# Bridging the gap: LPAs working together to protect barbastelle bats at a landscape-scale











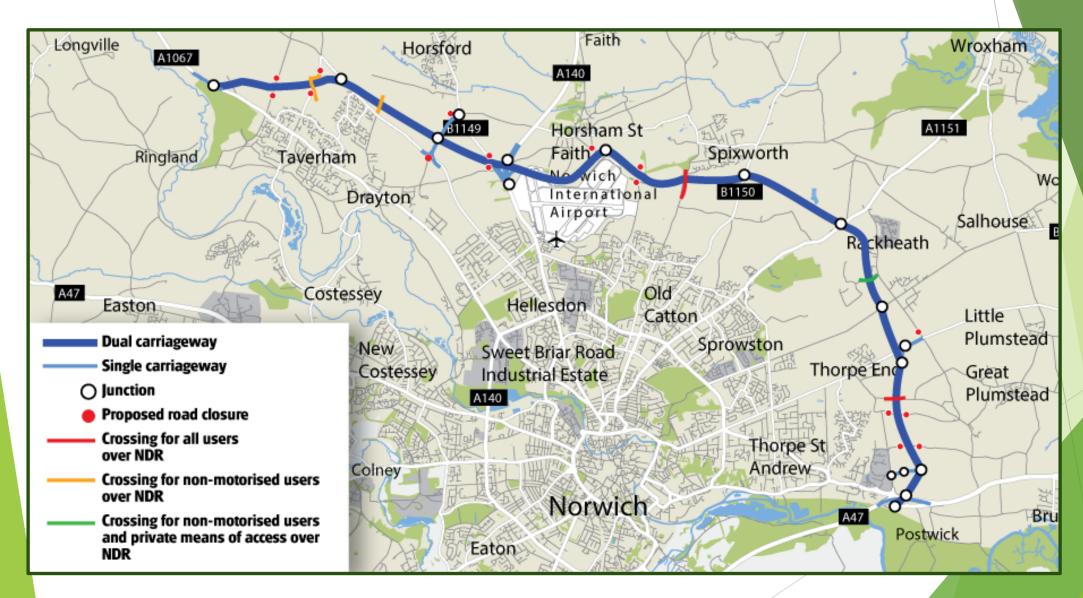






## Two projects:

#### 1. The Norwich Northern Distributor Road



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## Northern Distributor Road (NDR)

#### Your NDR questions answered

Route map

Why we're building the NDR

How we're funding the NDR

More about Your NDR questions answered

#### **Public exhibitions**

Taking place throughout Norfolk during March

More about Public exhibitions

#### Planning and approval process

Development Consent Order

Library

More about Planning and approval process

#### Transport Matters newsletter

Monthly progress updates and next steps

More about Transport Matters newsletter

#### Construction programme

Postwick junction

Plumstead Road to Postwick

Wroxham Road (A1151) to Salhouse Road

More about Construction programme

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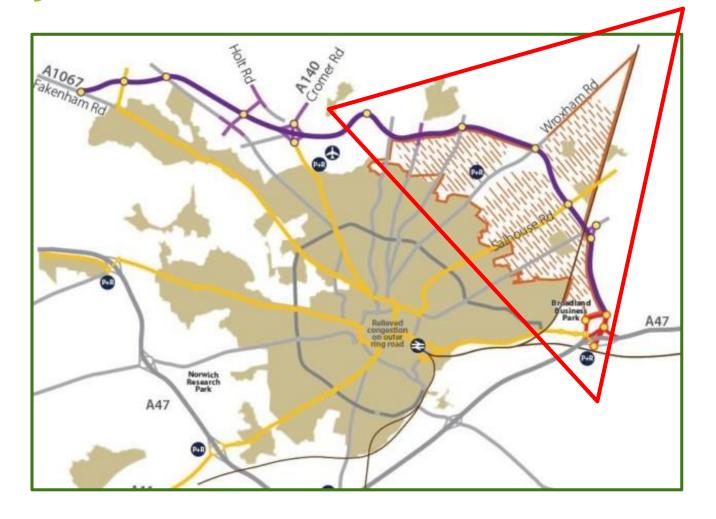
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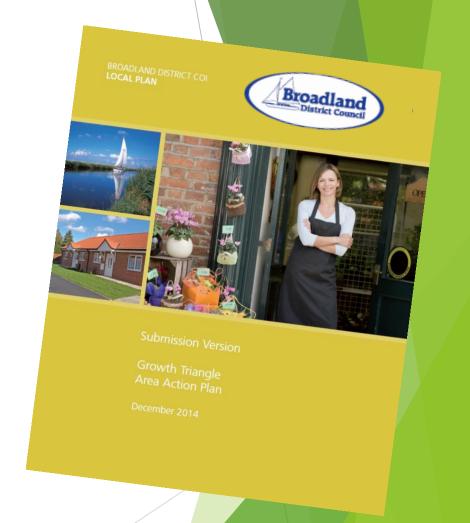






