EVENING THE ODDS

MODELLING WELLBEING TO DRIVE BETTER OUTCOMES

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Disclaimer

ORANGA TAMARIKI
Ministry for Vulnerable Children

New Zealand's Children: The Case for Change

- Children and young people referred to CYF are living in families with multiple and complex needs.

  36% had parents known to CYF

- Māori children are disproportionately represented.

  6 out of 10 children in statutory care are Māori

- Vulnerable children experience repeat referrals and further trauma.

  Those with previous CYF interaction are less likely to achieve at school, and reach independence later in life from benefits and the justice system

Making Measurement Useful

- Modelling **all** children

Providing a tool to determine scope, not prejudging, and understanding flows in and out of scope.

- **Wellbeing**, not liability

Speak the language of frontline, and provide a measure that helps decision makers take action.

- Recognition that **wellbeing is complex**

Cross-sector data and interactions required – wellbeing can't be understood just from engagements with us.

- Consider the **present** as well as the **future**

Help the business support immediate needs, as well as setting families up for the future.

Three Areas of Activity

The wellbeing work is focussed across three areas of activity:

- **Conceptual Wellbeing**

- **Current State Wellbeing**

- **Wellbeing and Activity Projections**

Conceptual Wellbeing

The conceptual wellbeing construct provides a theoretical backbone to our use of wellbeing

- **Safety** – both being and feeling **safe from harm**

- **Security** – having appropriate access to **financial and social resources**

- **Stability** – understanding who they are, where they belong, and their **connection to culture**

- **Wellness** – both **physically and emotionally healthy** and free from trauma

- **Development** – equipped with the **skills they need to be independent** and meet their aspirations

Why Wellbeing?

