HIGHLAND HOUSING MARKET PARTNERSHIP ANALYSIS OF THE SENSITIVITY OF THE HNDA TOOL RESULTS TO CHANGING PARAMETERS

1. Introduction

- 1.1 The Housing Need and Demand Assessment (HNDA) Tool developed by the Scottish Government's Centre for Housing Market Analysis (CHMA) has been used to assess the total future housing requirement and the split between open market housing and housing that needs subsidy (affordable housing). Our HNDA relies on one chosen scenario but the tool has been contains a number of parameters that can be varied to look at the response to different socio-economic conditions. There are a large number of potential combinations of parameters so, to keep the analysis manageable, the approach used here has been to keep the basic set up constant – the HNDA scenario – and vary only one parameter at a time.
- 1.2 In attempting to better understand this a variety of tool runs were carried out some however were found to contain incorrect input data and are therefore ignored in this analysis
- 1.3 A selection of these are considered in this document with relevant commentary. The complete set of tool runs and Highland Wide results are included as an appendix to these documents.
- 1.4 This analysis concentrates upon the Highland Council Wide figures. The allocation by HMA although important to Highland Council is not covered in this comparative analysis.

2. Sensitivity Comparisons

- 2.1 Scenario 1 (Sc1) 2016 Principal Projection All Default Settings
- 2.2 Scenario 2 (Sc2) Change is to use the 2016 High Migration Projection over the Principal Projection

Comparison - Sc2 vs Sc1

The outcome of this change is an increase in year 1 - 2019 from 744 to 872 and by 2038 from 97 to 309. This is a increase in the 20 year total housing need of 3420 (from 6934 to 10354). This increase is all from the population driven housing need.

2.3 Scenario 3 (Sc3) - Change is to use the 2016 Low Migration Projection over the Principal Projection

Comparison – Sc3 vs Sc1

Outcome is a decrease in 2019 from 744 to 625 and by 2038 from 97 to -102309 (20 years). If we total the 20 year housing need we get a total of 3631. This however includes years from 2032 to 2038 where a negative housing demand is calculated. The total of only the positive years of housing demand (2019 to 2031) is a total of 3987. This is a decrease from 6934 (Sc 1 default Principal Projection) of 2947.

2.4 Scenario 4 (Sc4) used the High Migration Scenario. Change is instead of the default distribution of Household Need based upon Census 2011 derived residential property counts per HMA, uses the projected proportions of 16-64 age groups (representing likely household formers) to test a better distribution scenario.

Comparison – Sc4 vs S2

At Highland Wide level this change does not alter the Scenario 2 Highland Council area total figures (other than small rounding differences). Due to the different allocation of "arising need" to different HMAs (away from the default model that splits using historic dwelling counts – towards a better view of future need) – the HMA based tenure splits of the resulting need are also altered.

- In Caithness the Default approach High Migration Projection (Sc2) suggests a Social Rent tenure need of 36 per year (averaged over year 1-5) whereas using this method of allocation Caithness HMA suggests an average of 6 per year. For Private Buyers Sc2 suggests 30 per year for years 1 to 5 but "-26" in Scenario 4. This negative need is not catered for well in the tool – and the positive need total of 816 in years 1-5 in Scenario becomes 868 in Scenario 4 (which become 816 when the three negative HMA figures in years 1-5 are deducted).
- In contrast the Inverness HMA in Scenario 2 identifies a total of 275 per year (years 1 to 5) but the approach used in Scenario 4 allocates 534 per year to Inverness HMA.



Scenario 5 (Sc5) – 2016 High Migration Projection – All Default Settings. Change is 1% per year growth applied in Lochaber HMA only FOR 10 YEARS. Comparison – Sc5 vs Sc2

Applying growth figures only to the Lochaber HMA only increases the housing requirements in this HMA only. The total Highland Council Area wide in years 1-5 increases from 4077 to 4573 with this adjustment, in years 5-10 this increases from 2721 to 3038 Highland Wide. The next two 5 year periods as expected show no change.

