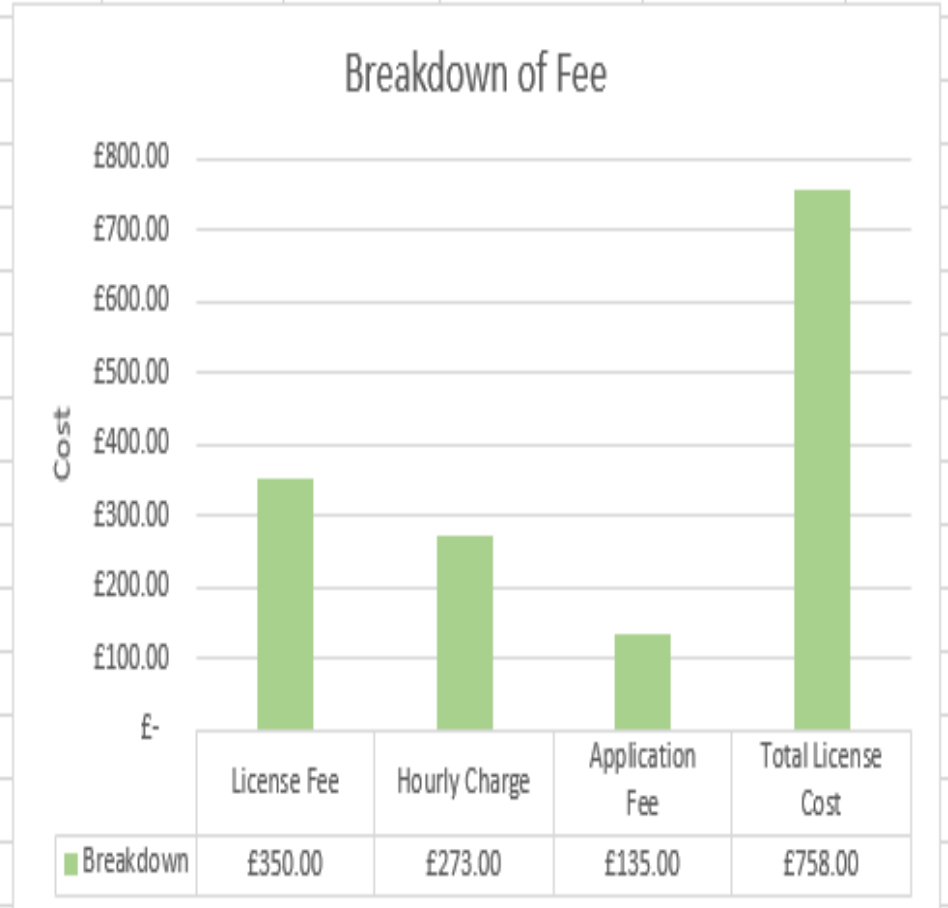
- Eliminate the banding system
- Use Excel sheet to auto-calculate fees

$$Total\ Cost = (C - 2) * B + \sum_{n=1}^7 H_n * Bh + A$$

Enter Details of the Application		
Banding	Application Type	Number of Chairs
B	Mail	12

Enter Times that TAC will be present in 24hr i.e. 19 for 7pm			Enter Start Time	Enter End Time
Times	Start Time	End Time	Hours after 19	
Monday	19	23	4	
Tuesday	19	23	4	
Wednesday	19	23	4	
Thursday	19	23	4	
Friday	19	23	4	
Saturday	19	23	4	
Sunday	19	23	4	
Total Hours After 19			28	

Program Generates Cost of License	
Breakdown of Fee	
License Fee	£ 350.00
Hourly Charge	£ 273.00
Application Fee	£ 135.00
Total License Cost	£ 758.00



Consultations

- ▶ Problem:
 - ▶ Tables and chairs are only consulted during initial application
- ▶ Recommendation:
 - ▶ Create a re-consultation policy to regularly check licenses
 - ▶ Communicate with highways

Quarterly Licenses

- ▶ Problem:
 - ▶ Negative feedback towards yearly licenses
 - ▶ Businesses often only use tables and chairs for 6 to 8 weeks
- ▶ Recommendation:
 - ▶ Implement quarterly table and chairs licenses
 - ▶ More feasible with better software