Project 2: The NE Norwich Growth Triangle





The NE Norwich 'Growth Triangle' Area Action Plan: Guiding development for up to 13,500 new homes

Adopted July 2016

Two different projects, two different planning processes, two different authorities...

## **NDR**

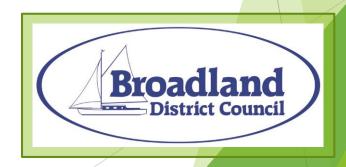
Nationally Significant Infrastructure Project Development Consent Order

# Growth Triangle AAP

Local Plan examination

Development Management process





## Part 1:

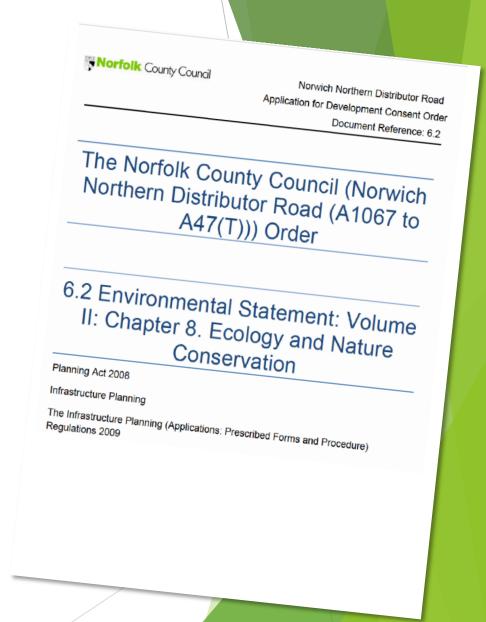
## NORWICH NORTHERN DISTRIBUTOR ROAD



# Purpose of Bat survey work

As part of the ecological work, bat surveys were undertaken (2006-16) by Mott MacDonald, To identify

- How bats are using the landscape through which the new road passes,
- Roosts that will be directly impacted by construction,
- Feeding areas directly impacted,
- Most important 'commuting' routes that will be severed by the road.
- Appropriate mitigation



# **Bat Surveys**

#### Survey methodologies used:

- Hibernation surveys all structures within 2km of scheme,
- Building assessments all buildings within 100m,
- Tree climbing inspections of all trees within 25m
- Emergence/re-entry surveys (buildings and trees),
- Transect surveys,
- Unmanned static monitoring,
- Radio tracking surveys (surveys in June 2009, August 2009, August 2012, May 2013, August 2015)



## No of roosts located

(specifically as a result of this work)

<ul> <li>Barbastelle</li> </ul>		54
<ul> <li>Brown long-eared</li> </ul>		29
<ul><li>Pips</li></ul>	Common	7
	Soprano	4
	Nathusius	1
	Un-id Pip	23
<ul> <li>Natterer's</li> </ul>		5
<ul> <li>Daubenton's</li> </ul>		4
<ul> <li>Noctule</li> </ul>		3
<ul> <li>Serotine</li> </ul>		2
<ul> <li>Myotis sp.</li> </ul>		1



