

# TE AHO TĀHUHU

### the Progressive Home Ownership Webinar Series

### Financial Modelling Robert Macbeth, Te Puni Kōkiri







### OUTLINE

- Context: Te Ara Mauwhare:
  Pathways to Home Ownership
  Trials
- Two pronged approach to financial modelling:

"balancing the need for the houses to be affordable to the target whānau cohort with the need for the development of the houses to be financially viable for the rōpū"

- Whānau safeguards and modelling their outcomes
- Kaitono modelling for financial viability



Key Takeaways



### **TE ARA MAUWHARE: PATHWAYS TO HOMEOWNERSHIP**

- Six trials underway is delivering up to 70 new homes for whānau to purchase under rent-toown and shared ownership models.
- Rent to Own
  - He Korowai Trust in Kaitaia 8 homes
  - Te Tihi o Ruahine Whānau Ora Alliance in Papaioea - 10 homes
  - Chatham Islands Housing Partnership
    Trust on Wharekauri 5 homes
- Shared Ownership
  - Port Nicholson Block Settlement Trust in Wainuiomata - 15 homes
  - Te Taiwhenua o Heretaunga in Flaxmere -10 to 15 homes
  - Ka Uruora Housing Trust in Taranaki 20 homes





### **MODELLING FOR, AND SAFEGUARDING, WHĀNAU**

- Financial capability Sorted Kāinga Ora (mandatory)
  - Recognises a duty to ensure that whānau were not put at risk from participating in what could be a complex financial arrangement
  - Recognises that whānau need time and navigation support to prepare for PHO

### Caps and safety nets

- Keep it simple overseas examples emphasise that the more complexity, the more risk of whānau disadvantage but with readily understandable and transparent legal agreements
- Lock in basic protections (eg deposits returnable, guarantees, house prices at purchase, equity shares and limiting liabilities etc)
- Modelling the 'what if' questions (eg what happens if house values fall, if the household has to exit etc?)



Year 1					Contraction of the second			1000 C 1000 C	1.		
		Perweek	Annual		1. Loan principa	al repayment is	considered 'e	quity transfer"			
Household Payment		\$ 460			2. Capital appro	eciation equals	s cost growth a	ssumption.			
				3. Household p	ayment increa	ses by annual	cost growth as	sumption			
To Ropu for operating costs ('Rent')		\$ 318	\$ 16,531								
To Ropu as loan payment 'on behalf'		\$ 68	\$ 3,562								
Whinau savings		\$ 90	\$ 4,680								
		\$ 476	\$ 24,773								
Variation		\$ 16	\$ 853								
Whānau Rent to Buy Impact		Annual for	ecast								
After Yea	r (Outset)	1	2	3	4	5	6	7	8	9	10
Household Weekly payment	460	460	460	460	460	460	469.20	478.40	487.60	496.80	506.00
Household Annual payment	100	23,920	24,398	24,886	25,384	25,892	26,410	26,938	27,477	28,026	28,587
nousenoio Annual payment		23,920	24,390	24,000	23,304	23,092	20,410	20,930	21,411	20,020	20,501
House value - cost based plus rgrowth	363,400	370,668	378,081	385,643	393,356	401,223	409,247	417,432	425,781	434,297	442,983
	363,400	363,400	363,400	363,400	363,400	363,400	363,400	363,400	363,400	363,400	363,400
House value straight line cost											
Loan principal apportioned to Household	170,000	166,438	162,698	158,771	154,648	150,318	145,772	140,999	135,987	130,724	125,199
Household equity as loan principal repayment	0	3,562	3,740	3,927	4,123	4,330	4,546	4,773	5,012	5,263	5,526
	0		4,774								
Household equity as savings accumulation		4,680		4,869	4,966	5,066	5,167	5,270	5,376	5,483	5,593
Total Household Equity Build	0	8242	8514	8796	9090	9395	9713	10044	10388	10746	11119
Accumulating Household equity		8,242	16,756	25,552	34,641	44,037	53,750	63,794	74,181	84,927	96,046
Ropu equity \$ Household Equity \$ Ropu equity % Houshold equity %	363,400 0 100% 0%	355,158 8,242 97.73% 2.27%	346,644 16,756 95.39% 4.61%	337,848 25,552 92.97% 7.03%	328,759 34,641 90.47% 9.53%	319,363 44,037 87.88% 12.12%	309,650 53,750 85.21% 14.79%	299,606 63,794 82.45% 17.55%	289,219 74,181 79.59% 20.41%	278,473 84,927 76.63% 23.37%	267,354 96,046 73.57% 26.43%
Rent to Buy Option 2 Buy at cost, principal payments to roopu, ca	pital increa	ses to hous	ehold								
Ropu equity \$	363,400	358,720	353,946	349,077	344,111	339,045	333,878	328,608	323,232	317,748	312,155
Household Equity \$	0	11,948	24,135	36,566	49,245	62,178	75,369	88,825	102,549	116,548	130,827
Ropu equity %	100.00%	96.78%	93.62%	90.52%	87.48%	84.50%	81.58%	78.72%	75.92%	73.16%	70.47%
Houshold equity %	0.00%	3.22%	6.38%	9.48%	12.52%	15.50%	18.42%	21.28%	24.08%	26.84%	29.53%
Houshold equity he	0.00%	316679	0.3078	3.4070	12-3279	10.0070	10.4279	21.2079	24.0078	20.0479	29.3376
Rent to Buy Option 3 Buy at cost, principal payments & 75% of ca	pital increa	ases to hous	ehold								
Deau anihi t	262 400	355 035		242 400	225 240	220.010				206 107	202.254
Ropu equity \$	363,400	356,975	350,315	343,409	336,248	328,819	321,112	313,114	304,814	296,197	287,250
Household Equity \$	0	13,693	27,767	42,234	57,108	72,404	88,135	104,318	120,967	138,100	155,733
Ropu equity %	100.00%	96.31%	92.66%	89.05%	85.48%	81.95%	78.46%	75.01%	71.59%	68.20%	64.84%
Houshold equity %	0.00%	3.69%	7.34%	10.95%	14.52%	18.05%	21.54%	24.99%	28.41%	31.80%	35.16%
Rent to Buy Option 4	apital incre	eases to hou	sehold								
Buy at cost, 100% of principal payments & o											
	362 400	355 159	346 644	337 949	328 750	310 363	300 650	200 606	289 210	278 472	267.25
Ropu equity \$	363,400	355,158	346,644	337,848	328,759	319,363	309,650	299,606	289,219	278,473	
Ropu equity \$ Household Equity \$	0	15,510	31,437	47,795	64,597	81,860	99,597	117,826	136,562	155,824	175,629
Ropu equity \$											267,354 175,629 60.35% 39,65%



