Road Danger Reduction – City Etiquette Guide

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Analysis of KSI collisions

City of London Corporation

September 2017

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The analysis has been undertaken using data obtained from TfL for a 5-year period, between 1stJanuary 2012 and 31st December 2016.

Maps and charts have been developed looking at collisions resulting in fatalities or serious injuries (KSI - killed or seriously injured). The dataset includes 261 of these occurrences (11 fatal and 250 serious).

Yearly Trends

- The yearly number of KSI collisions is slowly decreasing: from 58 in 2012 to 50 in 2016, with a significant low in 2015 (42 KSI collisions)
- On the other hand, the number of collisions involving pedestrians has been growing (from 20 in 2012 to 29 in 2016). During the last year, half of all KSI collisions involved pedestrians.
- Collisions involving cyclists are decreasing in line with the total number of occurrences.

Hotspots

- Almost half of all KSI collisions in the City of London occur on the TLRN network
- The junctions showing the highest concentration of KSI collisions are: Bank junction; King William Street with Cannon Street (Monument Station); Ludgate Circus (City Thameslink Station); Farringdon Street with West Smithfield

Vulnerable Users

- Pedestrians and cyclists are the most affected modes. The two categories are involved in approximately the same share of KSI collisions (42.2% involved pedestrians, 42.5% involved cyclists) - but cyclists counted the highest number of fatalities (6 in the last 5 years, vs 4 pedestrians).
- Hotspots for collisions involving pedestrians are Bank junction, Farringdon St/Fleet St, Bishopsgate, Moorgate and Fenchurch St.
- Hotspots for collisions involving cyclists are in proximity of interchange areas, possibly due to highest kerbside 'friction' (pedestrians, taxis, etc.): Bank junction, Monument junction and Ludgate Circus (City Thameslink).

Other modes

- Goods vehicles are the mode which most frequently involved in KSI conflicts with cycles and pedestrians (44 collisions involving goods vehicle and vulnerable users, 17% of the total).
- Taxis are involved in a limited number of collisions (15%) if compared to the number of collisions involving other cars (25%). According to DfT guidance, the category 'Taxi' should include privately hired vehicles.

Impact of congestion

Traffic levels have a clear impact on collisions involving 2 wheelers: 45% of collisions involving pedestrians and motorcycles, and 29% of collisions involving pedestrians and cyclists occur in presence of stationary traffic (pedestrians crossing masked by stationary vehicles)

Impact of CS3 (East-West) and CS6 (North-South)

- It is too early to measure the impact of the opening of North-South and East-West Cycle • Superhighways (April-May 2016) but a few provisional considerations can be made.
- Whilst the overall number of collisions involving cyclists has decreased from 2015 to 2016, the number of collisions occurring along the two routes had an increase (the increase regarded slight collisions only, and not KSIs)
- This can partly relate to the large increase in cycle flows along these links (+30% over the last year 5 years, according to screen line surveys).



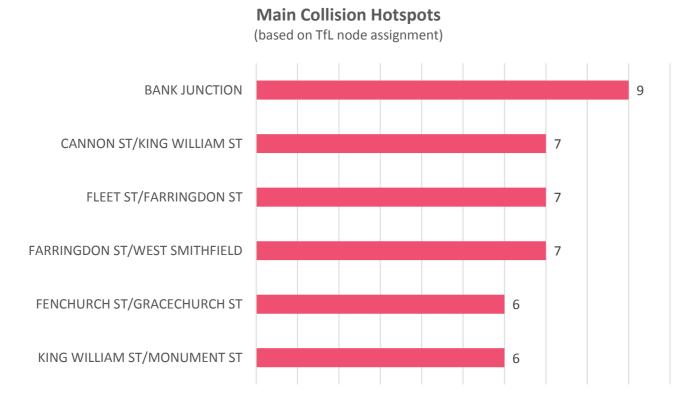
Executive Summary

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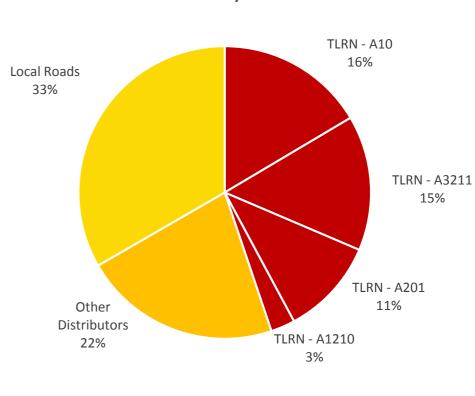


General Overview

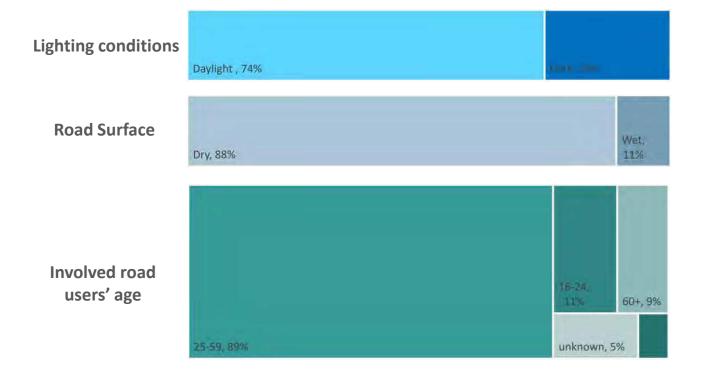
Killed/Seriously Injured (KSI) collisions – General Statistics

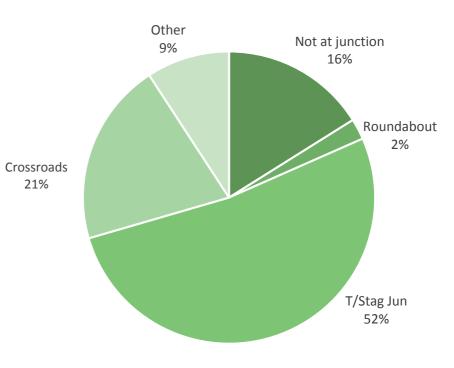


KSI Collisions by Road Class



KSI Collisions by Road Layout

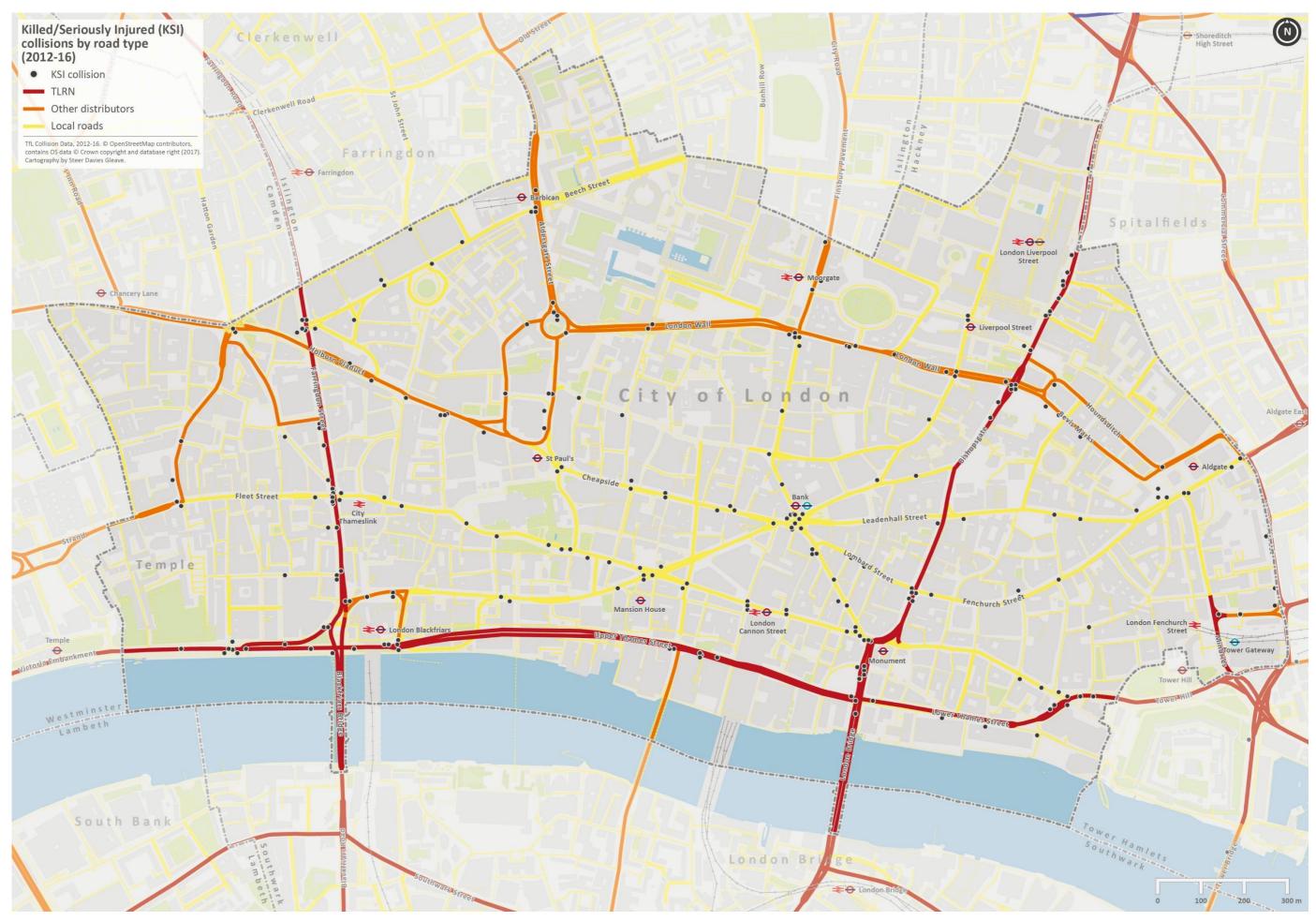




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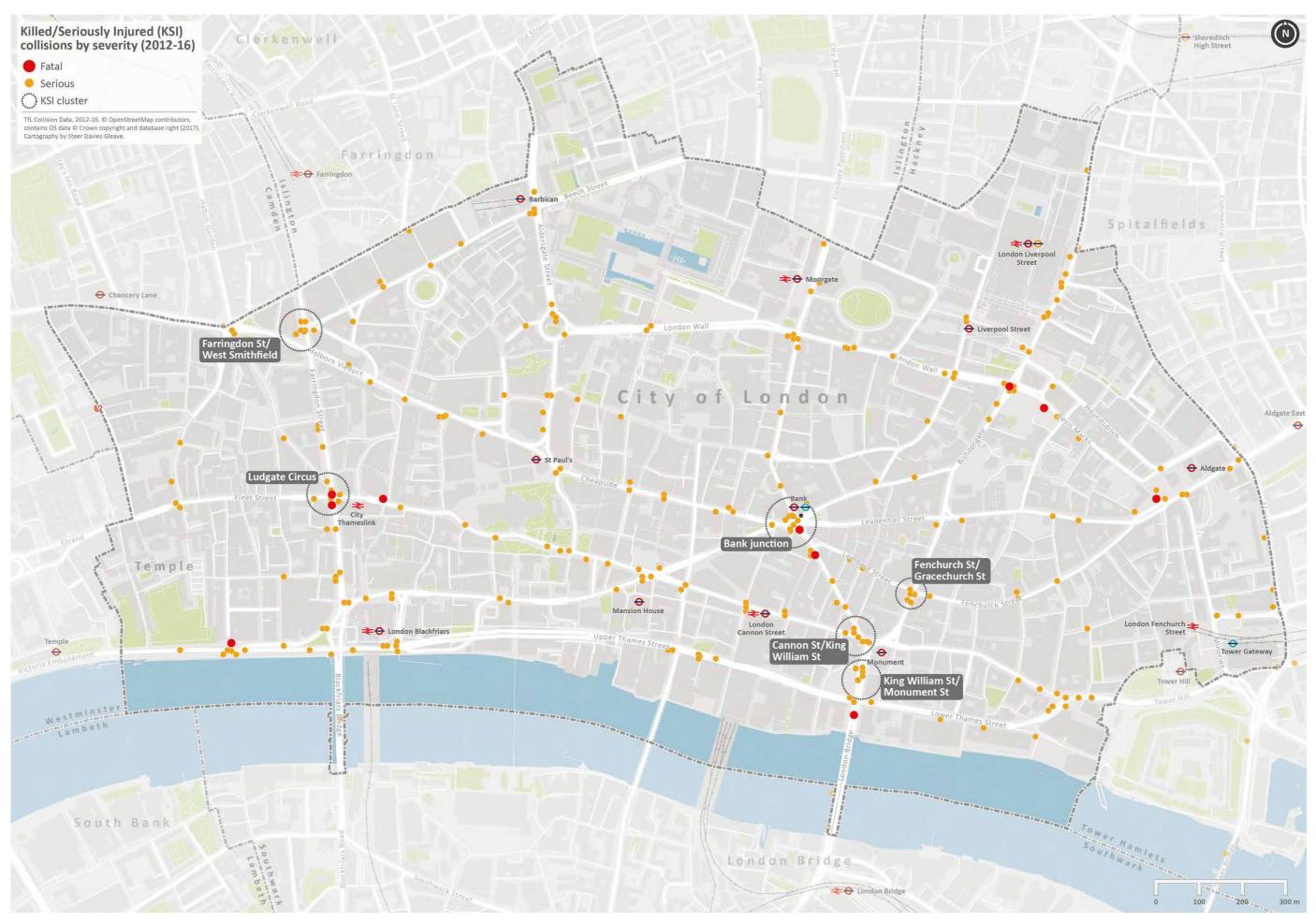