Photo credit: Lotty Packman

Total: 133

# Roosts impacted

- 5 tree roosts
  - Common Pip (2)
  - Soprano Pip (1)
  - Brown Long-eared (1)
  - Natterer's (1)
- 2 Building roosts
  - BLE and Common Pip

# Compensation

- 56 tree-mounted boxes
- 2 bat 'hotels'



# Barbastelle roosts (1)

#### 54 separate roosts:

- of which at least 14 were maternity roosts
- Most were under flaking/loose bark
- Majority of roosts were 8-10m agl

#### Of the maternity roosts:

- Roosts were clustered
- Most were in oaks
- Largest maternity roost min. 59 individuals

#### Trees were located:

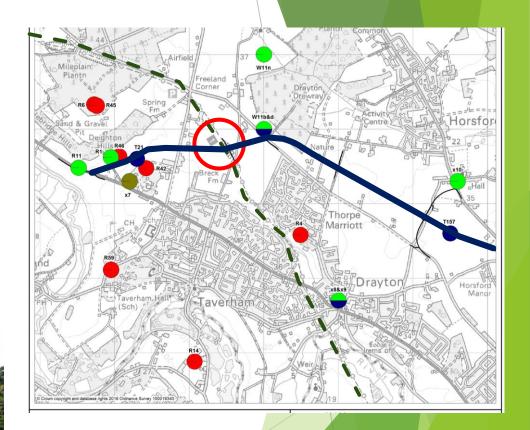
- 1 in an open paddock
- 10 within "parkland" (max c45m into wood)
- 1 in treelines (of veterans)



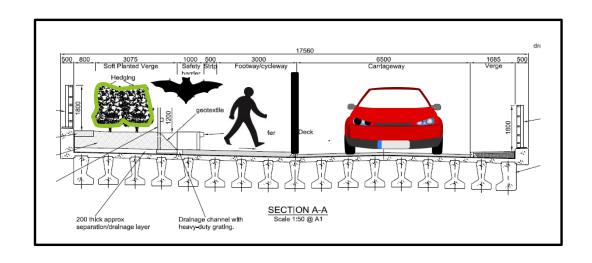


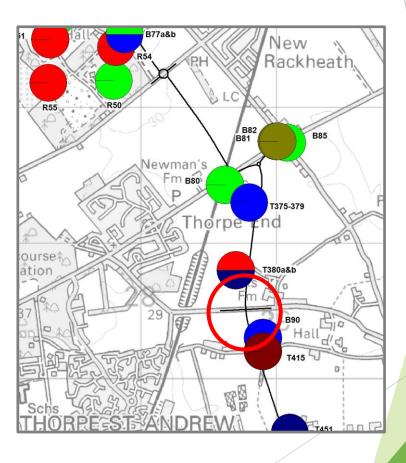
# Main "crossing point" No. 1 The Marriott's Way: Green Bridge



