# Pedestrian Movement Space Syntax Analysis

### 1.0 Introduction

- 1.1 Figures are included for both the 2018 and the 2021 schemes and are based exclusively on the data contained in the specialist reports prepared by Space Syntax for each scheme as submitted with respective planning applications. Both are Inquiry Core Documents, references below:
- 1.2 **CDA.23** Pedestrian Forecast and Landscaping Assessment (2018 Scheme)
- 1.3 **CDB.22** Pedestrian Forecast and Landscaping Assessment (2021 Scheme)

## 2.0 2018 Scheme

- 2.1 Space Syntax report CDA.23 includes a summary page on the predicted pedestrian movement around and across the proposed new public realm of the 2018 Scheme for a Future 2031 baseline. As Figure 1 (next page), this indicates that **1,800** pedestrians per hour (pph) in the 'AM peak' are anticipated to use the new London Bridge Station entrance and use the new proposed public realm (figure circled red in Fig. 1).
- 2.2 As Figure 2 (next page), on page 19 of CDA.23, Space Syntax set out the number of building users predicted to arrive at the 2018 Scheme office during the 'AM Peak' excluding bicycles. Of the total **1,460** pph building users, 41% are predicted to use the western entrance to the office closest to the new tube station entrance, or 599 pph (both figures coloured blue on Fig 2).
- 2.3 In Fig. 2 it is also stated that 35% of the total NCC 'AM peak' pedestrians are expected to use the new Tube Station entrance/exit. Whilst the figure is not stated it can be calculated as 35% of 1,460 pph, or **511** pph.
- 2.4 Given that the total users of the new Tube Station entrance are 1,800 pph (as Fig. 1), and that 511 pph are NCC users, this proportion can be expressed as a percentage [28.4%]. That means that the remaining [71.6%] are not users of the building and are using the public realm as part of their wider journey.

## Pedestrian movement 2031 Future baseline with New City Court AM Peak

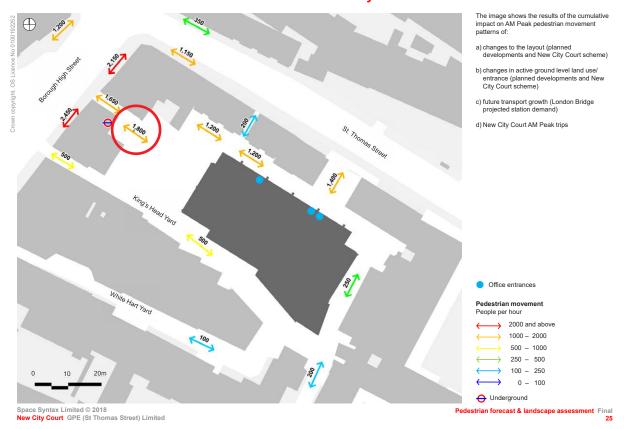


Fig. 1: p.25 (CDA.23) Pedestrian movement 2031 Future baseline with New City Court AM Peak (2018 Scheme)

## Pedestrian demand analysis New City Court office trips distribution The image shows the expected AM peak and all day average demand flow in and out of New City Court (NCC) scheme. The AM peak (08:30-09:30) demand in and out of the NCC is 1,460pph and the all day average pedestrian demand is 1,114pph (excluding bicycle trips). The peak demand is based on TPP's trip generation and mode split data for a 5.6% cycle modal split for the NCC (see Appendix 5). The 5.6% cycle modal split was used instead of the 25% in order to assess a worst case scenario for pedestrian demand. The distribution of movement for each of the office entrances is based on the mode split table provided by TPP (see Appendix 5). The same distribution has been assumed for AM peak and all day average. 458pph 160 people per hour (pph) have been added at the Garden entrance to the tower and 861pph distributed using the same mode split as the King's Head Yard office trips 657pph 1.460pph 1,114pph White Hart Yard NCC AM peak trips (in/out excluding bicycles) NCC All day average trips (in/out) Office entrances Garden entrance Underground Pedestrian movement lines recast & landscape assessment Final Space Syntax Limited © 2018 New City Court GPE (St Thomas Street) Limited

Fig. 2: p.19 (CDA.23) Pedestrian demand analysis New City Court office trips distribution (2018 Scheme)

#### 3.0 2021 Scheme

- 3.1 Space Syntax report CDB.22 includes a summary page on the predicted pedestrian movement around and across the proposed new public realm of the 2021 Scheme for a Future 2031 baseline. As Figure 3 (below), this indicate that **1,950** pedestrians per hour (pph) in the 'AM peak' are anticipated to use the new London Bridge Station entrance and use the new proposed public realm (figure circled red in Fig. 3).
- 3.2 As Figure 4 (next page), on page 15 of CDB.22, Space Syntax set out the number of building users predicted to arrive at the 2021 Scheme office during the 'AM Peak' excluding bicycles. Of the total 1,213 pph building users, 48% are predicted to use the Tube Station entrance, by calculation this is **582** pph.
- 3.3 Given that the total users of the new Tube Station entrance are 1,950 pph (as Fig. 3), and that 582 pph are NCC users, this proportion can be expressed as a percentage (29.9%). That means that the remaining [70.1%] are not users of the building and are using the public realm as part of their wider journey.

## Pedestrian movement 2031 Future baseline with New City Court AM Peak The image shows the results of the cumulative impact on AM Peak pedestrian movement patterns of: a) changes to the layout (planned developments and New City Court scheme) b) changes in active ground level land use/ entrance (planned developments and New City Court scheme) c) future transport growth (London Bridge projected station demand) d) New City Court AM Peak trips Office entrances White Hart Yard 2000 and above 1000 - 2000 500 - 1000 250 - 500 100 - 250 Underground Space Syntax Limited © 2021 New City Court GPE (St Thomas Street) Limited

Fig. 3: p.21 (CBD.22) Pedestrian movement 2031 Future baseline with New City Court AM Peak (2021 Scheme)

## Pedestrian demand analysis New City Court office trips distribution

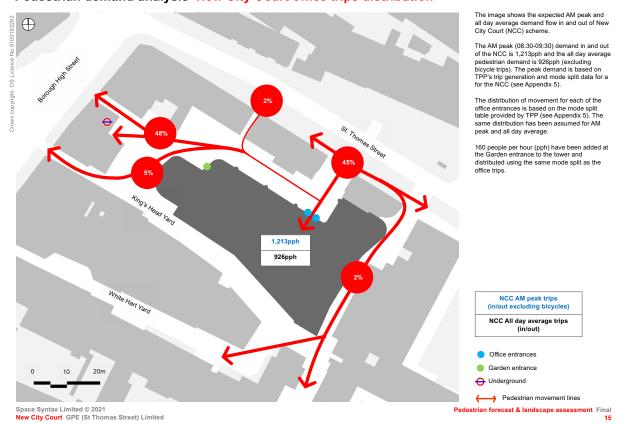


Fig. 4: p.15 (CDB.22) Pedestrian demand analysis New City Court office trips distribution (2021 Scheme)