### **MODELLING THE FINANCES**

## Project cashflow (standard construction project)

- If you are building houses, you need capital from the outset – you are likely to need to drawdown on PHO (be clear on the proposed drawdowns) or bank finance. What about land acquisition costs?
- Need to cashflow out construction to completion – revenue will only occur on 'sale', or 'tenanting' (in the case of rent to own). If bank finance, the interest will capitalise into the cost of the house
- Need strict cost control if the aim is to sell houses in the \$500-\$600k range, construction costs will be challenging

	ProjectTD to 31 Ja	an 2020	February	Ma	irch	April	M	lay	June	Jul	У
Income											
ТРК	\$ 45	0,000.00	\$ 530,000.00			\$ 280,000.0	0		\$ 240,000.00		
Capital Investor 1											
Capital Investor 2											
Other capital				\$1	1,000,000.00				\$ 300,000.00		
Bank							\$	ş -			
Philanthropy			\$ -	\$	-	\$ -	\$	s -	\$ -	\$	-
Whanau rent											
							\$		\$ -	\$	-
							\$	5 -	\$ -	\$	
Total Income	\$ 45	0,000.00	\$ 530,000.00	\$1	1,000,000.00	\$ 280,000.0	0 \$	s -	\$ 540,000.00	\$	-
Support Costs											
Project management	\$	-	\$ 8,333.33	\$	8,333.33	\$ 8,333.3	3 \$	\$ 8,333.33	\$ 8,333.33	\$	8,333.33
Other - internal costs	\$ 12	9,058.00	\$ 7,692.31	\$	7,692.31	\$ 7,692.3	1 \$	5 7,692.31	\$ 7,692.31	\$	7,692.31
Other											
Total support costs	\$ 12	9,058.00	\$ 16,025.64	\$	16,025.64	\$ 16,025.6	4 \$	5 16,025.64	\$ 16,025.64	\$	16,025.64
Gross profit	\$ 32	0,942.00	\$513,974.36	\$	983,974.36	\$ 263,974.3	5 -\$	\$ 16,025.64	\$ 523,974.36	-\$	16,025.64
Build costs											
Land	\$ 28	0,000.00		\$	363,000.00						
Subdivision costs incl titles			\$ 13,800.00								
Civil works			\$ 33,484.17	\$	33,484.17	\$ 33,484.1	7		\$ 25,300.00	\$	25,300.00
Consents etc			\$ 6,635.50								
Build 1: 3 bed						\$ 61,750.0			\$ 61,750.00		61,750.00
Build 2: 3 bed						\$ 61,750.0	0 \$	\$ 61,750.00	\$ 61,750.00	\$	61,750.00
Build 3: 3 bed						\$ 61,750.0	0 \$	61,750.00	\$ 61,750.00	\$	61,750.00
Build 4: 4 bed						\$ 69,500.0	0 \$	\$ 69,500.00	\$ 69,500.00	\$	69,500.00
Build 5: 5 bed						\$ 70,750.0	0 \$	\$ 70,750.00	\$ 70,750.00	\$	70,750.00
Build 6											
Build 7											
Build 8											
Build 9											
Build 10											
Contigency						\$ 51,000.0	5	\$ 26,000.00	\$ 63,000.00		
Total build costs	\$ 28	0,000.00	\$ 53,919.67	\$	396,484.17	\$ 409,984.1	7 \$	\$ 351,500.00	\$413,800.00	\$3	350,800.00
Gross profit 2	\$ 4	0,942.00	\$460,054.69	\$	587,490.19	-\$ 146,009.8	1 -\$	\$ 367,525.64	\$ 110,174.36	-\$3	366,825.64
Other costs											
		002.00	¢ 5 000 00				-				



