


Appendix I: SLP Analysis - Feedback to Schools

Feeding Back from Research and Evaluation in SLP: Two ONGOING Questions

1. Ongoing Effectiveness?
2. What are We Learning?

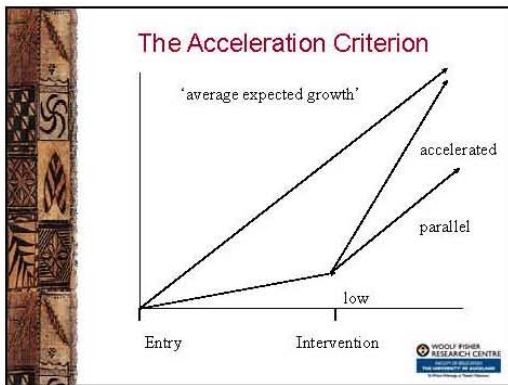
Stuart McNaughton and Aaron Wilson

February 2011




Judging Effectiveness (Outcomes):

- ❖ Valued outcomes (Ka Hikitia)
- ❖ For achievement: 3 criteria
 - Acceleration (how much?)
 - Matched (national) achievement distribution (how close?)
 - Sustained (developmentally)
- ❖ For multi school programmes: within a cascading and regional model- **where there will be variability**



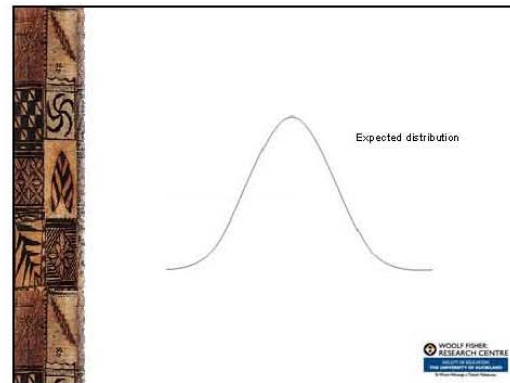

How Much Acceleration?

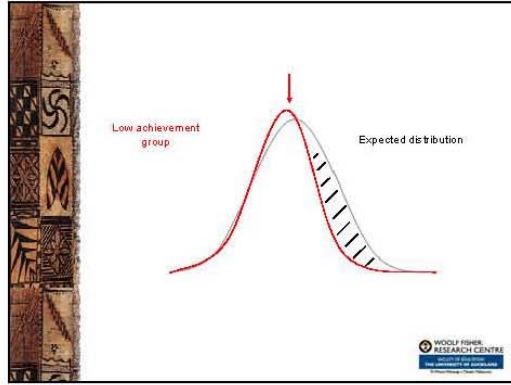
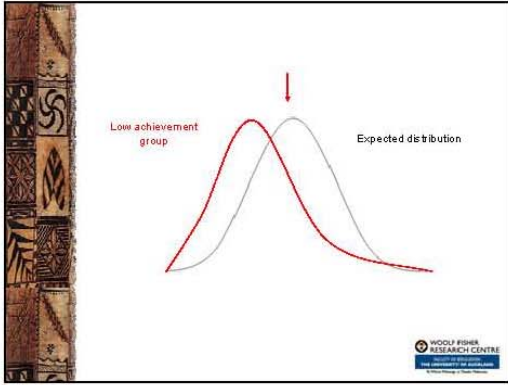
- ❖ Given progress and curriculum level goals - How long to catch up? (e.g. in Reading Recovery goal is after 15-20 weeks to get to middle bands of functioning in the classroom)
- ❖ So: what is educationally significant and achievable?