Policy

Future Fiscal Spend

Ministers and System

Measuring outcomes

Understanding the population

Service Evaluation

Assessing need

Research and Evaluation

Frontline

Service provision

Contracting for Outcomes

NGO Sector

Funding

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DEVELOPMENT WELLNESS

SAFETY STABILITY
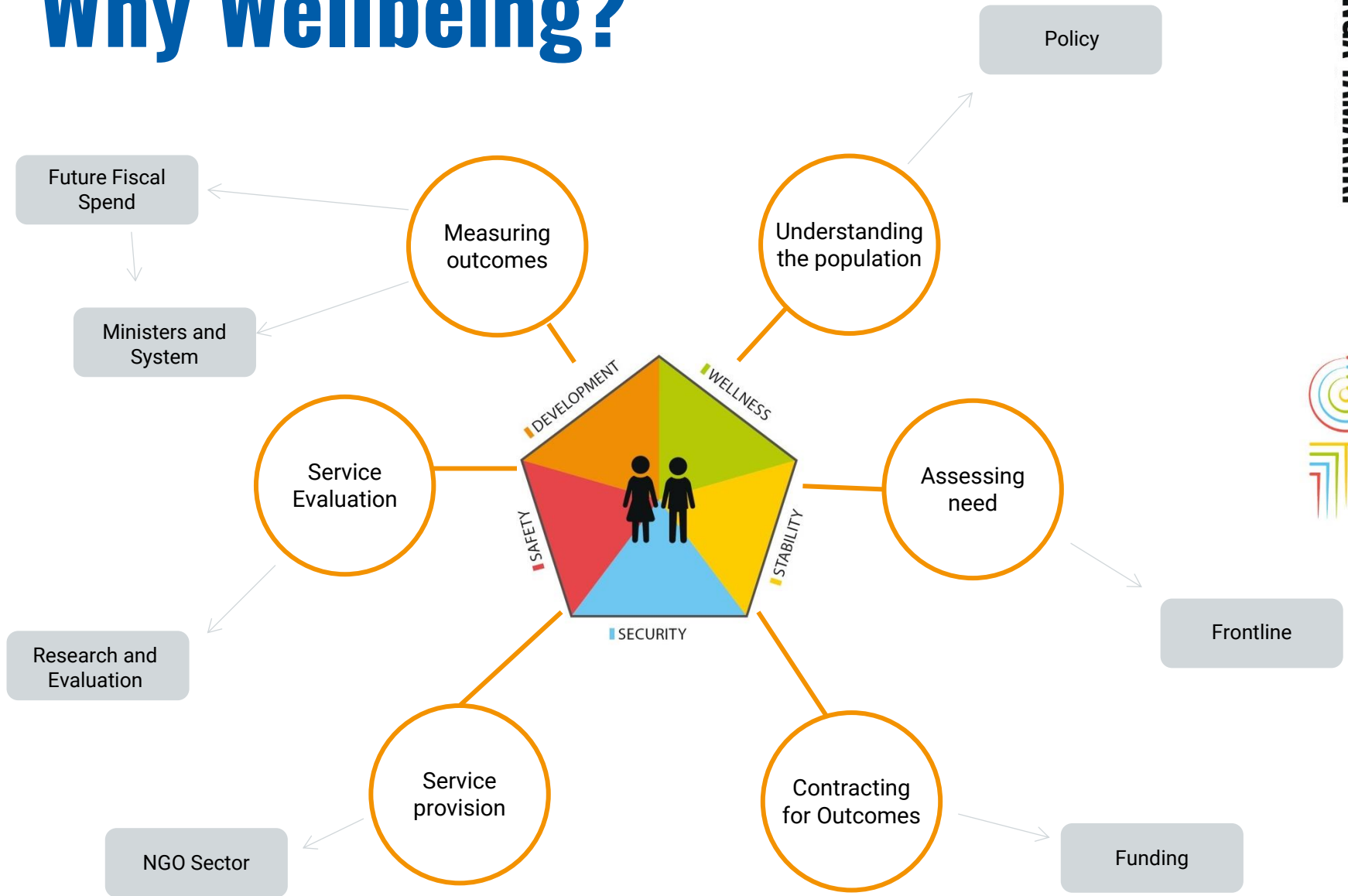
SECURITY

Current State Wellbeing

Measuring proxies aims to give us an understanding of each New Zealand child's wellbeing, in the context of them, their family, and their broader community.

- **Safety** – family violence, notifications, injuries…
- **Security** – social housing register, benefit history…
- **Stability** –
- **Wellness** – family chronic conditions, mental health…
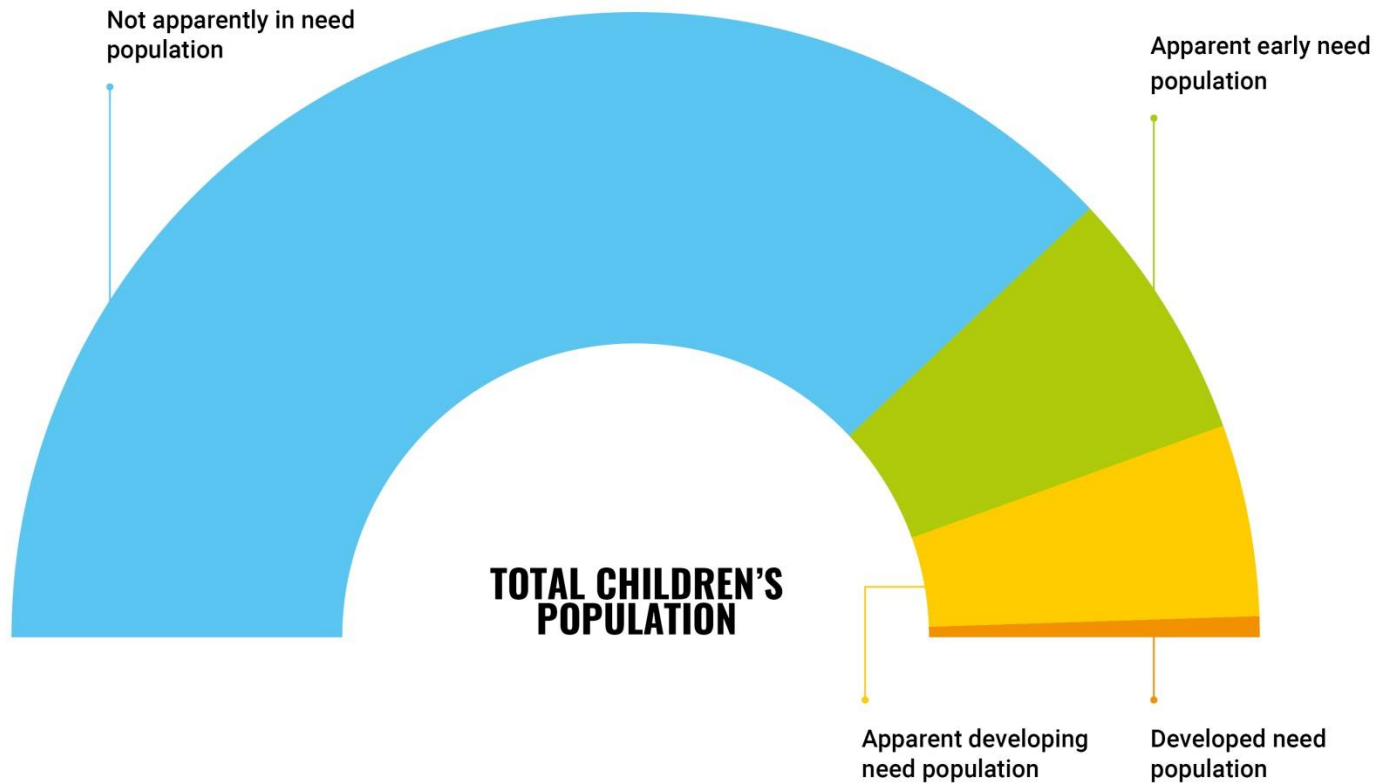- **Development** – school changes, truancy, achievement…