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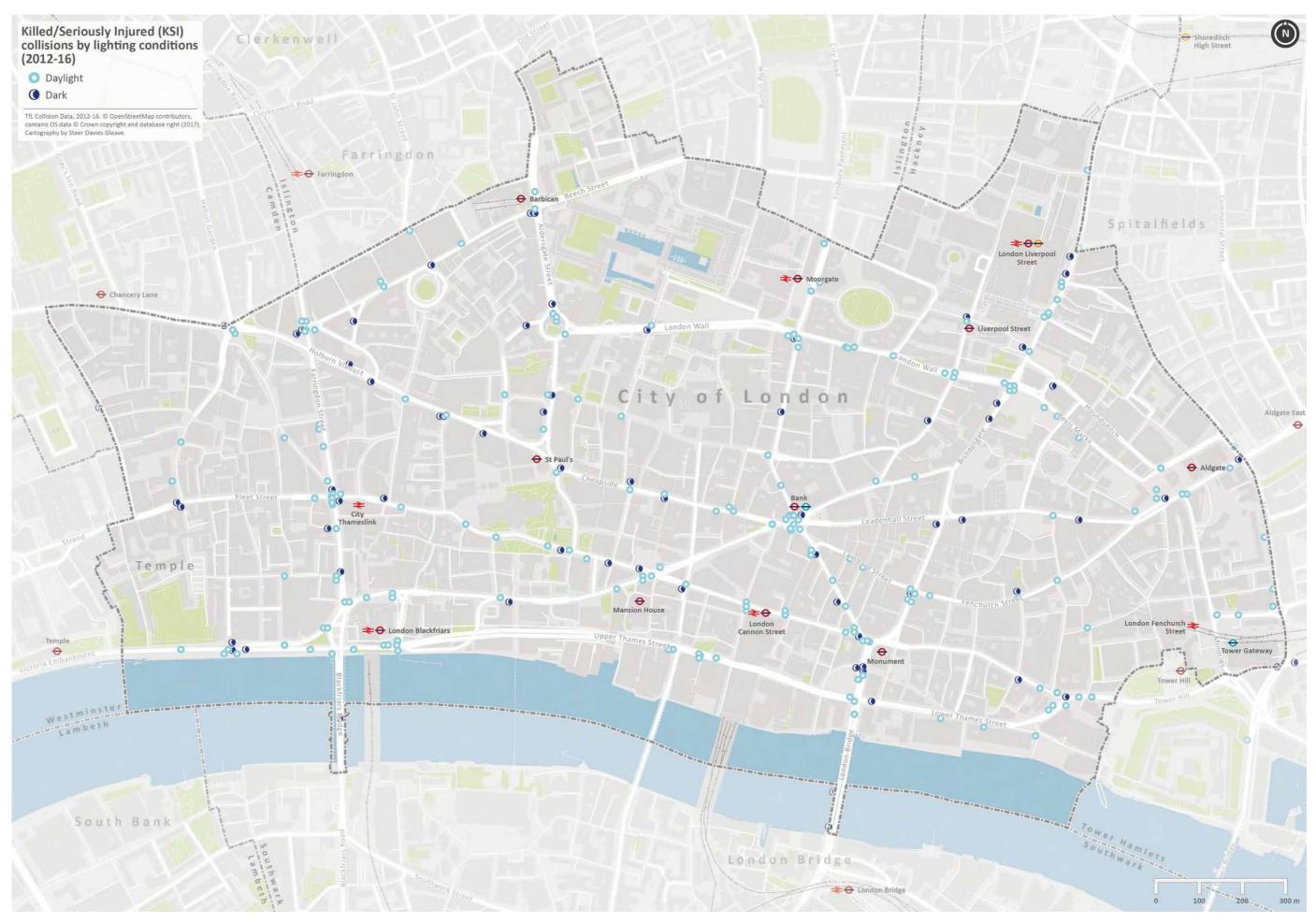




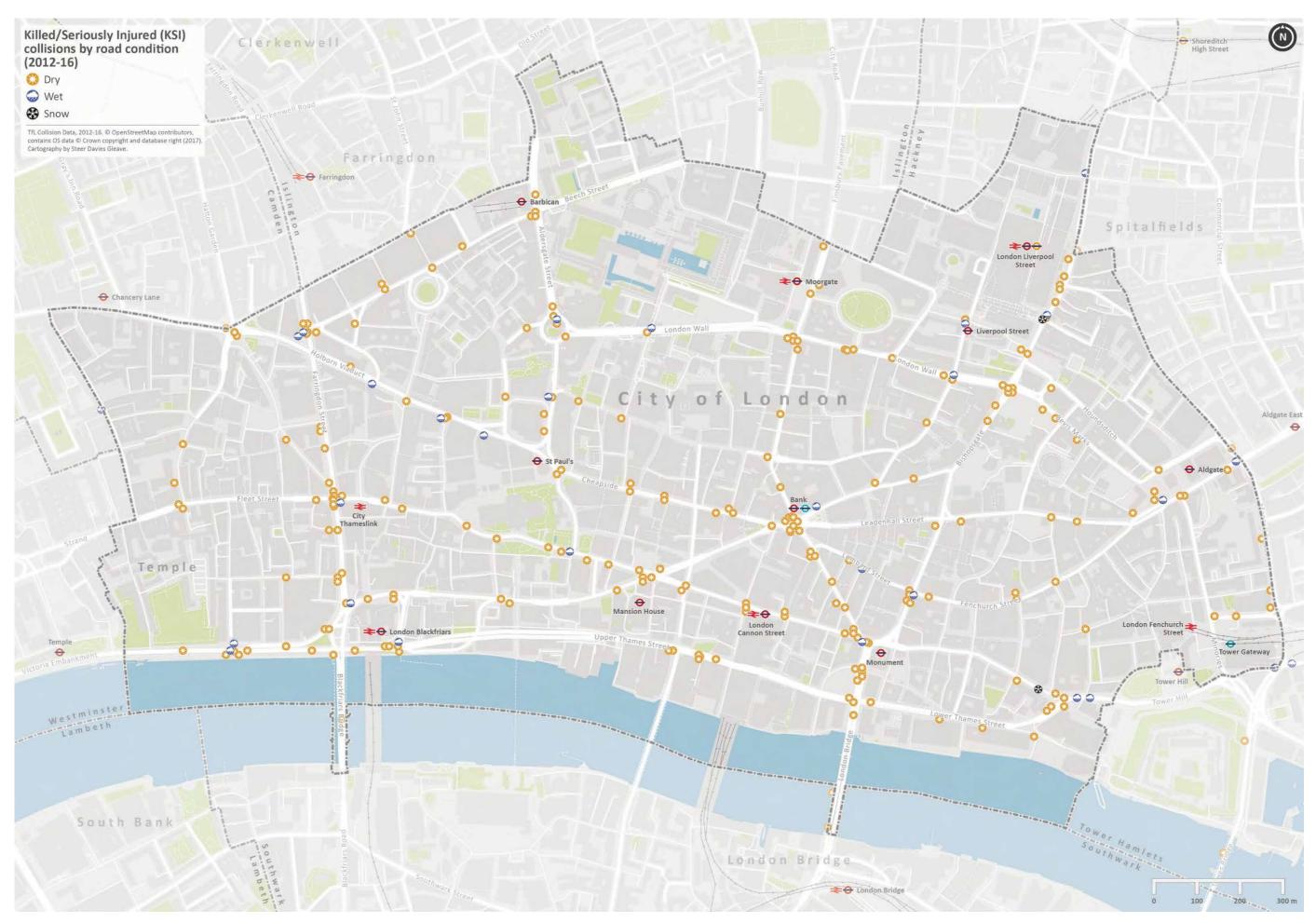








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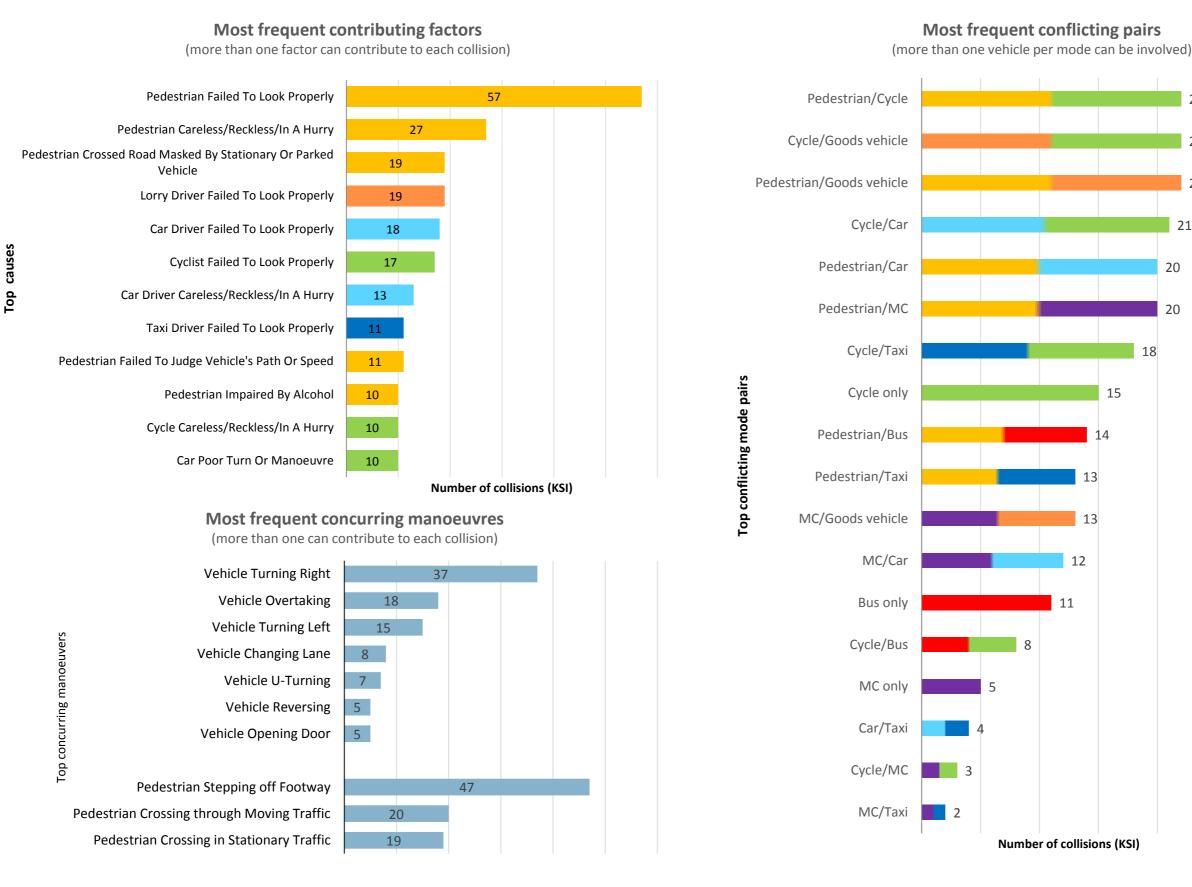






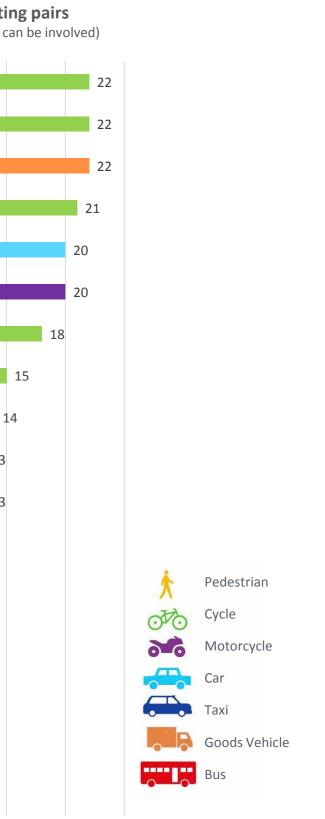
Contributing Factors and Modes Involved

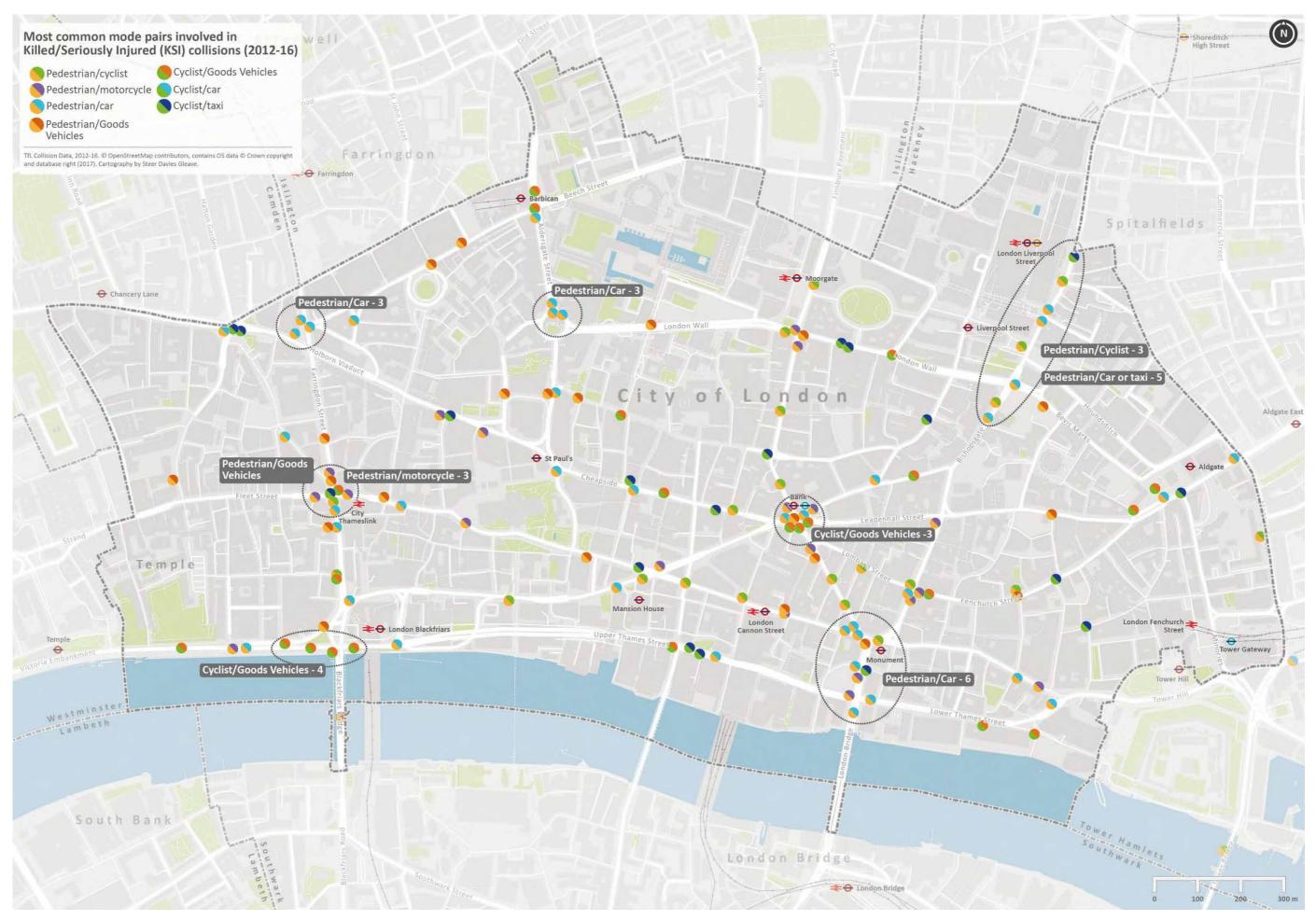
Killed/Seriously Injured (KSI) – modes and contributing factors



