

# Joint Core Strategy for Broadland, Norwich and South Norfolk: the Broadland part of the Norwich Policy Area

## Schedule of Adopted Content, January 2014

The schedule below details the content resolved to be adopted for the Broadland part of the Norwich Policy Area Local Plan. This includes both the content submitted by the Councils, minor modifications for accuracy, and the Main Modifications required by the Inspector to make the plan sound. The Inspector’s Main Modifications are referenced in the table below and set out in detail in Appendix 1 attached.

The page numbers and paragraph numbering below refer to the combined submission Plan with the Joint Core Strategy for Broadland, Norwich and South Norfolk [SDJCS 1], and do not take account of the deletion or addition of text. The adopted content is shown as underlined text.

<b>Section of Joint Core Strategy</b>	<b>JCS page no.</b>	<b>Adopted Text/diagram (underlined)</b> [N.B. the words in square brackets are included for clarification purposes only]
01 Our Strategy – Para 2.14 under heading “The dilemmas”	P.10	[In assessing the evidence to help identify the most appropriate locations for growth outside of the urban area,] <u>the area to the north east of the city</u> [and the A11 corridor to the south west perform well. This allows] <u>for a concentration of new</u> [development to maximise the use of existing infrastructure...]
01 Our Strategy – Para 2.15 under heading “the dilemmas”	P.10	<u>In the case of Broadland, the historical pattern of development lends itself to further expansion with new growth locations in the parishes of Old Catton, Sprowston and Thorpe St Andrew, and the development of a low carbon community focussing on Rackheath, given its existing employment opportunities and railway line. The growth in these locations relies on the implementation of NATS.</u> [Implementation of NATS....]
01 Our Strategy – Para 2.16 under heading “the dilemmas”	P.10	<u>By contrast,</u> [the historic pattern of development in South Norfolk has focussed on its network of villages and market towns, such as Long Stratton and Wymondham, and has retained strategic green gaps between settlements.]
04 Spatial vision: third paragraph	Page 20	[Growth will be focussed on brownfield land in the Norwich urban area] <u>and in a very large mixed use urban extension within the Old Catton, Sprowston, Rackheath and Thorpe St Andrew growth triangle (Appendix 5).</u>
04 Spatial vision:	Page	<u>inspired by the proposed exemplar at Rackheath,</u> [zero

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under the heading “Climate change and sustainability” 3 <sup>rd</sup> bullet point	20	carbon development will be the standard to be achieved through advances and innovation in the design, construction and management of sustainable communities and new buildings which improve energy efficiency and use renewable energy.]
04 Spatial vision: under the heading “Working and getting around” Second bullet point	Page 21	[investment at strategic and other employment locations will help create a stronger economy (including at Norwich city centre; Norwich Research Park, Hethel Engineering Centre,) <u>Old Catton, Sprowston, Rackheath, Thorpe St Andrew Growth Triangle</u> [Longwater, Wymondham and around Norwich International Airport).]
Key diagram – and under objective 3	Page 27	Add notation to the key diagram to show the area to the northeast of the urban area as one to which the terms "strategic employment sites" and "major housing growth and associated facilities" apply (see plan attached as Appendix 2)
05 Area-wide policies, Policy 4 Housing Delivery: under “Housing with care”	Page 41	[Mixed tenure housing with care will be required as part of overall provision in highly accessible locations. In particular provision will be required in Norwich, and the major growth locations of] <u>Old Catton, Sprowston, Rackheath and Thorpe St Andrew growth triangle,</u> [Cringleford, Hethersett, Wymondham and Long Stratton, and at Aylsham, Acle and Wroxham.]
05 Area-wide policies, Policy 4 Housing Delivery: Table following paragraph 5.25	Page 43	<i>Minor modification for correction of Typographical error:</i> Column 2 header to read <u>‘Current Commitment 2008’</u>
05 Area-wide policies, Policy 4 Housing Delivery: Table following paragraph 5.25	Page 43	The figure of <u>9,000</u> for the ‘New Allocations to 2026’ in the Broadland (NPA) and the total of <u>11,099</u> recorded in the table for the ‘New Commitment to 2026’ in the Broadland (NPA).
06 Policies for Places: Introduction	Page 55	[Large-scale mixed-use developments in the Norwich Policy Area are provided...] <u>in a major urban extension in the Old Catton, Sprowston, Rackheath, Thorpe St</u>

<b>Section of Joint Core Strategy</b>	<b>JCS page no.</b>	<b>Adopted Text/diagram (underlined)</b> [N.B. the words in square brackets are included for clarification purposes only]
paragraph 6.3		<u>Andrew growth triangle, and ...</u> [at Cringleford, Easton/Costessey, Hethersett, Long Stratton and Wymondham.]
06 Policies for places, Policy 9 Strategy for growth in the Norwich Policy Area: 2 <sup>nd</sup> & 8 <sup>th</sup> bullet points	Page 56	2nd bullet point <ul style="list-style-type: none"> <li>• <u>Old Catton, Sprowston, Rackheath and Thorpe St Andrew growth triangle: 7,000 dwellings by 2026 continuing to grow to around 10,000 dwellings eventually</u></li> </ul> 8th bullet point <ul style="list-style-type: none"> <li>• <u>Broadland smaller sites in the NPA: 2,000 dwellings</u></li> </ul>
06 Policies for places, Policy 9 Strategy for growth in the Norwich Policy Area: Final bullet point:	Page 57	Final bullet point <ul style="list-style-type: none"> <li>• [new employment development to serve local needs of major growth locations] <u>including around 25ha of new employment land at Rackheath</u></li> </ul>
06 Policies for places, Policy 9 Para 6.7	Page 57	Paragraph 6.7 to read <u>The Old Catton, Sprowston, Rackheath and Thorpe St Andrew growth triangle incorporates land at Rackheath promoted for an eco-community under the government's eco-towns programme and development of the rest of the area will be expected to reflect similar high standards.</u>
Para 6.12 4 <sup>th</sup> bullet point	Page 58	4 <sup>th</sup> bullet point <ul style="list-style-type: none"> <li>• <u>Rackheath: around 25ha of new employment land for a range of employment uses to strengthen the employment role of this location and provide local opportunities for the new community in this area</u></li> </ul>
Diagram after the end of the paragraph 6.12 – Relationship between strategic growth locations	Page 59	Add notation to the diagram to include the area of the 'Old Catton, Sprowston, Rackheath, Thorpe St Andrew Growth Triangle' as a location for both 'Major housing growth and associated facilities' and 'Strategic employment locations' (see plan attached as Appendix 3)

<b>Section of Joint Core Strategy</b>	<b>JCS page no.</b>	<b>Adopted Text/diagram (underlined)</b> [N.B. the words in square brackets are included for clarification purposes only]
within the Norwich Policy Area		
Diagram after para 6.12, entitled “Main Housing Allocations”	Page 60	<p>Add notation to show additional locations for ‘Proposed housing in unspecified locations in the Norwich Policy Area’ as follows:</p> <ul style="list-style-type: none"> <li>• 10,000 new houses to the north east of the urban area within the Norwich policy area,</li> <li>• 2,000 houses in the NPA part of Broadland.</li> </ul> <p>Add notation to show the ‘Old Catton, Sprowston, Rackheath, Thorpe St Andrew Growth Triangle’ (See plan attached as Appendix 4)</p>
Policy 10 -- Locations for major new or expanded communities in the Norwich Policy Area: first sentence	Page 63	<p>[Major growth] <u>in the Old Catton, Sprowston, Rackheath, Thorpe St Andrew growth triangle, and [at Cringleford, Easton/Costessey, Hethersett, Long Stratton and Wymondham will be masterplanned as attractive, well-serviced, integrated, mixed use development using a recognised design process giving local people an opportunity to shape development.]</u></p>
Policy 10 Paragraph headed “Old Catton, Sprowston, Rackheath, Thorpe St Andrew growth triangle”	Page 63	<p>Heading and paragraphs as follows:</p> <p><b><u>Old Catton, Sprowston, Rackheath, Thorpe St Andrew growth triangle</u></b></p> <p><u>This location will deliver an urban extension extending on both sides of the Northern Distributor Road. Complete delivery of the extension is dependent on implementation of the Northern Distributor Road. However, there is scope for partial delivery, the precise extent of which will be assessed through the Area Action Plan. The structure of the local geography suggests that this new community will take the form of a series of inter-related new villages or quarters and will include:</u></p> <ul style="list-style-type: none"> <li>• <u>at least 7,000 dwellings (rising to a total of at least 10,000 dwellings after 2026)</u></li> <li>• <u>a district centre based around an accessible ‘high street’ and including a new library, education and</u></li> </ul>

Section of Joint Core Strategy	JCS page no.	Adopted Text/diagram ( <u>underlined</u> ) [N.B. the words in square brackets are included for clarification purposes only]
		<p><u>health facilities. This may be provided by building on the proposed centre at Blue Boar Lane or by the creation of a second district centre elsewhere in the Growth Triangle. The development will also require new local centres</u></p> <ul style="list-style-type: none"> <li>• <u>new pre-school provision and up to six new primary schools plus a new secondary school with an initial phase to open as early as possible. To facilitate early provision the early phases of development will concentrate on family housing</u></li> <li>• <u>new employment allocations for local needs including expansion of the Rackheath employment area</u></li> <li>• <u>retention of existing important greenspaces and significant levels of heathland re-creation to provide stepping stones to link Mousehold Heath to the surrounding countryside. Building design including, for example, appropriate use of ‘green roofs’ will help provide linkage between green spaces</u></li> <li>• <u>restoring and conserving historic parkland and important woodland. A significant area north of Rackheath will be provided as green space to act as an ecological buffer zone and ensure no significant adverse impacts on the Broads SAC, Broadland SPA and Broadland Ramsar site</u></li> <li>• <u>Bus Rapid Transit to the city centre, possibly via Salhouse Road and Gurney Road, and a choice of safe and direct cycle routes to the centre</u></li> <li>• <u>safe and direct cycle and pedestrian routes, and orbital bus services, to Broadland Business Park, Rackheath employment area, airport employment areas and to the surrounding countryside</u></li> <li>• <u>new rail halts at Rackheath and Broadland Business Park</u></li> <li>• <u>permeability and community integration across the Northern Distributor Road and with existing communities. This will be crucial for the successful development of the area</u></li> <li>• <u>a new household waste recycling centre.</u></li> </ul> <p><u>A single co-ordinated approach will be required across</u></p>

Section of Joint Core Strategy	JCS page no.	Adopted Text/diagram ( <u>underlined</u> ) [N.B. the words in square brackets are included for clarification purposes only]
		<u>the whole area. This will be provided through the preparation of an Area Action Plan (or any future equivalent process). More detailed masterplanning will be required for each quarter.</u>
Policy 10:  Para 6.15	Page 66	<u>The major urban extension in the Old Catton, Sprowston, Rackheath, and Thorpe St Andrew growth triangle will provide a concentration of growth which can support local services, facilities, and infrastructure including secondary education, high quality public transport links and significant green infrastructure. An Area Action Plan and a sustainable development code are being developed. The growth triangle is proposed to accommodate 10,000 dwellings after 2026. A large part of the [development at Rackheath was promoted as an eco-community under the previous Government's eco-towns programme.] The Rackheath low carbon development remains part of this strategy.</u>
Para 6.16 second line	Page 66	[This makes a] <u>similar</u> [large-scale urban expansion inappropriate.]
Para 6.19	Page 66	[In particular it is necessary to allow] <u>significant development in the growth triangle and [the full implementation of the remainder of the Norwich Area Transportation Strategy. The completion of appropriate improvements at Postwick junction would allow for some development] in the Old Catton, Sprowston, Thorpe St Andrew growth triangle [in advance of the NDR] (see supporting text for Policy 20).</u>
Para 6.20 fourth sentence	Page 67	[The growth] <u>in the Old Catton, Sprowston, Rackheath, Thorpe St Andrew area</u> [will require the implementation of bus priority routes into the city centre including] <u>a [Bus Rapid Transit] route which may be via Gurney Road/Salhouse Road.</u>
Paragraph 6.22	Page 67	<u>A new secondary school is needed to serve the new community in the north east.</u> [The form and location of secondary provision for growth in the west and south west is] <u>more</u> [complex and yet to be determined.]
Diagram following policy 10, entitled "Green infrastructure"	Page 69	Add notation to show the 'Growth location' and 'Priority areas for Green Infrastructure' to the northeast of the urban area.  Add notation to show priority corridor A from Norwich to