Section 87



Methods

- ▶ Reviewed data regarding issued FPNs
- ▶ Interviewed
 - ▶ NSL Administrator
 - ▶ Farthest Gate
- ▶ Observed NSL enforcement official
- ▶ Researched alternative enforcement agencies
 - ▶ Kingdom Services (Brent)

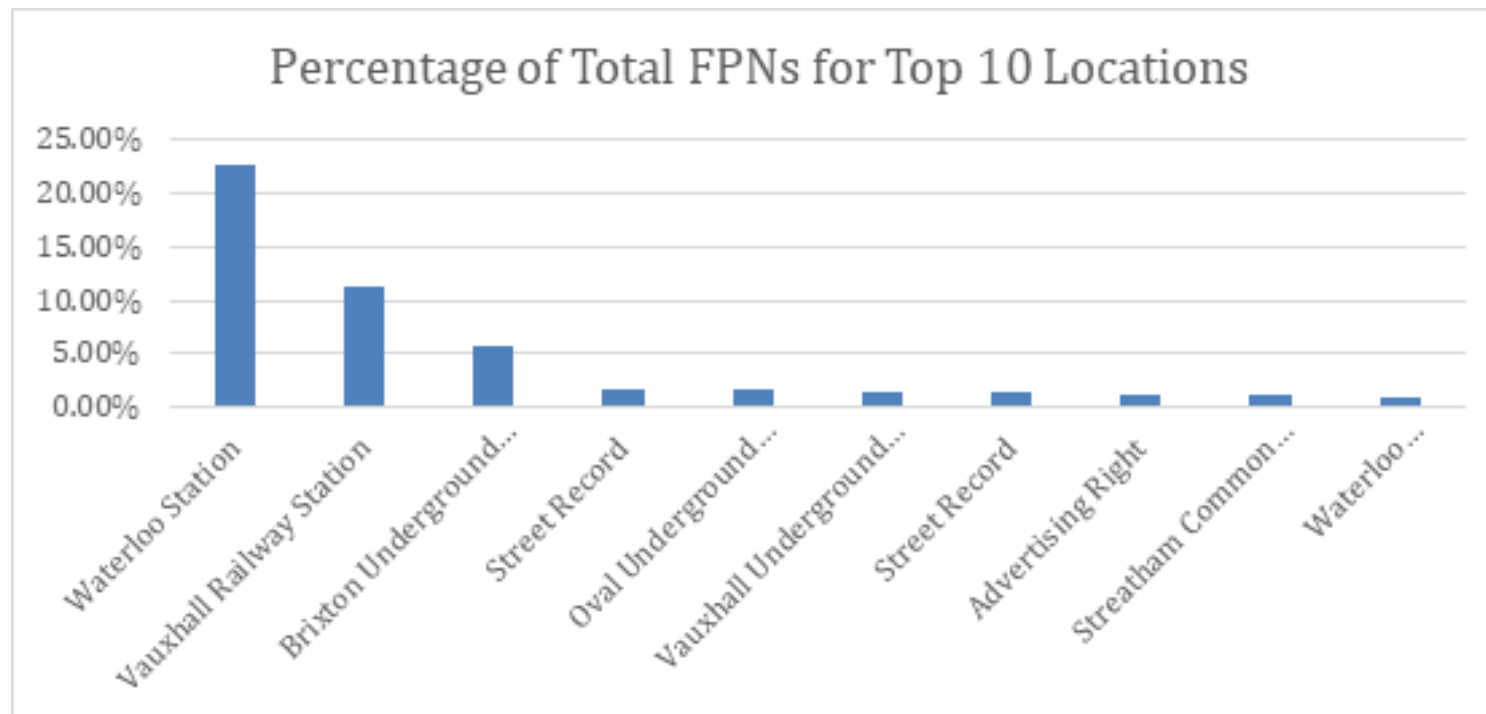
Redistribute Enforcement Officials throughout Lambeth

► Problem:

- Excessive resources devoted to patrolling Tube stations

► Recommendation:

- Redistribute enforcement officials across a larger span of the borough



Place Ashtrays Outside of Tube Stations

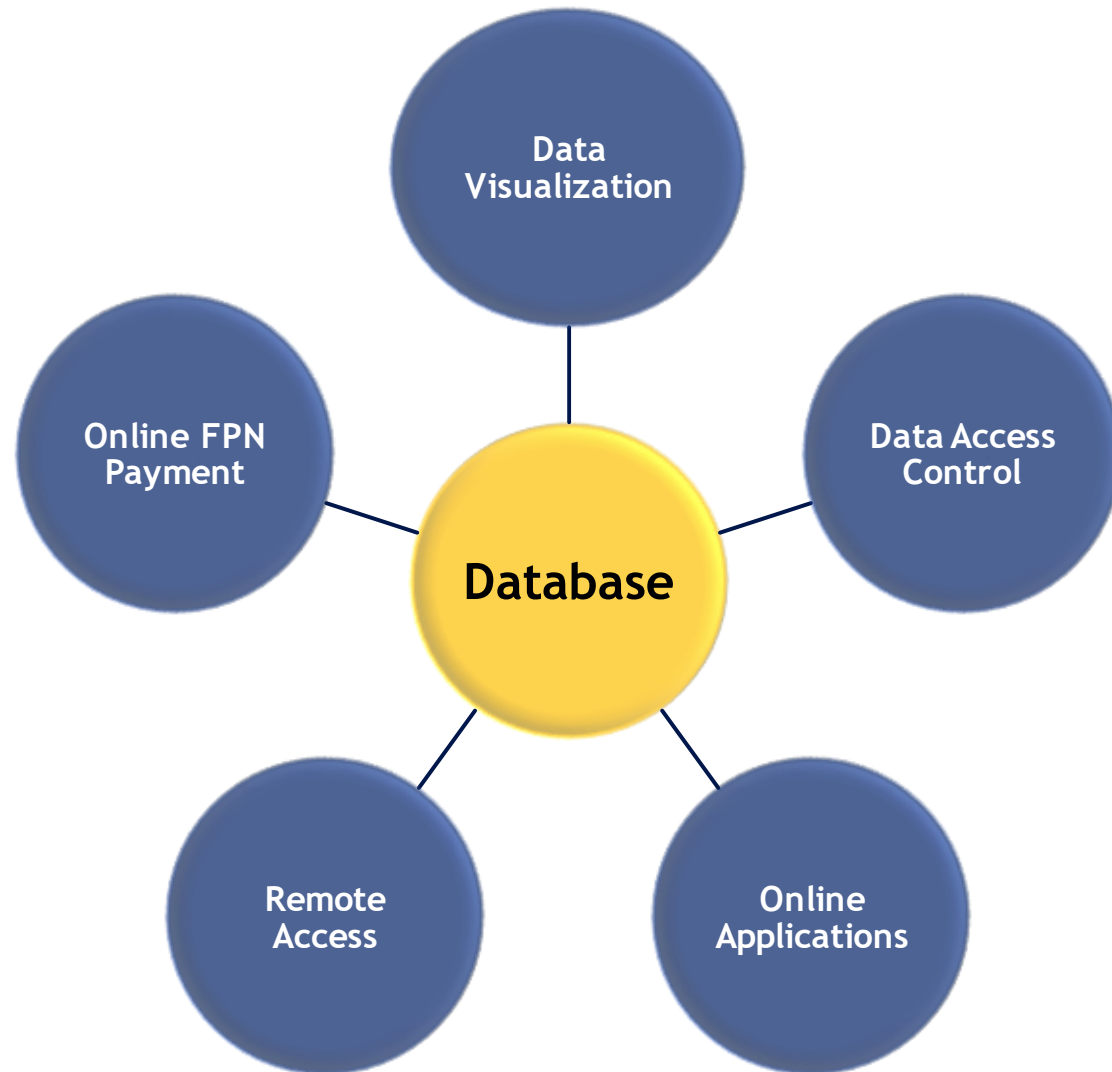
- ▶ Problem:
 - ▶ Majority of offenses are for littering outside of Tube stations
- ▶ Recommendation:
 - ▶ Place ashtrays amongst the station entrances



