

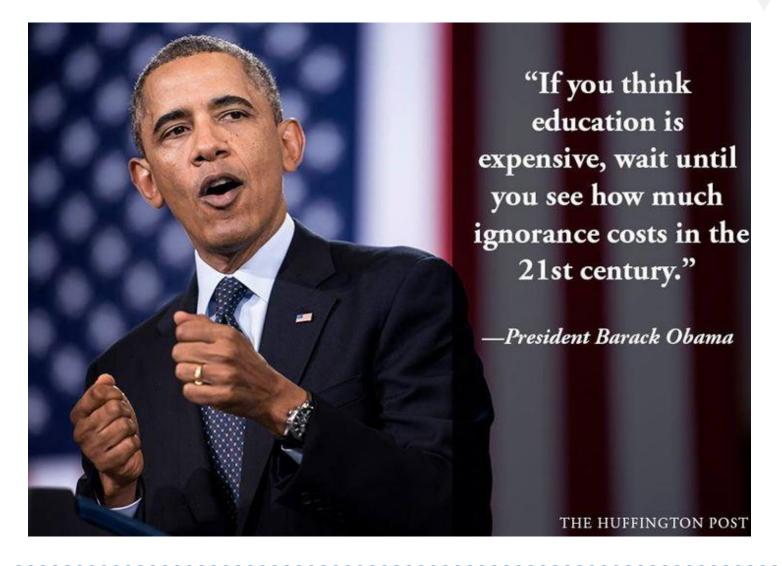


Social outcomes from Education

MOE: Investing since 1877

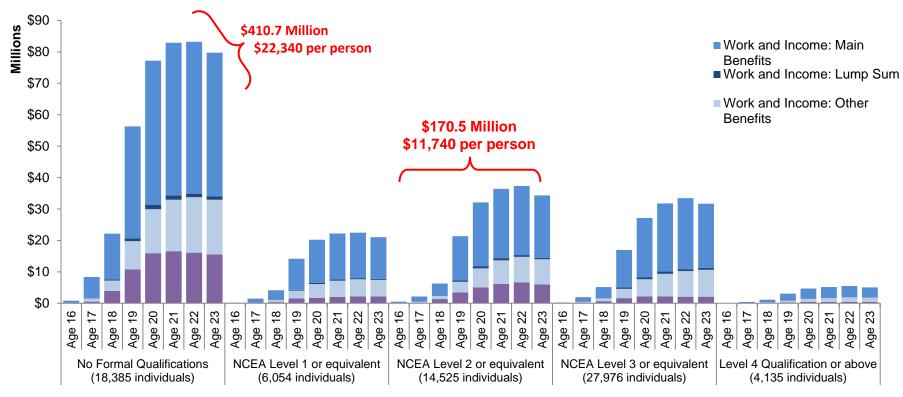
Presenter: Damian Edwards

The cost of education...



The cost of not being educated

The cost to the state of non-achievement increases as those who have left the education system with no qualifications progress through their lives



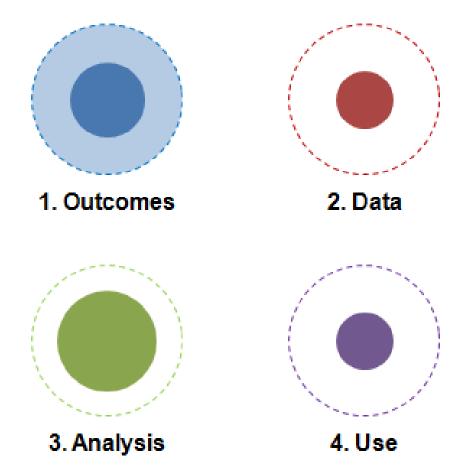
Total 90/91 cohort: 71,075 individuals, \$810.5 Million in Welfare & Corrections costs between Ages 16 & 23

Education: The great equaliser.

"Education then, beyond all other devices of human origin, is a great equaliser of the conditions of men – the balance wheel of the social machinery"

> - Horace Mann, pioneering American educator, 1848

Where are we at?



For Example: We carefully formulate school funding...



...and give it to schools.



Schools choose how to spend it...



Using IDI admin indicators, can we better identify those "at-risk" of not achieving?