<b>Section of Joint Core Strategy</b>	<b>JCS page no.</b>	<b>Adopted Text/diagram (underlined)</b> [N.B. the words in square brackets are included for clarification purposes only]
priority areas supporting key growth locations”		the Broads.  (see plan attached as Appendix 5)
Policy 12: The remainder of the Norwich urban area, including the fringe parishes: 1 <sup>st</sup> paragraph	Page 74	[It will be expanded] <u>through significant growth in the Old Catton, Sprowston, Rackheath, Thorpe St Andrew growth triangle, and smaller</u> [urban extensions at Cringleford, and Easton/Costessey (Policy 10).]
Policy 15 Service Villages third paragraph	Page 84	[In addition to the settlements above, Easton] <u>and Rackheath</u> [have equivalent status to a Service Village while providing a location for significant housing growth.]
Policy 19, The hierarchy of centres Point 3.	Page 89	[New district centres/high streets to be established] <u>within the Old Catton, Sprowston, Rackheath, Thorpe St Andrew growth triangle, [at Blue Boar Lane, Sprowston and Hall Road, Norwich.] The Old Catton, Sprowston, Rackheath, Thorpe St Andrew Growth Triangle will be served by a district centre. This may be provided by building on the proposed district centre at Blue Boar Lane or the creation of a second district centre elsewhere in the Triangle as determined through the Area Action Plan for the Growth Triangle.</u>
Paragraph 6.77	Page 90	[The proposed large-scale housing areas will provide for shops and services to meet local needs where they are not able to benefit from existing centres.] <u>The Old Catton, Rackheath, Sprowston and Thorpe St Andrew growth triangle in particular will be sufficiently large to require a district centre. Preferably this will include a food store as an anchor and sufficient leisure and ancillary activities to provide for the attraction of a range of trips. This may be through building on the proposed centre at Blue Boar Lane or the creation of a second district centre elsewhere in the Growth Triangle. This will be determined through the Area Action Plan for the area.</u>
07 Implementation and monitoring, Paragraph 7.16 and table below	Page 95	See MM1 in Appendix 1

<b>Section of Joint Core Strategy</b>	<b>JCS page no.</b>	<b>Adopted Text/diagram (underlined)</b> [N.B. the words in square brackets are included for clarification purposes only]
Para 7.17	Page 95	<u>Broadland District Council is committed to preparing an Area Action Plan (AAP) for the growth triangle. As part of the preparation of this AAP there will be an investigation of any potential that may exist for further growth to take place (in addition to that shown in table 1 above) without confirmation of the delivery of the NDR. This will include testing whether interim schemes and/or alternatives to the NDR could help to facilitate growth without compromising the spatial vision and objectives of the JCS. Therefore, the analysis would need to cover capacity of all infrastructure, not just road capacity, the implications of particular sites, and the nature of the proposed development.</u> [It will be essential that the growth is delivered in accordance with the overall strategy, taking account of its wider impact across the Norwich area, including a full range of infrastructure provision, services and high-quality public transport and walking / cycling provision.]
Para 7.18	Page 96	[Development beyond the pre-NDR threshold] <u>established through the AAP process</u> [will not be possible without a commitment to the NDR. If it becomes clear that there is no possibility of the timely construction of the NDR, a review of the JCS proposals] <u>for the growth triangle</u> [and the implications for the strategy as a whole would be triggered.]
New text inserted following Para 7.18	Page 96	See MM2 in Appendix 1
Appendix 5 <i>Old Catton, Sprowston, Rackheath, Thorpe St Andrew Growth Triangle</i>	Page 107	Insert map showing the area of the 'Old Catton, Sprowston, Rackheath, Thorpe St Andrew Growth Triangle'(see plan attached at Appendix 6)
Appendix 6	Pages 108-111	<i>Insert following note onto each of the first four pages of App 6 (as per Inspector's modification MM3 in Appendix 1):</i> <u>This appendix illustrates the trajectory as anticipated in 2010 and historic information back to the base date of the now revoked East of England Plan. Not only is this page of the appendix out of date but it also includes</u>

<b>Section of Joint Core Strategy</b>	<b>JCS page no.</b>	<b>Adopted Text/diagram (underlined)</b> [N.B. the words in square brackets are included for clarification purposes only]
		<u>assumptions about delivery from elements of the plan that were remitted by court order. It is reproduced here solely for historical information. For updated information on housing trajectories please see the Annual Monitoring Report. For a housing trajectory in the Broadland part of the NPA see Appendix 6a and the published Annual Monitoring Report.</u>
Appendix 6 housing trajectory -- table entitled "Growth locations"	Page 113	See MM4 in Appendix 1
New Appendix 6a to be inserted after Appendix 6	-	See MM5 in Appendix 1
Appendix 7	Pages 114-147	See MM6 in Appendix 1
New Appendix 7a to be inserted after Appendix 7	-	See MM7 in Appendix 1
New Appendix 8a to be inserted after Appendix 8	-	See MM8 in Appendix 1

## Main Modifications

The modifications below are expressed either in the conventional form of ~~strikethrough~~ for deletions and underlining for additions of text, or by specifying the modification in words in *italics*.

The page numbers and paragraph numbering below refer to the combined submission Plan with the JCS [SDJCS 1], and do not take account of the deletion or addition of text.

Ref	Page	Policy/ Paragraph	Main Modification
MM1	95	Para 7.16 and table below	Make changes attached as MM1
MM2	96	New section Paras 7.19- 20 and Policies 21 and 22	Insert new section, as attached as MM2
MM3	108	Appendix 6	<p>Insert following note onto each of the first four pages of App 6:</p> <p><u>This appendix illustrates the trajectory as anticipated in 2010 and historic information back to the base date of the now revoked East of England Plan. Not only is this page of the appendix out of date but it also includes assumptions about delivery from elements of the plan that were remitted by court order. It is reproduced here solely for historical information. For updated information on housing trajectories please see the Annual Monitoring Report. For a housing trajectory in the Broadland part of the NPA see Appendix 6a and the published Annual Monitoring Report.</u></p>
MM4	113	Table headed Growth Locations	Make changes attached at MM4
MM5	-	-	Insert new Appendix 6a, following Appendix 6, as attached at MM5
MM6	114 - 147	Appendix 7	Make changes attached at MM6
MM7	-	New	Insert new Appendix 7a, following Appendix 7, as

## Appendix 1 – Main Modifications

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<b>Ref</b>	<b>Page</b>	<b>Policy/ Paragraph</b>	<b>Main Modification</b>
		section	attached at MM7
MM8	-	New section	Insert new Appendix 8a, following Appendix 8, as attached at MM8

Please note - where large new sections are inserted (see MM2, 5, 7 and 8) the additional text is not underlined.

## MM1

Ref	Page	Policy/ Paragraph
MM1	95	Para 7.16 and table below

~~7.16 Pending clarification of the NDR's delivery or otherwise, the existing commitment of 1400 dwellings in the Sprowston Fringe can take place without improvements to Postwick Junction. Subject to acceptable improvements to Postwick junction (in the form of Postwick Hub or a suitable alternative) there is significant potential for further development in the growth triangle before confirmation of the delivery of the NDR. The table below summarises the current understanding of this potential.~~

<del>Location</del>	<del>Level of growth supported by current evidence</del>	<del>Constrained development</del>
<del>Growth Triangle</del>	<del>At least 1600 dwellings (plus 200 exemplar at Rackheath prior to Postwick junction improvements)</del>	<del>New employment allocation at Rackheath</del>
<del>Smaller sites in Broadland NPA</del>	<del>Delivery of the smaller sites allowance will be dealt with on a site by site basis</del>	
<del>Broadland Business Park</del>	<del>Development of existing allocation and new allocation (approx 18ha incl c50,000m<sup>2</sup> B1)</del>	
<del>Airport area</del>		<del>New employment allocation</del>

*Insert the following text:*

7.16 Pending clarity on Postwick Hub's and the NDR's delivery, the table below summarises the current understanding of development potential offered by the strategic locations in the Broadland NPA as at 2013. The delivery of the smaller sites allowance in the Broadland NPA will be dealt with on a site by site basis as the dependence on Postwick junction and the NDR will vary with location.

<u>Development that can come forward in advance of improvements to Postwick Junction:</u>	
<u>Growth Triangle</u>	<u>1440 committed dwellings in the Sprowston Fringe</u>
<u>Rackheath</u>	<u>200 dwellings on the proposed exemplar development at</u>

## Appendix 1 – Main Modifications

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	<u>Rackheath (in addition to 94 existing consented dwellings)</u>
<u>Further development that can come forward following improvements to Postwick Junction and in advance of confirmation of delivery of the NDR:</u>	
<u>Growth Triangle</u>	<u>At least 1600 dwellings</u>
<u>Broadland Business Park</u>	<u>Development of existing allocation and new allocation (approx. 18ha including c50,000m2 B1)</u>
<u>Development that cannot come forward until confirmation of delivery of the NDR:</u>	
<u>Growth Triangle</u>	<u>All remaining housing in the Growth Triangle and new employment allocation at Rackheath</u>
<u>Airport Area</u>	<u>New employment allocation</u>

MM2

Ref	Page	Policy/ Paragraph
MM2	96	New section Paras 7.19-20 and Policies 21 and 22

*Insert new section as follows:*

**Implementation and delivery within the Broadland part of the Norwich Policy Area**

7.19 Following the adoption of the Joint Core Strategy in March 2011 a court judgment remitted parts of the previously adopted plan for further consideration. This judgment remitted specific elements of the proposals within the Broadland part of the Norwich Policy Area and in particular: a) the Old Catton, Sprowston, Rackheath, Thorpe St Andrew Growth Triangle (including employment growth at Rackheath but excluding employment land at Broadland Business Park and the airport); and b) 2000 homes proposed on smaller sites throughout the Broadland part of the Norwich Policy Area. These proposals were resubmitted for further examination, and policies 21 and 22 were necessary in order to ensure the soundness of this part of the JCS. For the avoidance of doubt, policies 21 and 22 below apply only to the proposals previously remitted by the Court order.

7.20 Between the original adoption of the JCS and consideration of the remitted proposals, key infrastructure items serving the Broadland part of the NPA were not progressed at the rate envisaged in the original JCS. Because of this, and the further scrutiny of the remitted elements of the plan in the light of updated government guidance about the housing land supply and deliverability of the plan proposals, it was considered necessary to strengthen policy with regard to a positive approach to sustainable development, monitoring and housing land supply. Progress regarding delivery of housing land will be rigorously monitored against targets. If monitoring reveals that the Broadland part of the NPA will significantly under deliver in terms of a 5-year housing land supply (plus the “additional buffer” required in national policy), then action will be taken to address this as set out in policy 22.

**Policy 21: Implementation of proposals in the Broadland part of the Norwich Policy Area**

When considering development proposals in their part of the Norwich Policy Area Broadland District Council will take a positive approach that reflects the presumption in favour of sustainable development contained in the National Planning Policy Framework. It will always work proactively with applicants jointly to find solutions which mean that proposals can be approved wherever possible, and to secure development that improves the economic, social and environmental conditions in the area.

Planning applications that accord with the policies in this Local Plan (and, where relevant, with policies in neighbourhood plans) will be approved without delay, unless material considerations indicate otherwise.

Where there are no policies relevant to the application or relevant policies are out of date at the time of making the decision then the Council will grant permission unless material considerations indicate otherwise – taking into account whether:

- Any adverse impacts of granting permission would significantly and demonstrably outweigh the benefits, when assessed against the policies in the National Planning Policy Framework taken as a whole; or
- Specific policies in that Framework indicate that development should be restricted.

**Policy 22: Action to ensure the delivery of housing land in the Broadland part of the Norwich Policy Area**

In addition to the JCS review “trigger” set out in paragraph 7.18, if any Monitoring Report (MR) produced after two full years from the adoption of this part-JCS Local Plan demonstrates that there is a significant shortfall (as defined below) in the 5-year supply of housing land (plus the “additional buffer” required in current national policy) affecting the Broadland part of the Norwich Policy Area (NPA), then the Councils will take the course of action specified below to address the identified shortfall.

The Councils will consider that a significant shortfall has arisen if the MR (produced annually) shows there to be less than 90% of the required deliverable housing land (as defined in current national policy).

In the event of an identified shortfall, the Councils will produce a short, focussed Local Plan which will have the objective of identifying and allocating additional locations within the whole NPA area for immediately deliverable housing land to remedy that shortfall, in accordance with the settlement hierarchy set out in paragraph 6.2 of the JCS. The Local Plan will cover such a time period as may reasonably be considered necessary for the delivery delay or shortfall (however caused) to be resolved.

MM4

Ref	Page	Policy/ Paragraph
MM4	113	Table headed Growth Locations

**Growth locations (excluding the Broadland part of the Norwich Policy Area)**

This table illustrates the trajectory as anticipated in 2010 for the Plan excluding figures for the Broadland part of the Norwich Policy Area. It is now out of date. For updated information on housing trajectories please see the Annual Monitoring Report. For a housing trajectory in the Broadland part of the NPA see Appendix 6a and the Annual Monitoring Report.