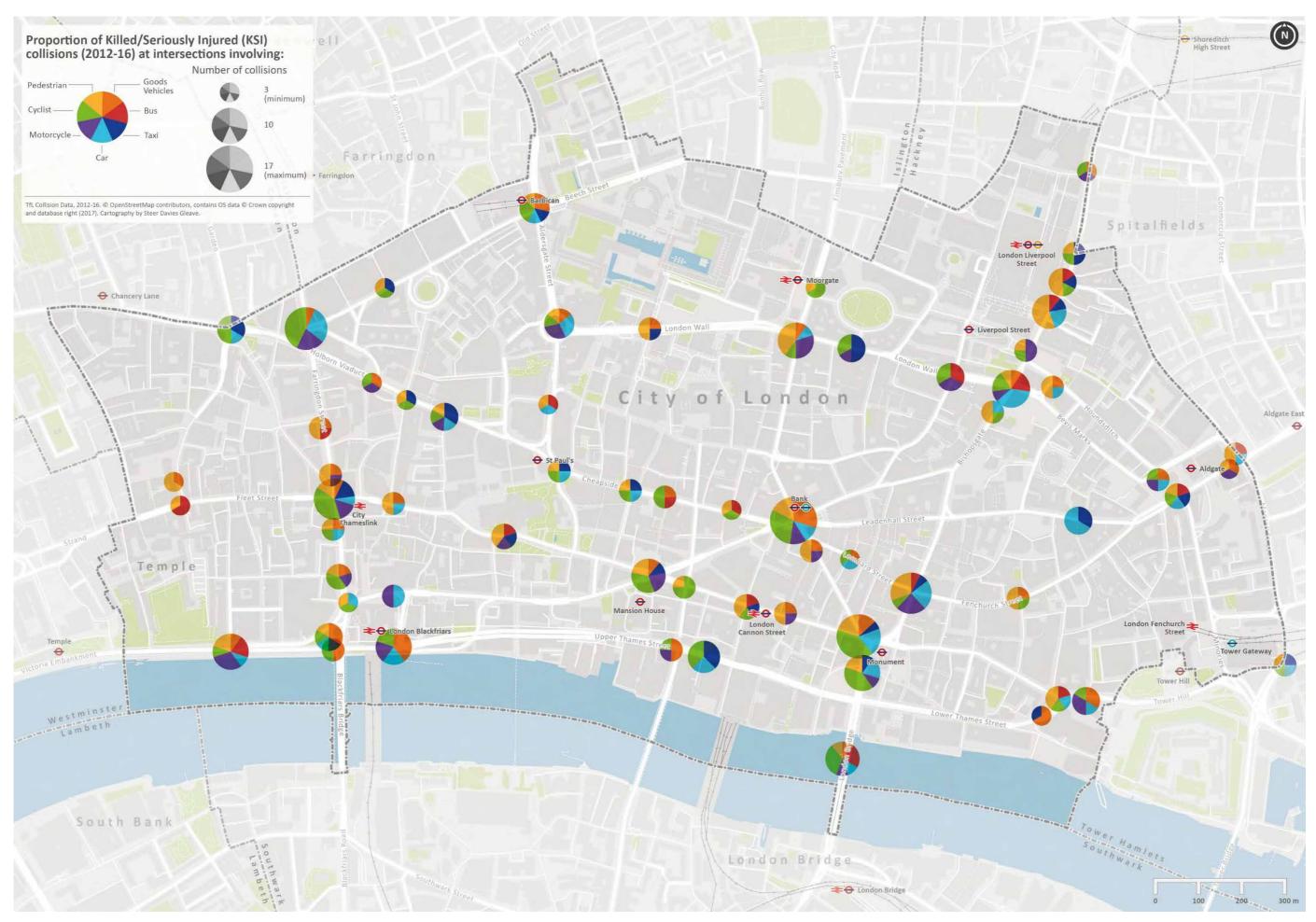
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Based on TfL Personal Injury Collision Data 2012-2016 (provisional) 261 KSI collisions recorded - 11 of which fatal, 250 resulting in serious injuries



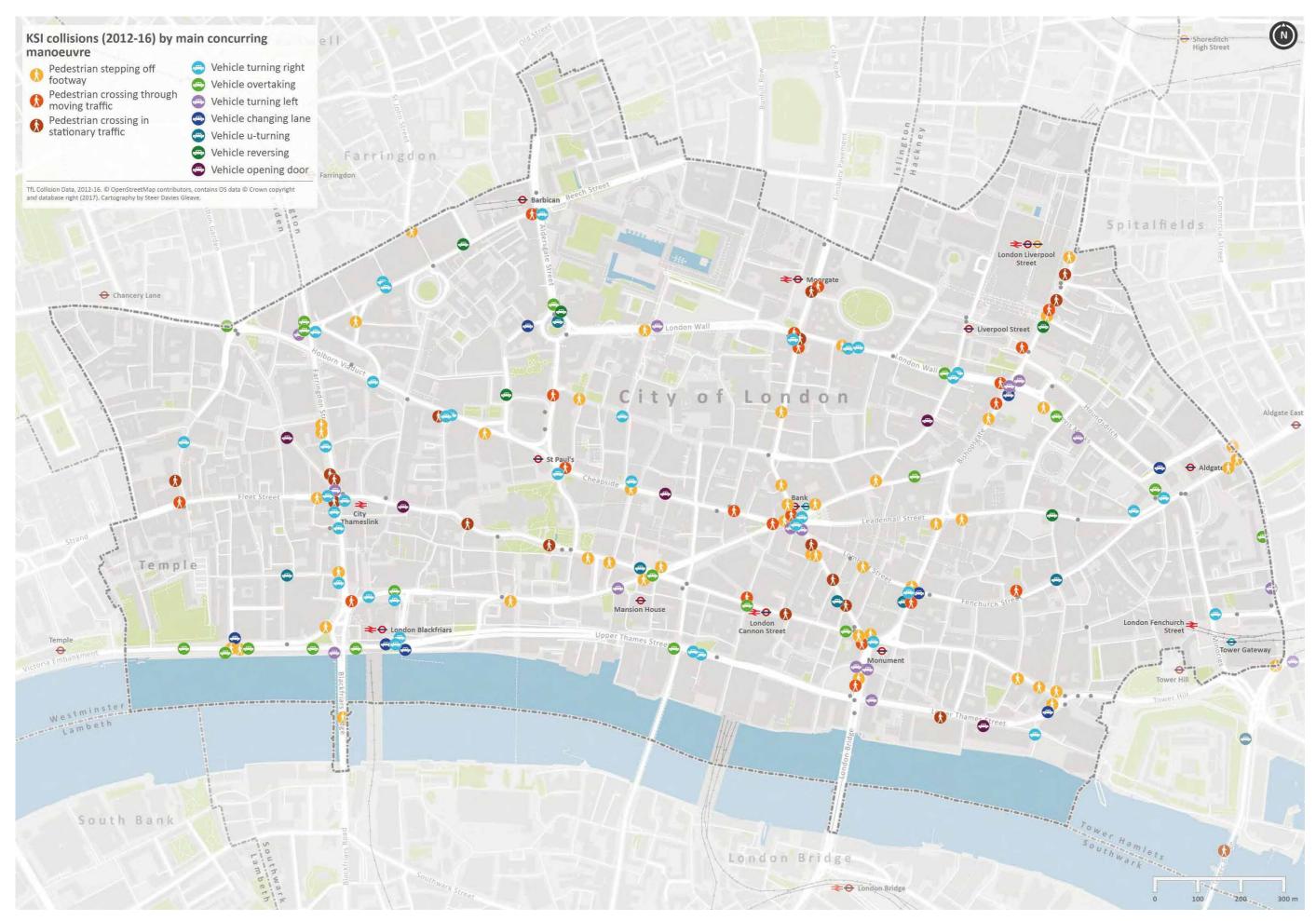








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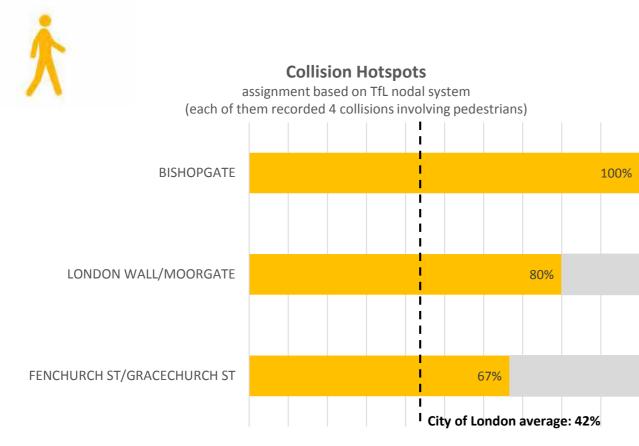




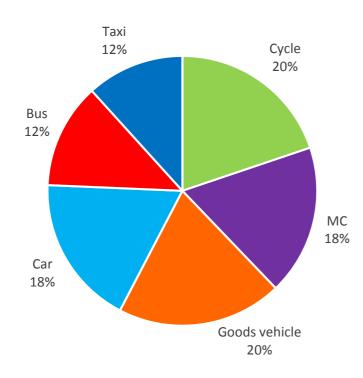


Focus on Vulnerable Users

Killed/Seriously Injured (KSI) Collisions involving pedestrians

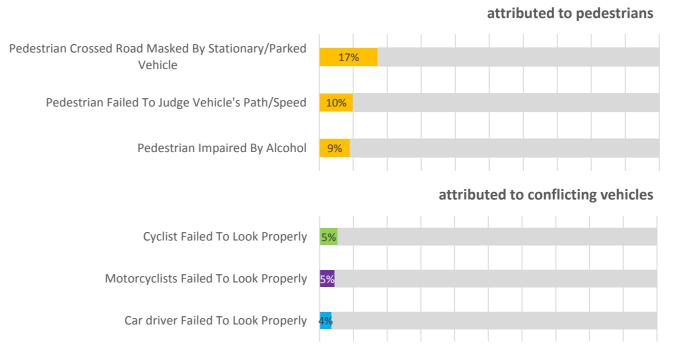


Modes involved in collisions with pedestrians (by percentage)



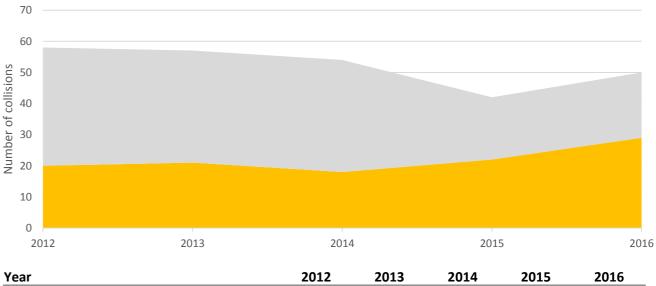


(more than one factor can contribute to each collision)





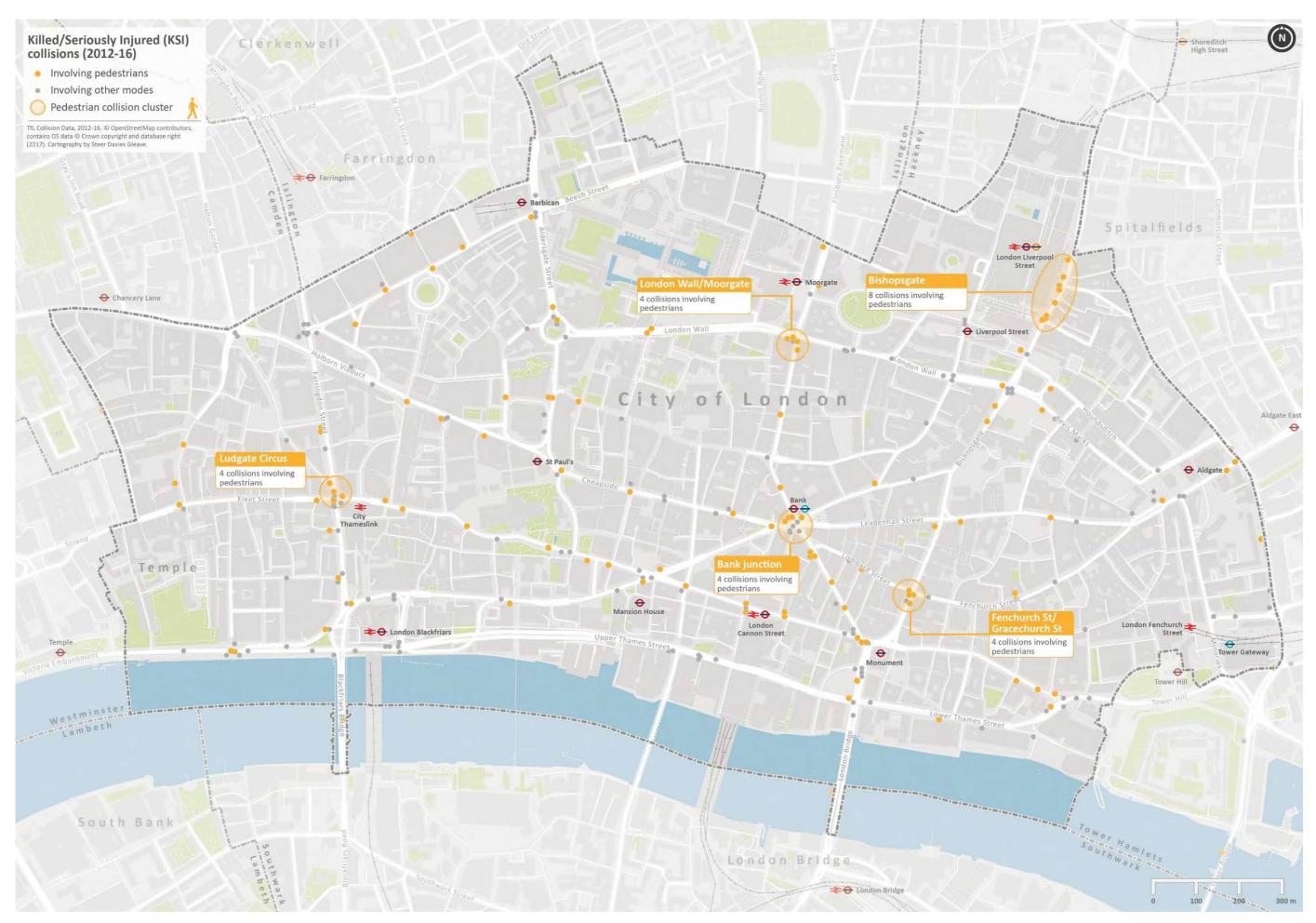
(total and pedestrian related-collisions)



