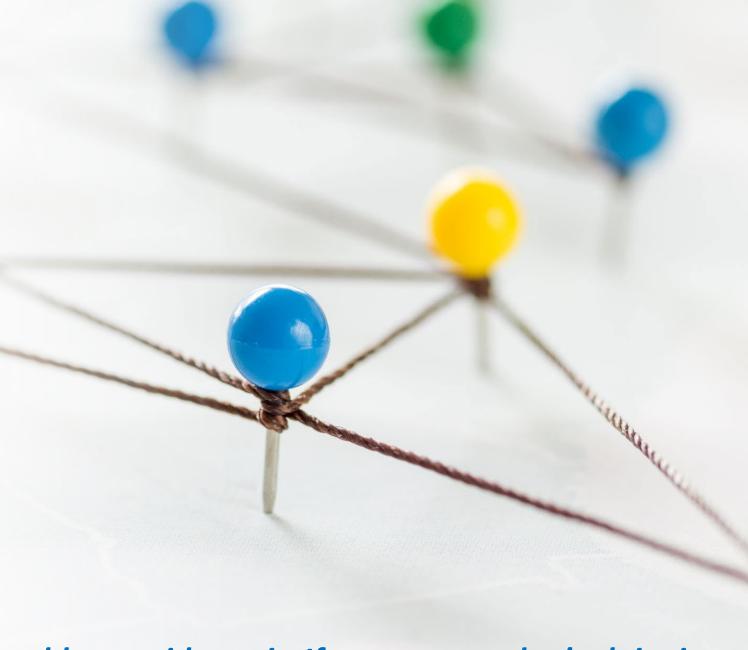


Two fatal vulnerabilities of most education reforms are vagueness of outcomes and a neglect of wider political mobilisation to hold schools or systems to account



Project logic

- A normative purpose(s) of education
- Translation into desirable student outcomes
- Development of a theory of action to deliver on outcomes
- Implement of programs
- Evaluate (and revision) of programs



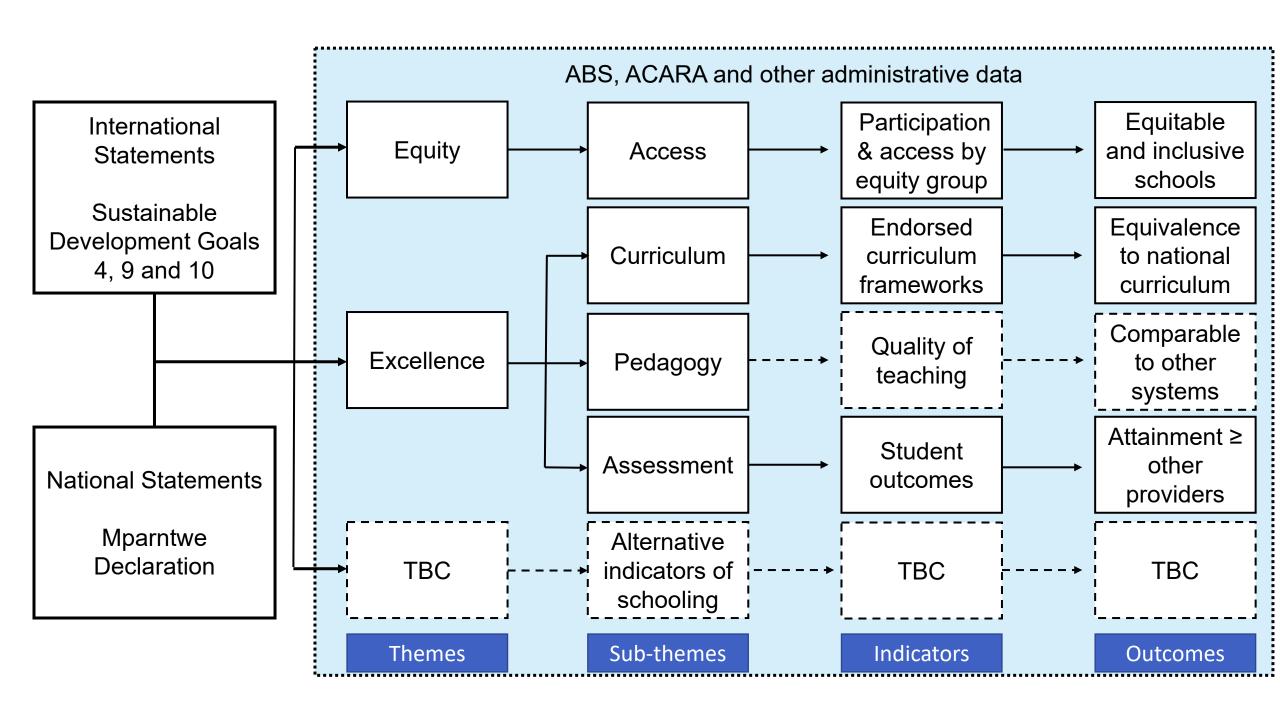
If you claim it, then you need to be able to evidence it. If you cannot, don't claim it.