District	Total number of units per year																				Average annual build rate		
	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26		Total units	
<b>Broadland</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>180</b>	<b>230</b>	<b>230</b>	<b>580</b>	<b>680</b>	<b>804</b>	<b>764</b>	<b>9,900</b>	<b>582</b>									
Rackheath						180	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	3,400	227
Remainder of Old Catton, Sprowston, Rackheath, Thorpe St Andrew Growth Triangle (inside NDR)									125	225	350	350	350	350	350	350	350	350	350	350	350	3,850	324
Additional small sites around Broadland NPA									170	170	170	170	170	170	170	170	170	170	170	170	130	2000	167
Additional sites around rural Broadland									55	55	54	54	54	54	54	54	54	54	54	54	54	650	54
<b>Norwich</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250</b>	<b>3,000</b>	<b>176</b>												
Norwich (3,000)									250	250	250	250	250	250	250	250	250	250	250	250	250	3,000	250
<b>South Norfolk</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>525</b>	<b>655</b>	<b>875</b>	<b>950</b>	<b>1,039</b>	<b>1,128</b>	<b>978</b>	<b>898</b>	<b>778</b>	<b>778</b>	<b>778</b>	<b>778</b>	<b>683</b>	<b>10,065</b>	<b>592</b>
Wymondham (2,200)									185	185	185	185	185	185	185	185	185	185	185	185	165	2,200	183
Long Stratton (1,800)												50	140	230	230	230	230	230	230	230	230	1,800	200
Hethersett (1,000)									50	90	175	175	175	175	100	60						1,000	125
Cringleford (1,200)										50	100	125	125	125	125	125	125	125	125	125	50	1,200	109
Easton/ Costessey (1,000)									50	90	175	175	175	175	100	60						1,000	125
Additional smaller sites around South Norfolk NPA (1,800)									150	150	150	150	150	150	150	150	150	150	150	150	150	1,800	150
Additional sites around Rural South Norfolk									84	84	84	84	83	83	83	83	83	83	83	83	83	1,000	83
Additional urban capacity in rural South Norfolk									6	6	6	6	6	5	5	5	5	5	5	5	5	65	5
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>180</b>	<b>230</b>	<b>230</b>	<b>1,355</b>	<b>1,585</b>	<b>1,929</b>	<b>2,004</b>	<b>2,093</b>	<b>2,182</b>	<b>2,032</b>	<b>1,952</b>	<b>1,832</b>	<b>1,832</b>	<b>1,832</b>	<b>1,697</b>	<b>22,965</b>	<b>2,871</b>	
						<b>0</b>	<b>0</b>	<b>0</b>	<b>830</b>	<b>960</b>	<b>1179</b>	<b>1254</b>	<b>1343</b>	<b>1432</b>	<b>1282</b>	<b>1202</b>	<b>1082</b>	<b>1082</b>	<b>1082</b>	<b>987</b>	<b>13715</b>	<b>1143</b>	

## Appendix 1 – Main Modifications

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### MM5

Ref	Page	Policy/ Paragraph	Main Modification
MM5	-	-	Insert new Appendix 6a, to follow Appendix 6

### Appendix 6a

Trajectory of delivery of Homes expected from previously remitted Growth Locations in Broadland part of NPA

	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	TOTAL	Av build
Rackheath	77	77	70	185	230	230	230	230	230	230	230	230	2249	187
Remainder of Old Catton, Sprowston, Rackheath, Thorpe St Andrew Growth Triangle (inside NDR)	20	163	234	373	435	440	515	590	530	530	530	497	4857	405
Additional small sites around Broadland NPA	98	148	161	266	328	300	225	150	150	150	25	0	2001	167
Total	195	388	465	824	993	970	970	970	910	910	785	727	9107	759

This trajectory illustrates delivery anticipated at July 2013. It should not be summed with figures produced in Appendix 6. For up to date information please see the Annual Monitoring Report.

## MM6

Ref	Page	Policy/ Paragraph
MM6	114 147	- Appendix 7

### **Appendix 7: Implementation Framework and Critical Path outside of the Broadland part of the Norwich Policy Area**

The framework lists infrastructure required to facilitate development promoted in this JCS. It is early work and is not intended to be an exhaustive or precise list of the entire infrastructure that will be needed by 2026. Additional infrastructure will be needed beyond this date, ~~including in the growth triangle where 3,000 dwellings are proposed after 2026.~~ This table was correct at late 2010 and relates only to infrastructure that is not required to deliver any aspect of the plan that was previously remitted. Updated information on the schemes listed is contained within the published LIPP available on the GNDP website. Updated information on infrastructure schemes needed in part to support some element of the previously remitted growth proposals in the Broadland part of the NPA is available in Appendix 7a.

The GNDP will manage a delivery programme supporting the implementation of this Joint Core Strategy. The programme will be developed through the Local Investment Plan and Programme (LIPP). As decisions are made locally and nationally on prioritisation and funding of infrastructure, the content, phasing and priorities of this list will be amended accordingly. This will happen via the LIPP process which will be subject to regular review.

The definition of the three levels of priority is derived from the Greater Norwich Infrastructure Needs and Funding Study (INF 1; in particular see Page 194) but expands the Study's definition to explicitly recognise the differential impact on the overall strategy. Consequently, the categories are:

**Priority 1 - Infrastructure** is fundamental to the strategy or must happen to enable physical growth. It includes key elements of transport, water and electricity infrastructure and green infrastructure requirements from the Habitats Regulation Assessment. Failure to deliver infrastructure that is fundamental to the strategy would have such an impact that it would require the strategy to be reviewed. This particularly applies to the NDR and the associated package of public transport enhancement. The sustainable transport requirements of the strategy and much of the development to the north of the built up area is dependent on these key elements of NATS.

**Priority 2 - Infrastructure** is essential to significant elements of the strategy and required if growth is to be achieved in a timely and sustainable manner. Failure to address these infrastructure requirements is likely to result in the refusal of planning permission for individual growth proposals, particularly in the medium term as pressures build and any existing capacity is used up.

**Priority 3 - Infrastructure** is required to deliver the overall vision for sustainable growth but is unlikely to prevent development in the short to medium term. The overall quality of life in the area is likely to be poorer without this infrastructure. Failure to address these infrastructure requirements is likely to result in the refusal of planning permission for individual growth proposals.

**Table 1 – Infrastructure Framework** shows infrastructure requirements to support growth across the JCS period.

**Table 1 – Infrastructure Framework**

<b>Infrastructure Framework: Priority 1 projects 2008 - 2016</b>
<i>The base date for the Strategy is 2008. This table includes projects from 2008 - 2011 (the adoption of the Strategy) and 2011 - 2016 (the first 5 years of delivery post adoption)</i>

<b>Waste Water</b>							
<i>The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities.</i>							
Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimate d delivery dates by	Source
SP1	<del>Sewerage upgrade solutions subject to ongoing discussions with Anglian Water</del>	Rackheath	Developer	tba	Developer/ AW provision	2016	<del>Water Cycle Study Stage 2: B</del>
SP3	Whitlingham Upgrade (Option 1)	Norwich Policy Area	Anglian Water	42.9	Developer/ AW provision	2016	Water Cycle Study Stage 2: B
SP4	Whitlingham Upgrade (Option 2)	Norwich	Anglian Water	5	Developer/ AW provision	2016	Water Cycle Study Stage 2: B
SP5	Wymondham upgrade (Option 2)	Wymondham	Anglian Water	13.8	Developer/ AW provision	2016	Water Cycle Study Stage 2: B
SP6	<del>Rackheath (Option 2)</del>	Rackheath	Anglian Water	48	Developer/ AW provision	2016	<del>Water Cycle Study Stage 2: B</del>

**Potable Water**

Water supply is adequate for growth in the short-term. Supply will require enhancement in the longer term, Anglian Water are committed to finding a solution by 2012. Solutions will be funded through the AMP process and developer contributions.

**Green Infrastructure**

*The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities.*

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimate d delivery dates by	Source
GI 15	Enhance public access to Yare Valley and Bawburgh Lakes	Overall scale of growth	Local Authorities/ Developer	tba	Local authority/ Developer contributions	2016	Green Infrastructure Delivery Plan
GI 16	Retention and re-creation of Mousehold Heath to the surrounding countryside	Overall scale of growth in particular Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Local Authorities/ Developer	tba	Local authority/ Developer contributions	2016	Green Infrastructure Delivery Plan
GI 17	Broads Buffer Zone	Overall scale of growth in particular Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Local Authorities/ Developer	tba	Local authority/ Developer contributions	2016	Green Infrastructure Delivery Plan

**Electricity**

*The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities.*

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimate d delivery dates by	Source
U1	New primary sub-station on existing site (Hurricane Way)	Expansion of the employment area - airport business park	EDF energy	5.5	70% AMP • 30% Developer contributions	2016	Infrastructure Needs and Funding Study 2009

**Transportation**

*The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment)*

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<i>and Utilities.</i>							
Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
T1	Norwich Northern Distributor Road	Overall scale of growth in particular Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle • Broadland: Smaller sites in the NPA (2000 dwellings) • Norwich Area Transportation Strategy including delivery of BRT • Broadland Business Park • Airport employment allocation	Norfolk County Council	106.2	DfT £67.5m • Growth Point • Developer Contributions • Norfolk County Council	2016	NATS
T2a	Postwick Junction improvements	Overall Scale of Growth. Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle • Broadland: Smaller sites in the NPA (2000 dwellings) • Norwich Area Transportation Strategy including delivery of BRT • Broadland Business Park • Airport employment allocation	Norfolk County Council	19	DfT • Growth Point 3.5 • Developer contributions	2016	NATS
Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost	Funding sources	Estimated delivery	Source

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			body	£m		dates by	
T2b	Postwick Park and Ride Junction improvements	Overall Scale of Growth. Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle • Broadland: Smaller sites in the NPA (2000 dwellings) • Norwich Area Transportation Strategy including delivery of BRT • Broadland Business Park • Airport employment allocation	Norfolk County Council	6	Developer contributions	2016	NATS
T4 & T17	Thickthorn junction improvement including bus priority and park and ride improvements	Wymondham, Hethersett and Cringleford Growth Locations	Norfolk County Council/ Highways Agency	30	Developer contributions	2016 (scheme expected to be phased)	NATS
T5	Longwater junction improvements	West Growth Location	Norfolk County Council/ Highways Agency	30	Norfolk County Council • DfT • Growth Point • Developer contributions	2016	NATS
T6	Norwich Research Park transport infrastructure phase 1	Norwich Research Park	Norfolk County Council/ Highways Agency	5	Growth Point • Developer contributions	2016	NATS

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T7	Grapes Hill bus improvements	Overall Growth	Norfolk County Council	0.18	Growth Point/EEDA	Delivered	NATS
Ref	Scheme	Required for growth in:	Promoter/Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
T7	Bus improvements Newmarket Road	Wymondham, Hethersett and Cringleford • Norwich Area Transportation Strategy including delivery of BRT	Norfolk County Council	0.4	Growth Point	Delivered	NATS
T7	City centre bus improvements phase 1	Overall Growth	Norfolk County Council/ Norwich City Council	1	Norfolk County Council • DfT • Growth Point • Developer contributions	2016	NATS
T8	Bus Rapid Transit via Fakenham Road - A1067 - Phase 1	Broadland Fringe Growth (subject to location of growth)	Norfolk County Council/ Norwich City Council	2.5	Norfolk County Council • DfT • Growth Point • Developer contributions	2016	NATS
T9	Bus Rapid Transit via Dereham Road - Phase 1	West Growth Location	Norfolk County Council/ Norwich City Council	1.25	Growth Point	2010 – 2011	NATS

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Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
T10	Bus Rapid Transit via Yarmouth Road - Phase 1	Broadland Business Park Expansion	Norfolk County Council/ Norwich City Council	2.5	Norfolk County Council • DfT • Growth Point • Developer contributions	2016	NATS
T11	Bus Rapid Transit via Salhouse Road and Gurney Road - Phase 1	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Norfolk County Council/ Norwich City Council	1.8	Eco-community PoD • Developer contributions	2016	NATS
T12	Bus Rapid Transit via Norwich airport A140 to City centre - Phase 1	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Norfolk County Council/ Norwich City Council	2.5	Norfolk County Council • DfT • Growth Point • Developer contributions	2011-2016	NATS

