Bike Life Attributes

This document describes the attributes included in the delivery dataset provided to the NTA.

According to the document, 'S1 Total Length of cycle routes of various types' (Document S1), Section 2: ‘Two-way Infrastructure as Centreline’, the Bike Life project for cycle infrastructure classification uses two attribute fields:

* ClassificationType1
* ClassificationType2

With these attribute fields we can usefully classify:

* Two-way infrastructure represented by a centreline
* One-way infrastructure represented by a centreline
* Infrastructure with more than one Common Data Output (CDO) on one side of the carriageway
* Infrastructure represented by single line objects

As laid out in Section2, Table 1-1 of Document S1, The CDO categories used for cycle infrastructure classification are:

* BusLane
* CycleLane
* SharedUse
* SegregatedCycleLane
* TrafficFree
* SignedRoute

After consultation with the NTA, a further type was introduced:

* SurfaceChange

This category is not part of the CDO as laid out in the Bike Life documentation. It is utilised where a different surface type or surface colour is visibly present within a single track and some ambiguity exists between it being SegregatedCyclelane or SharedUse.

The term ‘Shared Use – Change of surface’ was conceived by the NTA and introduced as a new category of classification, ‘SurfaceChange’.

Further attributes have been added to the base dataset that are not necessary in producing a compliant Bike Life dataset.

Their usefulness is:

* as aids to the process of categorisation
* in the computation of:
  + total length of cycle routes of various types
  + percent of households within 125m of cycle routes of various types

While these attribute fields are not required to be present in the data delivered to the NTA, they are retained in the base dataset which resides in the working Compass Database. It is recommended that for the purposes of futureproofing the Bike Life process, that the link between the two datasets is maintained going forward should further analysis or categorisation work be required on this dataset in the future. Therefore, the structure of the dataset provided to the NTA includes:

* **BIKE LIFE COMPLIANT ATTRIBUTES**:
  + OBJECTID
  + ClassificationType1
  + ClassificationType2
  + Shape Geometry

*These are the minimum attributes required for a Bike Life Compliant dataset.*

* Additional Attributes included in the delivered dataset
  + Datasource
    - 'gda\_base\_cycle\_network'
    - 'jplinks\_metrop'
    - 'nta\_schemes'
    - 'Feature added by Compass'
  + GID
    - Link ID back to Compass database
  + Shape\_Length
    - Autogenerated by ArcGIS Software

**Boolean attributes used for validation and counts**

* + BusLane
  + CycleLane
  + SharedUse
  + SurfaceChange
  + SegregatedCycleLane
  + TrafficFree
  + SignedRoute
  + Oneside
    - For a single carriageway, only infrastructure on one side
  + Twoway\_single
    - For dual carriageways, a line for each direction meaning that there is only one categorisation on each side.
  + Oneplus
    - Where there is only a single carriageway, if there are two types of categorisation on one side of the carriageway.
  + Review
    - If the segment was re-reviewed in Jan 2020 or not.
  + Difference
    - If the segment’s attributes were changed in the Jan 2020 review or not.