Measuring Wellbeing

Variable	Description	Flag	Source Year	Age																							
				0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
fac_w0teenparents_cil	child is teenage parent - personal, lifetime	flag = 4 if w0teenpreg_cil + w0teenpat_cil = 1	1998+																										
fac_w3sochousing_oip	in social housing	flag = 2 if w3sochousing_oip = 1	1998+																										
fac_w3pubhousing_otr	child / young person was on social housing register over the last year: 1 if priority A 2 if priority B 3 if not on register or not priority A/B (Note: you can be both a tenant in social housing and on register - e.g. if needing another house due to overcrowding / health)	flag = 4 if w3pubhousing_otr = 1 flag = 2 if w3pubhousing_otr = 2 flag = 0 if w3pubhousing_otr = 3	1998+																										
fac_w0numsib_ocl	number of siblings	flag 0 if w0numbsil_ocl <= 3 flag 2 if w0numbsil_ocl = 4, 5, 6 flag 4 if w0numbsil_ocl >= 7	1998+																										
fac_w3daysonben_ccr	days on benefits (adult) - personal, over the last year	flag = 1 if w3daysonben_ccr in [1,92] flag = 2 if w3daysonben_ccr in [93,184] flag = 3 if w3daysonben_ccr in [185,276] flag = 4 if w3daysonben_ccr in [277,366]	1993+																										
fac_w3proplifeben_ccl	proportion of lifetime on benefits - personal	flag = 1 if w3proplifeben_ccl in [1, 25] flag = 2 if w3proplifeben_ccl in [26, 50] flag = 3 if w3proplifeben_ccl in [51, 75] flag = 4 if w3proplifeben_ccl in [76, 100]	1993+																										
fac_w0addchg_ocr	number of address changes over the year	flag = w0addchg_ocr maximum = 4	1993+																										
fac_w0teenpreg_pil	teenage pregnancy - parent, lifetime	flag if w0teenpreg_pil = 1	1998+																										
fac_w3proplifeben_pcl	proportion of lifetime on benefits - parents	flag 1 if w3proplifeben_pcl in [1, 75] flag 2 if w3proplifeben_pcl in [76, 100] double the scale for age 0-4 (i.e. 2 or 4 instead of 1 or 2)	1993+																										
fac_w3recben_pir fac_w3slp_pir fac_w3singpar_pir	Parent/caregiver recently on benefit, on single parent or supported living support	flag 2 if w3recben_pir + w3slp_pir + w3singpar_pir = 1 flag 4 if w3recben_pir + w3slp_pir + w3singpar_pir > 1	1993+																										