Software

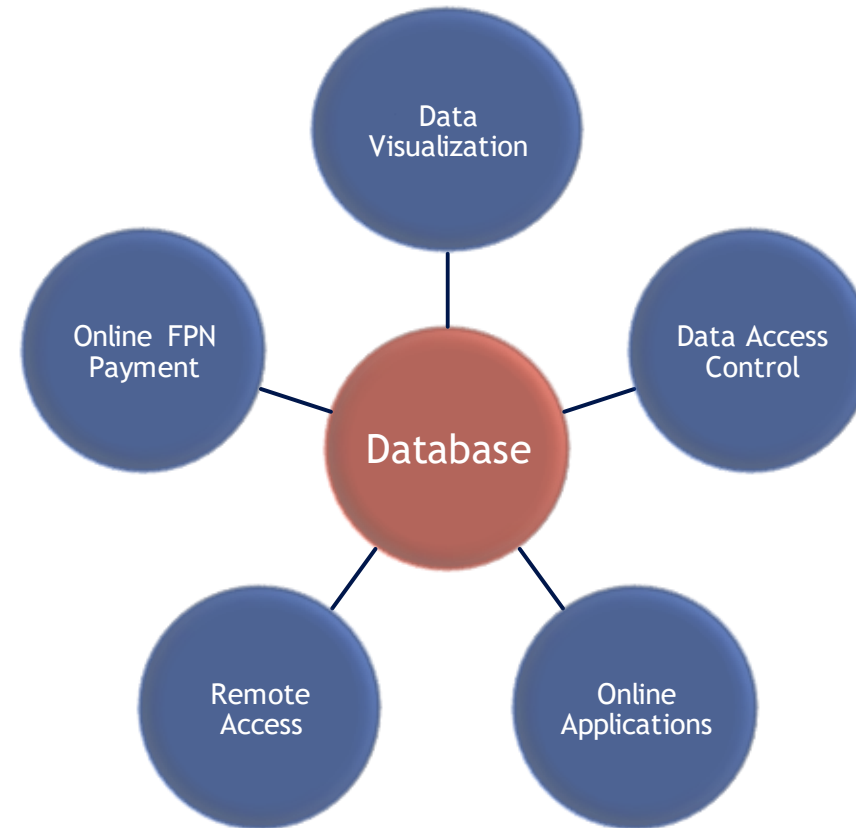


Potential Features for Software System



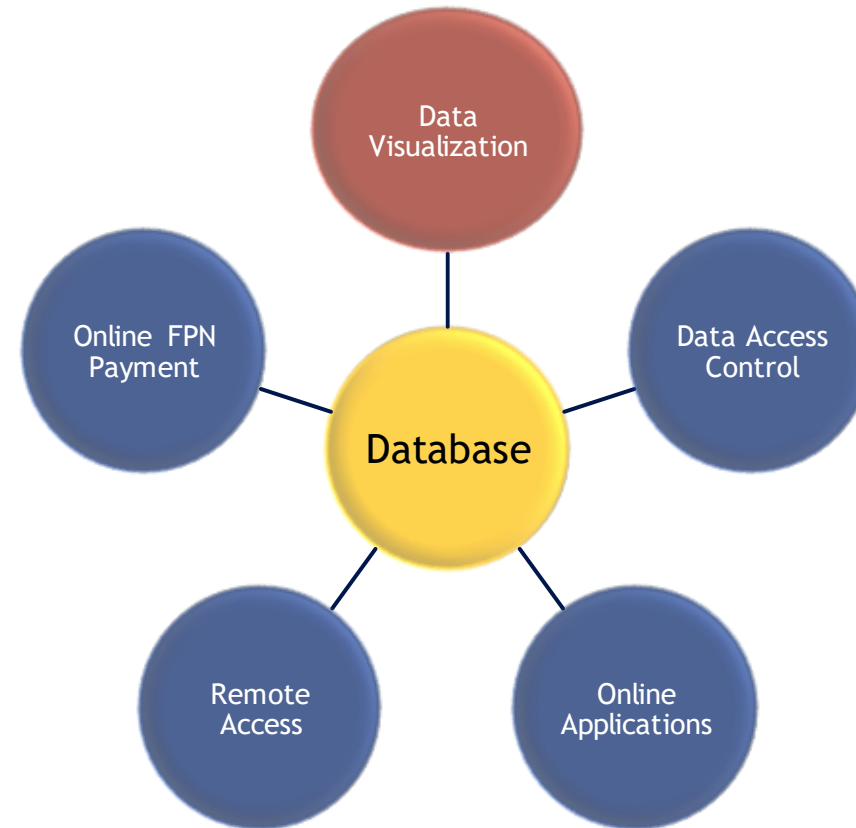
Centralized Database

- ▶ Problem:
 - ▶ Licensing and enforcement data is spread across multiple systems
 - ▶ Data must be manually entered into these systems
- ▶ Recommendations:
 - ▶ All licensing and enforcement data held in one system
 - ▶ Remove manual data entry where possible



