Building Norfolk on Better Data: Bats, bypasses and buildings









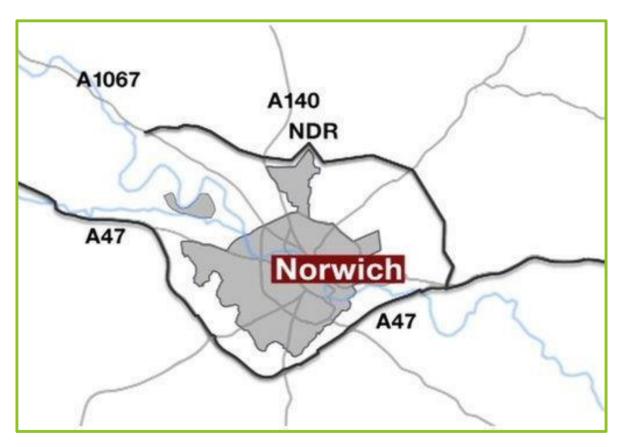
Dr David White Natural Environment Team

June 2018





The Norwich Northern Distributor Road

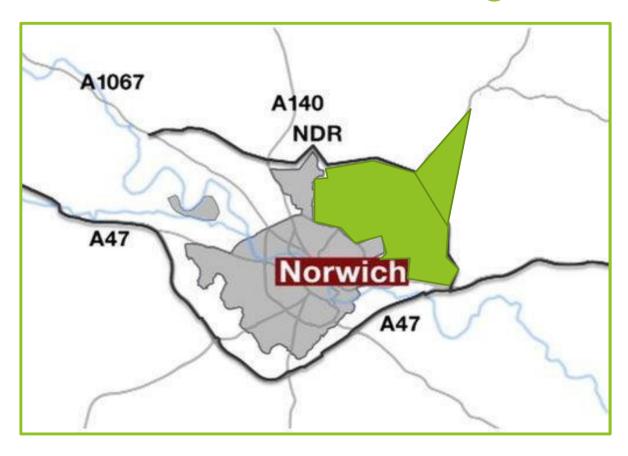


26km dual carriageway





...and the "Growth Triangle"



13,500 new homes



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

Project	Process	Promoting authority	Delivery
Northern Distributor Road	Nationally Significant Infrastructure Project	Norfolk County Council	Development Consent Order
Growth Triangle AAP	Local Plan examination	Broadland District Council	Development Management process

Biodiversity data: Bats

- To identify main concentrations of usage for roosting and foraging, particularly by Barbastelle Bats
- To identify the locations where commuting routes cross the line of the road and to identify and deliver effective mitigation for impacts from the ROAD
- To locate the housing allocations in the least harmful places and to identify and deliver effective mitigation from the NEW HOUSING