High Marginal Contribution	Medium Marginal Contribution	Low Marginal Contribution
 Proportion of time spend supported by benefit since birth Child has a CFY care and protection notification Sex Mother's age at child's birth Father's offending and sentence history 	 Asian (positive factor) Benefit Mother unqualified Proportion of time spend overseas since birth Mother's average earned income over previous five years Maori Country of Birth Father's average earned income over previous five years 	 Migrant category / NZ born Number of children (Mother) Mother received third tier benefits Most recent male caregiver is not the birth father Pacific

School achievement by size and "at-risk" – secondary schools

	% of "at-risk" students in school												
	0-5%	5-10%	10- 15%	15- 20%	20- 25%	25- 30%	30- 35%	35- 40%	40- 45%	45- 50%	50- 55%	55%+	
School size													Total
1-200		3/5		0/2		0/1	0/1	0/1	1/1		1/2	1/4	6/17
201-400	6/6	3/6	0/2	3/11	2/3	0/7	0/5	1/5	1/4	0/3	0/4	0/6	16/62
401-600	5/5	8/14	2/7	0/5	0/9	0/3	0/3	0/1	0/2	0/4	0/1	0/3	15/57
601-800	10/10	6/6	3/6	3/6	0/5	0/6	0/6	0/5	0/3	0/2		0/1	22/56
801-1000	3/3	3/5	5/7	0/9	1/3	1/1	0/1	0/2	0/2	0/1			13/34
1001-1200	5/5	3/4	2/6	0/1	0/1	0/1	0/2						10/20
1201-1400	2/2	5/5	0/4	4/8	0/2	0/3		0/1					11/25
1401-1600	2/2	0/1	3/5	3/4	0/1		0/2	0/2			0/1		8/18
1601-1800	2/2	1/2	3/3	0/2									6/9
1801-2000		3/4	0/3		0/2								3/9
2001-2200	2/2			0/1					0/1				2/4
>2201	3/3	2/2	1/1	1/2									7/8
Total	40/40	37/54	19/44	14/51	3/26	1/22	0/20	1/17	2/13	0/10	1/8	1/14	119/319

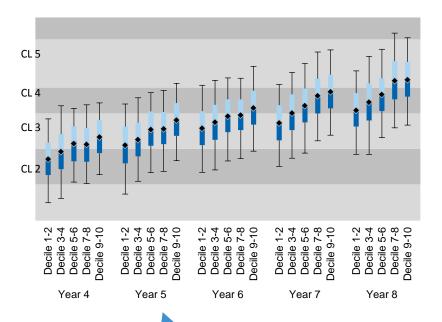
	0%	1%-33%	34%-65%	66-99%	100%
Legend					

Achievement is not equitable, but progress is similar...



Achievement

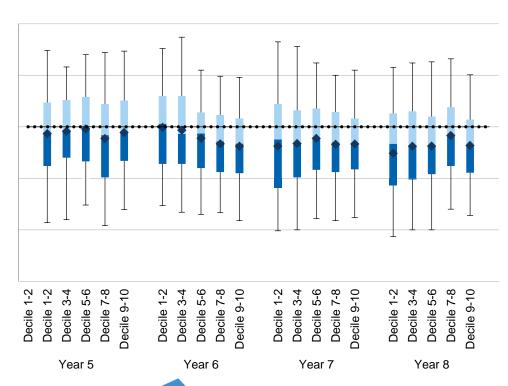
(e-asTTle research dataset 2015)



The difference in average achievement between students in deciles 1-2 schools and students in deciles 9-10 schools is more than half a curriculum level.

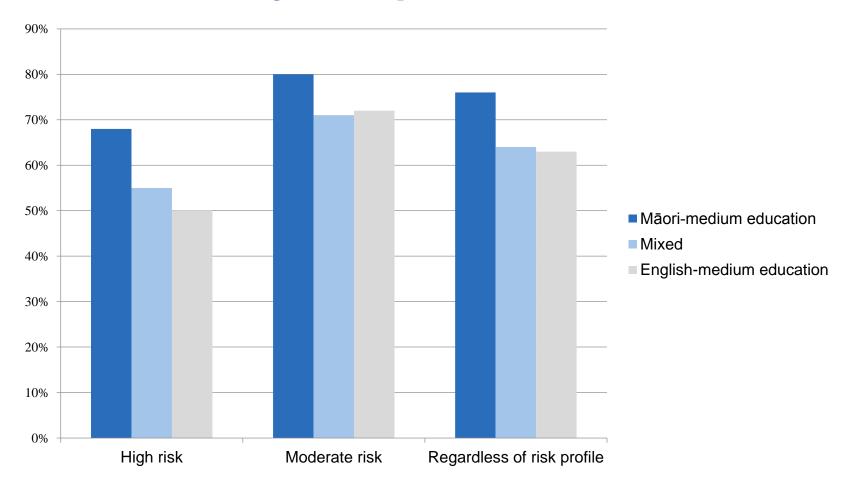
Progression

(e-asTTle research dataset 2014-15)



The differences seen in the distribution of achievement between student subgroups cannot be observed in the progress distributions

