Boston incident reports analysis
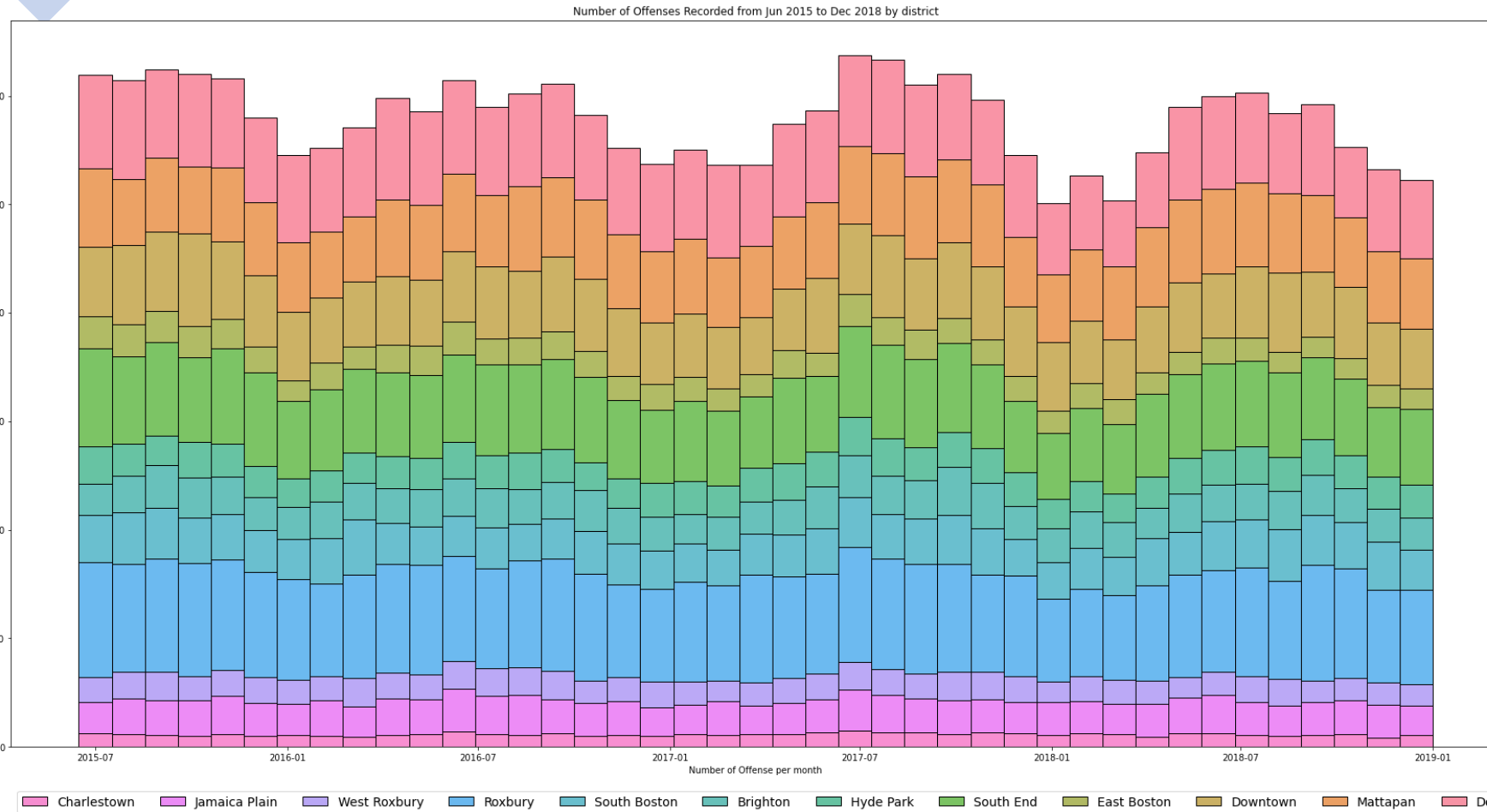
Global Boston offense analysis

Number of Offenses Recorded from Jun 2015 to Dec 2018 by type of offense

OFFENSE_CODE_GROUP
- Other
- Fraud and law violations
- Police investigation procedure
- Violence and harassment
- Drugs and disorderly conduct
- Larceny and vandalism
- Disputes