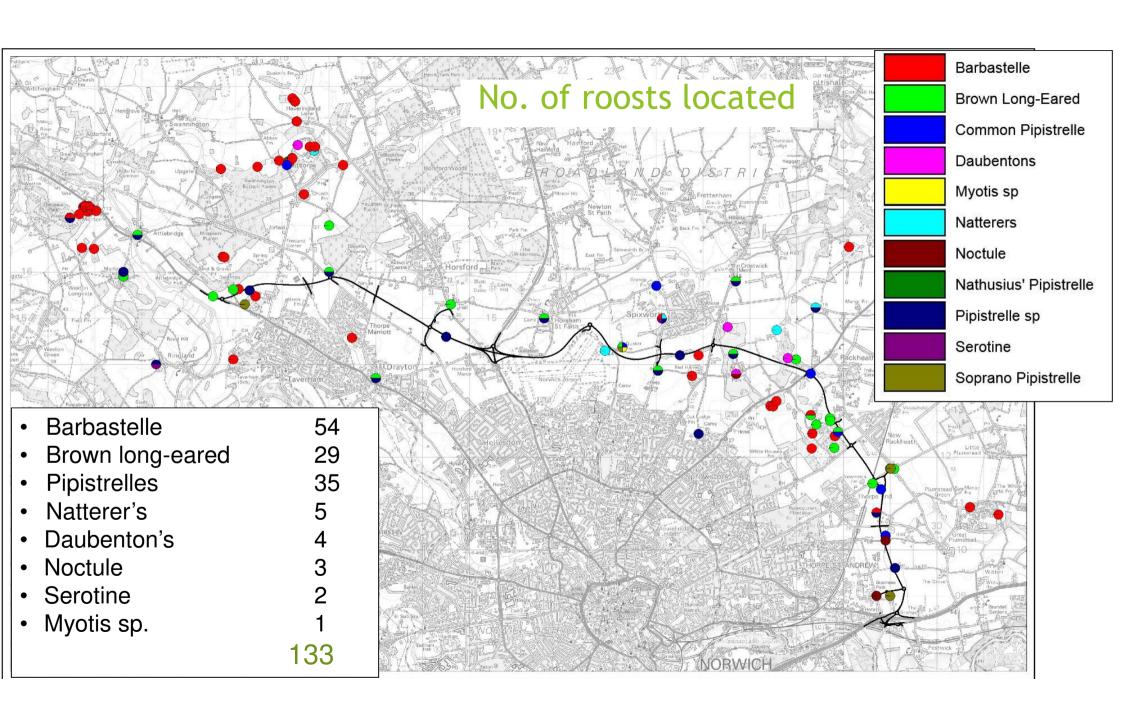


Photo credits: Malcom Fraser (NBSG) and Lotty Packman (NBSG)

Biodiversity data: Bat Surveys

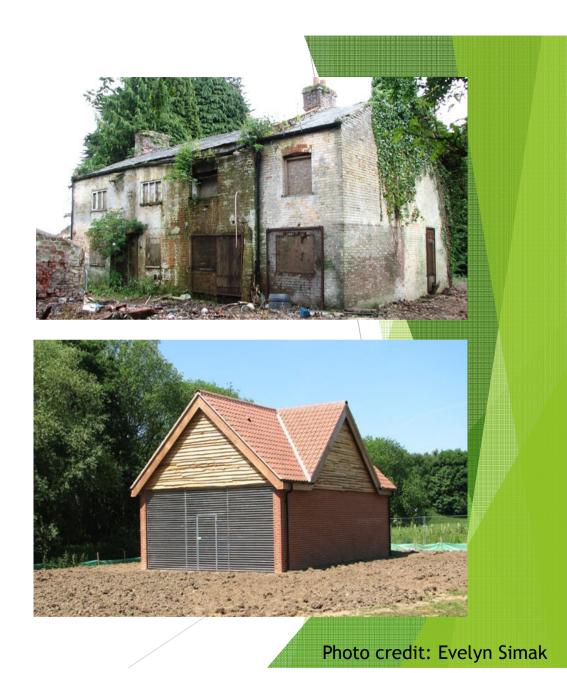
Survey methodologies		
Hibernation surveys	all structures within 2km of the new road	
Building assessments	all buildings within 100m	
Tree climbing inspections	all trees within 25m	
Emergence/re-entry surveys	all building and trees with bat potential	
Walked transect surveys	over a 10 years period	
Unmanned static monitoring	over a 10 year period	
Radio tracking surveys	Jun 09, Aug 09, Aug12, May 13, Aug 15	





Impacts from the Northern Distributor Road

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



Impacts from the NDR on Bat Commuting Routes Green Bridges, Bat Gantries and Culverts











Impacts on bats from Housing

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

The 'Mitigation Hierarchy'