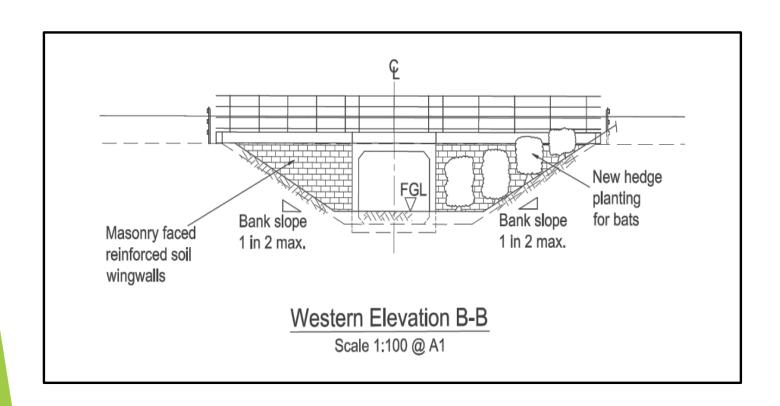


# Main "crossing point" No. 2 Middle Road Overbridge: Half-green bridge



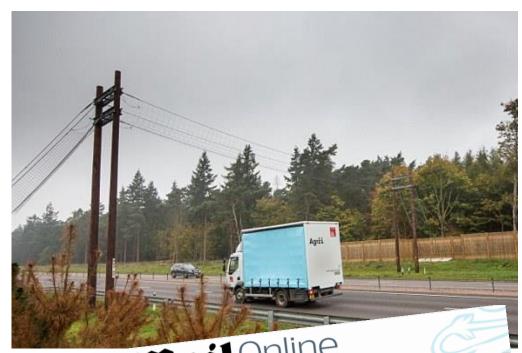


# Main "crossing point" No. 3 Rackheath culvert





# The next 7 most significant crossing points Bat gantries



Mailonline TV&Showbiz | Australia | Femail | Health | Science | Money

That's just bats: £2million spent on bridges for threatened species despite proof they almost never use them



Photo credit: ITV Anglia

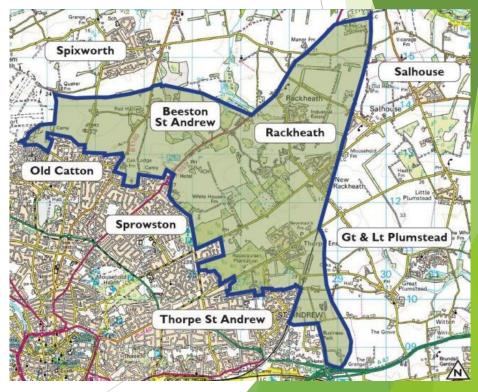
New £350,000 bat bridges installed over A11 not working, study reveals

○ 13:56 23 October 2015 Andrew Fitchett

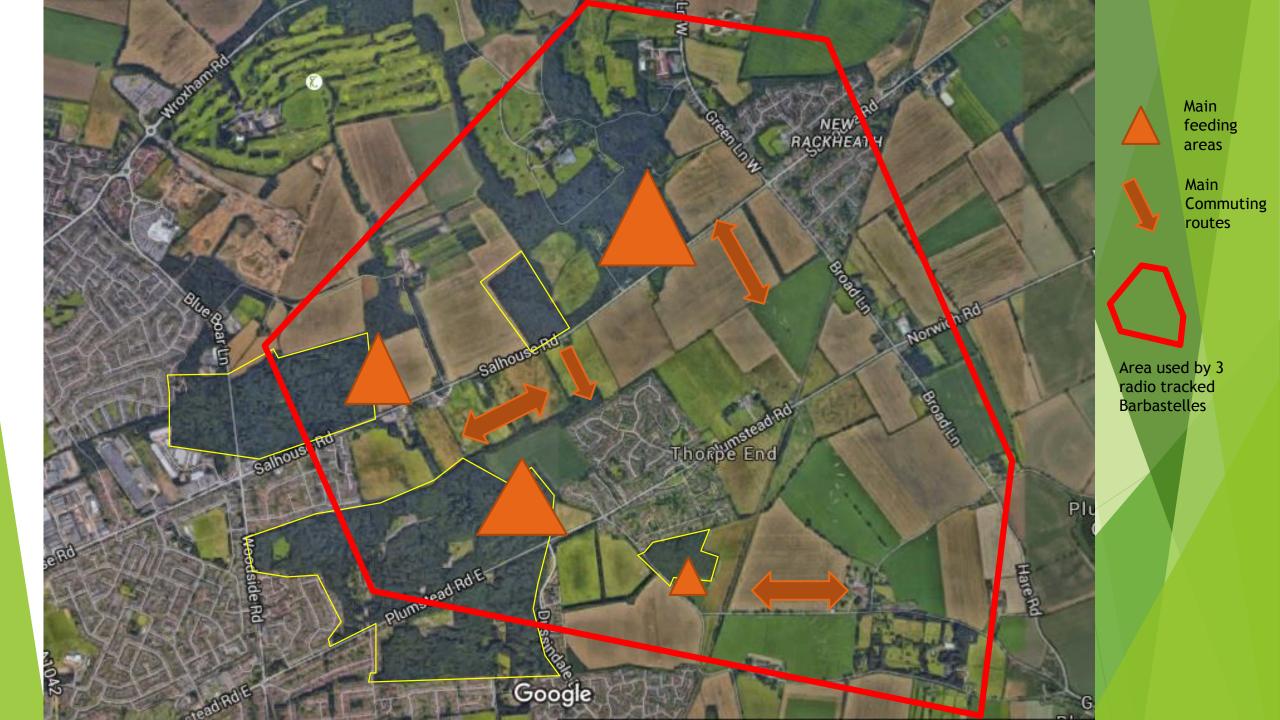
# Part 2: The NE Norwich Growth Triangle