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T13	Bus priority route via Hethersett Lane/ Hospital/ Norwich Research Park/ University of East Anglia/ City centre	Wymondham, Hethersett and Cringleford Growth Location & NRP	Norfolk County Council/ Norwich City Council	2.7	Norfolk County Council • DfT • Growth Point • Developer contributions	2016	NATS
<b>Ref</b>	<b>Scheme</b>	<b>Required for growth in:</b>	<b>Promoter/ Delivery body</b>	<b>Total Cost £m</b>	<b>Funding sources</b>	<b>Estimated delivery dates by</b>	<b>Source</b>
T14	Bus priority route via B1172 phase 1	Wymondham, Hethersett Growth Location	Norfolk County Council/ Norwich City Council	1.7	Norfolk County Council • DfT • Growth Point • Developer contributions	2016	NATS
T15	Development Link Broadland Business Park to Salhouse Road	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Developer Lead	2.5	Developer contributions	2016	NATS
T16	Bus priority - approach to Harford Junction	Long Stratton Growth Location	Norfolk County Council/ Highways Agency	2	Norfolk County Council • DfT • Growth Point • Developer contributions	2016	NATS

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T18	Pedestrian / Cycle links to Longwater	West Growth Locations	Norfolk County Council	1.5	Norfolk County Council • DfT • Growth Point • Developer contributions	2016	NATS
N/A	Lady Julian Bridge	NATS • City centre	Norwich City Council	2.58	Growth Point • S106 • EEDA	Delivered	NATS
<b>Ref</b>	<b>Scheme</b>	<b>Required for growth in:</b>	<b>Promoter/ Delivery body</b>	<b>Total Cost £m</b>	<b>Funding sources</b>	<b>Estimated delivery dates by</b>	<b>Source</b>
N/A	Barrack Street ring-road improvement works	Overall Growth	Norfolk County Council/ Norwich City Council	1.3	Growth Point	Delivered	NATS
N/A	St Augustine's Gyratory	Norwich Area Transportation Strategy including delivery of BRT • City centre bus enhancements	Norfolk County Council/ Norwich City Council	3.49	Growth point 2.42 • LTP 1.04 • S106 0.03	2010	NATS
	<b>Totals</b>			<b><u>155.30</u> <del>341.30</del></b>			

**Infrastructure Framework: Priority 1 projects 2016 -2021**

*The base date for the Strategy is 2008. This table includes projects from 2008 - 2011 (the adoption of the Strategy) and 2011 - 2016 (the first 5 years of delivery post adoption)*

**Waste Water**

*The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities*

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimat ed delivery dates by	Source
SP1	Sewerage upgrade – solutions subject to ongoing discussions with Anglian Water	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Developer	TBA	Developer/ AW provision	2021	Water Cycle Study Stage 2b
SP2	Sewerage upgrade - solutions subject to ongoing discussions with Anglian Water	Hethersett, Cringleford, Easton/ Costessey	Developer	TBA	Developer/ AW provision	2021	Water Cycle Study Stage 2b
SP7	Whitlingham Upgrade (Option 1)	Norwich Policy Area	Anglian Water	14.4	Developer/ AW provision	2021	Water Cycle Study Stage 2b
SP8	Whitlingham Upgrade (Option 2)	Norwich	Anglian Water	0.8	Developer/ AW provision	2021	Water Cycle Study Stage 2b
SP9	Wymondham upgrade (Option 2)	West growth locations	Anglian Water	22.4	Developer/ AW provision	2021	Water Cycle Study Stage 2b

**Potable Water**

Water supply is adequate for growth in the short-term. Supply will require enhancement in the longer term, Anglian Water are committed to finding a solution by 2012. Solutions will be funded through the AMP process and developer contributions.

**Electricity**

*The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities.*

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimat ed delivery dates by	Source
U2	New primary substation on new site (Norwich Airport north)	Expansion of the employment area - airport business park - Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	EDF energy	6.3	Developer contributions	2021	Infrastructure Needs and Funding Study
U3	New grid sub-station on existing sites (Norwich East)	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	EDF energy	17	100% AMP	2021	Infrastructure Needs and Funding Study

**Green Infrastructure**

*The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment and Utilities. All potable water improvements are delivered through the AMP process and are not included in this table.*

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimat ed delivery dates by	Source
GI 15	Enhance public access to Yare Valley and Bawburgh Lakes	Overall scale of growth in particular Wymondham, Hethersett and Cringleford Growth Locations	Local authorities/ Developers	tba	Local authorities/ Developer contribution	2021	Green Infrastructure Delivery Plan
GI 16	Retention and re-creation of Mousehold Heath to the surrounding countryside	Overall scale of growth in particular Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Local authorities/ Developers	tba	Local authorities/ Developer contribution	2021	Green Infrastructure Delivery Plan
GI 17	Broads Buffer Zone	Overall scale of growth in particular Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Local authorities/ Developers	tba	Local authorities/ Developer contribution	2021	Green Infrastructure Delivery Plan

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<b>Transportation</b>							
<i>The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment and Utilities). All potable water improvements are delivered through the AMP process and are not included in this table.</i>							
Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
T3	Long Stratton bypass A140 including improvement at Hempnall crossroads	Long Stratton Growth Locations	Developer / Norfolk County Council	20	Developer contributions	2021	Developer
T6	Norwich Research Park transport infrastructure phase 2	Norwich Research Park	Norfolk County Council/ Highways Agency	8	Growth Point • Developer contributions	2021	NATS
T7	Bus priority - approach to Harford Junction	Overall Growth	Norfolk County Council	2	Developer contributions	2021	NATS
T7	City centre bus improvements phase 1	Overall Growth	Norfolk County Council/ Norwich City Council	2.6	Growth Point • LTP • Developer contributions	2021	NATS

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T7	City centre bus improvements phase 2	Overall Growth	Norfolk County Council/ Norwich City Council	6	Growth Point • LTP • Developer contributions	2021	NATS
<b>Ref</b>	<b>Scheme</b>	<b>Required for growth in:</b>	<b>Promoter/ Delivery body</b>	<b>Total Cost £m</b>	<b>Funding sources</b>	<b>Estimated delivery dates by</b>	<b>Source</b>
T8	Bus Rapid Transit via Fakenham Road - A1067 - Phase 2	Broadland Fringe Growth	Norfolk County Council/ Norwich City Council	5	Norfolk County Council • DfT • Growth Point • Developer contributions	2021	NATS
T9	Bus improvements Dereham Road phase 2	West Growth Locations	Norfolk County Council/ Norwich City Council	2.6	Growth Point • Developer contributions	2021	NATS
T10	Bus Rapid Transit via Yarmouth Road - Phase 2	Broadland Business Park Expansion	Norfolk County Council/ Norwich City Council	5	Norfolk County Council • DfT • Growth Point • Developer contributions	2021	NATS
<del>T11</del>	<del>Bus improvements via Salhouse Road and Gurney Road phase 2</del>	<del>Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</del>	<del>Norfolk County Council/ Norwich City Council</del>	<del>2.6</del>	<del>Developer contributions • Rackheath PoD</del>	<del>2021</del>	<del>NATS</del>

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T12	<del>Bus Rapid Transit via Norwich airport A140 to City centre - Phase 2</del>	<del>Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</del>	<del>Norfolk County Council/ Norwich City Council</del>	<del>5</del>	<del>Norfolk County Council - DfT Growth Point - Developer contributions</del>	<del>2021</del>	<del>NATS</del>
<b>Ref</b>	<b>Scheme</b>	<b>Required for growth in:</b>	<b>Promoter/ Delivery body</b>	<b>Total Cost £m</b>	<b>Funding sources</b>	<b>Estimated delivery dates by</b>	<b>Source</b>
T15	<del>Development Link Broadland Business Park to Salhouse Road</del>	<del>Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</del>	<del>Norfolk County Council/ Norwich City Council</del>	<del>2.5</del>	<del>Developer contributions</del>	<del>2021</del>	<del>NATS</del>
<b>Totals</b>				<b>88.80</b>			
				<b>122.20</b>			

**Infrastructure Framework: Priority 1 projects 2021 -2026**

*The base date for the Strategy is 2008. This table includes projects from 2008 - 2011 (the adoption of the Strategy) and 2011 - 2016 (the first 5 years of delivery post adoption)*

**Waste Water**

*The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities.*

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimate d delivery dates by	Source
SP1	<del>Sewerage upgrade – solutions subject to ongoing discussions with Anglian Water</del>	<del>Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</del>	Developer	tba	Developer/ AW provision	2026	Water Cycle Study Stage 2 B
SP2	Sewerage upgrade - solutions subject to ongoing discussions with Anglian Water	Hethersett, Cringleford, Easton/ Costessey	Developer	tba	Developer/ AW provision	2026	Water Cycle Study Stage 2 B
SP10	Whitlingham Upgrade (Option 1)	Norwich Policy Area	Anglian Water	4.3	Developer/ AW provision	2026	Water Cycle Study Stage 2 B
SP11	Whitlingham Upgrade (Option 2)	Norwich	Anglian Water	0.4	Developer/ AW provision	2026	Water Cycle Study Stage 2 B
Ref	Scheme	Required for growth in:	Promoter/ Delivery	Total Cost	Funding sources	Estimate d delivery	Source

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			<b>body</b>	<b>£m</b>		<b>dates by</b>	
SP12	Wymondham upgrade (Option 2)	West growth locations	Anglian Water	0.5	Developer/ AW provision	2026	Water Cycle Study Stage 2 B
SP13	Sewerage upgrade - solutions subject to ongoing discussions with Anglian Water	Long Stratton	Anglian Water	Tba	Developer/ AW provision	2026	Water Cycle Study Stage 2 B

**Potable Water**

Water supply is adequate for growth in the short-term. Supply will require enhancement in the longer term, Anglian Water are committed to finding a solution by 2012. Solutions will be funded through the AMP process and developer contributions.

**Electricity**

The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
U4	New primary substation on new site (Sprowston / Rackheath)	Old Catton, Sprowston, Rackheath, and Thorpe St Andrews growth triangle	EDF energy	4.3	Developer contribution	2026	Infrastructure Needs and Funding Study 2009
U5	Replacement of transformers and switchgear in existing site (Hapton)	Long Stratton	EDF energy	2.53	83% AMP • 17% Developer contributions	2026	Infrastructure Needs and Funding Study 2009
U6	Replacement of transformers and switchgear in existing site (Wymondham)	SW Growth location	EDF energy	2.53	67% AMP • 33% Developer contributions	2026	Infrastructure Needs and Funding Study 2009

**Green Infrastructure**

The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
GI 16	Retention and re-creation of Mousehold Heath to the surrounding countryside	Overall scale of growth in particular Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	-	tba	-	2026	Green Infrastructure Delivery Plan

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<b>Transportation</b>							
The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities.							
Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
T7	City centre bus improvements phase 3	Overall Growth	Norfolk County Council/ Norwich City Council	6	Norfolk County Council • DfT • Growth Point • Developer contributions	2021 - 2026	NATS
T8	Bus Rapid Transit via Fakenham Road - A1067 - Phase 3	Broadland Fringe Growth	Norfolk County Council/ Norwich City Council	2.5	Norfolk County Council • DfT • Growth Point • Developer contributions	2021-2026	NATS
T9	Bus improvements Dereham Road phase 3	West Growth Location	Norfolk County Council/ Norwich City Council	2.6	Growth Point • LTP • Developer contributions	2021 - 2026	NATS

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T10	Bus Rapid Transit via Yarmouth Road - Phase 3	Broadland Business Park Expansion	Norfolk County Council/ Norwich City Council	2.5	Norfolk County Council • DfT • Growth Point • Developer contributions	2021-2026	NATS
<b>Ref</b>	<b>Scheme</b>	<b>Required for growth in:</b>	<b>Promoter/ Delivery body</b>	<b>Total Cost £m</b>	<b>Funding sources</b>	<b>Estimated delivery dates by</b>	<b>Source</b>
<del>T11</del>	<del>Bus improvements via Salhouse Road and Gurney Road phase 3</del>	<del>Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</del>	<del>Norfolk County Council/ Norwich City Council</del>	<del>0.6</del>	<del>Rackheath PoD • Developer contributions</del>	<del>2021 - 2026</del>	<del>NATS</del>
<del>T12</del>	<del>Bus Rapid Transit via Norwich airport A140 to City centre - Phase 3</del>	<del>Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</del>	<del>Norfolk County Council/ Norwich City Council</del>	<del>2.5</del>	<del>Norfolk County Council • DfT • Growth Point • Developer contributions</del>	<del>2021-2026</del>	<del>NATS</del>
Totals				23.86 31.26			

**Infrastructure Framework: Priority 2 projects 2008-2016**

**Education**

The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The 3 categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
ED3	60 place pre-school	Norwich City	Norfolk County Council	0.54	Developers	2011	Infrastructure Needs and Funding Study
ED4	60 place pre-school	Norwich City	Norfolk County Council	0.54	Developers	2016	Infrastructure Needs and Funding Study