Three key education policy questions

- Do you get the outcomes you claim?
- Is there stakeholder buy-in?

Can it scale?



Natural experiments

Steiner

47 schools (+ affiliates)



• 1062 ICSEA, 4.5% ATSI, 15.2% LBOTE

• $.10\sigma$ above national avg









Montessori

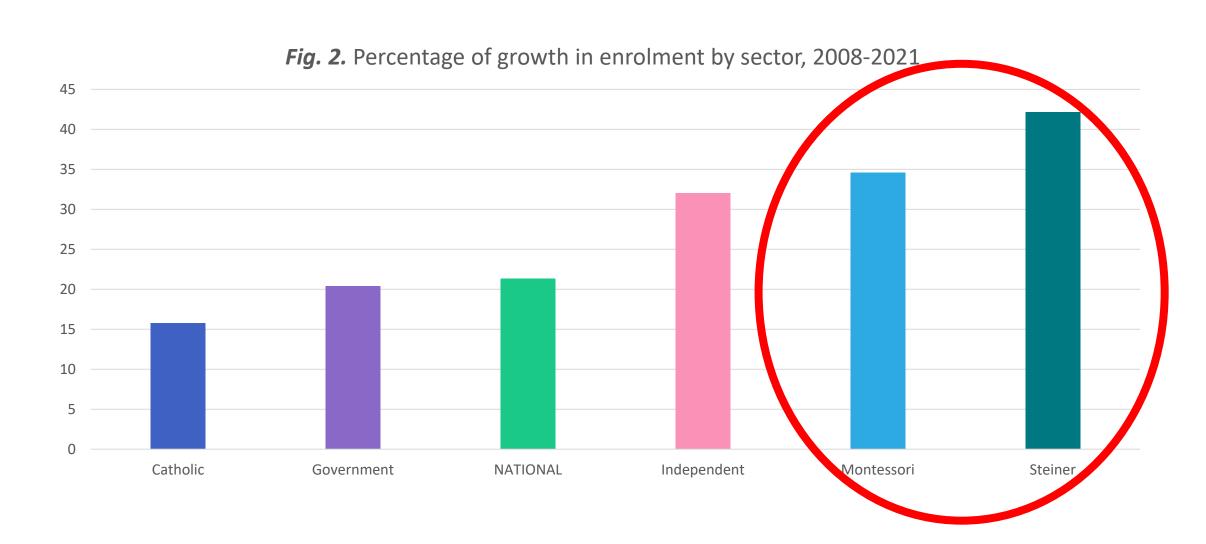
• 39 schools (+ affiliates)

• 90% in major cities

• 1121 ICSEA, 0.9% ATSI, 26% LBOTE

• .20σ above national avg

Stakeholder buy-in



Distinctions



In contrast, the BAIS project is about working with schools to evidence and demonstrate their impact.

New Metrics for Success is an opportunity for innovative school leaders to join with academic experts and international trailblazers to reimagine and influence schooling in Australia – to move away from the 'grammar of schooling' that continues to lock our schools into many of the distinctive features of the 20th century version of education.

Australian schooling is ready for a paradigm shift and the development of new metrics to assess, credential and measure student and school success. Young people must now be educated and assessed in new ways so they are prepared for a very different future.

In this research-practice partnership, schools work with experts at the Assessment Research Centre to access University technology to support the creation and validation of new metrics.