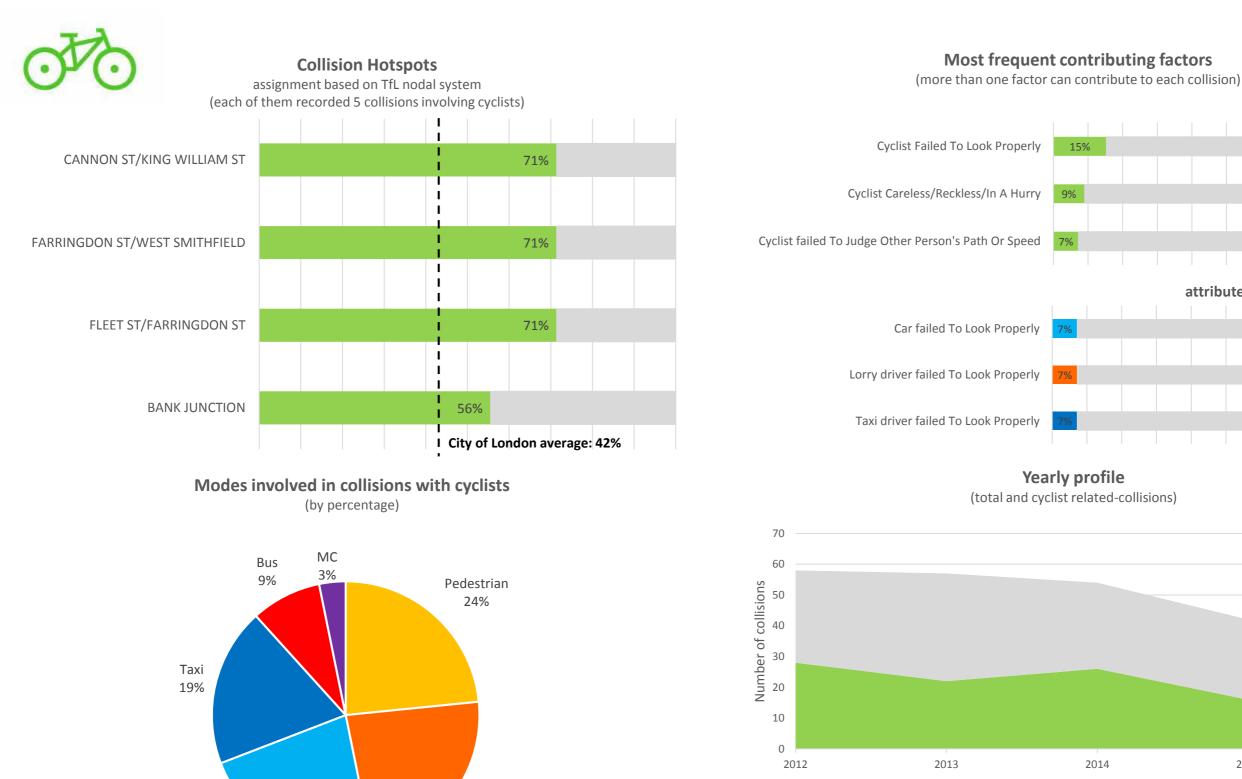
Year	2012	2013	2014	2015	2016
Collisions	58	57	54	42	50
Collisions involving pedestrians	20	21	18	22	29
% of the total	34%	37%	33%	52%	58%



Based on TfL Personal Injury Collision Data 2012-2016 (provisional) 110 KSI collisions recorded - 4 of which fatal, 106 resulting in serious injuries



Killed/Seriously Injured (KSI) Collisions involving cyclists



Goods vehicle 23%

Year	2012	2013	2014	2015	2016
Collisions	58	57	54	42	50
Collisions involving cyclists	28	22	26	16	19
% of the total	48%	39%	48%	38%	38%

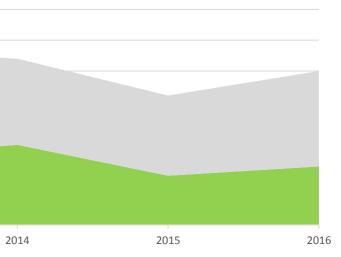


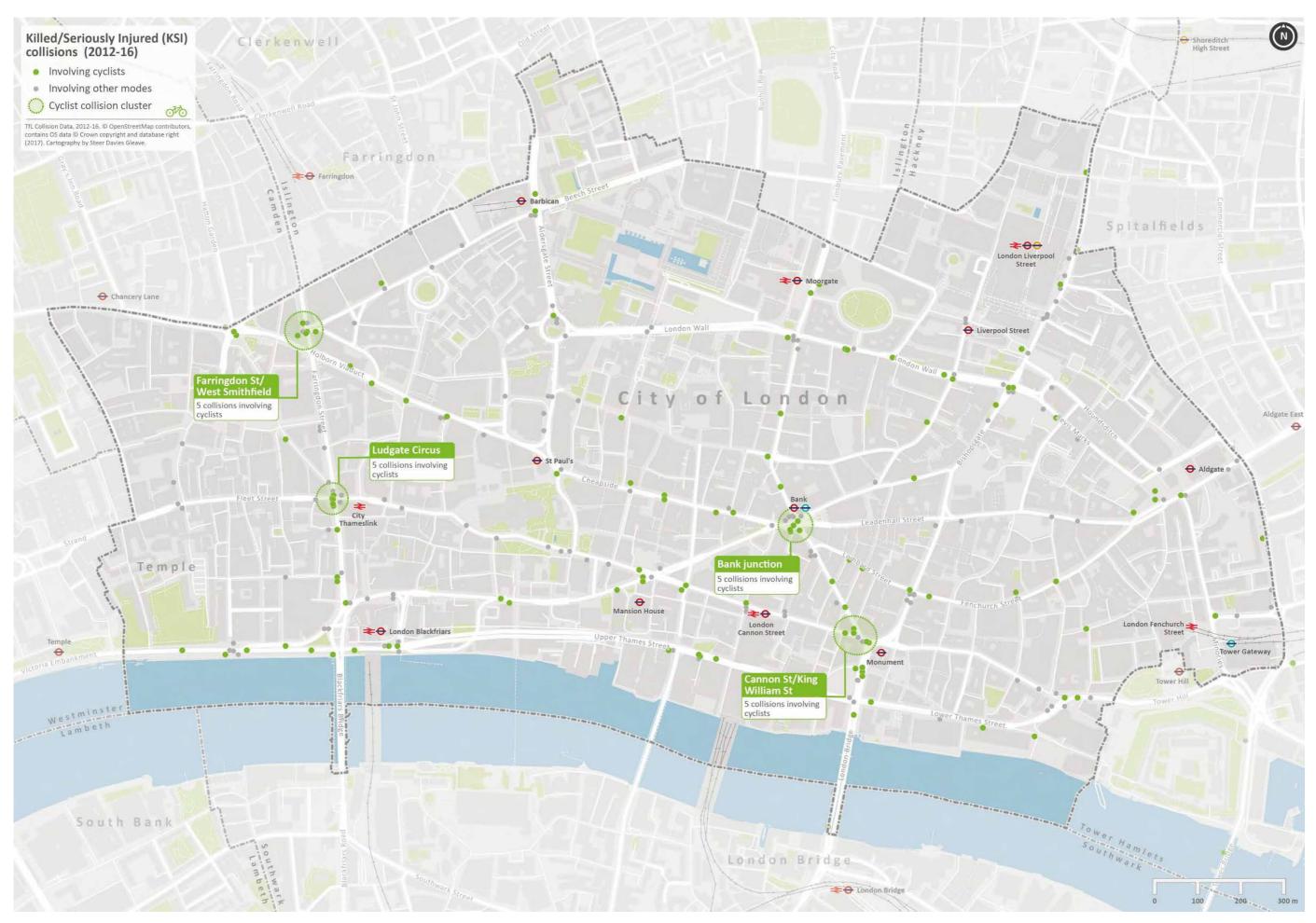
Car 22%

Based on TfL Personal Injury Collision Data 2012-2016 (provisional) 111 KSI collisions recorded - 6 of which fatal, 105 resulting in serious injuries

		attributed to cyclists				

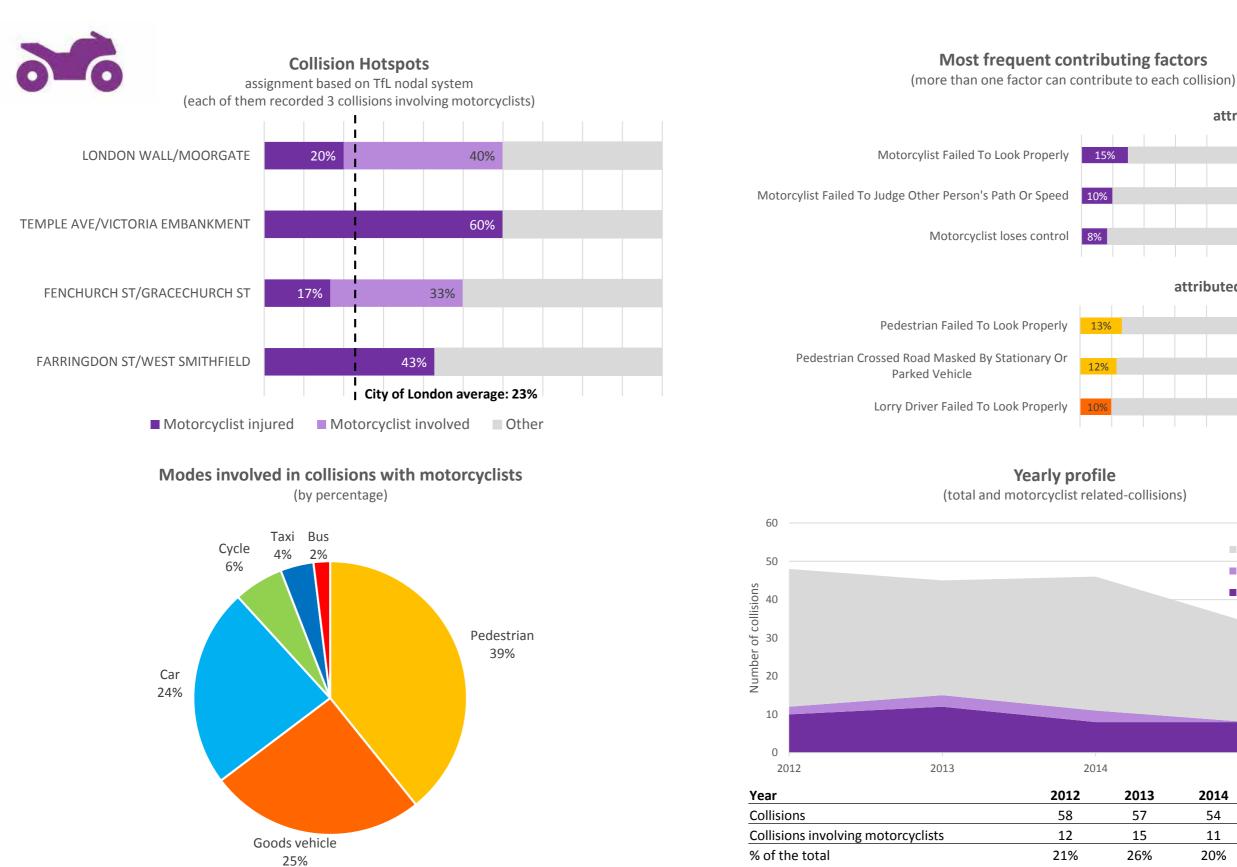
attributed	to	conflicting vehicles	



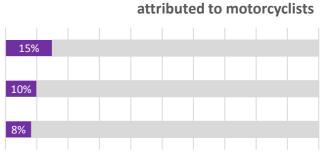




Killed/Seriously Injured (KSI) Collisions involving motorcyclists



Based on TfL Personal Injury Collision Data 2012-2016 (provisional) 60 KSI collisions recorded - 1 of which fatal, 59 resulting in serious injuries