**Healthcare**

The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The 3 categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure. The Health Authority will take a flexible approach to the provision of hospital beds. Locations will be determined by the Health Authority at a later date. It is presumed funding will come through the AMP.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
HC1	GPs Surgery (3 GPs)	Norwich City	Health Authority	1.03	Health Authority / Developer contribution	2011	Infrastructure Needs and Funding Study
HC2	Dentists surgery (4 Dentists)	Norwich City	Health Authority	1.25	Health Authority / Developer contribution	2016	Infrastructure Needs and Funding Study
HC6	Expansion of existing facilities (2 GPs and 2 Dentists)	Broadland Elsewhere	Health Authority	0.9	Health Authority / Developer contribution	2016	Infrastructure Needs and Funding Study
HC12	Expansion of existing facilities (7 GPs and 7 Dentists)	South Norfolk Elsewhere	Health Authority	3.5	Health Authority / Developer contribution	2016	Infrastructure Needs and Funding Study
HC13	Hospital requirements bed	Overall scale of growth	Health Authority	10	Health Authority / Developer contribution	2016	Infrastructure Needs and Funding Study

## Appendix 1 – Main Modifications

<b>Green infrastructure</b>							
The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The 3 categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure. Green infrastructure projects are being assessed following completion of the Green Infrastructure Delivery Plan. Open space will be planned in relation to each growth location and planned in line with development.							
Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
N/A	Wensum River Parkway	Overall scale of growth	HEART/ Norwich City Council	0.07	Growth Point	Delivered	Green Infrastructure Steering Group
N/A	Catton Park visitor centre and park improvements	Overall scale of growth	Catton Park Trust/ Norfolk County Council	0.37	Growth Point	Delivered	Green Infrastructure Steering Group
N/A	Whitlingham Country Park Access Improvements	Overall scale of growth	Norfolk County Council	0.12	Growth Point	Delivered	Green Infrastructure Steering Group
N/A	Wooded ridge	Overall scale of growth	Norwich City Council	0.04	Growth Point	Delivered	Green Infrastructure Steering Group
GI 1- 14	Green infrastructure projects and open space	Overall scale of growth	Various	tba	Local authorities • Developers contributions • Other funding sources to be identified	2016	Green Infrastructure Steering Group
Totals				18.36			

**Infrastructure Framework: Priority 2 projects 2016-2021**

**Education**

The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The 3 categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure

Ref	Scheme	Required growth in:	for	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
ED1	60 place pre-school	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle		Norfolk County Council	0.54	Developer contribution	2021	Infrastructure Needs and Funding Study
ED1	60 place pre-school (co-location with community space)	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle		Norfolk County Council	0.54	Developer contribution	2021	Infrastructure Needs and Funding Study
ED1	2FE primary with integrated 60 place nursery	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle		Norfolk County Council	5.14	Developer contribution	2021	Infrastructure Needs and Funding Study
ED1	2FE primary with integrated 60 place nursery	Old Catton, Sprowston, Rackheath and		Norfolk County Council	5.14	Developer contribution	2021	Infrastructure Needs and Funding Study

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Ref	Scheme	Required growth in:	for	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
		Thorpe St Andrew Growth Triangle						
ED5	2FE primary with integrated 60 place nursery	Norwich City		Norfolk County Council	5.14	Developer contribution	2021	Infrastructure Needs and Funding Study
ED5	2FE primary with integrated 60 place nursery	Norwich City		Norfolk County Council	5.14	Developer contribution	2021	Infrastructure Needs and Funding Study
ED7	30 place pre-school	Wymondham		Norfolk County Council	0.285	Developer contribution	2021	Infrastructure Needs and Funding Study
ED7	2FE primary with integrated 60 place nursery	Wymondham		Norfolk County Council	5.14	Developer contribution	2021	Infrastructure Needs and Funding Study
ED7	60 place pre-school	Hethersett		Norfolk County Council	0.54	Developer contribution	2021	Infrastructure Needs and Funding Study
ED7	60 place pre-school	Easton		Norfolk County Council	0.54	Developer contribution	2021	Infrastructure Needs and Funding Study
ED9	1400 secondary school with 280 sixth form places co-located with 4 x indoor sports courts	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle		Norfolk County Council	26	Developer contribution	2021	Infrastructure Needs and Funding Study

Appendix 1 – Main Modifications

	phase 1						
Ref	Scheme	Required growth in:	for Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
ED10	Expanded secondary school provision	Wymondham, Hethersett, Cringleford, Costessey / Easton	Norfolk County Council	10	Developer contribution	2021	Infrastructure Needs and Funding Study and ongoing assessment of options

**Healthcare**

The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The 3 categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure. The Health Authority will take a flexible approach to the provision of hospital beds. Locations will be determined by the Health Authority at a later date. It is presumed funding will come through the AMP.

Ref	Scheme	Required growth in:	for Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
HC3	Expansion of existing facilities (6 GPs and 5 Dentists)	Norwich City	Health Authority	4.5	Health Authority / Developer contribution	2021	Infrastructure Needs and Funding Study
HC4	Primary Care Centre (5 GPs and 4 Dentists)	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Health Authority	3.35	Health Authority / Developer contribution	2021	Infrastructure Needs and Funding Study

## Appendix 1 – Main Modifications

HC7	Expansion of existing facilities (3 GPs and 2 Dentists)	Wymondham	Health Authority	1.8	Health Authority / Developer contribution	2021	Infrastructure Needs and Funding Study
HC9	Expansion of existing facilities (1 GP and 1 Dentists)	Hethersett	Health Authority	0.55	Health Authority / Developer contribution	2021	Infrastructure Needs and Funding Study
Ref	Scheme	Dependencies	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
HC11	Expansion of existing facilities (1 GP and 1 Dentist)	Easton / Costessey	Health Authority	0.55	Health Authority / Developer contribution	2021	Infrastructure Needs and Funding Study
HC13	Hospital bed requirements	Overall scale of growth	Health Authority	6	Health Authority / Developer contribution	2021	Infrastructure Needs and Funding Study

### Green infrastructure

The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The 3 categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure. Green infrastructure projects are being assessed following completion of the Green Infrastructure Delivery Plan. Open space will be planned in relation to each growth location and planned in line with development.

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Ref	Scheme	Required growth in:	for	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
GI 1-14	Green infrastructure projects and open space	Overall scale of growth		Various	tba	Local authorities • Developers contributions • Other funding sources to be identified	2021	Green Infrastructure Steering Group

Totals					40.19 80.90			
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**Infrastructure Framework: Priority 2 projects 2021-2026**

**Education**

The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The 3 categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure.

Ref	Scheme	Required growth in:	for	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
ED2	60 place pre-school	Old Catton, Sprowston, Rackheath and Thorpe St Andrew		Norfolk County Council	0.54	Developer contribution	2026	Infrastructure Needs and Funding Study

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		Growth Triangle					
ED2	2FE primary with integrated 60 place nursery	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	5.14	Developer contribution	2026	Infrastructure Needs and Funding Study
ED2	2FE primary with integrated 60 place nursery	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	5.14	Developer contribution	2026	Infrastructure Needs and Funding Study
ED6	60 place pre-school co-located with 600sqm combined community centre and library	Norwich City	Norfolk County Council	0.54	Developer contribution	2026	Infrastructure Needs and Funding Study
<b>Ref</b>	<b>Scheme</b>	<b>Required growth in:</b> for	<b>Promoter/ Delivery body</b>	<b>Total Cost £m</b>	<b>Funding sources</b>	<b>Estimated delivery dates by</b>	<b>Source</b>
ED8	60 place pre-school	Wymondham	Norfolk County Council	0.54	Developer contribution	2026	Infrastructure Needs and Funding Study
ED8	2FE place primary	Cringleford	Norfolk County Council	2.3	Developer contribution	2026	Infrastructure Needs and Funding Study
ED8	1 FE place primary	Hethersett	Norfolk County Council	2.3	Developer contribution	2026	Infrastructure Needs and Funding Study

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ED8	60 place pre-school	Long Stratton	Norfolk County Council	0.54	Developer contribution	2026	Infrastructure Needs and Funding Study
ED9	1400 secondary school with 280 sixth form places co-located with 4 x indoor sports courts phase 2	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	13	Developer contribution	2026	Infrastructure Needs and Funding Study
ED8	2FE primary with integrated 60 place pre-school co-located with combined community centre and library	Long Stratton	Norfolk County Council	5.14	Developer contribution	2026	Infrastructure Needs and Funding Study
ED8	60 place pre-school	Cringleford	Norfolk County Council	0.54	Developer contribution	2026	Infrastructure Needs and Funding Study
ED8	1FE primary	Easton	Norfolk County Council	2.5	Developer contribution	2026	Infrastructure Needs and Funding Study
<b>Ref</b>	<b>Scheme</b>	<b>Required growth in:</b>	<b>for Promoter/ Delivery body</b>	<b>Total Cost £m</b>	<b>Funding sources</b>	<b>Estimated delivery dates by</b>	<b>Source</b>
ED10	Expanded secondary school provision	Wymondham, Hethersett, Cringleford, Costessey / Easton, Long Stratton, rest of South Norfolk	Norfolk County Council	10	Developer contribution	2026	Infrastructure Needs and Funding Study and ongoing assessment of options

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		NPA				
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**Healthcare**

The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The 3 categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure. The Health Authority will take a flexible approach to the provision of hospital beds. Locations will be determined by the Health Authority at a later date. It is presumed funding will come through the AMP.

Ref	Scheme	Required growth in:	for	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
HC5	Primary Care Centre (5 GPs and 4 Dentists)	Old	Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Health Authority	3.35	Health Authority / Developer contribution	2026	Infrastructure Needs and Funding Study
HC8	Combined surgery (2 GPs and 2 Dentists)	Long Stratton		Health Authority	1.5	Health Authority / Developer contribution	2026	Infrastructure Needs and Funding Study
HC10	Expansion of existing facilities (1 GP and 1 Dentists)	Cringleford		Health Authority	0.55	Health Authority / Developer contribution	2021 - 2026	Infrastructure Needs and Funding Study
Ref	Scheme	Required growth in:	for	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source

## Appendix 1 – Main Modifications

HC12	Expansion of existing facilities (1 GP )	South Norfolk Elsewhere	Health Authority	0.6	Health Authority / Developer contribution	2026	Infrastructure Needs and Funding Study
HC13	Hospital bed requirements	Overall scale of growth	Health Authority	12	Health Authority / Developer contribution	2026	Infrastructure Needs and Funding Study

### Green infrastructure

The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The 3 categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure. Green infrastructure projects are being assessed following completion of the Green Infrastructure Delivery Plan. Open space will be planned in relation to each growth location and planned in line with development.

Ref	Scheme	Required growth in: for	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
GI 1-14	Green infrastructure projects and open space	Overall scale of growth	Various	tba	Local authorities • Developers contributions • Other funding sources to be identified	2026	Green Infrastructure Steering Group

Totals				39.05 <del>66.22</del>			
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**Infrastructure Framework: Priority 3 projects 2008-2016**

**Community facilities**

The table below lists the Priority 3 infrastructure requirements to deliver the Joint Core Strategy. The 2 categories of infrastructure that are viewed as Priority 3 are Community facilities and Community services.

Ref	Scheme	Required growth in:	for Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
CF1	Community facilities	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Broadland District Council	0.5	Private companies • Developers • Local authorities	2011-16	Infrastructure Needs and Funding Study
CF2	Community facilities	Norwich	Norwich City Council	1	Private companies • Developers • Local authorities	2011-16	Infrastructure Needs and Funding Study
CF3-5	Community facilities	South Norfolk	South Norfolk Council	4	Private companies • Developers • Local authorities	2011-16	Infrastructure Needs and Funding Study

Totals			<u>5</u> 5.50			
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**Infrastructure Framework: Priority 3 projects 2016-2021**

**Community facilities**

The table below lists the Priority 3 infrastructure requirements to deliver the Joint Core Strategy. The 2 categories of infrastructure that are viewed as Priority 3 are Community facilities and Community services.

Ref	Scheme	Required growth in: for	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
CF1	Community facilities	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Broadland District Council	2	Private companies • Developers • Local authorities	2016 - 2021	Infrastructure Needs and Funding Study
CF2	Community facilities	Norwich	Norwich City Council	3.05	Private companies • Developers • Local authorities	2016 - 2021	Infrastructure Needs and Funding Study
CF3-5	Community facilities	South Norfolk	South Norfolk Council	3.1	Private companies • Developers • Local	2016 - 2021	Infrastructure Needs and Funding Study

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					authorities		
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**Community services**

The table below lists the Priority 3 infrastructure requirements to deliver the Joint Core Strategy. The 2 categories of infrastructure that are viewed as Priority 3 are Community facilities and Community services.