The Matched Distribution Criterion

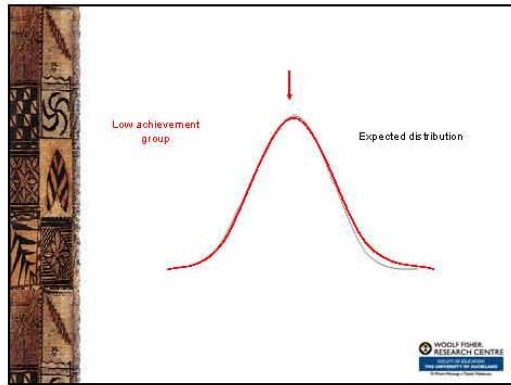
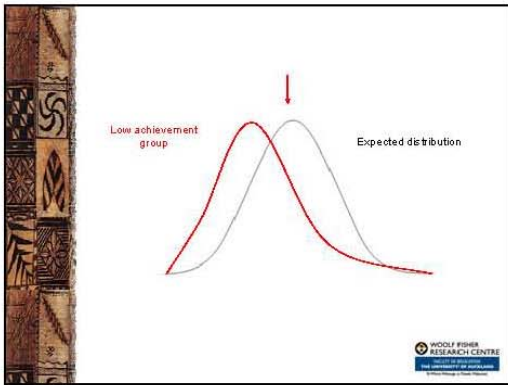
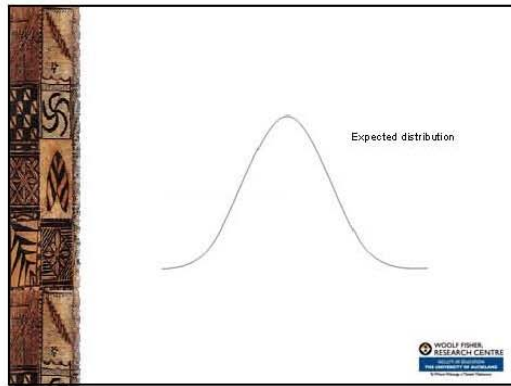
A problem in ‘Raising the Tail’,
‘Closing the gap’

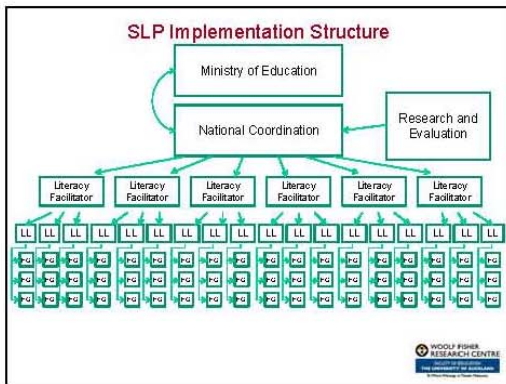




Matching the Distribution

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Overall Effectiveness (Achievement)

- ❖ Considerations - importance of:
 1. Focus - Māori and Pasifika
 2. Judgments- Acceleration AND levels
 3. Duration / intensity (Cohorts of schools)
 4. Understanding variability

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How to Judge Acceleration?

2010 National Norm after recalibration:

Year Level	First Quarter Norm (Term 1)			Fourth Quarter Norm (Term 4)		
	Mean Overall Score	Mean Curriculum Level	Curriculum Expectation	Mean Overall Score	Mean Curriculum Level	Curriculum Expectation
Year 9	1497	4P	4P	1510	4A	5B
Year 10	1529	4A	5B	1567	5B	5A

So: Expected gain = 22 aRs at Y9 and 38 aRs Y10

Two approaches: e.g. at least 22 points to assume "statistical significance" so *Marked acceleration*: 44 aRs and 60 aRs?

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Judging Effectiveness - 2010 Only

- ❖ SOME summary evidence (represents both Cohorts):
- ❖ Y9 Māori students (averaged by school) across both cohorts gained
 - 28 aRs, and 1 sub level reaching 4P
- ❖ Y9 Pasifika students
 - 23 aRs 1 sub level, reaching 4B

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Judging Effectiveness - 2010 Only

- ❖ Evidence for acceleration for both cohorts at Y9. Māori students within 1 sub level of expected level.
- ❖ Is the acceleration sufficient if sustained to get students (now) at 4P at end of Y9, to 5B at end of Y10 (i.e. 2 sub levels) ?
- ❖ For Māori students and for Pasifika students?