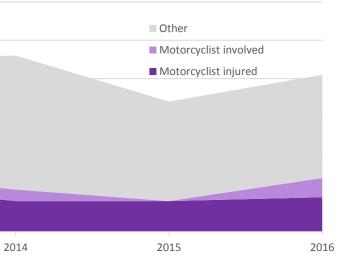


attributed to conflicting vehicles

6					

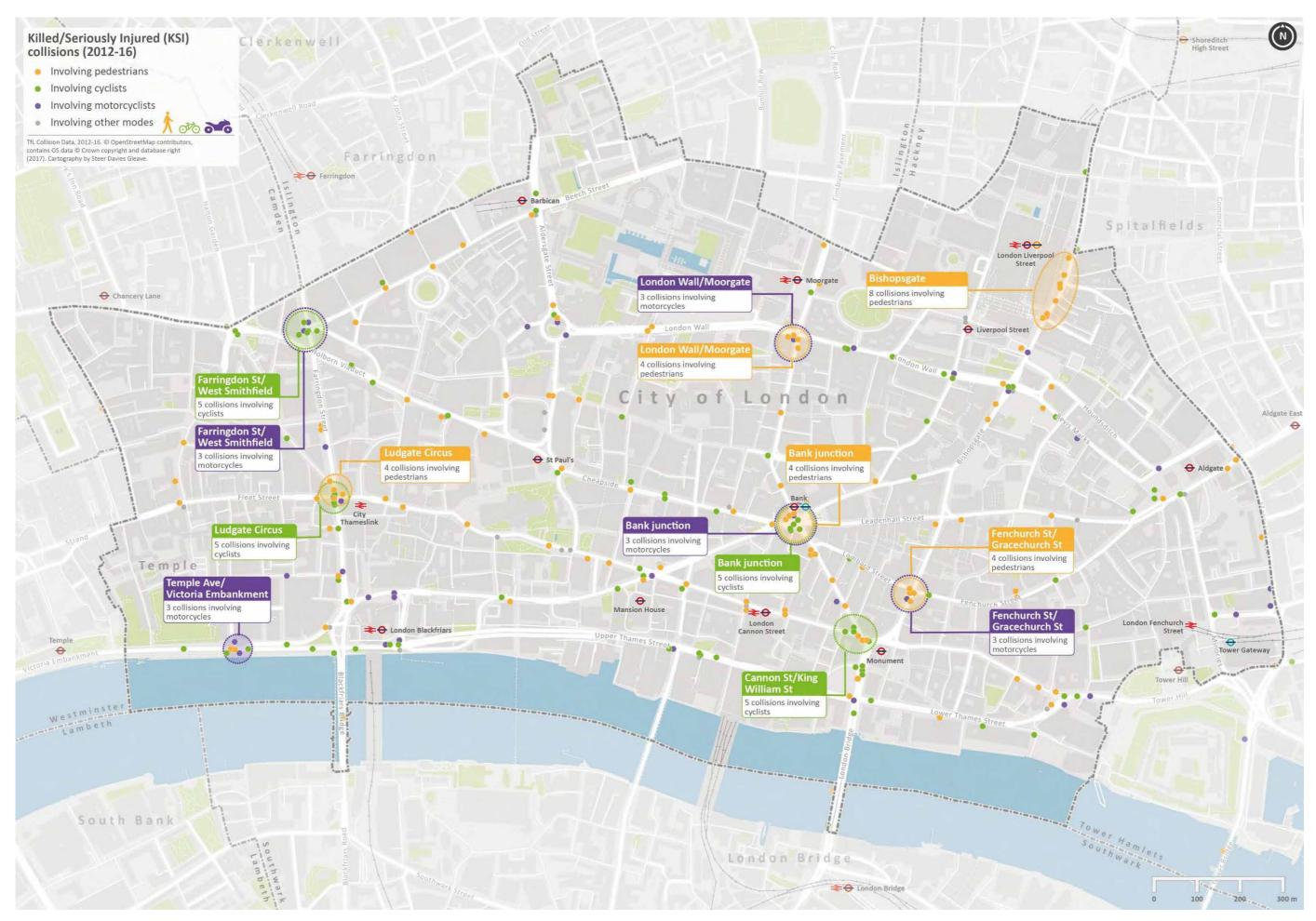
13%

12%

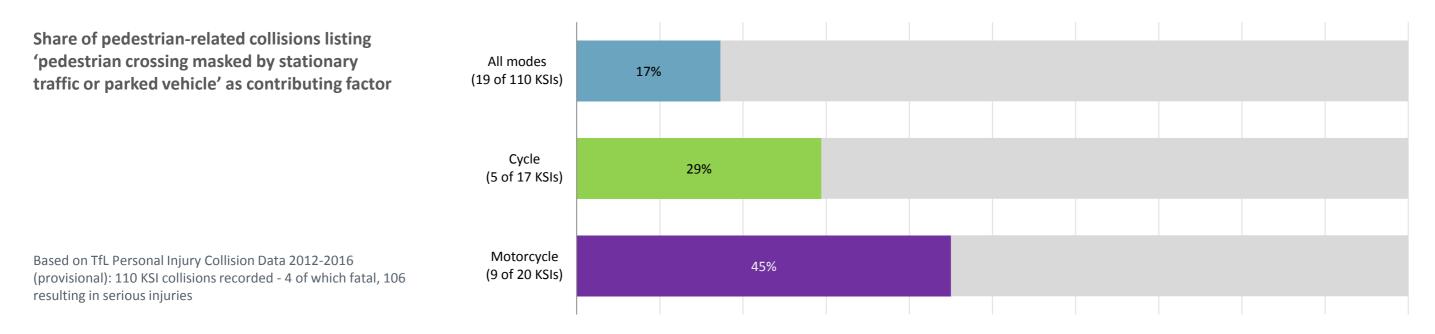


2013	2014	2015	2016
57	54	42	50
15	11	8	14
26%	20%	19%	28%

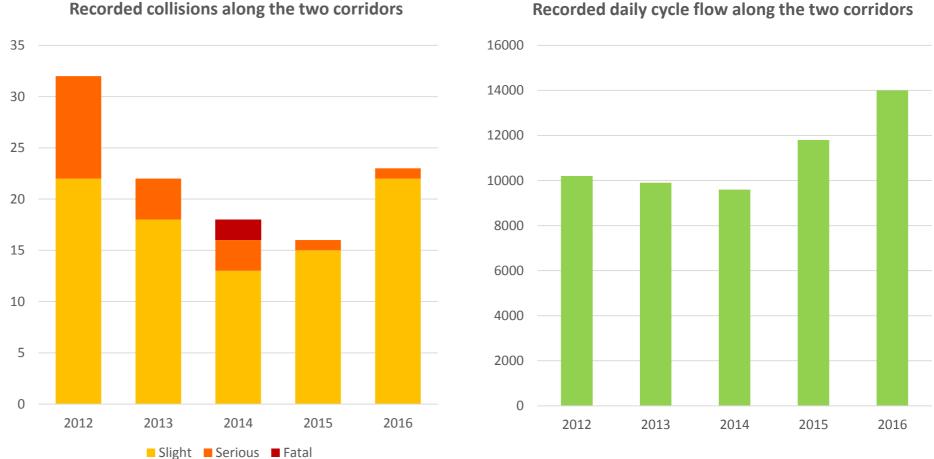




Impact of stationary traffic on collisions involving pedestrians and 2-wheelers



The opening of Cycle Superhighway 3 (East-West) and Cycle Superhighway 6 (North-South)



Collision data based on TfL Personal Injury Collision Data 2012-2016 (provisional): 57 collisions recorded - 2 of which fatal, 7 resulting in serious injuries, 48 in slight injuries.

Traffic Flows based on 24Hour Traffic Composition Survey undertaken along New Bridge Street and Upper Thames Street by Mouchel for City of London Corporation, March 2017.

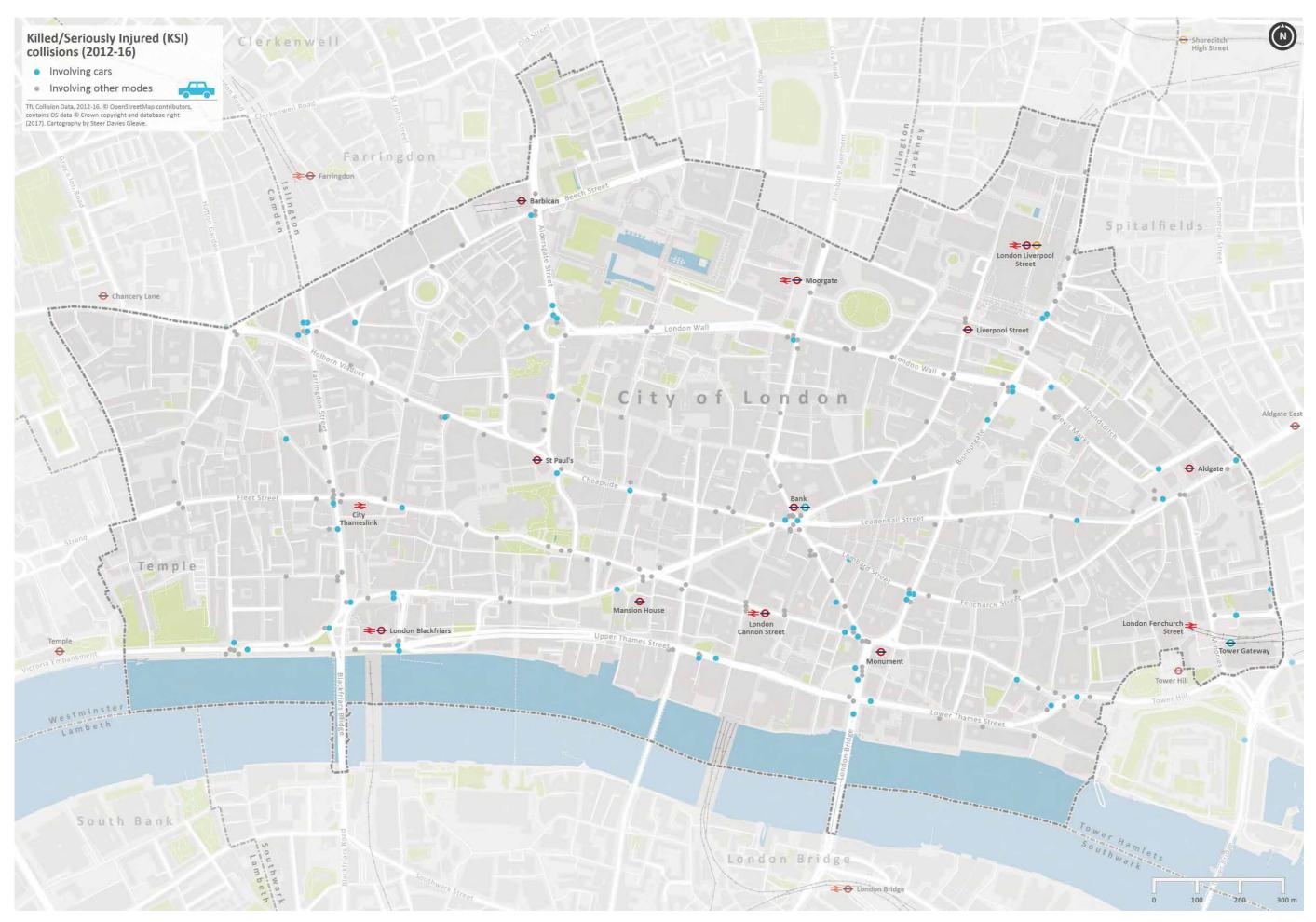


Recorded daily cycle flow along the two corridors

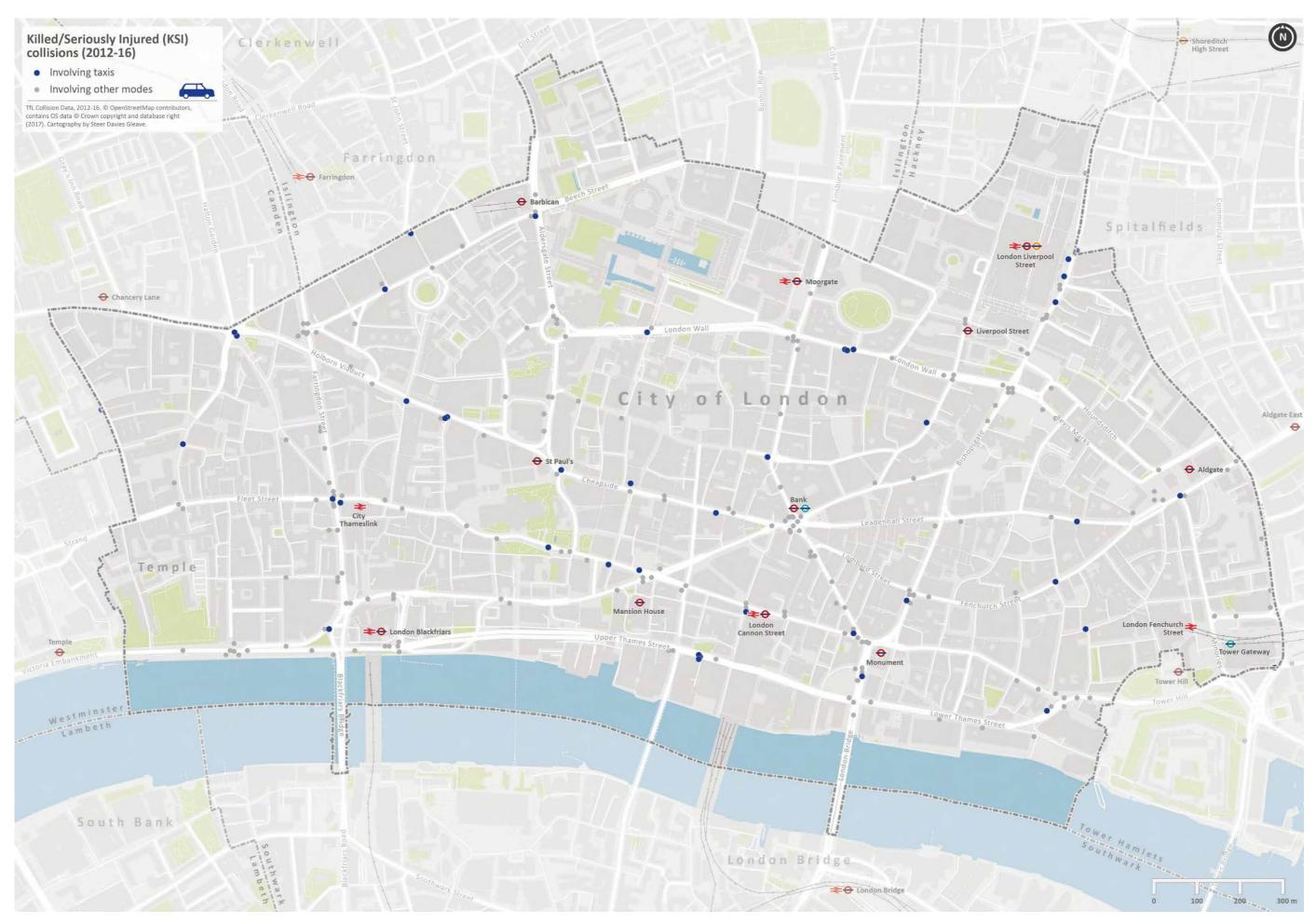
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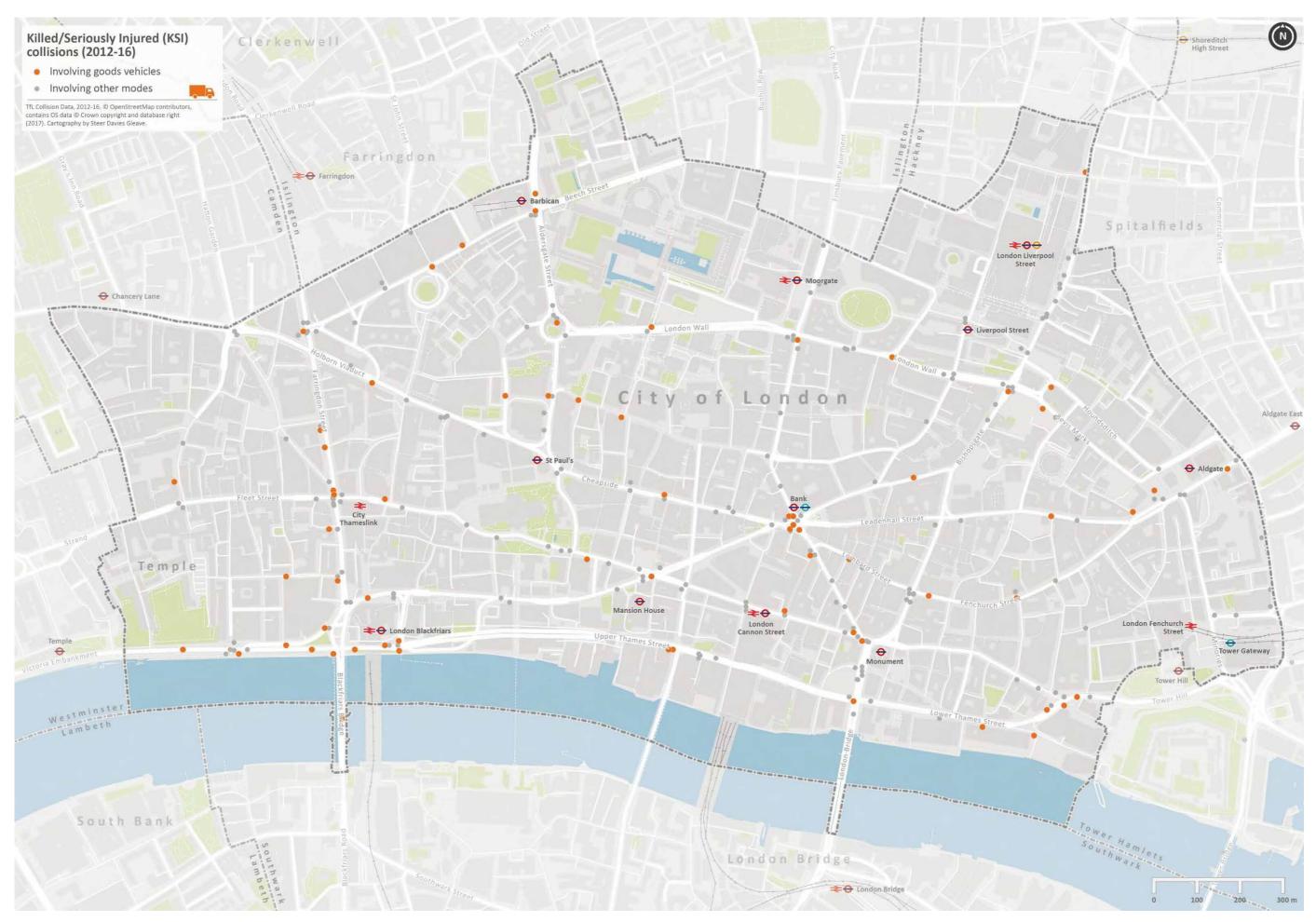
Appendix A Other Road Users