Ref	Scheme	Required growth in:	for	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
CI 12	Fire Service	Overall growth	scale of	Norfolk County Council	tba	Norfolk County Council / Developer contribution	2016-2021	Infrastructure Needs and Funding Study
CI13	Ambulance Service	Overall growth	scale of	Norfolk Ambulance Service	tba	Norfolk Ambulance Service / Developer contribution	2016-2021	Infrastructure Needs and Funding Study
CI 1-11	Police Safer Neighbourhood teams - Broadland (18 officers) • Norwich (22 officers) • South	Overall growth	scale of	Norfolk Constabulary	5.25	Norfolk Constabulary / Developer contribution	2016-2021	Infrastructure Needs and Funding Study

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	Norfolk (32 officers)						
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			<u>11.40</u>			
Totals			<del>13.40</del>			

**Infrastructure Framework: Priority 3 projects 2021-2026**

**Community facilities**

The table below lists the Priority 3 infrastructure requirements to deliver the Joint Core Strategy. The 2 categories of infrastructure that are viewed as Priority 3 are Community facilities and Community services.

Ref	Scheme	Required growth in:	for Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
CF 1	Community facilities	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Broadland District Council	2	Private companies • Developers • Local authorities	2021-2026	Infrastructure Needs and Funding Study
CF 2	Community facilities	Norwich	Norwich City Council	3.05	Private companies • Developers • Local authorities	2021-2026	Infrastructure Needs and Funding Study
CF 3-5	Community facilities	South Norfolk	South Norfolk Council	3.1	Private companies • Developers • Local authorities	2021-2026	Infrastructure Needs and Funding Study

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Ref	Scheme	Required growth in:	for	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
CI 12	Fire Service	Overall growth	scale of	Norfolk County Council	TBA	Norfolk County Council / Developer Contribution	2021-2026	Infrastructure Needs and Funding Study
CI 13	Ambulance Service	Overall growth	scale of	Norfolk Ambulance Service	TBA	Norfolk Ambulance Service / Developer contribution	2021-2026	Infrastructure Needs and Funding Study
CI 1-11	Police Safer Neighbourhood teams - Broadland (18 officers) • Norwich (44 officers) • South Norfolk (64 officers)	Overall growth	scale of	Norfolk Constabulary	5.25	Norfolk Constabulary / Developer Contribution	2021 - 2026	Infrastructure Needs and Funding Study

Totals					13.4			
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MM7

Ref	Page	Policy/ Paragraph	Main Modification
MM7	-	New Section	Insert new Appendix 7a, to follow Appendix 7

## Appendix 7a: Implementation Framework and Critical Path inside the Broadland part of the Norwich Policy Area

The framework lists infrastructure required to facilitate development promoted in this JCS. It is early work and is not intended to be an exhaustive or precise list of the entire infrastructure that will be needed by 2026. Additional infrastructure will be needed beyond this date, including in the growth triangle where at least 3,000 dwellings are proposed after 2026. This table was correct at June 2013 and relates only to infrastructure that is required to deliver any aspect of the plan that was previously remitted. Updated information on the schemes listed is contained within the published LIPP available on the GNDP website.

The GNDP will manage a delivery programme supporting the implementation of this Joint Core Strategy. The programme will be developed through the Local Investment Plan and Programme (LIPP). As decisions are made locally and nationally on prioritisation and funding of infrastructure, the content, phasing and priorities of this list will be amended accordingly. This will happen via the LIPP process which will be subject to regular review.

The definition of the three levels of priority is derived from the Greater Norwich Infrastructure Needs and Funding Study (INF 1; in particular see Page 194) but expands the Study's definition to explicitly recognise the differential impact on the overall strategy. Consequently, the categories are:

**Priority 1 Infrastructure** is fundamental to the strategy or must happen to enable physical growth. It includes key elements of transport, water and electricity infrastructure and green infrastructure requirements from the Habitats Regulation Assessment. Failure to deliver infrastructure that is fundamental to the strategy would have such an impact that it would require the strategy to be reviewed. This particularly applies to the NDR and the associated package of public transport enhancement. The sustainable transport requirements of the strategy and much of the development to the north of the built up area is dependent on these key elements of NATS.

**Priority 2 Infrastructure** is essential to significant elements of the strategy and required if growth is to be achieved in a timely and sustainable manner. Failure to address these infrastructure requirements is likely to result in the refusal of planning permission for individual growth proposals, particularly in the medium term as pressures build and any existing capacity is used up.

**Priority 3 Infrastructure** is required to deliver the overall vision for sustainable growth but is unlikely to prevent development in the short to medium term. The overall quality of life in the area is likely to be poorer without this infrastructure.

Failure to address these infrastructure requirements is likely to result in the refusal of planning permission for individual growth proposals.

**Table 1 – Infrastructure Framework** shows infrastructure requirements to support growth across the JCS period.

<b>Table 1 – Infrastructure Framework</b>							
<b>Infrastructure Framework: Priority 1 projects 2008 – 2016</b>							
<i>The base date for the Strategy is 2008. This table includes projects expected to be delivered from the base date up to 2016 (the first 5 years of delivery post adoption of the non-remitted parts of the JCS)</i>							
<b>The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities</b>							
Ref	Scheme	Required for growth in	Promoter/ delivery body	Total cost £m	Funding sources	Estimate d delivery dates by	Source
<b>Waste water</b>							
SP1	Sewerage upgrade – Anglian Water propose a north east trunk sewer to manage growth in the north east as a result of the detailed study 'Water Cycle Study 2B'	Overall scale of growth in particular: Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	AW/ Developer	61.6 (across whole period )	AW provision/ Developer	in phases up to 2026	Water Cycle Study Stage 2B
<b>Green Infrastructure</b>							
GI16	Retention and re-creation of Mousehold Heath and link to the surrounding countryside	Overall scale of growth in particular: Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Local Authorities/ Developer	0.033	Local authority/ CIL/ On-site design	2016	Green Infrastructu re Delivery Plan
GI17	Broads Buffer Zone	Overall scale of growth in particular: Old Catton, Sprowston,	Local Authorities/ Developer	0.21	Local authority/CIL /Developer	2016	Green Infrastructu re Delivery

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		Rackheath and Thorpe St Andrew Growth Triangle			land contributions		Plan	
<b>Transportation</b>								
T1	Norwich Distributor Road	Northern	Overall scale of growth in particular: <ul style="list-style-type: none"> <li>• Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</li> <li>• Broadland: Smaller sites in the NPA (2000 dwellings) depending on site specifics</li> <li>• Norwich Area Transportation Strategy including delivery of BRT</li> <li>• Airport employment allocation</li> </ul>	Norfolk County Council	107 (spend up to 2016)	DfT £67.5m /CIL /Norfolk County Council	2016 (continue s to 2021)	NATS
T2a	Postwick improvements	Junction	Overall scale of growth in particular: <ul style="list-style-type: none"> <li>• Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</li> <li>• Norwich Area Transportation Strategy including delivery of NDR and</li> </ul>	Norfolk County Council	21.0	DfT funding /Norfolk County Council	2016	NATS

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		expanded Postwick Park and Ride • Broadland Business Park and expansion					
T11	Bus Rapid Transit via Salhouse Road and Gurney Road	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Norfolk County Council/ Norwich City Council	1.8	Rackheath PoD (Broadland District Council)/ Norfolk County Council/ DfT /CIL	2016	NATS
T15	Completion of local development Link Road	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Developer Lead	2.5	Developer contributions	2016	NATS

**Infrastructure Framework: Priority 1 projects 2016 -2021**

**The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities**

Ref	Scheme	Required for growth in	Promoter/ delivery body	Total cost £m	Funding sources	Estimate d delivery dates by	Source
<b>Waste Water</b>							
SP1	Sewerage upgrade - north east trunk sewer	Overall scale of growth in particular: Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	AW/ Developer	See 2008- 16 period	AW provision/ Developer	in phases up to 2026	Water Cycle Study Stage 2: B

**Utilities**

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U2	New primary substation on new site (Norwich Airport north)	<ul style="list-style-type: none"> <li>Airport employment allocation</li> <li>Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</li> </ul>	UK Power Networks	6.3	UKPN	2021	Infrastructure Needs and Funding Study 2009
U3	New grid sub-station on existing sites (Norwich East)	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	UK Power Networks	17	100% AMP funded	2021	Infrastructure Needs and Funding Study 2009
<b>Green Infrastructure</b>							
GI 16	Retention and re-creation of Mousehold Heath to the surrounding countryside	Overall scale of growth in particular: Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Local authorities/ Developers	0.033	Local authority/ CIL/ On-site design	2021	Green Infrastructure Delivery Plan
GI 17	Broads Buffer Zone	Overall scale of growth in particular: Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Local authorities/ Developers	0.21	Local authority/CIL/ Developer land contributions	2021	Green Infrastructure Delivery Plan
<b>Transport</b>							
T1	Norwich Northern Distributor Road	Overall scale of growth in particular: <ul style="list-style-type: none"> <li>Old Catton, Sprowston,</li> </ul>	Norfolk County Council	13 (spend after	Norfolk County Council	2016 to 2021	NATS

Appendix 1 – Main Modifications

		<p>Rackheath, and Thorpe St Andrew Growth triangle</p> <ul style="list-style-type: none"> <li>• Broadland: Smaller sites in the NPA (2000 dwellings) depending on site specifics</li> <li>• Norwich Area Transportation Strategy including delivery of BRT</li> <li>• Airport employment allocation</li> </ul>		2016)			
T2b	Postwick Park and Ride	<p>Overall scale of growth in particular:</p> <ul style="list-style-type: none"> <li>• Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</li> </ul>	Norfolk County Council	6	Remaining Growth Point funding / CIL	2021 (earliest possible delivery 2015)	NATS
T11	Bus improvements via Salhouse Road and Gurney Road	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Norfolk County Council/ Norwich City Council	2.6	Rackheath PoD / Norfolk County Council / CIL	2021	NATS
T12	Bus Rapid Transit via Norwich airport A140 to City centre	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Norfolk County Council/ Norwich City Council	2.5	Norfolk County Council/ DfT /CIL	2021	NATS
T15	Completion of local Development Link Road	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Developer Lead	2.5	Developer contributions	2021	NATS
<b>Infrastructure Framework: Priority 1 projects 2021 -2026</b>							

The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities							
SP1	Sewerage upgrade - north east trunk sewer	Overall scale of growth in particular: Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	AW/ Developer	See 2008-16 period	AW provision/ Developer	in phases up to 2026	Water Cycle Study Stage 2 B
<b>Electricity</b>							
U4	New primary substation on new site (Sprowston / Rackheath)	Old Catton, Sprowston, Rackheath, and Thorpe St Andrews growth triangle	UK Power Networks	4.3	UKPN / CIL	2026	Infrastructure Needs and Funding Study 2009
<b>Green Infrastructure</b>							
GI 16	Retention and re-creation of Mousehold Heath to the surrounding countryside	Overall scale of growth in particular Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle		0.033	Local authority/ CIL/ On-site design	2026	Green Infrastructure Delivery Plan
GI 17	Broads Buffer Zone	Overall scale of growth in particular Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle		0.21	Local authority/CIL /Developer land contributions	2026	Green Infrastructure Delivery Plan

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<b>Transportation</b>							
T11	Bus improvements via Salhouse Road and Gurney Road	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Norfolk County Council/ Norwich City Council	0.6	Rackheath PoD / Norfolk County Council/ DfT /CIL	2026	NATS
T12	Bus Rapid Transit via Norwich airport A140 to City centre	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Norfolk County Council/ Norwich City Council	7.5	Norfolk County Council/ DfT /CIL	2026	NATS
Total				256.9			

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<b>Infrastructure Framework: Priority 2 projects 2008-2016</b>							
<p><i>The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The three categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure The Health Authority will take a flexible approach to the provision of hospital beds. Locations will be determined by the Health Authority at a later date. It is presumed funding will come through the AMP.</i></p>							
<p>NOTE: All schools in the period 2008-16 are expected to be covered by S106 or are covered by Children's Services funding</p>							
<b>Infrastructure Framework: Priority 2 projects 2016-2021</b>							
<b>Education</b>							
ED1	60 place pre-school	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	0.54	Childrens Services/CIL	2021	Infrastructure Needs and Funding Study 2009
ED1	60 place pre-school (co-location with community space)	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	0.54	Childrens Services/CIL	2021	Infr Needs and Funding Study 2009
ED1	2FE primary with integrated 60 place nursery	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	5.14	Childrens Services/CIL	2021	Infr Needs and Funding Study 2009
ED1	2FE primary with integrated 60 place nursery	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	5.14	Childrens Services/CIL	2021	Infr Needs and Funding Study 2009
ED9	1400 secondary school	Old Catton, Sprowston,	Norfolk	13	Childrens	2021	Infr Needs