AVOID

MITIGATE

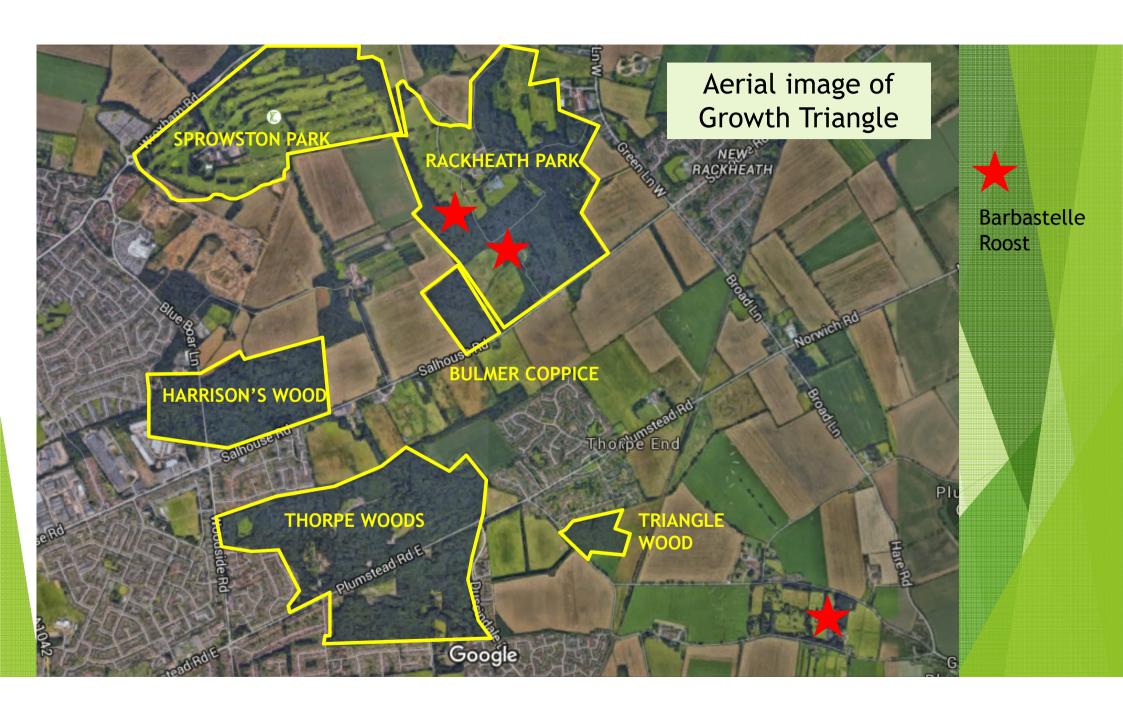
COMPENSATION

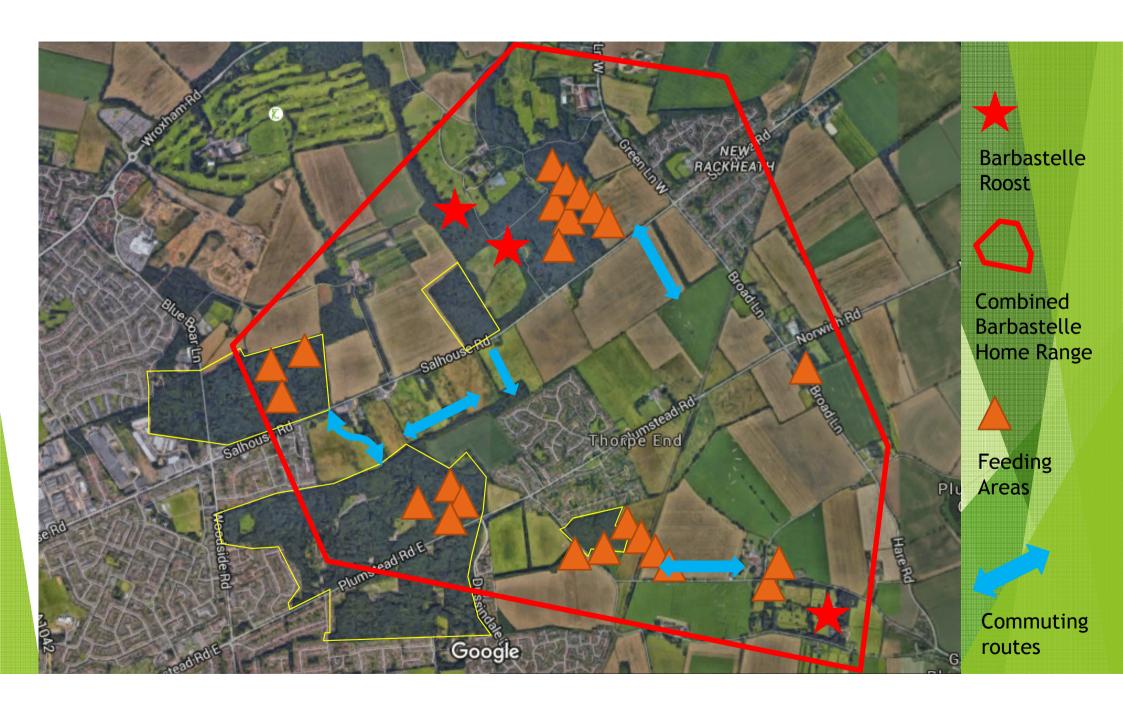
Evidence-based approach

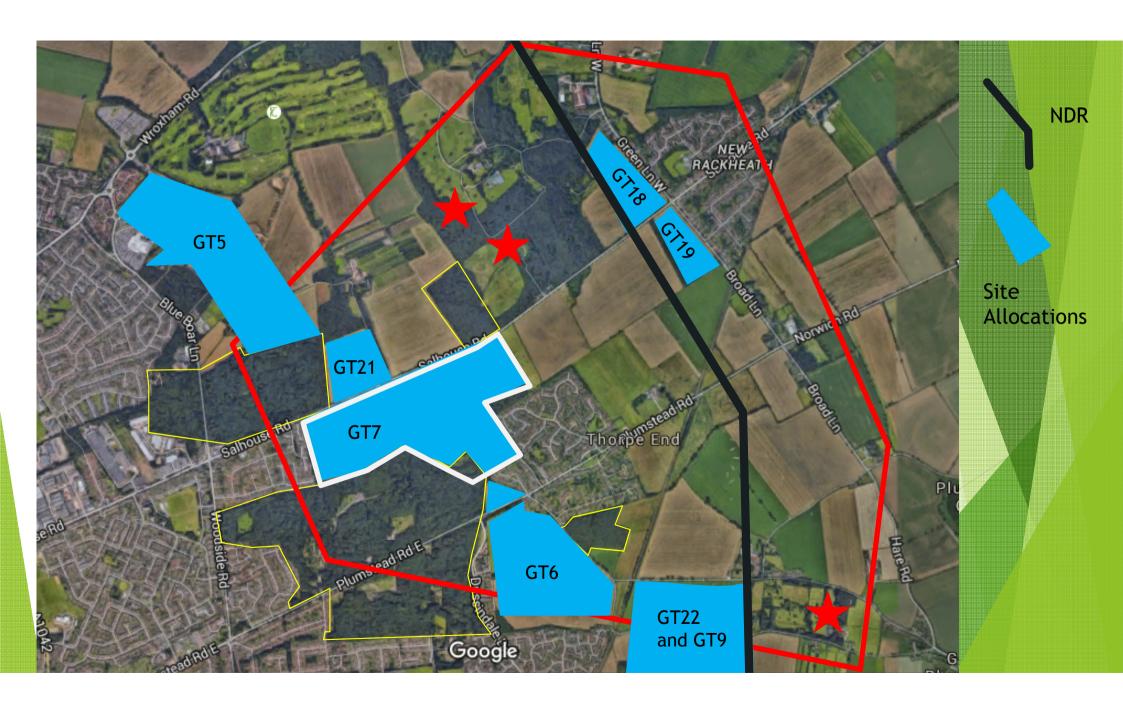
DATA

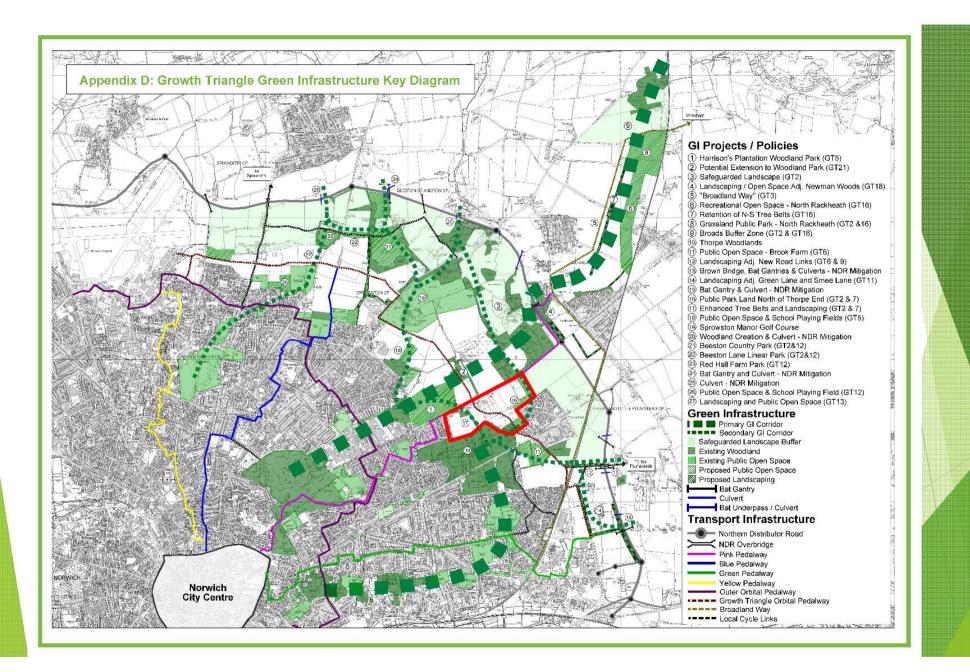
STRATEGY