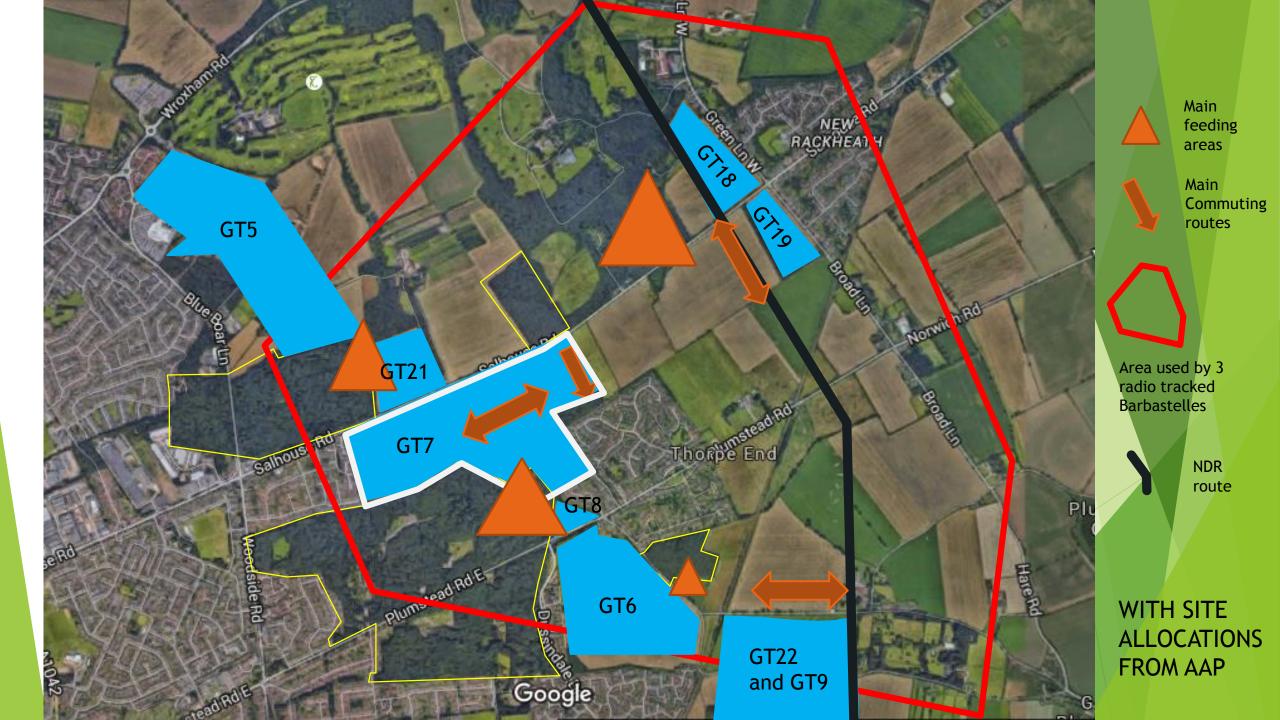
Using the bat data generated by the NDR to inform the Area Action Plan for the North-East Norwich Growth Triangle