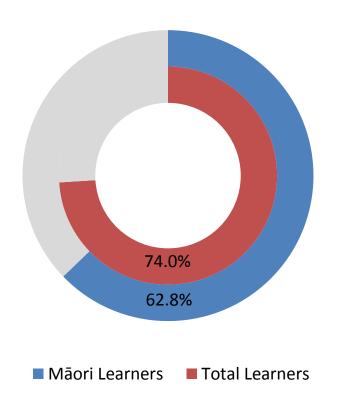
Maori students NCEA L2 attainment by risk profile



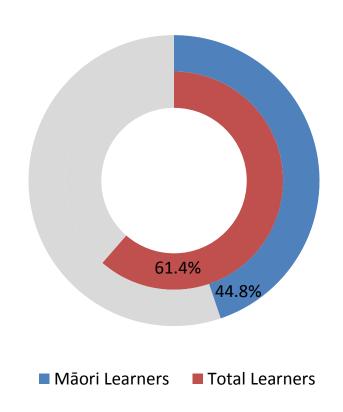
1994-96 cohort

Maori attendance

The diagram below shoes the percentage of primary school learners attending school 90% or more of the time in Term 2 of 2015



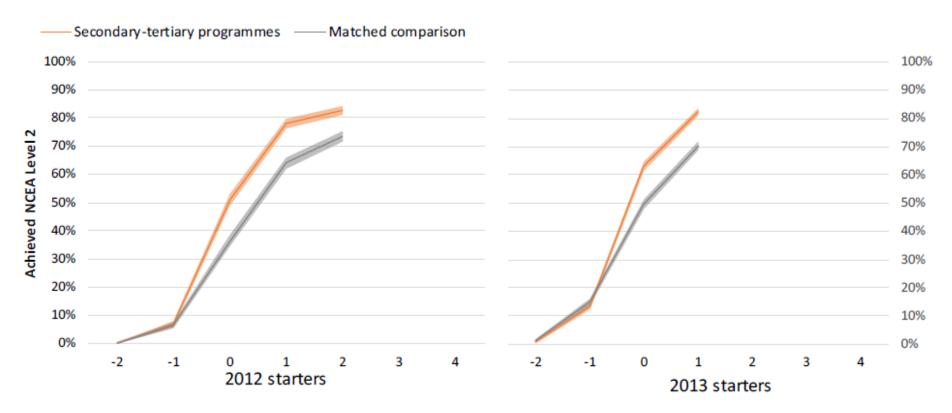
The diagram below shoes the percentage of secondary school learners attending school 90% or more of the time in Term 2 of 2015



Our interventions are making a difference...

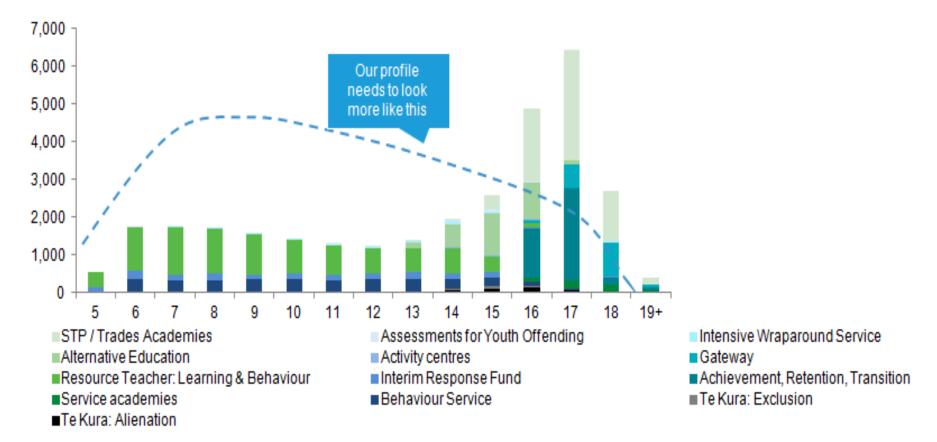


Do secondary-tertiary programmes improve NCEA Level 2 achievement?



- 1. The graphs show time in years before and after starting a secondary-tertiary programme, where zero is the first year.
- The shaded areas show the 90% confidence interval

...but we need to invest earlier to make a bigger difference!