2.6 Scenario 6 (Sc6) – 2016 High Migration Projection – Change is HC derived Existing Need allocated correctly to HMAs of 2144 (as used in 2015 HNDA) – not the default figure supplied 840 (split to HMA using Census 2011 Dwelling counts)– 1% per year growth applied in Lochaber HMA only.

Comparison – Sc6 vs Sc5

Using HC figure of 2144 over 840 increases (both applied to be cleared over 5 years) increases the backlog clearance or existing need year 1-5 figures Highland Council area wide from 168 per year to 429 per year. This increases the total for years 1-5 from 4573 to 5877 with only the Social Rent Tenure being affected – increasing from 1561 over 5 years (312 per year) to 2865 over 5 years (573 per year).

2.7 Scenario 7 (Sc7) – 2016 High Migration Projection – HC derived backlog of existing need allocated correctly to HMAs of 2144 (as used in 2015 HNDA) – not the default figure supplied 840 (split to HMA using Census 2011 Dwelling counts) – 1% per year growth applied in Lochaber HMA only. Change is to use 10 Years to clear backlog (instead of the default 5 years)

Comparison – Sc7 vs Sc6

The previously used backlog figure of 429 per year to be cleared is reduced to 214 per year when split over 10 years. Compared with Sc6 this decreases the totals for years 1-5 from 429 to 214 per year but extends this clearance into years 6-10. Total figures I all tenures for yrs 1 to 10 are 8915 in Sc 6 and Sc 7. The only changes are apparent in the Social Rent tenure for years 1 to 10 as the backlog of existing need is all allocated to that tenure.

HOUSING NEED AND DEMAND ASSESSMENT							
Key Findings Template: Estimate of Additional (New) Future Housing Units							
		Number of years to clear					
Total households with existing	[]	existing need					
need (net)	840 or 2144	5 or 10					
Unuskald Protonics Protod							
	Household Projection Period						
	Sc5- High Mig - Lochaber 1%	Sc6 - High Mig - Lochaber 1% - HC derived	Sc7- High Mig - Lochaber 1% - HC derived backlog				
Total number of new households		backlog 5 yrs	10 yrs				
over the projection period	10,327	10,327	10,327				
HNDA Projection Period							
		Mid 2020 to Mid 2039					
	ANNU	AL NEED - YEARS	1 TO 5				
Total hoursholds over the							
OWNER OCCUPATION	206	206	206				
PRIVATE RENT	200	200	200				
BELOW MARKET RENT	196	196	196				
SOCIAL RENT	312	573	359				
Total additional future	915	1,175	961				
• · · · · · · · ·	ANNUA	L NEED - YEARS	5 TO 10				
projection period who may afford:	Sconaria 5	Sconaria 6	Scenaria 7				
DEMATE DEMT	150	150	······································				
	()	169					
SOCIAL RENT		[]	()				
SOVINE NENT	1 141 1						
Total additional fators	·	·					
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- 2.8 (Scenarios 8 to 16 were attempts incorporating experimental approaches identifying backlog of need – a number used an erroneous (corrected from Scenario 17) bae figure for backlog calculation. A detailed analysis of these are not relevant for sensitivity testing and all used the 2016 High Migration projection.)
- 2.9 Scenario 17 (Sc17) used 2016 High Migration Projection and uses the final updated 1st April 2020 snapshot of the Highland Housing Register to create the backlog assessment described in Paper_1_Backlog_Definition_2020_HNDA. This results in a figure of 2236 to use as a backlog to clear. A 10 year period over which this is to be cleared is used.
- 2.10 Scenario 18 (Sc18) incorporates the updated 2018 High Migration Projection still using a base year of 2019. 10 years used to clear the same backlog of 2236.