Number of Offense per month
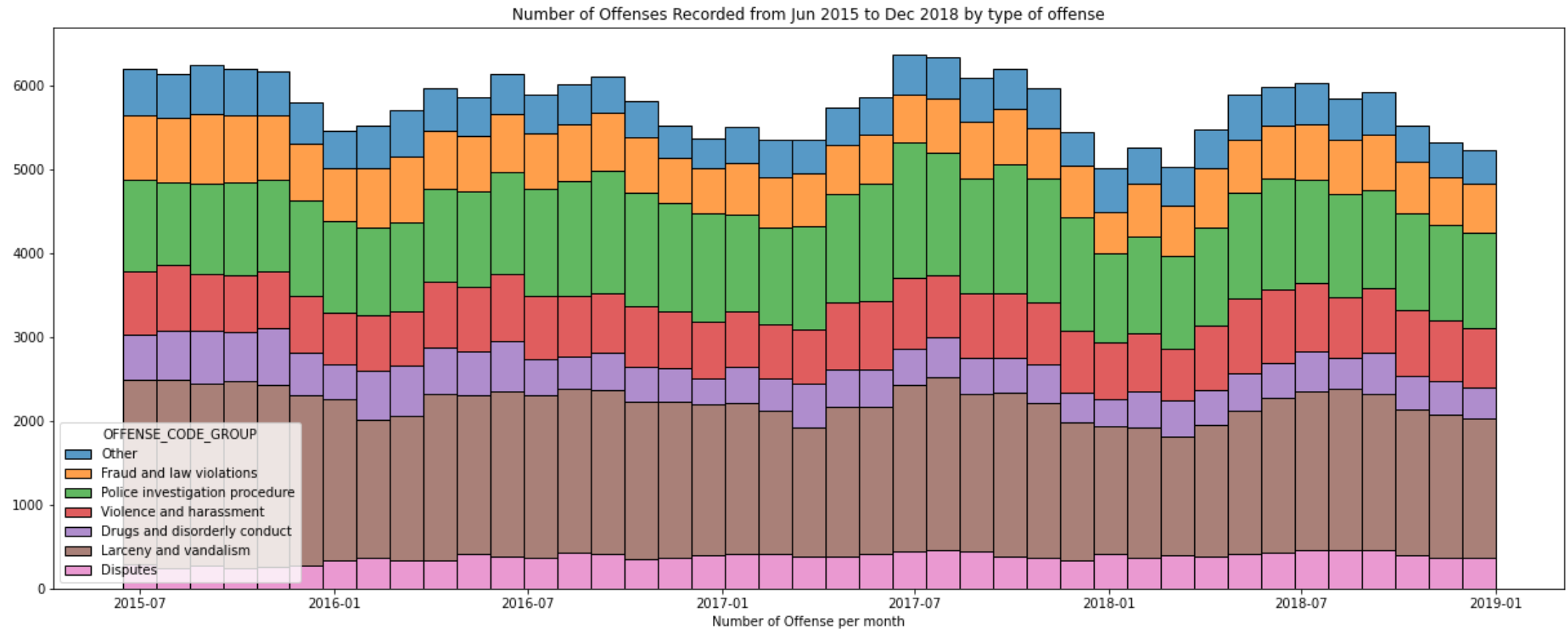
- Larceny and vandalism is the main offense occuring from Jul 2015 to Dec 2018.

- Seasonality of criminality : Oscilation between January (low) and July (high, ~ +11%)

Per district Boston offense analysis

Number of Offenses Recorded from Jun 2015 to Dec 2018 by district

Number of Offense per month

Charlestown · Jamaica Plain · West Roxbury · Roxbury · South Boston · Brighton · Hyde Park · South End · East Boston · Downtown · Mattapan · Dorchester

Dorchester, Mattapan, Downtown, SouthEnd, Roxbury

5 Districts that concentrates more than **66%** of the offense records.

Count of type of offense in Downtown

Larceny and vandalism	9250
Police investigation procedure	5454
Violence and harassment	3496
Fraud and law violations	3240
Drugs and disorderly conduct	2508
Other	2030
Disputes	254

Count of type of offense in Mattapan

Police investigation procedure	6999
Larceny and vandalism	6597
Violence and harassment	3909
Disputes	3573
Fraud and law violations	2968
Other	2378
Drugs and disorderly conduct	1895

Count of type of offense in Dorchester

Larceny and vandalism	9224
Police investigation procedure	7424
Violence and harassment	4066
Fraud and law violations	3702
Disputes	3066
Other	2790
Drugs and disorderly conduct	2584

Count of type of offense in South End

Larceny and vandalism	14007
Police investigation procedure	5540
Violence and harassment	3470
Fraud and law violations	3192
Drugs and disorderly conduct	2191
Other	2090
Disputes	758

Count of type of offense in Roxbury

Larceny and vandalism	10464
Police investigation procedure	8026
Violence and harassment	5492
Fraud and law violations	4819
Other	3570
Disputes	3450
Drugs and disorderly conduct	3039

Homogeneous distribution of the different type of offense per district

Global Boston offense analysis

NAME	HAVERSINE_DIST
Brighton	1.470308
Charlestown	0.924531
Dorchester	0.946109
Downtown	0.556278
East Boston	1.093582
Hyde Park	1.192822
Jamaica Plain	0.860149
Mattapan	1.012703
Roxbury	1.156702
South Boston	1.083229
South End	1.411887
West Roxbury	2.134787

Progress to do to reduce the average distance between police station and offense, especially in Brighton and Roxbury, considering they have high offense rate