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Number of variables	8	8	8	8	8	8	8	8	8	8	7	7	7	8	8	8	9	9	7	7	7	7	7	7	7	7
Maximum factor score	28	28	28	28	28	27	27	27	27	27	26	26	26	30	30	30	34	34	26	26	26	26	26	26	26	26
Cut-off score: 1	4	8	8	8	8	7	7	6	6	6	5	5	5	5	5	4	4	4	3	4	4	4	4	4	4	4
Cut-off score: 2	10	12	12	12	12	11	11	10	10	10	10	10	10	9	9	9	9	9	7	9	9	9	9	9	9	9

Child Wellbeing – 30 June 2016

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Not apparently in need population

Apparent early need population

TOTAL CHILDREN'S POPULATION

Apparent developing need population

Developed need population
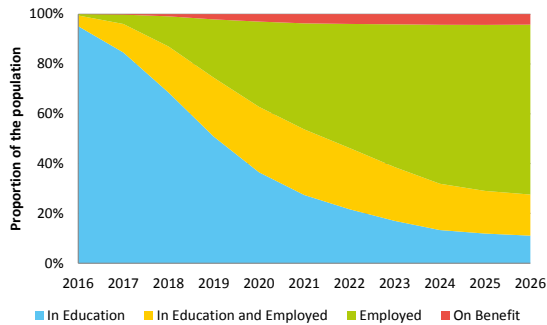
Projection Model

The current state measure of wellbeing is then combined with additional risk and resilience factors to project and scenario test the population forward across a range of outcomes:

- **Wellbeing Domains** – quarterly through age 25
- **Employment / Benefit** – transitions 16-24, reliance 25-64
- **Youth Justice** – until age 16
- **Justice / Corrections** – offending 17-24, lifetime usage
- **Health** – five factors (mental health, hazardous substances, reproductive health, infections, injury), plus obesity