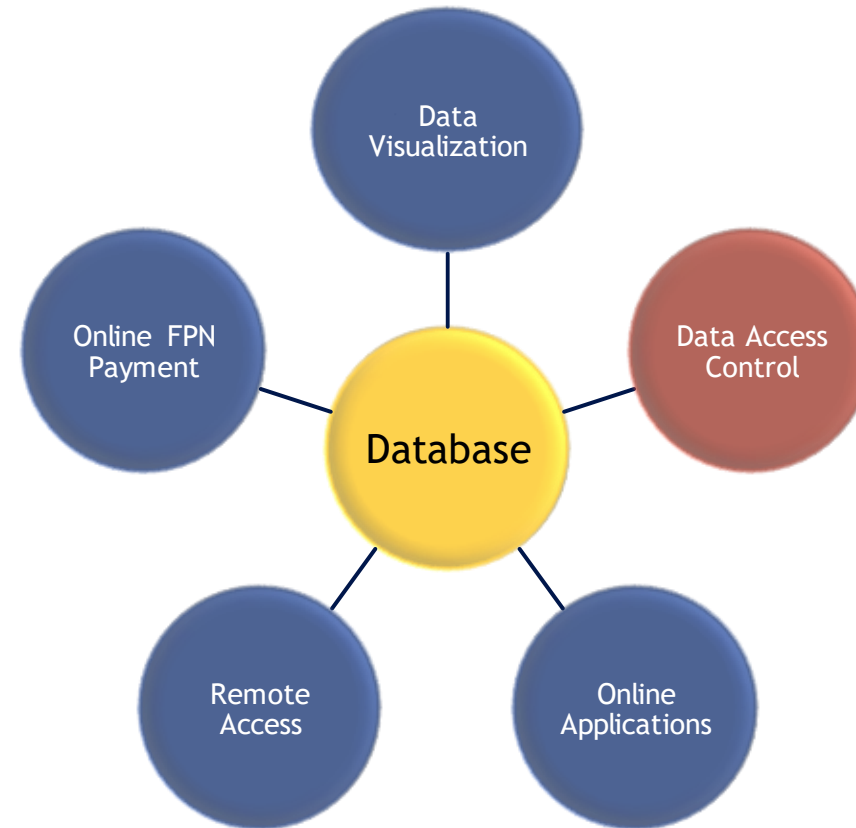
Data Visualization

- ▶ Problem:
 - ▶ Software systems have poorly formatted data
- ▶ Recommendations:
 - ▶ Search for businesses and streets
 - ▶ Identify repeat offenders
 - ▶ Prioritize tasks for CSOs



Data Access Control

- ▶ Problem
 - ▶ Licensing and enforcement data is viewable by all users
- ▶ Recommendations:
 - ▶ Improve confidentiality and security
 - ▶ Users should only see relevant information
 - ▶ Make sure contractors can view relevant information