Comparison – Sc17 vs Sc18

With the same figures for backlog clearance over 10 years – the only difference between these scenarios is the changed reference household projection (from "2016 based High Migration" in Sc 17 to "2018 based high migration" in Sc 18). The 20 year cumulative total for the 2016 projection (Sc17) is 9515 – reducing to 7968 in the 2018 projection (down 1547).

The big changes are a falls in all tenures in all years. The largest proportions are in owner occupation and Private Rental tenures in years 1 to 10 – then in all tenures in years 10 to 15 due to the changes in projected population/households.

HOUSING NEED AND DEMAND ASSESSMENT								
Key Findings Template: Es	timate of Additional (New	v) Future Housing Units						
		Number of years to clear						
	·	existing need						
Total households with existing need (net)	2,236	10						
	·	·						
Household Projection Period								
	2018/19 to 203	7/38 (Sc 17 and 18)						
	Sc17- High Mig - 2016 based -	Sc18 - High Mig_2018 based - HC derived						
Tableumber af an a barrachalda	HC derived backlog 10 yrs	backlog 10 yrs						
over the projection period	9,515	7,968						
HNDA Projection Period								
	2018/19 to 203	7/38 (Sc 17 and 18)						
Total households over the	ANNUAL NEEL	J- TEARS 1 10 5						
projection period who may afford: OWNER OCCUPATION	Scenario 17	Scenario 18						
		[]						
PRIVATE RENT		i <u> </u>						
BELOW MARKET RENT	168	149						
SOCIAL RENT	346	332						
Total additional future housing	071	790						
units	011	130						
		VEADS 5 TO 40						
Total households over the	ANNUAL NEED	- TEARS 5 10 10						
projection period who may afford: OVNER OCCUPATION	Scenario 17 125	Scenario 18 100						
PRIVATE RENT	1/15	(116						
FOR ALL DEN		,						
BELOW MARKET RENT	[]	[]						
SOCIAL RENT	348	322						
Total additional future housing	768	657						
units								
	ANNUAL NEED	- YEARS 10 TO 15						
Total households over the	0	0						
OVNER OCCUPATION	77	51						
PRIVATE RENT	95	71						
		[]						
	· · · · · · · · · · · · · · · · · · ·	·						
SOCIAL RENT	ii	[]						
Total additional future housing	389	283						
uiits								
	ANNUAL NEED	- YEARS 15 TO 20						
Total households over the projection period who <i>may</i> afford:	Scenario 17	Scenario 18						
OWNER OCCUPATION	53	49						
PRIVATE RENT	72	66						
BELOV MARKET RENT	97	89						
		[]						
JUCIAL NENT		JJZ						
Total additional future housing units	321	296						
	UMULATIVE TOTAL AT	END OF PROJECTION PERI						
Total households over the projection period who <i>may</i> afford:	Scenario 17	Scenario 18						
OWNER OCCUPATION	2,125	1,750						
PRIVATE RENT	2,495	2,090						
BELOV MARKET RENT	2,640	2,205						
	()	(/ 11E						
SUCIAL RENT	4,400	i 4,110						
Total additional future housing units	11,745	10,160						

- 2.11 Scenario 19 (Sc19) incorporates the updated 2018 High Migration Projection now using a base year of 2020. 10 years used to clear the same backlog of 2236
- 2.12 Scenario 20 (Sc 20) as above but uses the Low Migration projection
- 2.13 Scenario 21 (Sc 21) as above but uses the Principal Projection

Comparison of High, Principal and Low Migration projections – Sc19, Sc20 and Sc 21 The three different projections suggest 20 year forward projections of need arising from changes in population and household formation of 7806 (High Migration), 6324 (Principal Projection) and 4937 (Low Migration). These three scenarios otherwise have exactly the same input parameters into the tool – clearing a backlog of 2236 households over 10 years. Obviously this leads to significantly more social and below market rent tenure properties in years 1 to 10.