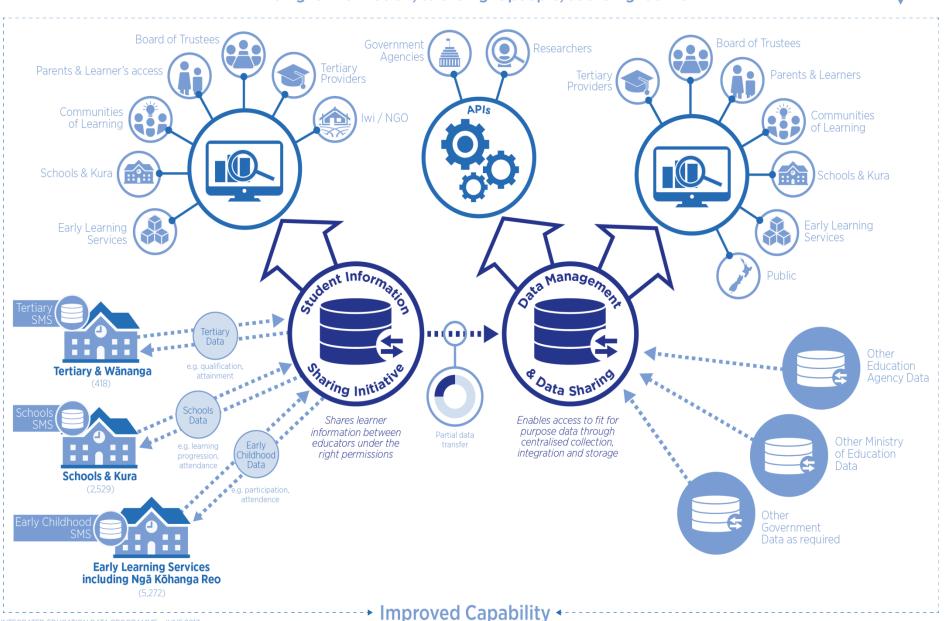




Integrated Education Data



The right information, to the right people, at the right time

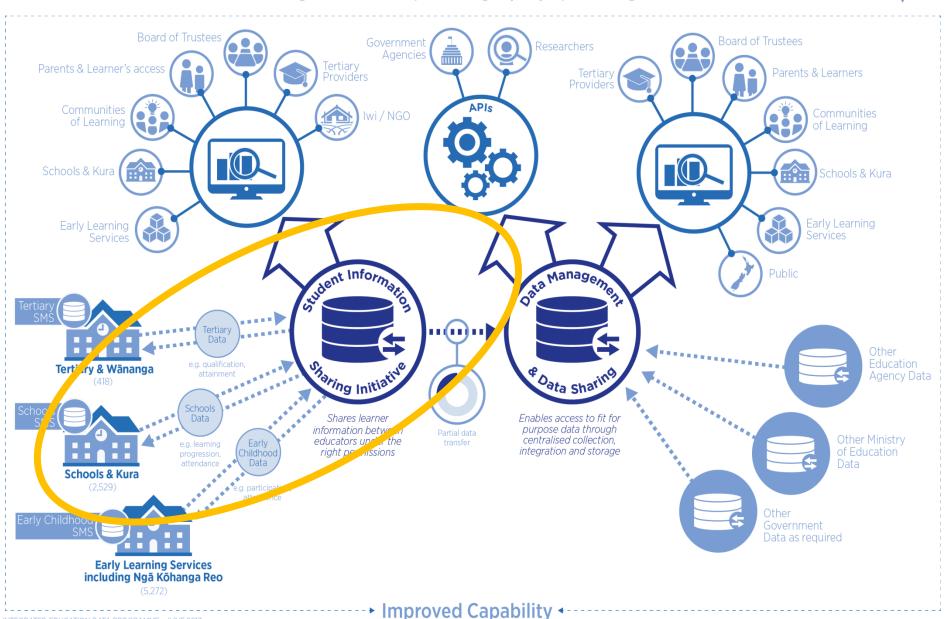




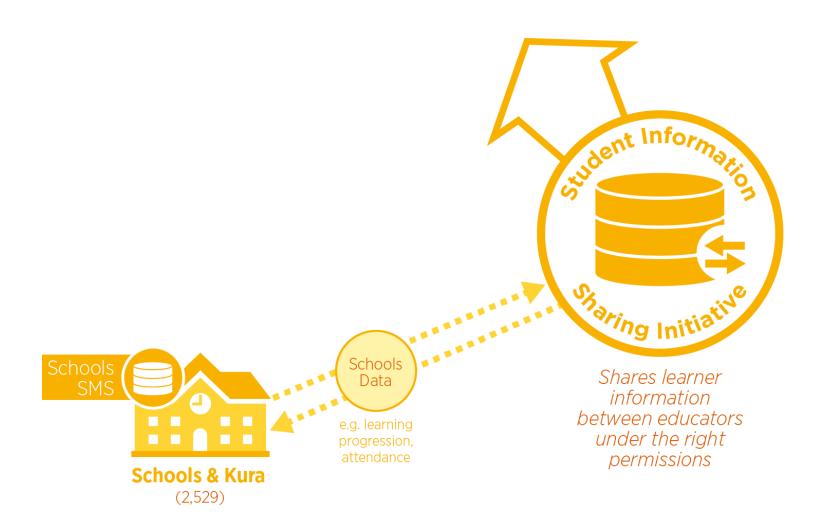
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Student Information Sharing Initiative (SISI)



Lifting aspiration and educational achievement for every New Zealander