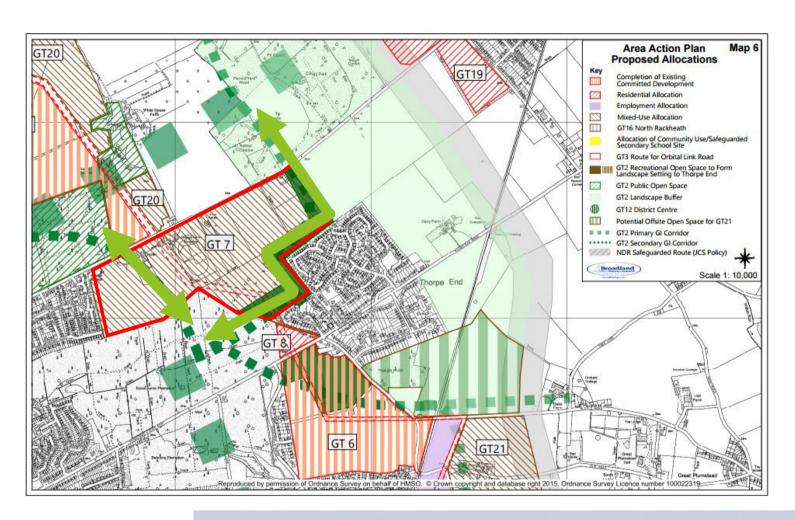
POLICIES











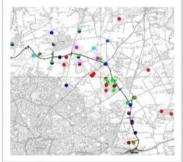
From AAP Policy GT 7:

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



The importance of biodiversity data





Bat Roost, feeding & commuting DATA



OUTCOME:

Delivering 13,500 homes and a 26km distributor road....

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

DETERMINING
Planning
application



POLICIES for allocations

GI STRATEGY