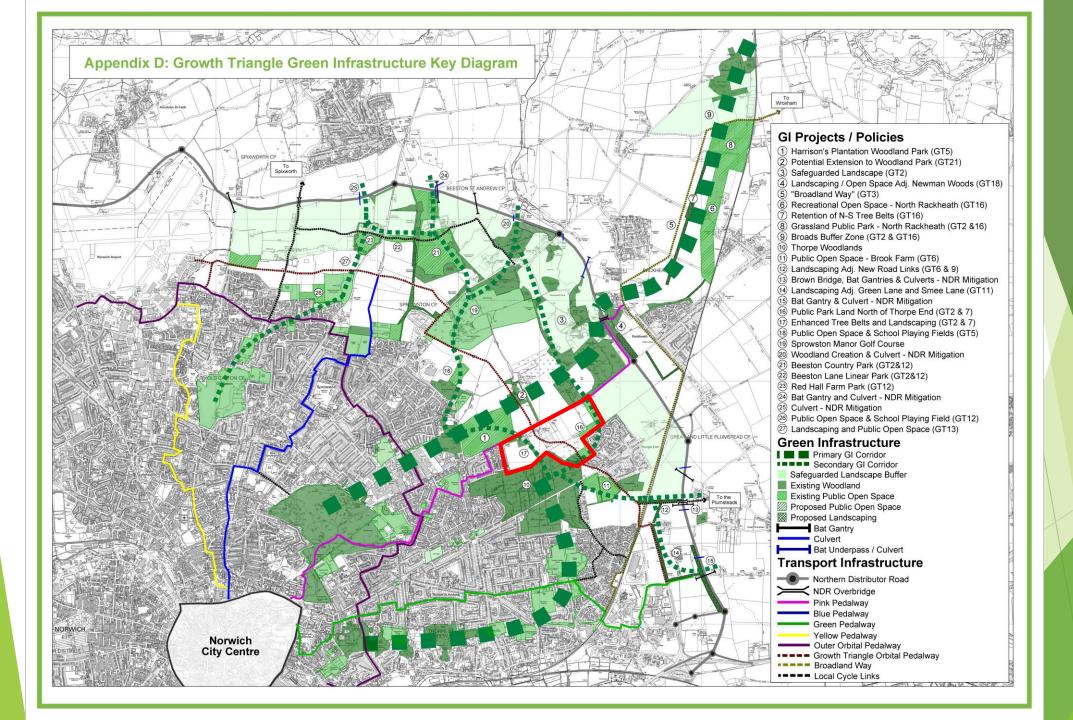




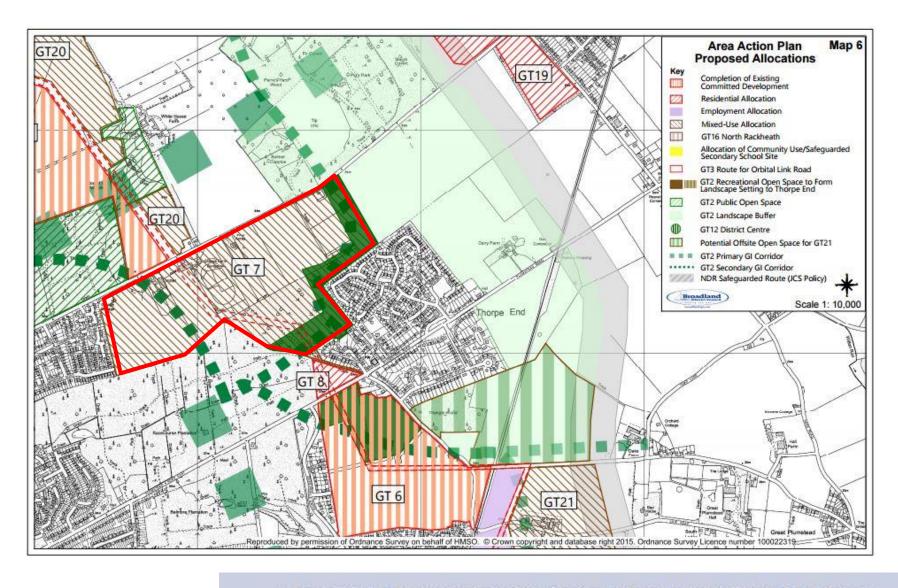






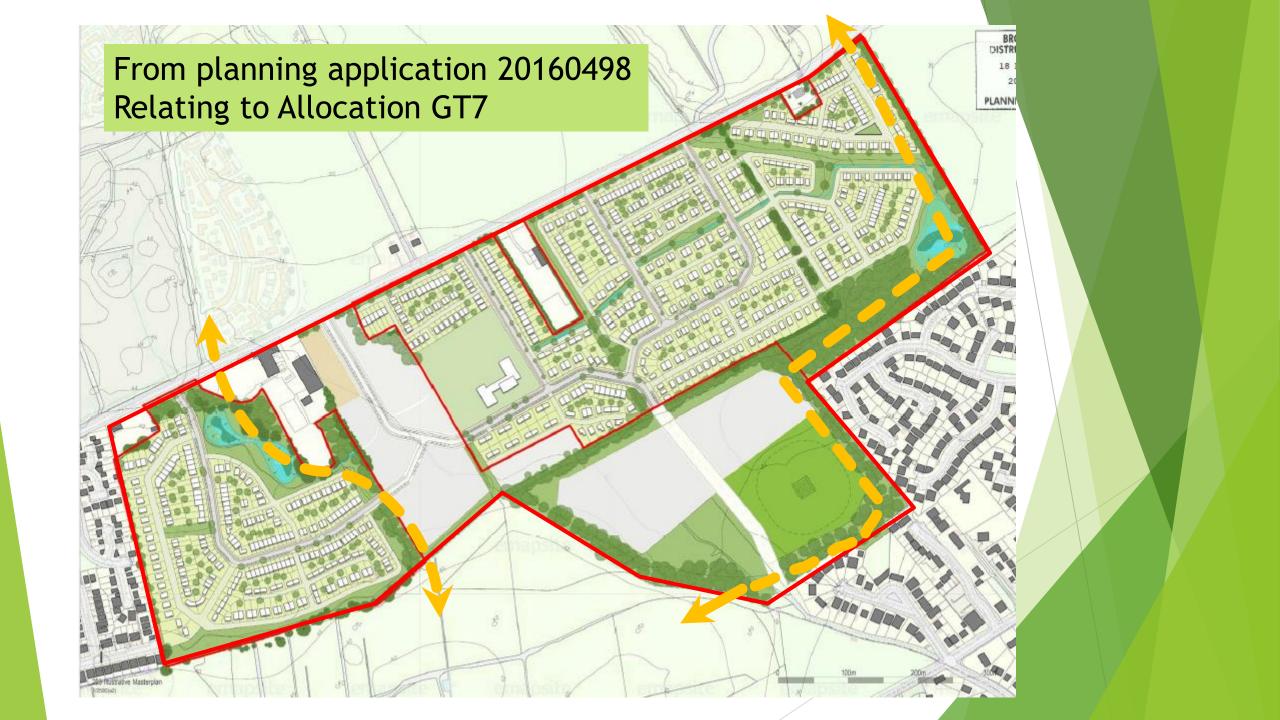


# GI STRATEGY from AAP



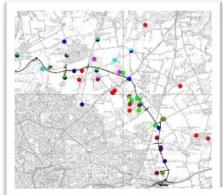
From AAP Policy GT 7:

> THE DELIVERY OF THE GREEN INFRASTRUCTURE LINKS IN ACCORDANCE WITH POLICY GT2, WHICH SHOULD INCLUDE LINKS BETWEEN THORPE WOODLANDS, HARRISONS PLANTATION AND RACKHEATH PARK.

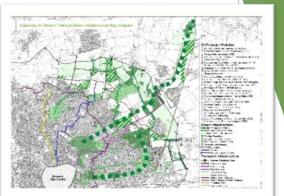


## What can we conclude?





**Bat Roost** commuting data





OUTCOME: Delivering 13,500 homes and a distributor road....

**Determining Planning** application

**Strategy** 

GI

Linking NDR mitigation (NCC) with housing (BDC)

.... whilst ensuring the viability of population of Barbastelles



**Policies** for allocations



**Growth Triangle Area Action Plan**