# **DfT Road Length Reporting**

# An update on using Local Highway Authority Data to improve the process







# Introduction – current process

- The Department for Transport publishes road length statistics in Great Britain on an annual basis. The data is based on a snapshot of the road network as of April each year.
- R199b consultation held every 4 years
- Growth factors calculated from OS Highways in years without R199b
- Road length statistics are used primarily to feed into statistical calculations and budget allocations





# From Local Authorities to DfT publication



# Vision

# A single authoritative network that replaces the R199b consultation.

- Data taken directly from OS Highways (and then NGD in future years) on annual basis
- Single authoritative data source for road length

Benefits:

- Utilising existing process to reduce burden
- Maintain LAs as the primary source





# What has been achieved to date?





# **Road Classification Review**

	Difference				
Region	Classification Number Different Length (km)	Classification Different Length (km)			
South West	- 1,181	- 984			
East of England	- 1,445	- 914			
South East	- 1,644	- 1,000			
North West	- 1,619	- 1,053			
North East	- 349	- 210			
East Midlands	- 997	- 654			
West Midlands	- 9,173	- 521			
Yorkshire and the Humber	- 776	- 539			
Greater London	- 600	- 375			
Wales	- 781	- 563			
All	- 18,565	- 6,812			





# Data Improvements

- Street Lifecycle
- Streets through buildings







# Changes to DfT methodology

Currently unable to separate C and Publicly Maintainable U roads without R199b

### Phase 1: Prototype

- Analyse LA breakdown of data types (using ASD)
- 2. Process non geometry data
- 3. Process polygon data
- Process points and lines data

### Phase 2: Making it operational

- 1. Finalise methodology
- 2. Combine workbenches
- 3. Dual run production of statistics
- Identify and work with LA with large expected differences

### Phase 3: Business as usual

- 1. Annual delivery
- 2. Adapt to change only updates
- 3. Data validation checks





# Analysis of LA data types







# Changes to DfT methodology

Currently unable to separate C and Publicly Maintainable U roads without R199b

### Phase 1: Prototype

- Analyse LA breakdown of data types (using ASD)
- 2. Process non geometry data
- 3. Process polygon data
- Process points and lines data

### Phase 2: Making it operational

- 1. Finalise methodology
- 2. Combine workbenches
- 3. Dual run production of statistics
- Identify and work with LA with large expected differences

### Phase 3: Business as usual

- 1. Annual delivery
- 2. Adapt to change only updates
- 3. Data validation checks





# **Spatial Analysis**



Department for Transport



# Changes to DfT methodology

Currently unable to separate C and Publicly Maintainable U roads without R199b

### Phase 1: Prototype

- Analyse LA breakdown of data types (using ASD)
- 2. Process non geometry data
- 3. Process polygon data
- Process points and lines data

### Phase 2: Making it operational

- 1. Finalise methodology
- 2. Combine workbenches
- 3. Dual run production of statistics
- Identify and work with LA with large expected differences

### Phase 3: Business as usual

- 1. Annual delivery
- 2. Adapt to change only updates
- 3. Data validation checks





What next?

And how are we helping?





OFFICIAL

# Timeline





# Data Dashboard

 Ordnance Survey has developed a dashboard to monitor and analyse discrepancies between the National Street Gazetteer and OS MasterMap Highways