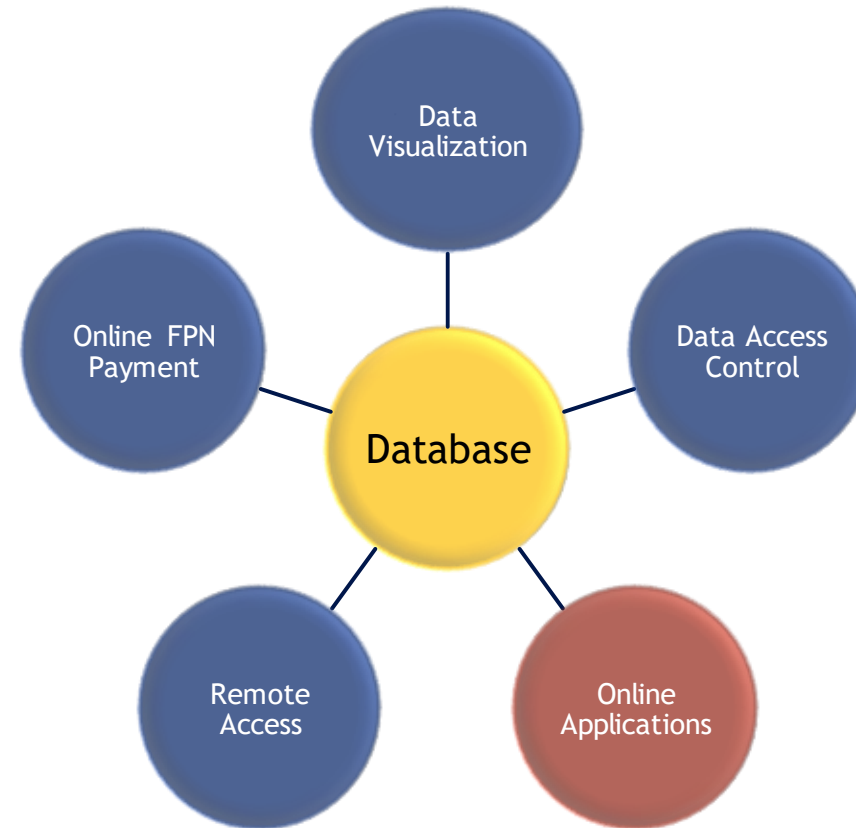
Online Applications

► Problems:

- Applicants have to frequently re-enter information
- Downloading and editing PDF takes time
- Manual calculation of license fees allows for potential error

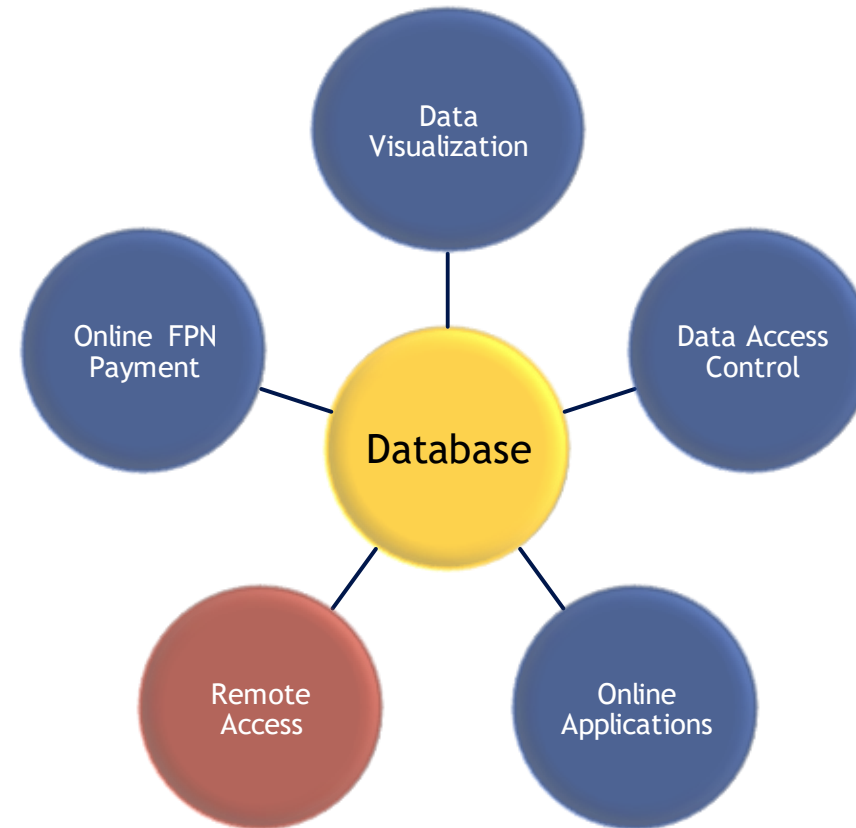
► Recommendations:

- Automatically enter into database
- Account based system for license applicants
- Auto calculate license fees



Remote Access

- ▶ Problem:
 - ▶ Enforcement officials must return to the office to view and update data
 - ▶ Officials cannot easily access data while on duty
- ▶ Recommendation:
 - ▶ Should be able to issue FPNs and view street licenses remotely