Annual need figures in years 1-5 range from 714 to 806 depending on projections (224 of these being backlog clearance – typically in social rent tenure).

Over 20 years – accepting clearance of backlog in 10 years – the High Migration projection suggests a cumulative total of need and demand of 10035.

2.14 Scenario 22 (Sc 22) – as Scenario 19 using the High Migration Projection, 10 year period for backlog clearance and additional in year need incorporated, as described in "Paper 2 – In Year Need". This includes an additional need of 194 households per year and forms the HNDA figure. This additional need is all expected to require social rent and below market rent tenure.

2.15 Comparison of Scenario 22 and Scenario 19.

Both scenarios are identical using the NRS 2018 based High Migration projection and a start year of 2019/20. The table below shows the annual need (averaged over each 5 year group). In Scenario 22 – of the 194 additional "in year arising need" – 60 is allocated to "Below Market Rent" and 134 to "Social Rent" (the same proportions as applied by the HNDA tool.). This additional need is added over the full period of the projection.

The overall future housing units need for this scenario over 20 years is 13,915 units, compared to the total of 10,035 from Scenario 19 without this additional factor applied.

HOUSING NEED AND DEMAND ASSESSMENT								
Key Findings Template: Estimate of Additional (New) Future Housing Units								
		Number of years to clear existing need						
Total households with existing need (net)	2,236	10						
	Household Projection Period							
	[Period 2019/						
	Scenario 19	Scenario 20	Scenario 21	Sc 22 - with "In year need" as used in this				
Total number of new households over the projection period	7,806	4,937	6,324	7,806				
	HNDA Projection Period							
	2019/20 to 2039/39 (So 19 to 22)							
			VEADS 4 TO 5					
Total households over the projection period who <i>may</i> afford:	Scenario 19	Scenario 20	Scenario 21	Scenario 22				
	153	129	140	153				
		l/	1					
BELUY MARKET RENT	151	127	138	211				
SUCIAL NENT		310	324	400				
units	806	714	756	1,000				
ANNUAL NEED - YEARS 5 TO 10								
Total households over the projection period who <i>may</i> afford:	Scenario 19	Scenario 20	Scenario 21	Scenario 22				
OWNER OCCUPATION	90	59	74	90				
PRIVATE RENT	104	68	86					
BELOV MARKET RENT	107	70		167				
SOCIAL RENT	312	281	296	446				
Total additional future housing units	613	478	544	807				
ANNUAL NEED - YEARS 10 TO 15								
Total households over the projection period who <i>may</i> afford:	Scenario 19	Scenario 20	Scenario 21	Scenario 22				
OWNER OCCUPATION	57	26	41	57				
PRIVATE RENT			51	71				
BELOV MARKET RENT	84	38	61	144				
SOCIAL RENT	· · · · · · · · · · · · · · · · · · ·		55	211				
Total additional future housing units	289	130	208	483				
	ΔΝΝΙΙΔΙ ΝΕΕΟ - ΥΕΔΩS 15 ΤΟ 20							
Total households over the projection period who <i>may</i> afford:	Scenario 19	Scenario 20	Scenario 21	Scenario 22				
OWNER OCCUPATION	49	19		49				
PRIVATE RENT	67	25	46	[67]				
BELOV MARKET RENT	90	34	61	150				
SUCIAL RENT	·		63					
units	299	113	204	493				
CUMULATIVE TOTAL AT END OF PROJECTION PERIOD								
Total households over the projection period who <i>may</i> afford:	Scenario 19	Scenario 20	Scenario 21	Scenario 22				
OWNER OCCUPATION	1,745	1,165	1,445	1,745				
PRIVATE RENT	1	1,335	1,685	2,050				
BELOV MARKET RENT	2,160	1,345	1,740	3,360				
SOCIAL RENT	4,080	3,330	3,690	6,760				
i otal additional future housing units	10,035	7,175	8,560	13,915				

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