The project



Cabegory	Indicator	Scarce	Evidence needed	Data generation / retrieval method	Strength of data
ACADEMIC					
Academic achievement	- NAPLAN outcomes	- Uterature	- Student / school data	- ACASA / School-level	- National comparative
	 HSC (exit) examination 	 Liberabure 	 Student / school data 	- ACARA / School-level	 National comparative
	- Annual Achterement	- Focus group (E)	- Student / school data	- School-level reporting	- School level data
COMMUNITY					
Community	 Education dis/advantage 	 Liberabure 	 Indices for communities 	- ABS data (SA2 or SA1)	 National comparative
	- Participation / volunteer	Focus group [6, 0]	- Participation in events	- School-level data	- School level data
	- Parental occupation	Focus group (t)	- Enrolment data	- School-level data	 National comparative
NON-ACADEMIC					
(Extra-)Curricular	 Subject choices 	Focus group (t)	- School-level data	- School-level records	 State comparative
	 Comprehensiveness 	 Focus group (E) 	 Non-academic courses 	 School-level records 	 State/Nat comparative
Environment (school)	Physical space	 Focus group (E, S) 	- Photographic	- Photos by researcher	- Novel*
	- Facilities	 Focus group [6, 5, 6] 	- Building analysis	- Site map from school	- Novel*
Personal attributes	- Collaborate /cooperate	 Focus group [£, 5, 0] 	- TBC scale	 Self-report questionnaire 	-
	- Confidence / articulate	 Focus group IE, CI 	TBC scale	 Self-report questionnaire 	
	- Creativity	- Focus group [£, 5, C]	- PISA (2022) scale?	- Creative task	 Nat / Int comparative
	- Hobbies	 Focus group [E] 	TBC scale	 Self-report questionnaire 	
	- Motivation	 Focus group [6, 8, C] 	- TBC scale	 Self-report questionnaire 	
	- Penistence / Cog fatigue	Focus group [6, 5, 6]	- TBC scale	- Self-report questionnaire	
Post-school destination	 Post-school destination 	 Focus group & Lit 	- PSD data	 School-level records 	 Potential comparative
Outdoor education	 Engagement with nature 	· Focus group [6, 5, 6]	- Participation (camp etc)	- School-level records	- Novel*
	 Achievement data 	 Focus group [£, S, C] 	- Achievement data	 School-level records 	- Novel*
	 Life skills 	 Focus groups [E] 	 Achievement data 	 School-level records 	- Novel*
Well-being / Interpersonal	- Attendance	 Focus group [6] & Lit 	- School (by grade) data	- School-level data	 National comparative
	- Arosety	Focus group (E)	- TBC scale	 Self-report questionnaire 	
	- Buoyancy (resilience)	 Focus group IE, S, Cl 	- TBC scale	 Self-report questionnaire 	
	- Relationships (Stud-Stud)	Focus group [6, 5]	- TBC scale	- Self-report questionnaire	
	 Relationships (Stud-Tch) 	 Focus group (£) 	- TBC scale	 Self-report questionnaire 	
	- Sense of belonging	 Focus group IE, SI 	- PISA (2018) scale	 Self-report questionnaire 	 Not / Int comparative
	- Self-regulation / regnt	 Focus group [6, 5] 	- TEC scale	 Self-report questionnaire 	
INSTRUCTION					
Quality teaching	 Quality of instruction 	 Liberabure 	- Quality Teaching Model	 Pedagogical audit 	 Comparative
Curriculum (main lessons)	- Quality of curriculum	Focus group (E)	- Quality of curriculum	- Curriculum audit	- Comparative
Assessment (snr project)	- Quality of assessment	- Focus group (E)	- Quality of assessment	 Major project audit 	- Comparative
SCHOOL					
Professional learning	 Hrs of PL (or content) 	 Focus group [C] & Lit. 	- School-level data	- School-level data	 National comparative
Staff	- Staff to student ratio	- Focus group It. S. Cl	- School-level data	- ACASA / school-level	National comparative
	Accreditation level	- Liberabare	- School-level data	- School-level data	- State/Nat comparative