## Appendix 1 – Main Modifications

	with 280 sixth form places co-located with 4 x indoor sports courts Phase 1	Rackheath and Thorpe St Andrew Growth Triangle	County Council		Services/CIL		and Funding Study 2009
HC4	Primary Care Centre (5 GPs and 4 Dentists)	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Health Authority	3.35	Health Authority	2021	Infr Needs and Funding Study 2009

<b>Infrastructure Framework: Priority 2 projects 2021-2026</b>							
<b>Education</b>							
ED2	60 place pre-school	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	0.54	Childrens Services/CIL	2026	Infrastructure Needs and Funding Study 2009
ED2	2FE primary with integrated 60 place nursery	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	5.14	Childrens Services/CIL	2026	Infrastructure Needs and Funding Study 2009
ED2	2FE primary with integrated 60 place nursery	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	5.14	Childrens Services/CIL	2026	Infrastructure Needs and Funding Study 2009
ED9	1400 secondary school with 280 sixth form places co-located with 4 x indoor sports courts phase 2	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	13	Childrens Services/CIL	2026	Infrastructure Needs and Funding

Appendix 1 – Main Modifications

							Study 2009
HC5	Primary Care Centre (5 GPs and 4 Dentists)	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Health Authority	3.35	Health Authority	2026	Infrastructure Needs and Funding Study 2009

Appendix 1 – Main Modifications

<b>Infrastructure Framework: Priority 3 projects</b>							
The table below lists the Priority 3 infrastructure requirements to deliver the Joint Core Strategy. The 2 categories of infrastructure that are viewed as Priority 3 are Community facilities and Community services.							
<b>Community facilities: 2013-2016</b>							
CF1	Community facilities 300 sq metres community space	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Broadland District Council	0.54	Private companies / Developers / Local authorities/ CIL	2016	Infrastructure Needs and Funding Study 2009
<b>Community facilities: 2016-2021</b>							
CF1	Community facilities 600 sq metres community space	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Broadland District Council	1.44	Private companies / Developers / Local authorities/ CIL	2021	Infrastructure Needs and Funding Study 2009
<b>Community facilities: 2021-2026</b>							
CF 1	Community facilities 300sq metres of community space plus 4 indoor sports courts	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Broadland District Council	2.54	Private companies / Developers / Local authorities/ CIL	2026	Infrastructure Needs and Funding Study 2009

MM8

Ref	Page	Policy/ Paragraph	Main Modification
MM8	-	New Section	Insert new Appendix 8a, to follow Appendix 8

## Appendix 8a – Additional monitoring framework for the Broadland part of the Norwich Policy Area

<p>Spatial Planning Objective 1: To minimise the contributors to climate change and address its impact.</p> <p>Policy: 1, 3, 5, 6, 7, 9, 10, 11, 12, 13, 14, 18, 19</p>											
<table border="1"> <thead> <tr> <th>Indicator (&amp; type)</th> <th>Main Agencies</th> <th>Targets</th> <th>Source</th> </tr> </thead> <tbody> <tr> <td>Percentage of residents who travel to work: a) by private motor vehicle; b) by public transport; c) by foot or cycle; and d) work at or mainly at home.</td> <td>Norfolk County Council / Developers / LPAs</td> <td>Decrease in a) and increase in b), c) and d) over plan period</td> <td>ONS (Census)</td> </tr> </tbody> </table>				Indicator (& type)	Main Agencies	Targets	Source	Percentage of residents who travel to work: a) by private motor vehicle; b) by public transport; c) by foot or cycle; and d) work at or mainly at home.	Norfolk County Council / Developers / LPAs	Decrease in a) and increase in b), c) and d) over plan period	ONS (Census)
Indicator (& type)	Main Agencies	Targets	Source								
Percentage of residents who travel to work: a) by private motor vehicle; b) by public transport; c) by foot or cycle; and d) work at or mainly at home.	Norfolk County Council / Developers / LPAs	Decrease in a) and increase in b), c) and d) over plan period	ONS (Census)								

<p>Spatial Planning Objective 2: To allocate enough land for housing, and affordable housing, in the most sustainable settlements.</p> <p>Policy: 4, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22</p>											
<table border="1"> <thead> <tr> <th>Indicator (&amp; type)</th> <th>Main Agencies</th> <th>Targets</th> <th>Source</th> </tr> </thead> <tbody> <tr> <td>Housing land supply within Broadland part of the NPA</td> <td>LPAs/Developers</td> <td>To have more than 90% of the required deliverable housing land (as defined in current national policy) in the rolling 5-year supply of housing land (plus the 'additional buffer' required in current national policy).</td> <td>LPAs</td> </tr> </tbody> </table>				Indicator (& type)	Main Agencies	Targets	Source	Housing land supply within Broadland part of the NPA	LPAs/Developers	To have more than 90% of the required deliverable housing land (as defined in current national policy) in the rolling 5-year supply of housing land (plus the 'additional buffer' required in current national policy).	LPAs
Indicator (& type)	Main Agencies	Targets	Source								
Housing land supply within Broadland part of the NPA	LPAs/Developers	To have more than 90% of the required deliverable housing land (as defined in current national policy) in the rolling 5-year supply of housing land (plus the 'additional buffer' required in current national policy).	LPAs								

## Appendix 1 – Main Modifications

Spatial Planning Objective 4: To promote regeneration and reduce deprivation			
Policy: 5, 6, 7, 9, 10, 11, 12, 19, 20			
Indicator (& type)	Main Agencies	Targets	Source
Unfit housing – percentage of overall housing stock not meeting “Decent Homes Standard”	LAs	Decrease over plan period	LAs

Spatial Planning Objective 7: To enhance transport provision to meet the needs of existing and future populations while reducing travel need and impact			
Policy: 3, 6, 7, 9, 10, 12, 13, 14, 15, 16, 17, 19, 20			
Indicator (& type)	Main Agencies	Targets	Source
Percentage of residents who travel to work: a) by private motor vehicle; b) by public transport; c) by foot or cycle; and d) work at or mainly at home.	Norfolk County Council / Developers / LPAs	Decrease in a) and increase in b), c) and d) over plan period	ONS (Census )

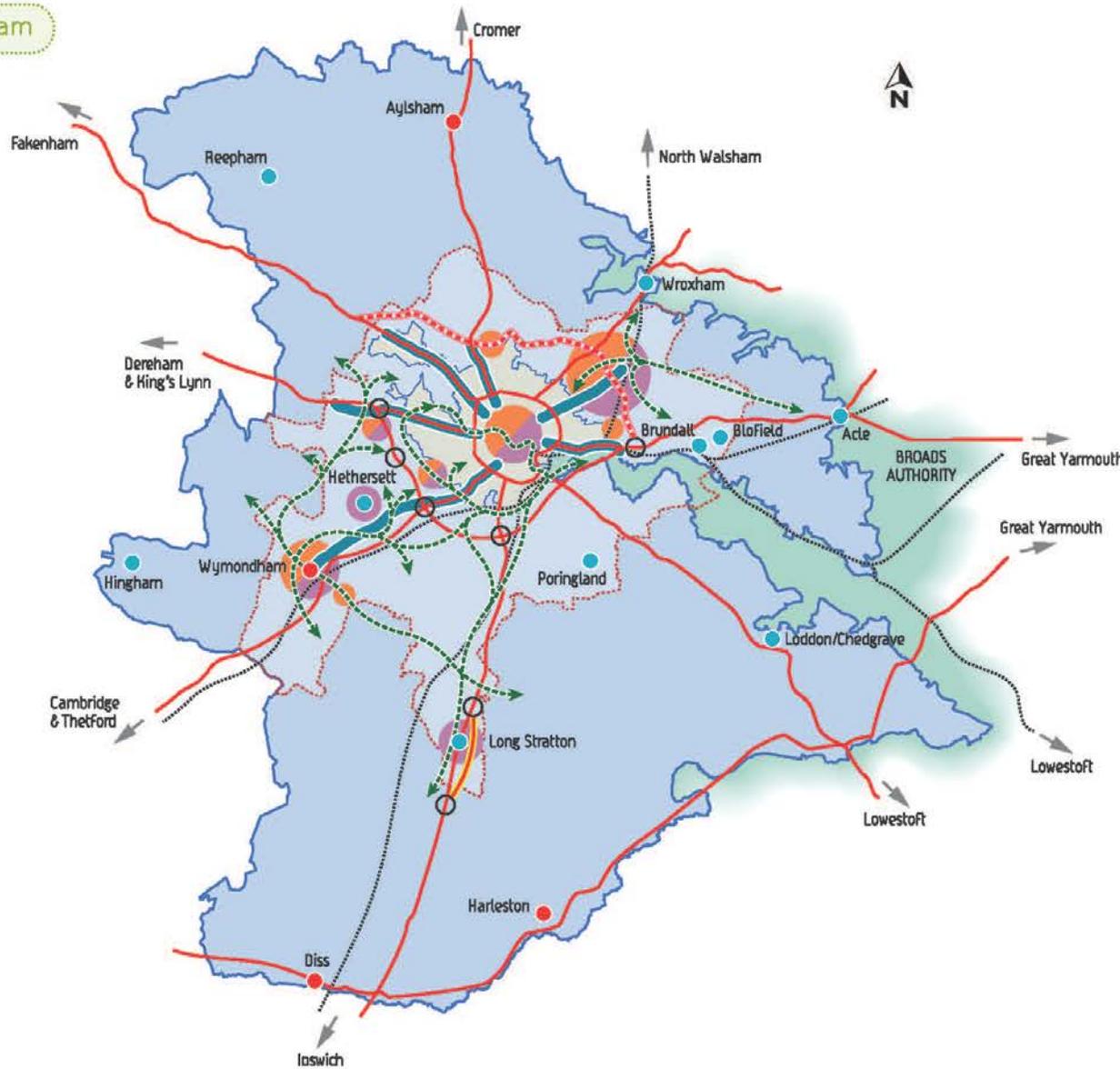
Spatial Planning Objective 8: To positively protect and enhance the individual character and culture of the area.			
Policy: 2, 5, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20			
Indicator (& type)	Main Agencies	Targets	Source
Heritage at risk – number and percentage of: a) Listed Buildings; and b) Scheduled Ancient Monuments on Buildings at Risk Register	LPAs	Year on year reduction	LPAs

Appendix 1 – Main Modifications

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<p>Spatial Planning Objective 9: To protect, manage and enhance the natural, built and historic environment, including key landscapes, natural resources and areas of natural habitat or nature conservation value.</p> <p>Policy: 1, 3, 5, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20</p>			
Indicator (& type)	Main Agencies	Targets	Source
<p>Heritage at risk – number and percentage of:</p> <p>a) Listed Buildings; and</p> <p>b) Scheduled Ancient Monuments</p> <p>on Buildings at Risk Register</p>	LPAs	Year on year reduction	LPAs