Employment Projections

Multiple Disadvantage
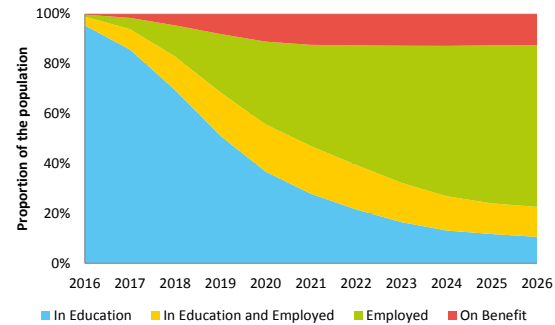
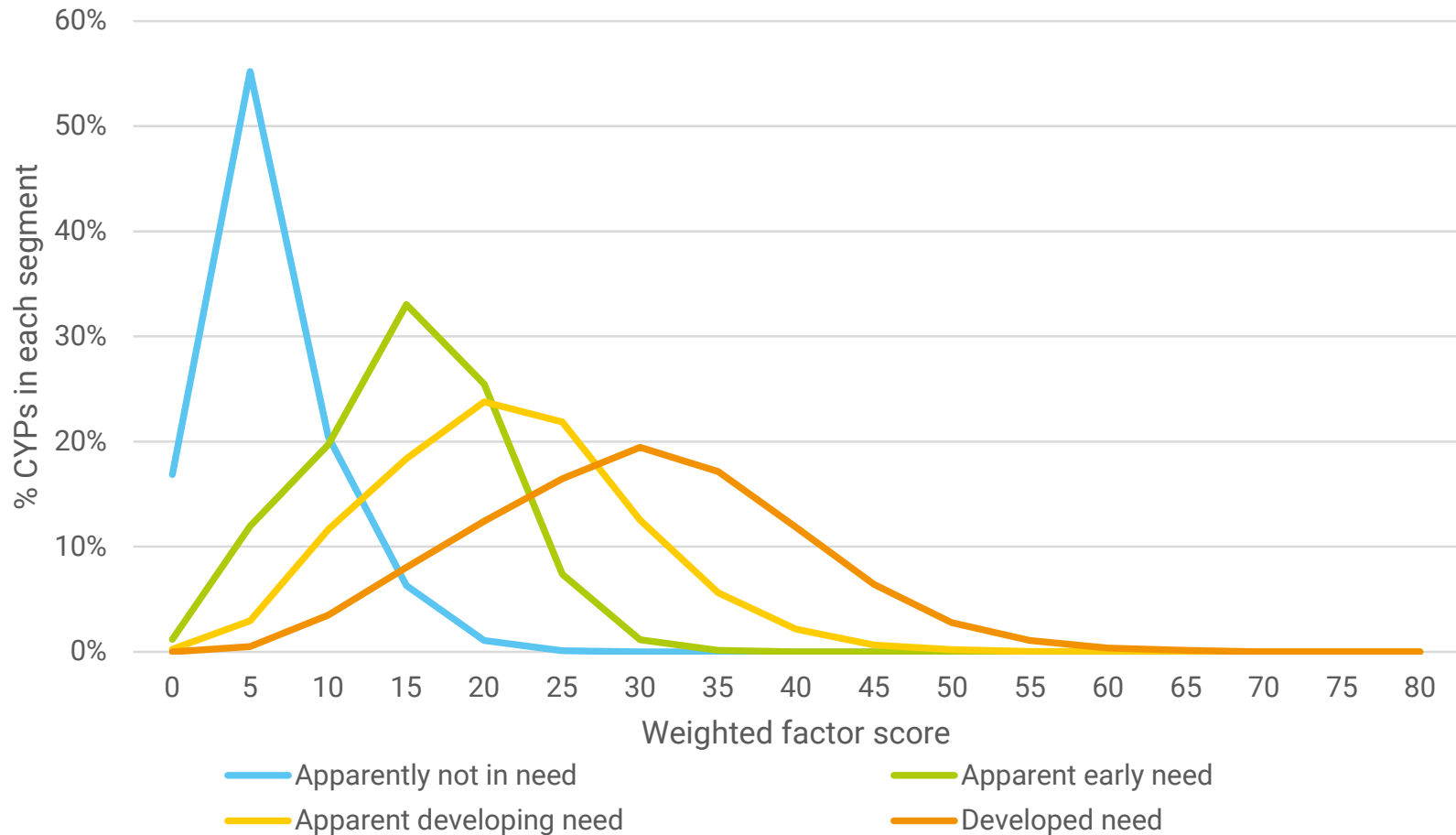Chart: Y-axis "% CYPs in each segment" (0% to 60%), X-axis "Weighted factor score" (0 to 80). Legend: Apparently not in need, Apparent early need, Apparent developing need, Developed need.
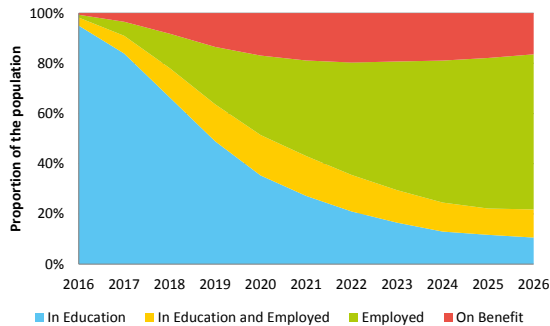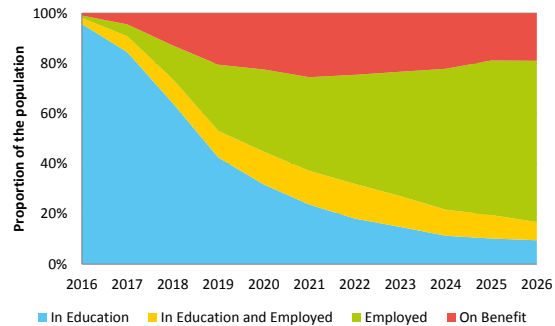
Next Steps

Still a long way to go, in all three areas

- **Conceptual Wellbeing** – Ongoing development with the business and sector, deployment within assessment

- **Current State Wellbeing** – Build of stability domain, community profiles, new data and indicators (eg. income)

- **Projection Model** – Tighter integration of other sector modelling, projecting individuals connected in a family