Phase 1
Scoping provision
nationally

Phase 2
Establishing alternative indicators

Phase 3
Testing and scaling in sample schools

Phase 4
Testing in out-of-sample
schools





Category	Indicator	Source	Evidence needed	Data generation / retrieval method	Strength of data
ACADEMIC				mento	
Academic achievement	- NAPLAN outcomes	- Liberabure	- Student / school data	- AEARA / School-level	 National comparative
	 HSC (exit) examination 	 Liberabure 	 Student / school data 	- ACARA / School-level	 National comparative
	- Annual Achievement	- Focus group (t)	- Student / school data	- School-level reporting	 School level data
COMMUNITY					
Community	 Education dis/advantage 	- Literature	 Indices for communities 	 ABS data (SA2 or SA1) 	 National comparati
	- Participation / volunteer	Focus group [6, 0]	- Participation in events	- School-level data	 School level data
	- Parental occupation	- Focus group (t)	- Enrolment data	- School-level data	 National comparate
NON-ACADEMIC					
(Extra-)Curricular	 Subject choices 	- Focus group (t)	- School-level data	- School-level records	 State comparative
	 Comprehensiveness 	 Focus group (E) 	 Non-academic courses 	 School-level records 	 State/Nat comparal
Environment (school)	 Physical space 	 Focus group [6, 5] 	- Photographic	 Photos by researcher 	- Novel*
	- Facilities	 Focus group [6, 5, 6] 	- Building analysis	- Site map from school	- Novel*
Personal attributes	- Collaborate /cooperate	- Focus group [£, 5, C]	- TBC scale	 Self-report questionnaire 	
	 Confidence / articulate 	 Focus group IE, CI 	TBC scale	 Self-report questionnaire 	
	- Creativity	- Focus group [E, S, C]	- PISA (2022) scale?	- Creative task	 Nat / Int comparate
	- Hobbies	 Focus group (E) 	- TBC scale	 Self-report questionnaire 	
	- Motivation	 Focus group [6, 5, C] 	- TBC scale	 Self-report questionnaire 	
	- Persistence / Cog fatigue	- Focus group [C, S, C]	- TBC scale	- Self-report questionnaire	
Post-school destination	 Post-school destination 	 Focus group & Lit 	- PSD data	 School-level records 	 Potential comparati
Outdoor education	 Engagement with nature 	- Focus group [E, S, C]	- Participation (camp etc)	- School-level records	- Novel*
	 Achievement data 	- Focus group [£, S, C]	- Achievement data	 School-level records 	- Novel*
	 Life skills 	 Focus groups [E] 	 Achievement data 	 School-level records 	 Novel*
Well-being / Interpersonal	- Attendance	- Focus group [6] & Lit	- School (by grade) data	- School-level data	 National comparati
, , , , , , , , , , , , , , , , , , ,	- Arosety	Focus group (t)	- TBC scale	 Self-report questionnaire 	
	- Buovancy (resilience)	 Focus group IE, S, Cl 	- TBC scale	 Self-report questionnaire 	
	- Relationships [Stud-Stud]	- Focus group [0, 5]	- TEC scale	 Self-report questionnaire 	
	- Relationships (Stud-Tch)	- Focus group (t)	- TBC scale	 Self-report questionnaire 	
	 Sense of belonging 	 Focus group IE, SI 	 PISA (2018) scale 	 Self-report questionnaire 	 Nat / Int comparation
	 Self-regulation / rognt 	 Focus group [6, 5] 	- TEC scale	 Self-report questionnaire 	
INSTRUCTION					
Quality teaching	 Quality of instruction 	 Liberabure 	- Quality Teaching Model	 Pedagogical audit 	 Comparative
Curriculum (main lessons)	- Quality of curriculum	- Focus group (E)	- Quality of curriculum	- Curriculum audit	- Comparative
Assessment (snr project)	 Quality of assessment 	- Focus group [E]	 Quality of assessment 	 Major project audit 	 Comparative
SCHOOL	1-				
Professional learning	- Hrs of PL (or content)	 Focus group [C] & Lit 	- School-level data	- School-level data	 National comparati
Staff	- Staff to student ratio	- Focus group [E, S, C]	- School-level data	- AEARA / school-level	 National comparate
	Accreditation level	- Liberabure	- School-level data	- School-level data	 State/Nat comparat