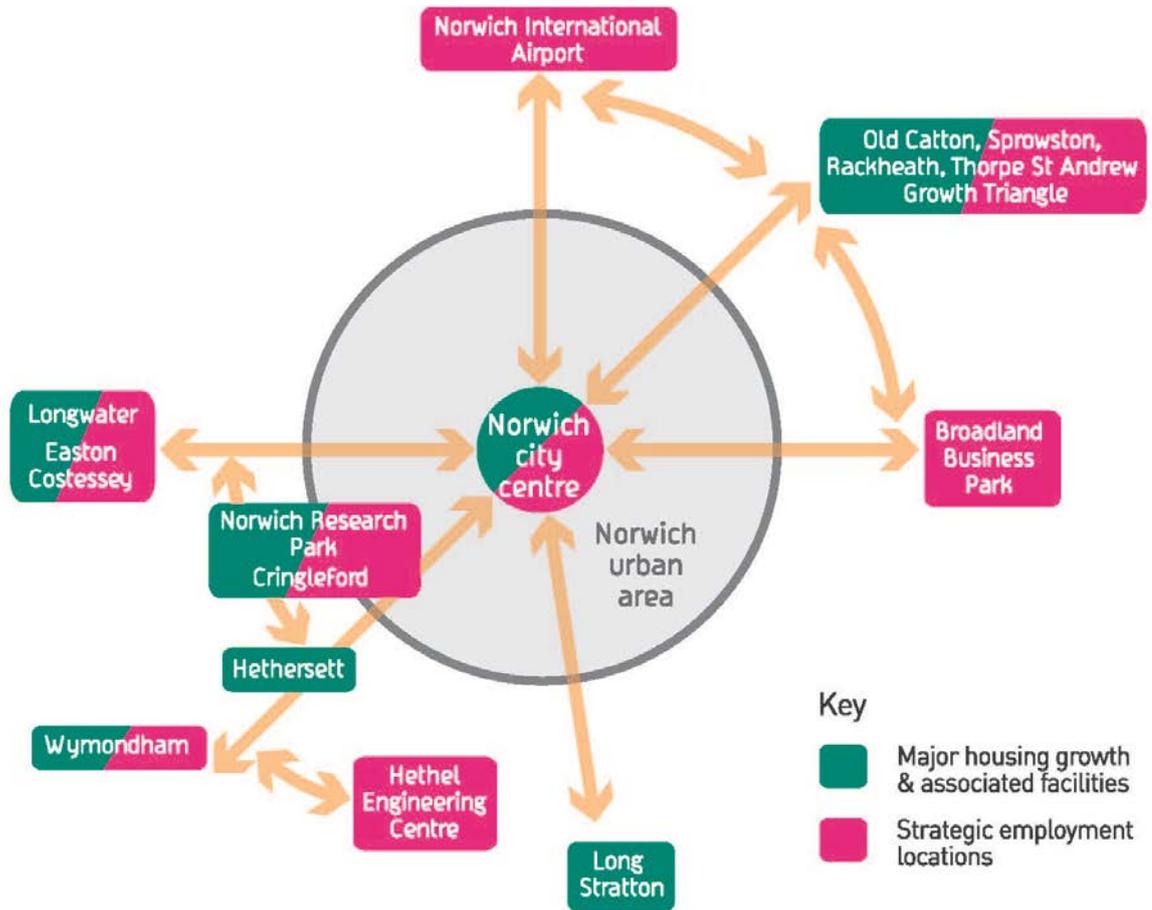
Key Diagram



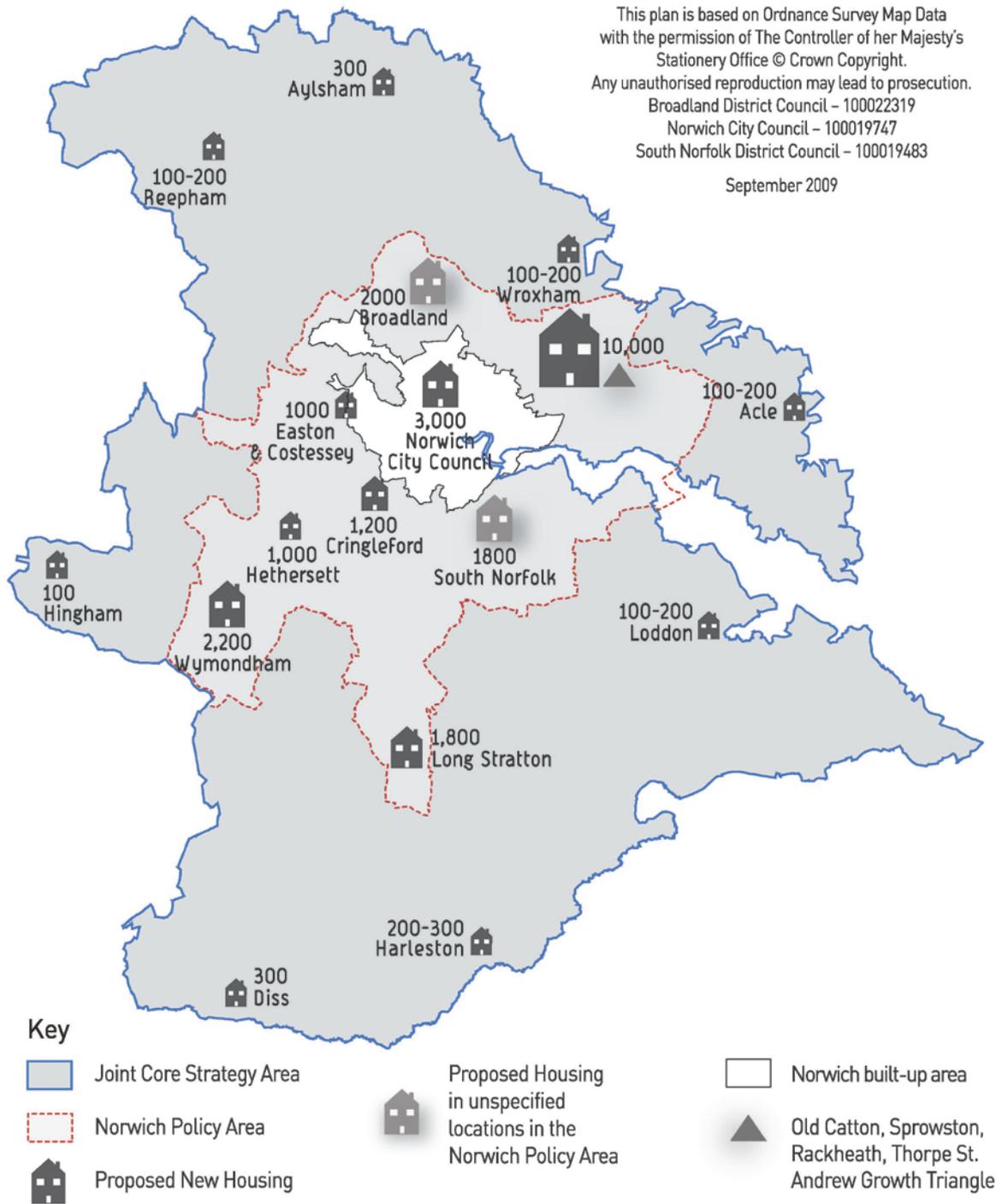
- Key**
- Joint Core Strategy Area
  - Norwich Policy Area
  - Norwich Urban Area
  - Broads Authority Area
  - Strategic Employment Sites
  - Major Housing Growth & Associated Facilities
  - Norwich Northern Distributor Road
  - Long Stratton Bypass
  - Major Junction Improvements
  - Bus Rapid Transit Corridor
  - Green Infrastructure Priority Corridors supporting key growth locations [Other Green Infrastructure opportunities throughout the area]
  - Main Towns
  - Key Service Centres
  - A Roads
  - Railways
- NB. For City Centre see separate City Centre Key Diagram

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 September 2009

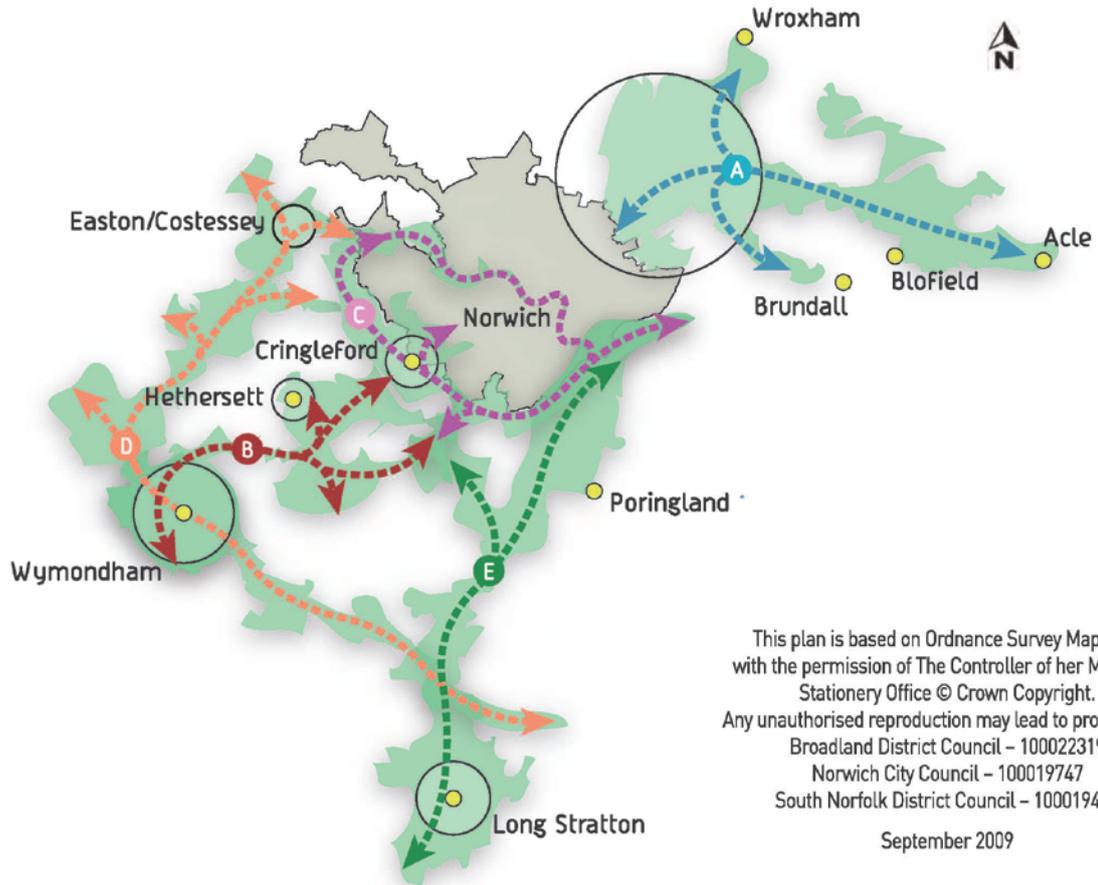
Relationships between strategic growth locations within the Norwich Policy Area



## Main Housing Allocations



Green infrastructure priority areas supporting key growth locations



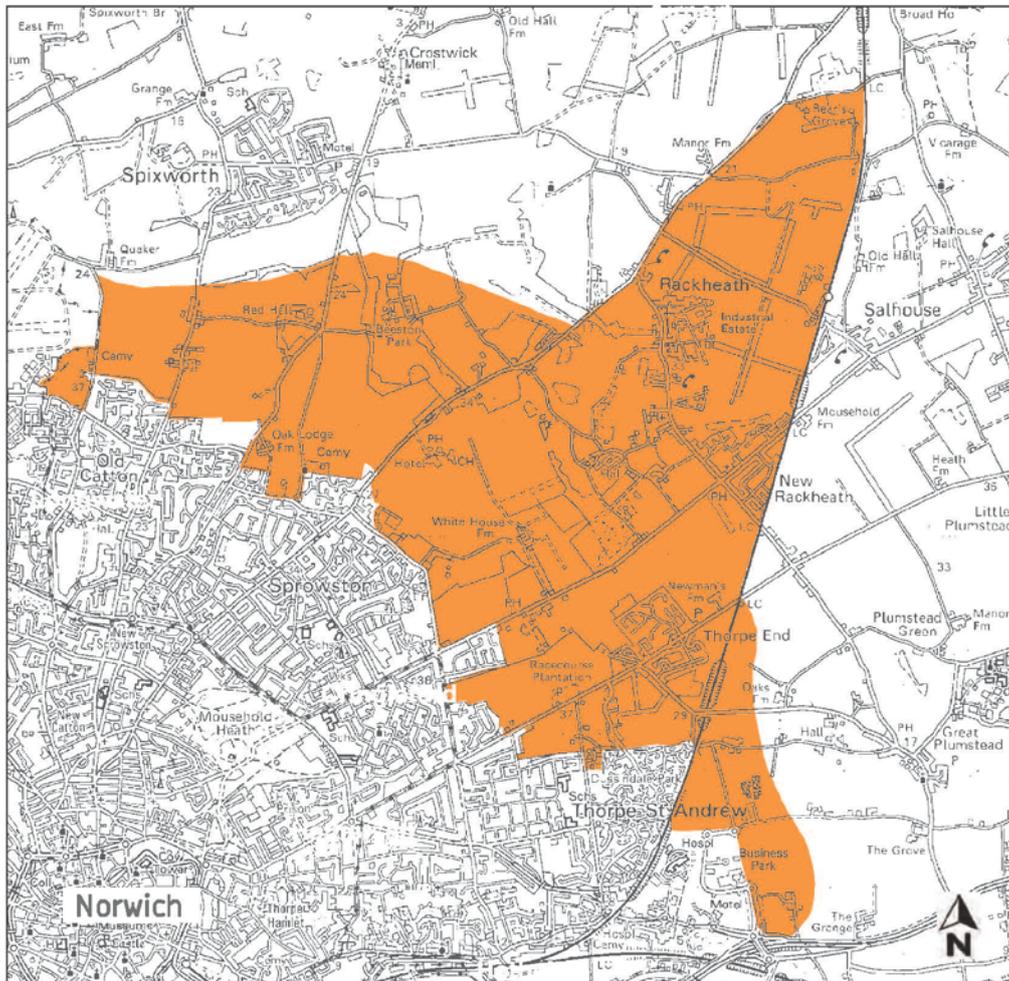
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Key

- Priority areas for Green Infrastructure
- Norwich urban area – additional opportunities for smaller scale Green Infrastructure throughout
- A Norwich to The Broads
- B Wymondham to Norwich
- C Water City
- D Five Rivers
- E Long Stratton to Norwich
- Growth locations
- Main towns and key service centres

Note: Other Green Infrastructure opportunities promoted throughout the Joint Core Strategy area.

## Old Catton, Sprowston, Rackheath, Thorpe St Andrew Growth Triangle



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