		C	CLASSIF	ICATIO	N DIFFE	REN	ICES	5			
	AUTHORITY_NA	ME 🖌 F	FORM_OF_WAY	~							
	All		All	RL.	_CLASSIFICATION Co	ount of ROAD_I	_INK_ID	ESU_CLASS	Co	ount of ESI	םו_נ
				AF	Road		13801	A Road		8	555
				BF	load		7052	B Road		L	907
	MAINTENANCE_RESPO		ESU_CLASSIFICATIO	DN 🗡 Cla	ssified Unnumbered		2428	<b>Classified Unnumbe</b>	red	4	311
		F		Mo	torway		257	Motorway			115
	Maintainable At	Public Expense	All	No	t Classified		10123	Not Classified		6	036
				Un	classified		10811	Unclassified		26	416
		~		Un	known		14293	Unknown		8	425
	WHOLE_ROAD	I	RL_CLASSIFICATIO	N Tot	al		58765	Total		58	765
	0	1	All	$\sim$							
AUTH_ CODE	AUTHORITY_NAME	ROAD_LINK_ID	ESU_ID	RL_CLASSIFICATION	ESU_CLASSIFICATION	esu_length (m)	roadlink_l ength (m)	FORM_OF_WAY	Length_ diff	Length_ diff_%	MAINTENANCE
114	Bath and North East Somerset	osgb400000021656779	0114_374264164006	B Road	Classified Unnumbered	164.98	165.01	Single Carriageway	-0.03	-0.02	Maintainable At
114	Bath and North East Somerset	osgb4000000021656780	0114_374398163991	B Road	Classified Unnumbered	107.08	83.54	Single Carriageway	23.54	24.69	Maintainable At
114	Bath and North East Somerset	osgb4000000021656801	0114_373930164418	B Road	Classified Unnumbered	178.73	180.05	Single Carriageway	-1.32	-0.73	Maintainable At
114	Bath and North East Somerset	osgb4000000021656802	0114_373949164568	B Road	Classified Unnumbered	163.39	88.52	Single Carriageway	74.87	59.44	Maintainable At
114	Bath and North East Somerset	osgb4000000021682301	0114_371534159716	Unknown	A Road	54.81	71.13	Layby	-16.32	-25.92	Maintainable At
114	Bath and North East Somerset	osgb4000000021686999	0114_364107169536	Unknown	A Road	63.86	63.86	Traffic Island Link	0.00	0.00	Maintainable At
114	Bath and North East Somerset	osgb4000000021687000	0114_363858169762	Unknown	A Road	77.22	77.22	Single Carriageway	0.00	0.00	Maintainable At
114	Bath and North East Somerset	osgb4000000021696733	0114_374165164112	B Road	Classified Unnumbered	198.18	88.61	Single Carriageway	109.58	76.42	Maintainable At
114	Bath and North East Somerset	osgb4000000021696734	0114_374043164288	B Road	Classified Unnumbered	54.34	54.34	Single Carriageway	0.00	0.00	Maintainable At
114	Bath and North East Somerset	osgb4000000021696735	0114_374038164314	B Road	Classified Unnumbered	76.04	39.81	Single Carriageway	36.23	62.55	Maintainable At
114	Bath and North East Somerset	osgb4000000021696946	0114_372852166424	Classified Unnumbered	Unclassified	7.21	106.19	Single Carriageway	-98.98	-174.56	Maintainable At
114	Rath and North Fact	ocab/00000001696966	011/ 372858144/28	Classified	Unclassified	5.00	104 19	Single Corrigneway	_101 19	-182.01	Maintainable At

There are duplicate roadlink\_ids and esu\_ids as there is a many to many relationship between them. eg. one roadlink could link to two esus.





# OS & GeoPlace Streets Market Review

• We reviewed the following areas







# **OS & GeoPlace Classification Differences**







# **GeoPlace Specification Review**

# SPECIFICATIO





# **Reclassification Process Review**

ROADS CLASSIFICATION & PRN CHANGE FORM	· · · · · · · · · · · · · · · · · · ·	Version 03/12
	[update form to generate description, or type ir	n own version]
Organisation making change Date Effective from Declaration number (Auto) Type of change	Contact Position Email Phone On behalf of Position	
Does this change affect: Road classification? The PRN? Is this a new or existing road? Is this a provisional allocation	CLASSIFICATION Previous classification Type Name/No.	PRN Overall Route From To
LOCAL AUTHORITIES CONSULTED         Authorities are expected to secure agreement from:         • All authorities along a primary route (i.e. between two primary destinations) when making a significant change to that route;         • The neighbouring authority when reclassifying a road across an LA boundary.         Authorities are expected to notify neighbours when:         • Changing the classification of a road which carries significant traffic from a neighbouring authority.         Has this consultation taken place?         Authority         Status	New Classification         Type         Name/No.         Length       miles         Coordinates (DS full six-figure grid reference)         Start       Finish         ×       y         Does this road require a completely new number?       miles?         Have you approved the new completely DECEMENT       miles?	Roads       on route       Specific Change       Roads       affected       Length     miles       Coordinates (DS full six-figure grid reference)       Start     Finish       y     y
	Additional Information (recommended) OS TOID OS TOID OS TIN TOID NSG USRN	Please provide a verbal description of the previous route and the new route in the 'description' box Additional Information (recommended) OS TOID OS ITN TOID NSG USRN
HECOHUS All changes must be recorded on the National Street Gazeteer When is the NSG updated? Is there a map file associated with this form? Keep a copy of this form for your records	BENEMAL DESCHIPTION Nearby town Description Please describe the route and changes	



- Review current process
- Desire to move to a web-based approach
- Checking statutory requirements



# Conclusion

- DfT are committed changing their methodology going forward
- Ensure your Local Street Gazetteer correctly reflects the road classifications and is updated accordingly
- Street custodians are vital to this process