Data sources

Steiner

• 24 principal interviews



Montessori

20 principal interviews

• 5 educator focus groups



4 educator focus groups

2 community focus groups



• 3 community focus groups

1 student focus group



1 student focus group

Category	Indicator	Source	Evidence needed	Data generation / retrieval method	Strength of data
ACADEMIC					
Academic achievement	- NAPLAN outcomes	- Literature	- Student / school data	- ACARA / School-level	- National comparative
	- HSC (exit) examination	- Literature	- Student / school data	- ACARA / School-level	- National comparative
	- Annual Achievement	- Focus group [E]	- Student / school data	- School-level reporting	- School level data
COMMUNITY					
Community	- Education dis/advantage	- Literature	- Indices for communities	- ABS data (SA2 or SA1)	- National comparative
	- Participation / volunteer	- Focus group [E, C]	- Participation in events	- School-level data	- School level data
	- Parental occupation	- Focus group [E]	- Enrolment data	- School-level data	- National comparative
NON-ACADEMIC					
(Extra-)Curricular	- Subject choices	- Focus group [E]	- School-level data	- School-level records	- State comparative
	- Comprehensiveness	- Focus group [E]	- Non-academic courses	- School-level records	- State/Nat comparative
Environment (school)	- Physical space	- Focus group [E, S]	- Photographic	- Photos by researcher	- Novel*
	- Facilities	- Focus group [E, S, C]	- Building analysis	- Site map from school	- Novel*
Personal attributes	- Collaborate /cooperate	- Focus group [E, S, C]	- TBC scale	- Self-report questionnaire	-
	- Confidence / articulate	- Focus group [E, C]	- TBC scale	- Self-report questionnaire	-
	- Creativity	- Focus group [E, S, C]	- PISA (2022) scale?	- Creative task	- Nat / Int comparative
	- Hobbies	- Focus group [E]	- TBC scale	- Self-report questionnaire	-
	- Motivation	- Focus group [E, S, C]	- TBC scale	- Self-report questionnaire	-
	- Persistence / Cog fatigue	- Focus group [E, S, C]	- TBC scale	- Self-report questionnaire	-
Post-school destination	- Post-school destination	- Focus group & Lit	- PSD data	- School-level records	- Potential comparative
Outdoor education	- Engagement with nature	- Focus group [E, S, C]	- Participation (camp etc)	- School-level records	- Novel*
	- Achievement data	- Focus group [E, S, C]	- Achievement data	- School-level records	- Novel*
	- Life skills	- Focus groups [E]	- Achievement data	- School-level records	- Novel*
Well-being / Interpersonal	- Attendance	- Focus group [E] & Lit	- School (by grade) data	- School-level data	- National comparative
	- Anxiety	- Focus group [E]	- TBC scale	- Self-report questionnaire	
	- Buoyancy [resilience]	- Focus group [E, S, C]	- TBC scale	- Self-report questionnaire	
	- Relationships [Stud-Stud]	- Focus group [E, S]	- TBC scale	- Self-report questionnaire	
	- Relationships [Stud-Tch]	- Focus group [E]	- TBC scale	- Self-report questionnaire	
	- Sense of belonging	- Focus group [E, S]	- PISA (2018) scale	- Self-report questionnaire	- Nat / Int comparative
	- Self-regulation / mgmt	- Focus group [E, S]	- TBC scale	- Self-report questionnaire	
INSTRUCTION	-				
Quality teaching	- Quality of instruction	- Literature	- Quality Teaching Model	- Pedagogical audit	- Comparative
Curriculum (main lessons)	- Quality of curriculum	- Focus group [E]	- Quality of curriculum	- Curriculum audit	- Comparative
Assessment (snr project)	- Quality of assessment	- Focus group [E]	- Quality of assessment	- Major project audit	- Comparative
SCHOOL	-				
Professional learning	- Hrs of PL (or content)	- Focus group [C] & Lit	- School-level data	- School-level data	- National comparative
Staff	- Staff to student ratio	- Focus group [E, S, C]	- School-level data	- ACARA / school-level	- National comparative
	- Accreditation level	- Literature	- School-level data	- School-level data	- State/Nat comparative



evidence for evidence for Data and Data and soprestors Fig. 4. A model for schools evidence informed schooling High impact educators Systemic supports and High quality data and evidence of Skinctures impact **Continuously** improving Impact and data structured for impact evidence Educators Drepared for schools and Schools systems **Prepared** School renewal and and supported quality educators assurance High impact **Schools High-impact schools** educators for organised for schools high impact



Thank you