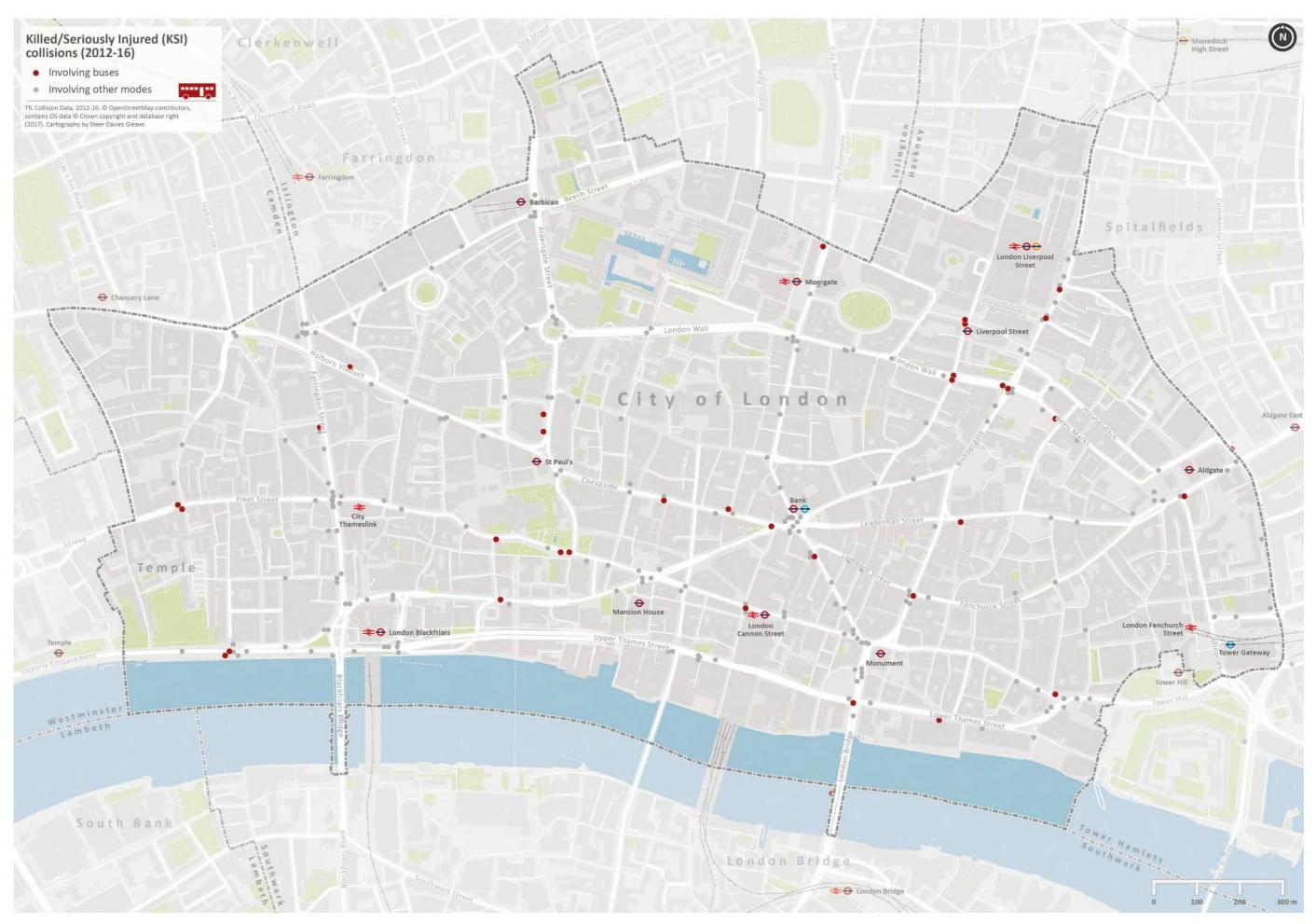




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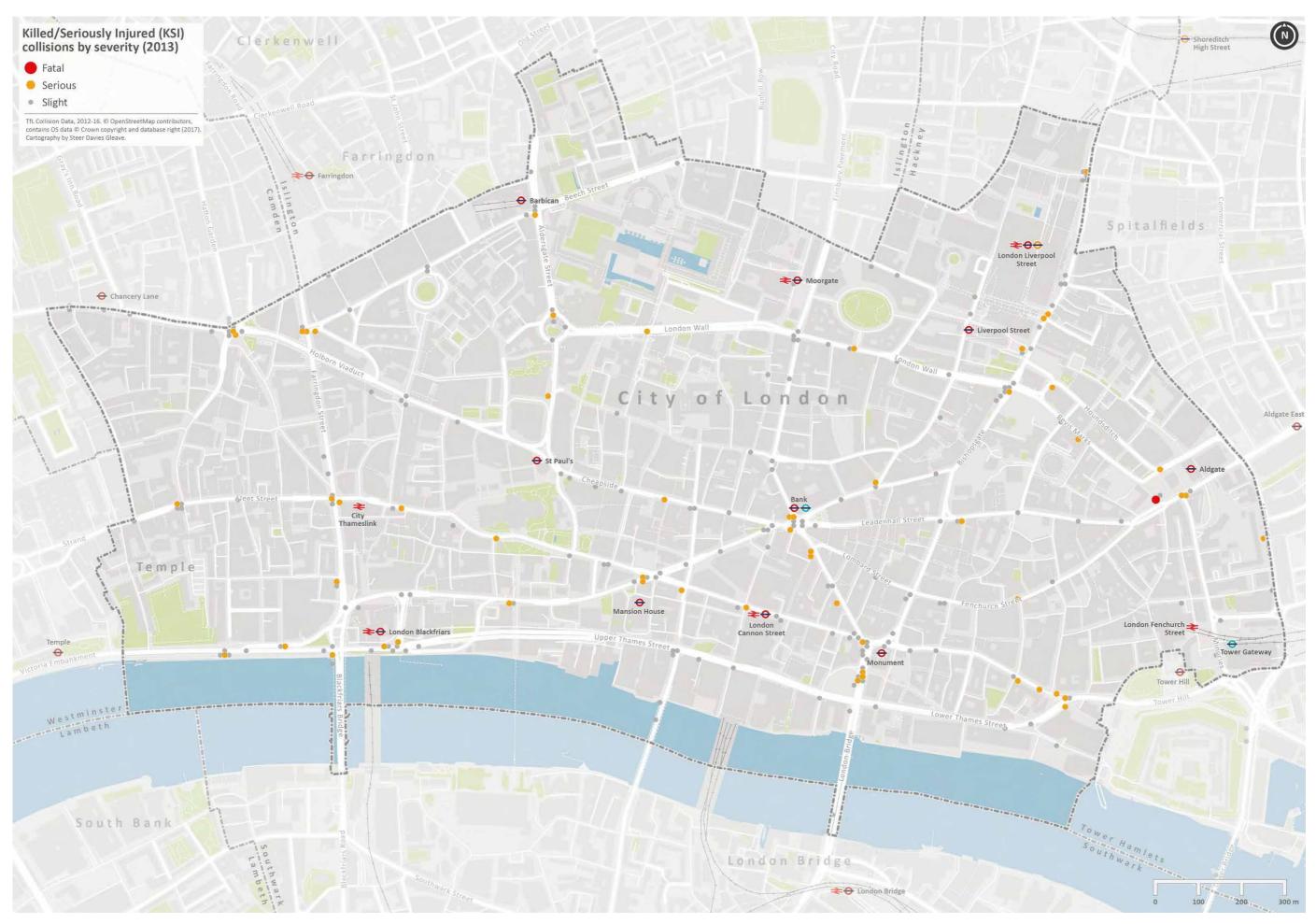




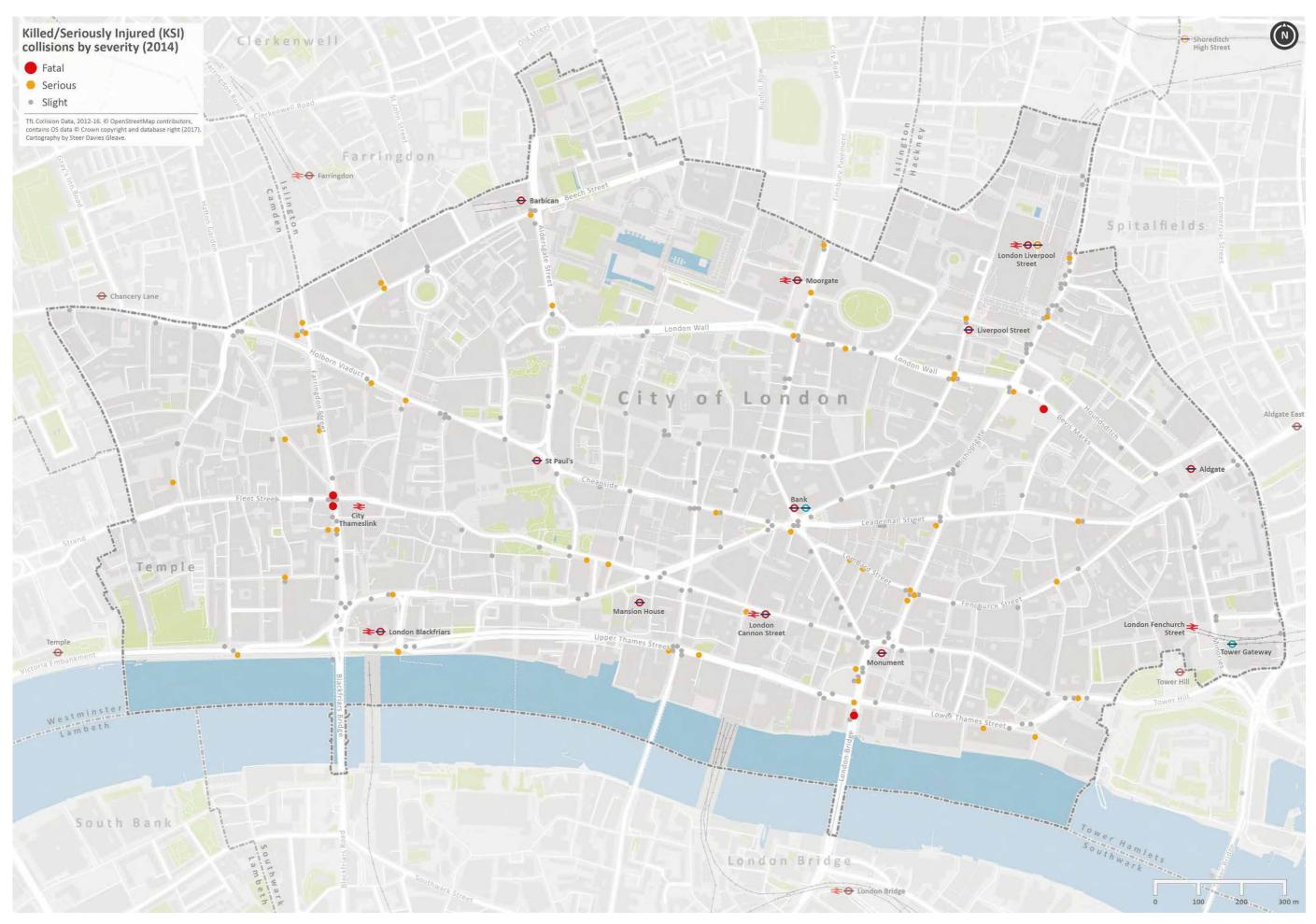
Appendix B KSI collisions by year



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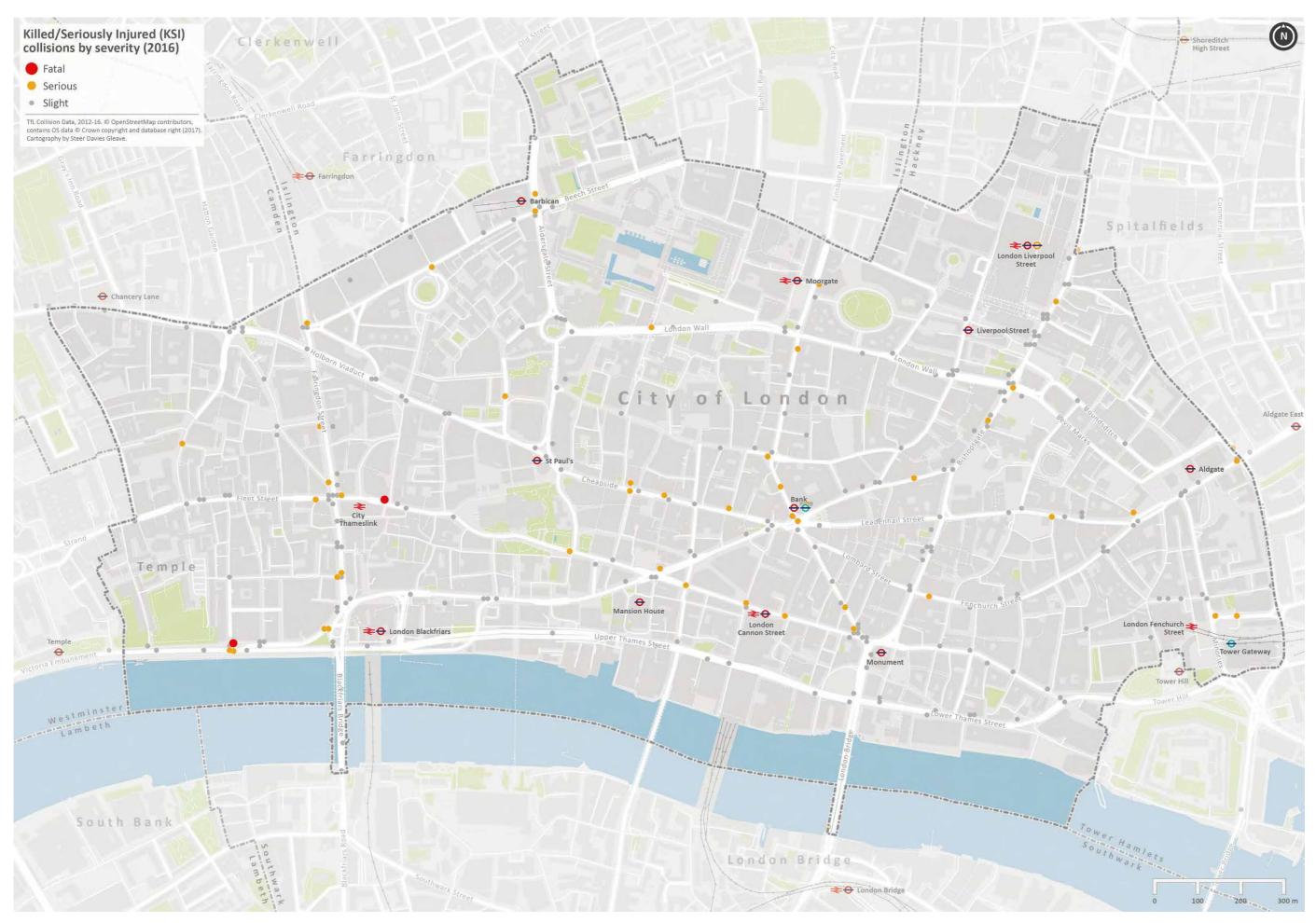