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Answer – Probably in These Schools:

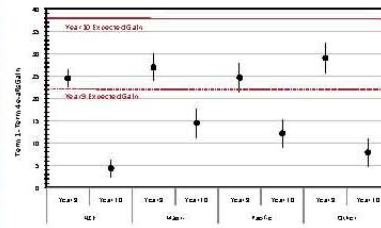
- ❖ 15 out of 54 schools at Y9 accelerated *by double* the rate of expected gain) for Māori (28%) and 9 schools out of 39 (23%) for Pasifika.
- ❖ 30 schools within 1 sub level of expected for Māori (56%) and 21 schools for Pasifika (54%)

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And What About Y10?

- ❖ **May need more focus?**
 - no schools for Māori and 3 schools for Pasifika had such high rates (7 schools and 3 schools had greater than expected).
 - 14 schools had average Māori student within 1 sub level of expected; 19 schools had Pasifika students within 1 sub level
- ❖ **At Y10 (like Y9) Māori and Pasifika students accelerated more than Pakeha.**

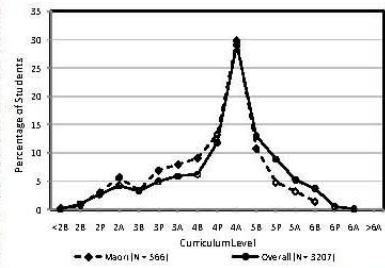
Judging Effectiveness - 2010 Only



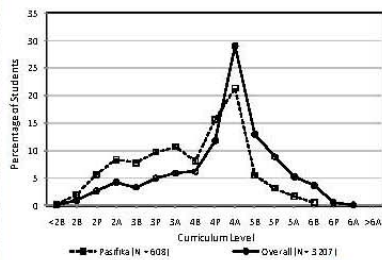
Judging Effectiveness: 2010 Only

- ❖ **Matching Distributions?**
- ❖ **NOTE the SLP data bases:**
 - Y9 n=4539
 - Y10 n=6399
- ❖ **While getting close for Māori (note high curriculum levels) there are still gaps for Pasifika**

Y9 Māori students Term 4



Y9 Pasifika students: Term 4



What are We Learning? #1

- ❖ **Optimal model (still emerging and still evaluating)**

What are We Learning? #2

- ❖ The significance of 'Focus Groups'
- ❖ NOTE: FG teachers likely to teach 'non Focus' students
- ❖ NOTE: the importance is using evidence about specific students-schools organise in various ways to achieve this.
 - Evidence and issues

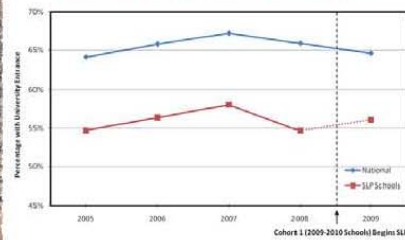
Some Evidence Across Cohorts

- ❖ Y9 FG Māori students (n=351) gained 32 aRs, (21 aRs in nonFG)
- ❖ Y10 FG Māori students (n=243) gained 28 aRs (8 aRs in nonFG)
- ❖ Y9 FG Pasifika students (n=156) gained 26 aRs and in nonFG 25
- ❖ Y10 Pasifika students (n=135) gained 18 aRs and in non FG classes 14.

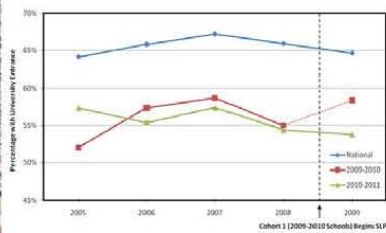
What Do We Need to Learn - Sustaining?

- ❖ The significance of the Y 9-10 focus?
- ❖ Relationships with Level 1 NCEA?
- ❖ But HARD CRITERION: UE?
- ❖ Is there any relationship between effectiveness in SLP at Y9 and Y10 and UE ?(% UE gain at Y13, ie gains per Year 13 cohort in each school).

Cohort 1 and 2: UE over time



Cohort 1 (2009-2010) versus Cohort 2 (2010-2011)



2009 C1 vs C2, d=0.23

What are We Learning? #4

Know some of the sources of *variability*:

1. (considered Focus Group)
2. School
3. Region

Big question going forward- What factors are related to the variability?