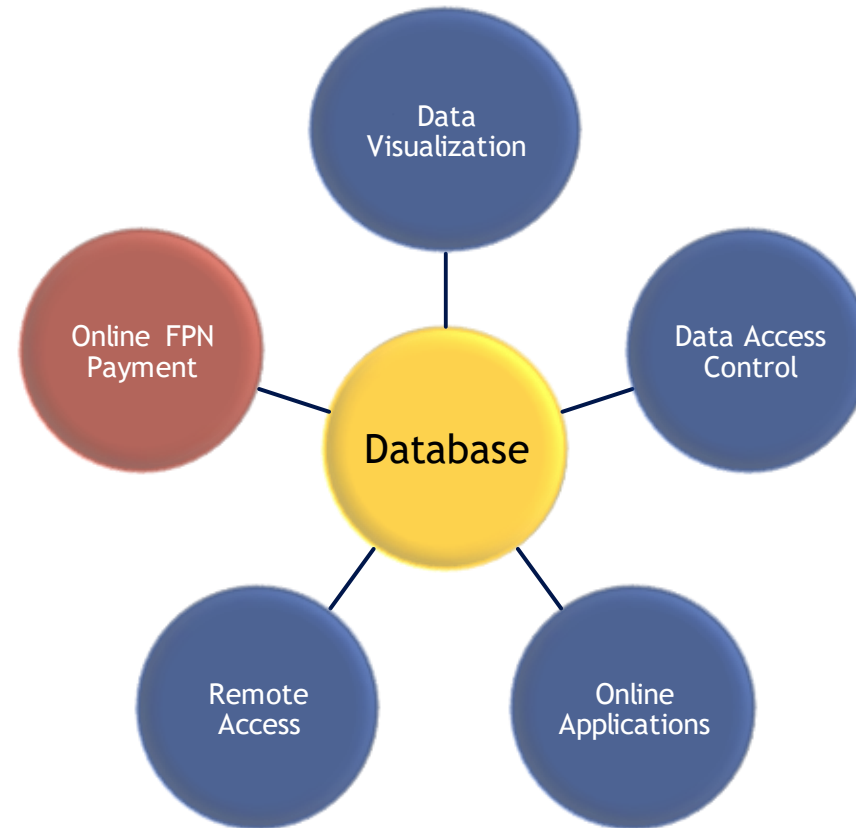
Online FPN Payment

► Problems:

- If offenders lose their FPN, they have no way to pay

► Recommendations:

- Email offenders a copy of the FPN
- Ensure that online FPN payment system directly enters information into database



Identifying Suitable Software Application

- ▶ Software systems such as this one are being used on other boroughs
- ▶ Farthest Gate's Liberator software system is being used by Hackney
 - ▶ Incorporates many identified features

Farthest Gate

OPENING SYSTEMS POSSIBILITIES

Next Steps

- ▶ Further Identify other council functions to be incorporated into software system
 - ▶ Other street clutter licensing
 - ▶ Parking violations
- ▶ Further benchmarking with other boroughs
 - ▶ Hackney for thoughts on Liberator
 - ▶ Tower Hamlets for insight on their new software system



Acknowledgements

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Image Citations

- ▶ http://www.brixtonblog.com/wp-content/uploads/2013/05/abh_brixton-underground.jpg
- ▶ <https://i.pinimg.com/originals/34/8e/25/348e258cf1b78ebc485e1db0fcce3d39.png>
- ▶ <https://www.google.co.uk/imgres?imgurl=http%3A%2F%2Fhidden-london.com%2Fwp-content%2Fuploads%2F2011%2F08%2FClapham-Common-pond-800.png&imgrefurl=http%3A%2F%2Fhidden-london.com%2Fgazetteer%2Fclapham-common%2F&docid=QujefftM2kS8nM&tbnid=HcL1kZzwZWUQxM%3A&vet=10ahUKEwiCkPbUkMTaAhUBOsAKHUjaBI0QMwiOASgeMB4..i&w=800&h=445&bih=588&biw=1366&q=clapham%20common&ved=0ahUKEwiCkPbUkMTaAhUBOsAKHUjaBI0QMwiOASgeMB4&iact=mrc&uact=8>
- ▶ <https://s3-eu-west-1.amazonaws.com/img.endole.co.uk/logos/farthestgatecouk9c743.png>
- ▶ https://upload.wikimedia.org/wikipedia/en/thumb/d/d8/Lb_lambeth_logo.svg/1280px-Lb_lambeth_logo.svg.png
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- ▶ http://www.chestertons.com/~/_media/chestertons/images/content/rows/example/clapham%20picture%20house_2%20b.jpg?mw=760
- ▶ https://www.towerhamlets.gov.uk/News_events/News/2017/August_2017/Response_to_fostering_story_in_The_Times.aspx
- ▶ <https://thenounproject.com/term/community/288/>
- ▶ <http://monplancul.info/layout-chairs/layout-chairs-restaurant-table-aisle-spacing-drawing-plan-view/>
- ▶ <https://www.rt.com/viral/372410-garbage-blocks-parked-car/>