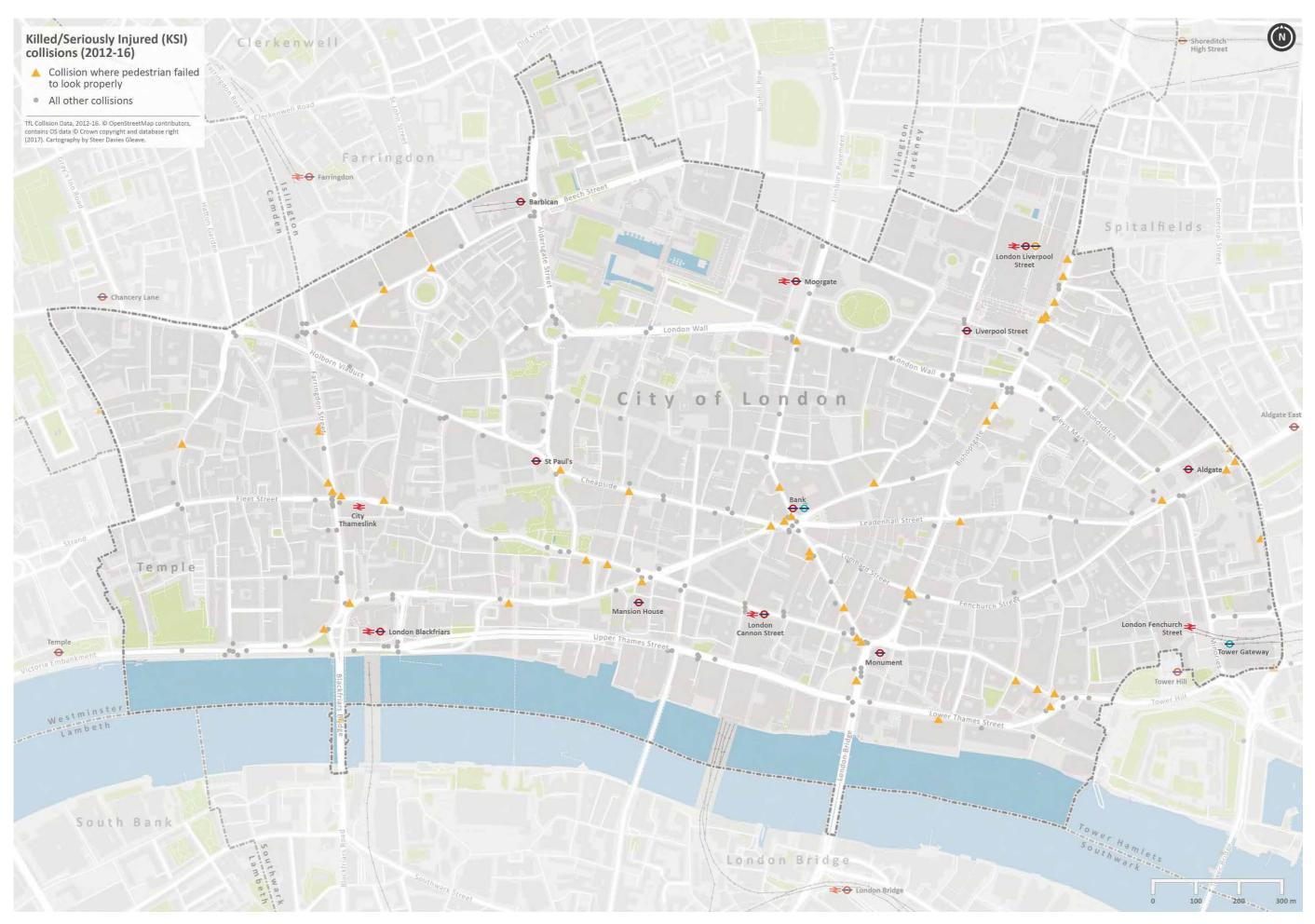








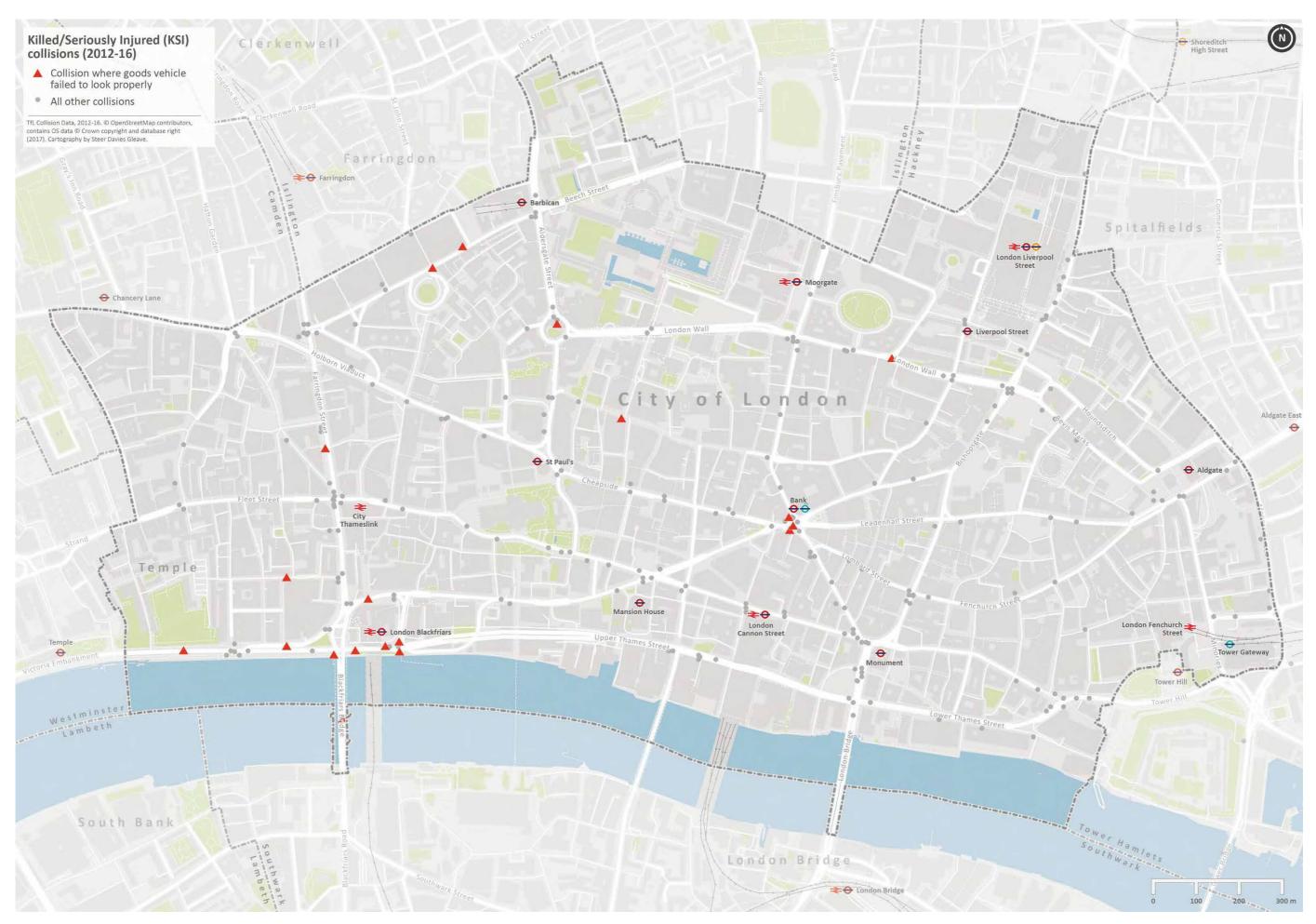
Appendix C Maps of contributing factors



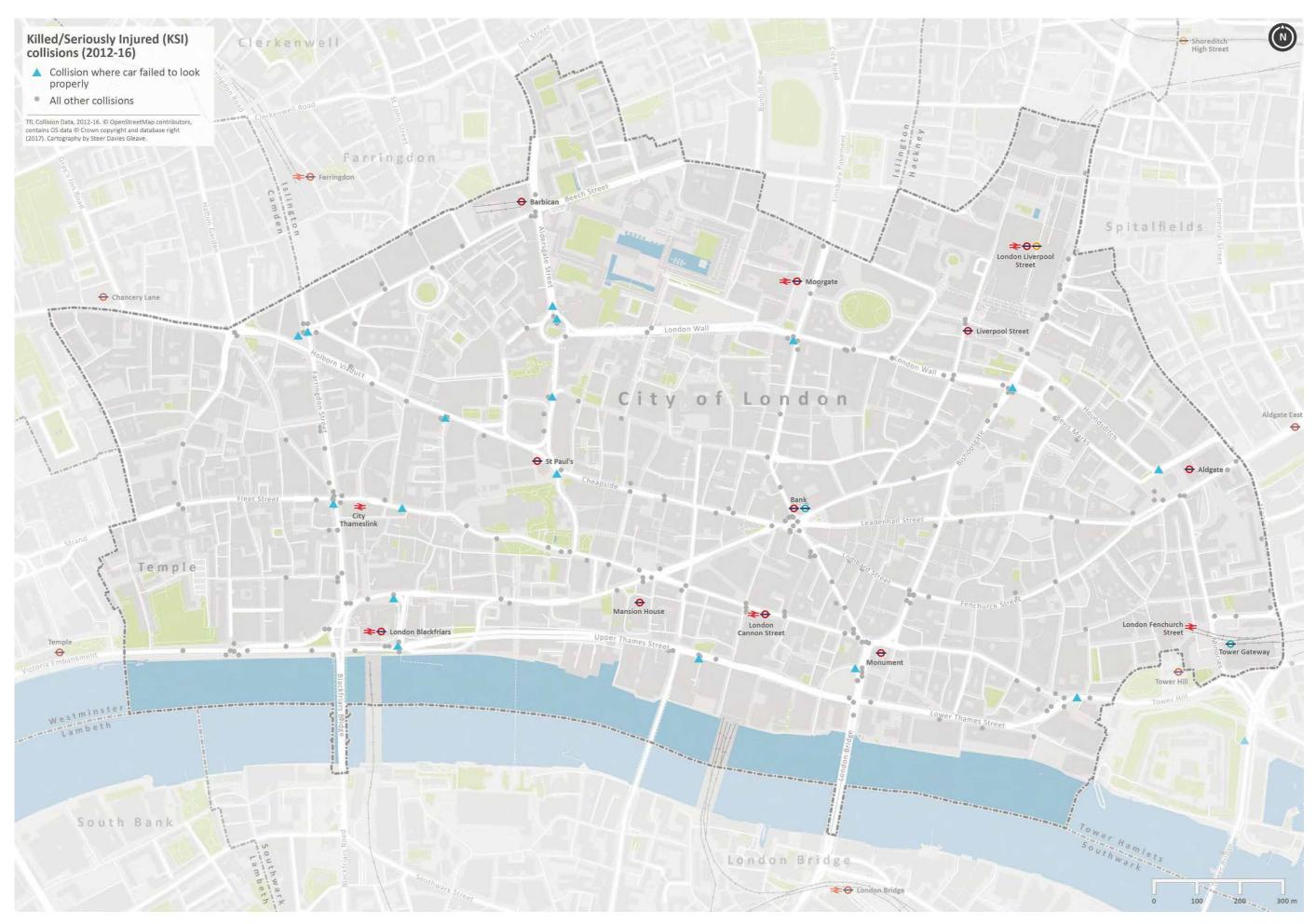




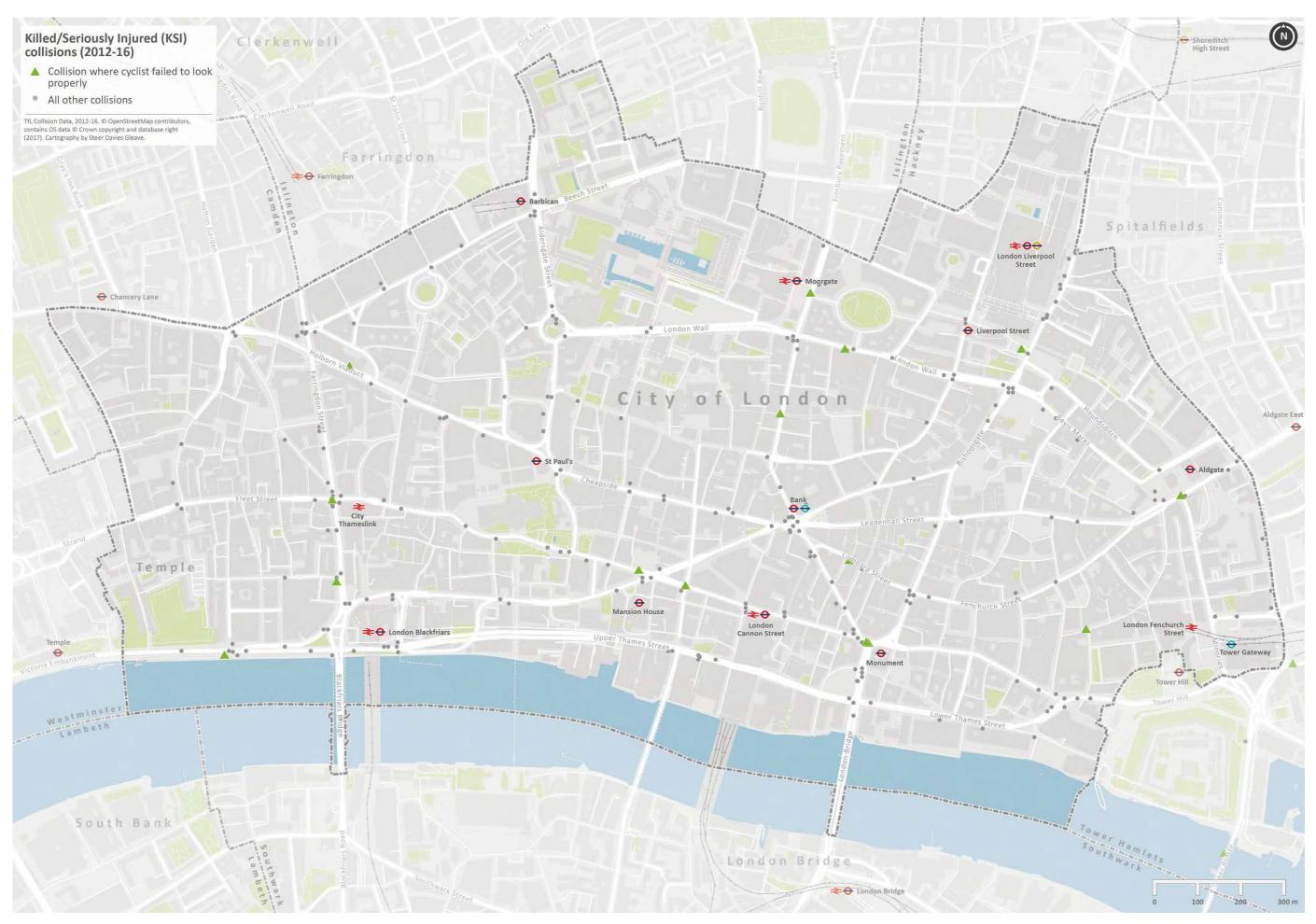




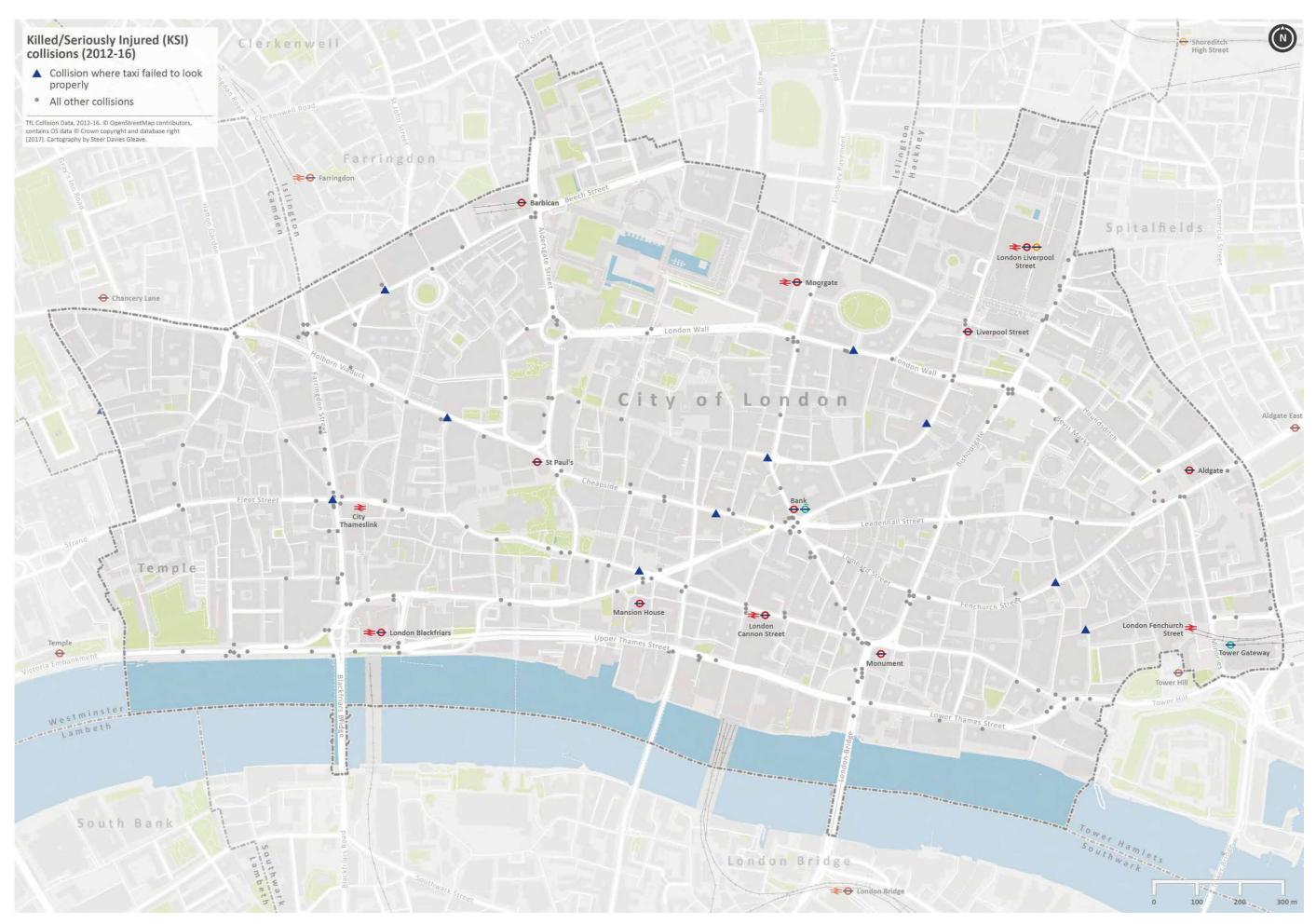




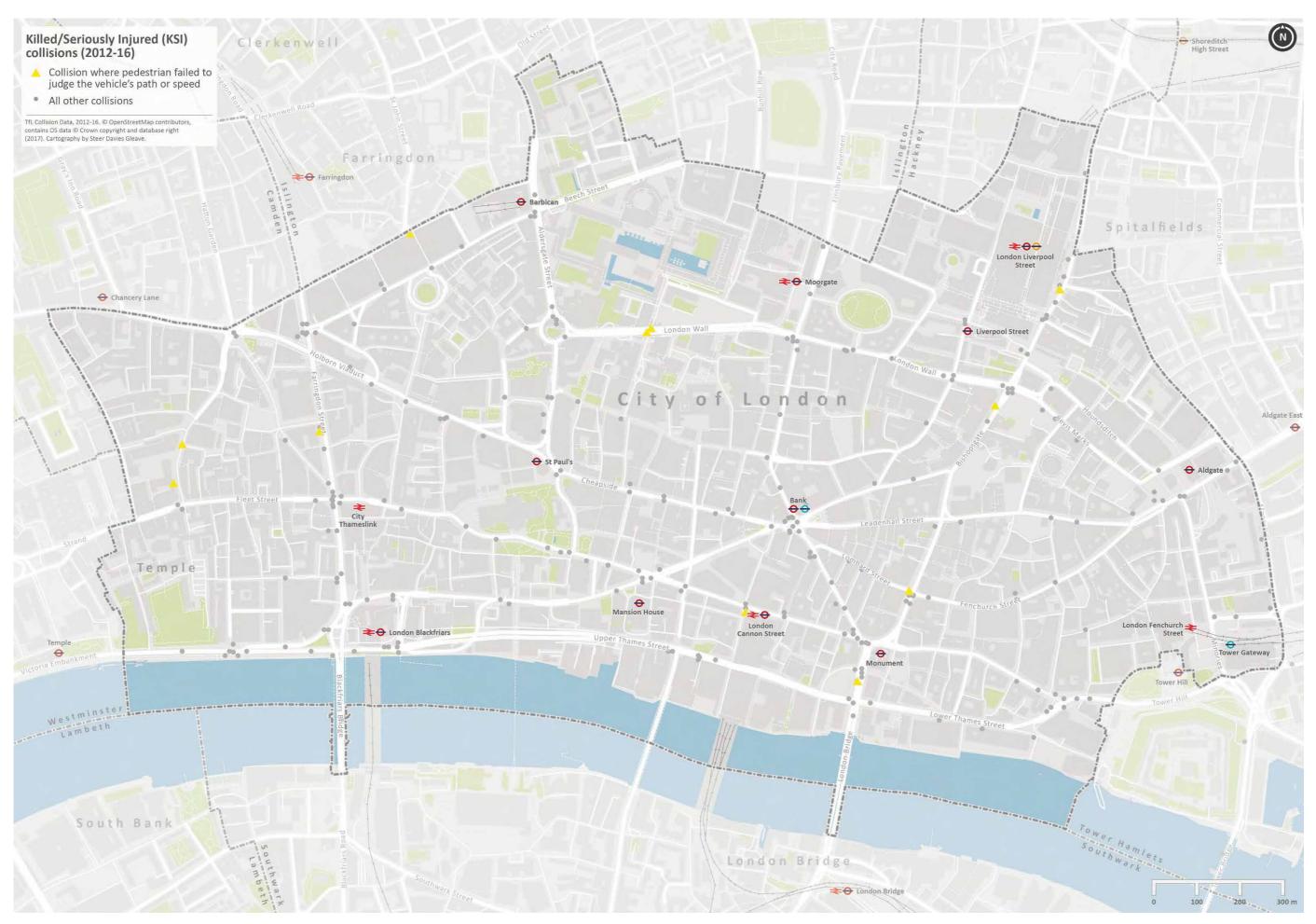




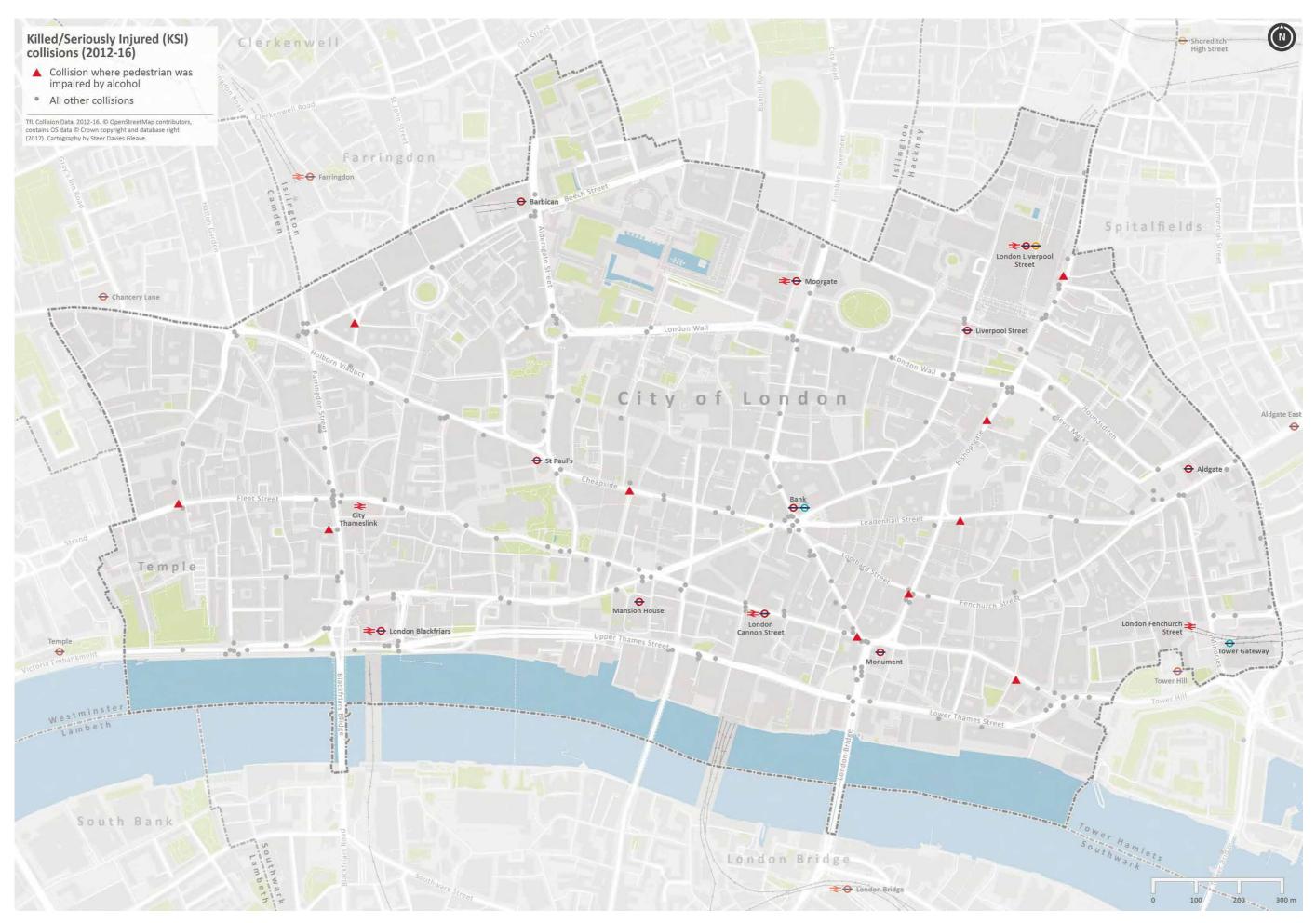




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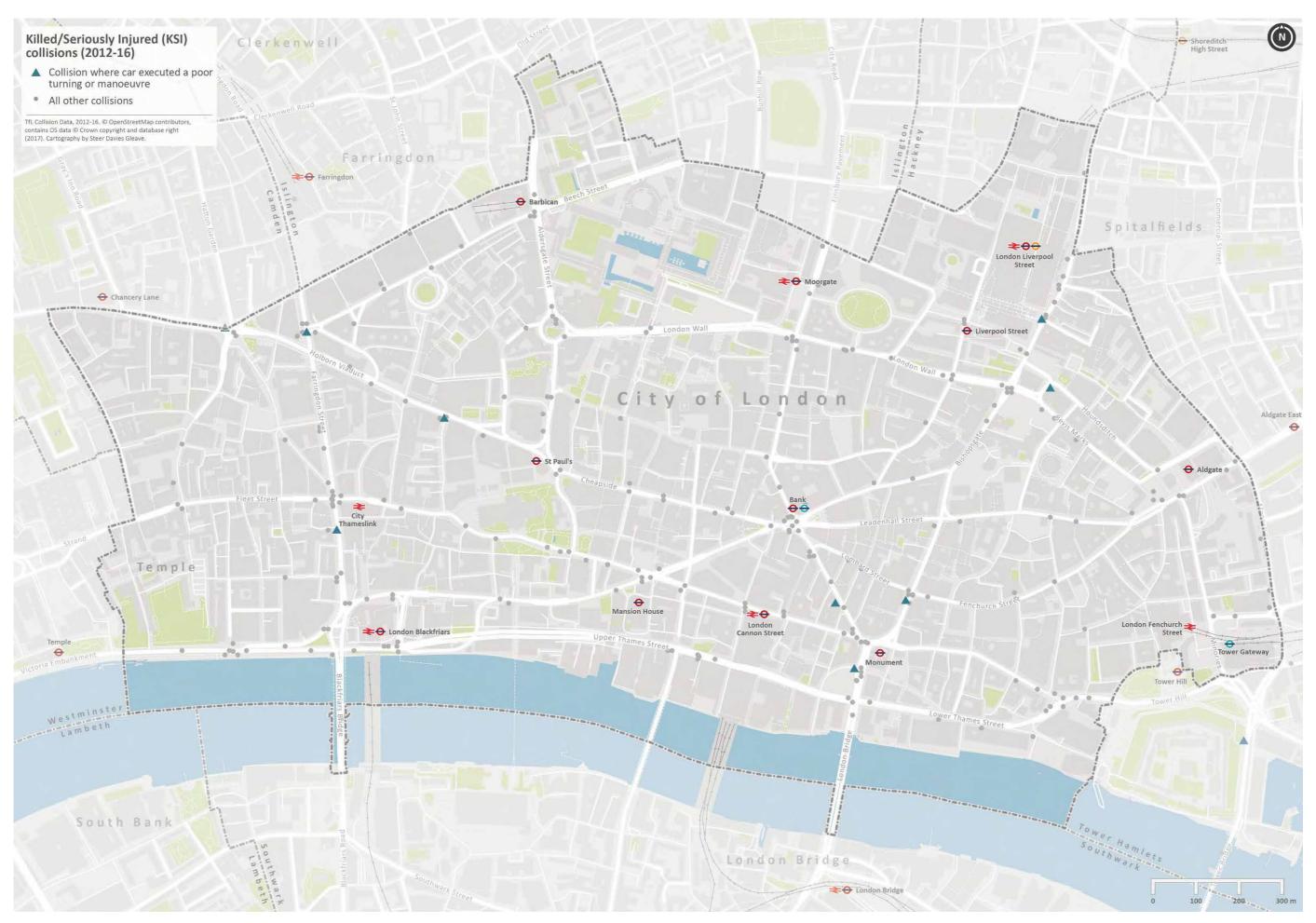
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Prepared by	Prepared for
Steer Davies Gleave	City of London Corpo
28-32 Upper Ground	
London SE1 9PD	
+44 20 7910 5000	
www.steerdaviesgleave.com	
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Author/originator	Reviewer/approver
Matteo Novati	Lee Deacon
Other contributors	Distribution
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