### **MODELLING THE FINANCES**

### Post transaction cashflow

- Shared ownership is reasonably easy just ensuring holding costs are covered and the modelled 'buy-back' revenue is sufficient to meet the obligatory repayment of the PHO debt (TAM was a grant so the modelling is based on reinvestment)
- Rent to own is more complex requires a standard PVAT Operating cashflow model, linked with debt servicing and principal repayment at structured periods. Also provisioning for any buyback or repayment terms to the whānau!

#### Whare Kainga Papakainga Forecast Profit and Loss

Year	1	2	3	4	5	6	7	8	9	10
Operating income (less cont for arrears/vac)	237,796	240,576	245,387	250,295	255,301	260,407	265,615	270,928	276,346	281,873
Management fee (retained for internal costs)	(18,945)	(19,324)	(19,710)	(20,104)	(20,506)	(20,916)	(21,335)	(21,761)	(22,197)	(22,641)
External Operating Costs	(49 <mark>,</mark> 500)	(50,490)	(51,500)	<mark>(</mark> 52,530)	(53,580)	(54,652)	(55,745)	(56,860)	(57,997)	(59,157)
Financing cost (Interest)	(85,000)	(83,219)	(81,349)	(79,386)	(77,324)	(75,159)	(72,886)	(70,499)	(67,993)	(65,362)
Net profit/(loss) before tax	84,351	87,543	92,829	98,276	103,891	109,680	115,649	121,807	128,159	134,713
Taxation	-	-	-	-	-	-	-	-	-	-
Net profit after tax	84,351	87,543	92,829	98,276	103,891	109,680	115,649	121,807	128,159	134,713
Capital expenditure reserve (4% of gross income)	(7,413)	(7,561)	(7,713)	(7,867)	(8,024)	(8,185)	(8,348)	(8,515)	(8,686)	(8,859)
Loan principal repayments	(35,619)	(37,400)	(39,270)	(41,234)	(43,295)	(45,460)	(47,733)	(50,120)	(52,626)	(55,257)
Net cashflow	41,319	42,582	45,846	49,175	52,571	56,035	59,568	63,172	66,847	70,597
Credit reserve funding	48,732	50,143	53,558	57,042	60,595	64,220	67,916	71,687	75,533	79,456
Accumulated capital reserve towards houses	48,732	98,875	152,434	209,476	270,071	334,291	402,207	473,894	549,427	628,883
Whānau savings in trust or for Kiwisaver	46,800	47,736	48,691	49,665	50,658	51,671	52,704	53,758	54,834	55,930
Accumulated Whānau savings in trust (no r)	46,800	94,536	143,227	192,891	243,549	295,220	347,924	401,683	456,517	512,447

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### **KEY TAKEAWAYS**

- Model the impact on whānau ask the 'what if' questions [Whānau first]
- Need to cashflow the construction period – how will the houses be paid for before you 'transact' them to the household
- Need to cashflow the long term
  viability for the kaitono there has
  to be some sharing of equity





### **CONTACTS**

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### Te Tūāpapa Kura Kāinga

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He kāinga ora, he hapori ora - our purpose is thriving communities where everyone has a place to call home.

