

# Submission to the Productivity Commission draft report on the National Education Evidence Base

---

October 2016

# Australian Research Alliance for Children and Youth (ARACY) Submission to the Productivity Commission draft report on the National Education Evidence Base

## Overview

Learning is one of the important determinants of wellbeing, and quality education is the 4th of the United Nations' 17 Sustainable Development Goals. ARACY's national framework (The Nest)<sup>1</sup> identifies six key dimensions for child and youth wellbeing: children are safe and loved, have material needs met, are learning, healthy, participate in society and have a positive sense of culture and identity. Each of these is a precondition for, and supports, the other five. Thus, learning is a key factor in improving material basics, child safety, health, democratic participation and a positive sense of identity. Similarly, each of these other factors is a precondition for successful learning.

If we are to improve national wellbeing, broadly understood, Australia has to base its education and learning systems<sup>2</sup> on reliable evidence of what works, to ensure we apply our resources to their best use and deliver outcomes. This inquiry is thus vitally important.

The draft report's identification of the problem - that reforms to date have not produced improvement in measures of student achievement - is a reasonable start to a problem definition, albeit the way in which student achievement is characterised and resultant measures identified in the report are somewhat limited in their scope. We suggest the Commission take a broader approach to measurement of education outcomes that includes other important dimensions of wellbeing which shape the learning process. ARACY members with an interest in the social determinants of health and wellbeing are particularly keen to draw attention to the key role education plays in producing a healthy society. We note that greater collaboration between the fields of health and education would significantly improve the evidence base for both.

---

<sup>1</sup>The Nest action agenda was launched in 2013. Information to support The Nest was gathered through national consultations in 2012 involving more than 4,000 children and youth, parents, leading thinkers and researchers, child advocates, policy makers, and service planners and providers across Australia. These included a national survey with more than 3000 respondents, half aged 24 or younger, 500 face to face interviews with young people, and other consultations with experts in children and youth issues.

The Nest is also supported by evidence gathered from research (including reviews of effective interventions) and by data from the 2013 ARACY Report Card: The wellbeing of young Australians. It is the most comprehensive evidence-based plan for children and youth produced in Australia.

<sup>2</sup> The term "learning system" we see as encompassing people, policies, practices, organisational arrangements, governance, monitoring and evaluation, reporting and accountability.

No matter what way outcomes are interpreted, we strongly agree that resourcing and accountability measures alone will not achieve gains in education outcomes (p.3)<sup>3</sup>. Better use of reliable evidence to improve practice is required.

ARACY supports the conclusions of the draft report that “monitoring outcomes, performance benchmarking and competition between schools alone are insufficient to achieve gains in education outcomes” and there is an important need to “identify, and then apply, the most effective programs, policies and teaching practices” (p3). We do however note that the practices that contribute to learning outcomes include more than classroom teaching practices. They include for example early learning experience to give children a good foundation prior to school (which the report itself recognises later), and student<sup>4</sup>, parent and community engagement in learning processes.

Professionals and practitioners involved in education of children and young people would benefit by learning from evidence-based research that informs structured continuous professional learning. This would help improve the *pedagogy*, not just the curriculum and/or syllabus of early years/foundation level teacher education. Pedagogy looks beyond teaching, it embraces school and community ethos and how learning, teaching and development is influenced by cultural, societal and political values we have for children. Developing such improved pedagogy should be reinforced through a solid theoretical and practical basis that draws on the best available evidence.

ARACY also agrees strongly that an evidence base is more than a national data repository. A strategic approach to improving education outcomes through evidence has to include improvement in our capacity to gather, apply, and continuously improve various forms of relevant evidence. There is a pressing need for a two way flow, evidence to practice and vice versa. Qualitative research is also important – it helps answer the “why?” questions about success or failure of an education practice, complementing quantitative “what happened?” evidence.

ARACY is pleased to see recognition of the importance of early years (“children’s physical, cognitive, linguistic, social and emotional development and learning from birth to five years”: p.37). These years are a key determinant of future outcomes, and continuing investment in these years – especially to reduce the adverse effects of disadvantage – has a huge payoff for governments and for Australia as a whole. Early identification of potential problems (through

---

<sup>3</sup> References to page numbers in this submission are to the *National Education Evidence Base* draft report as published online by the Productivity Commission.

<sup>4</sup> Student engagement in learning is an important element of The Nest. The action agenda recommends a number of strategies to promote student engagement (p.14). These strategies are also linked to and supported by strategies to promote the participation of young Australians.

screening or other means) and targeting of interventions aimed at overcoming disadvantage are fundamental to a preventive approach to improve wellbeing.

A significant gap in the draft report is that it does not adequately address the last of the inquiry's Terms of Reference, to consider "potential barriers and challenges" to use of evidence to improve outcomes. Australia needs thoroughgoing, persistent institutional reform to overcome them.

The report demonstrates an optimistic but misplaced faith that gathering and disseminating better evidence will be sufficient to change practice. For evidence to be taken seriously there have to be receptive users and a willingness to change existing practices if evidence supports the need. Both require cultural and institutional support; without that support, evidence that challenges the status quo will be dismissed. This wider understanding is supported by much of the previous analyses of the Commission in relation to the conditions under which major reforms are possible. The observation that evidence alone is often insufficient to change practice or policy is itself well supported and documented<sup>5</sup>.

An institution responsible for implementation of the evaluative research framework (draft recommendations 7.2 and 8.1) could be ARACY. We are already active in this space, having developed a national action plan and strategy for evidence (The Nest) that takes a holistic approach to the wellbeing of children and youth. While we see the attraction of this function being undertaken by an education specialist, the advantage of the ARACY approach is that it recognises that wider aspects of wellbeing such as material needs, health, safety, and cultural identity are also crucial determinants of learning outcomes. ARACY has more than sufficient organisational capacity through its broad based membership to undertake this work. As recognised in the draft report any such institution would require appropriate resourcing to implement and administer the framework.

---

<sup>5</sup> For a good example see Smith, K (2013) *Beyond Evidence Based Policy in Public Health – the Interplay of Ideas*, Palgrave MacMillan London

## **SUBMISSION**

### **Introduction**

The following sections of our submission address a range of issues raised by the draft report that ARACY members have identified as important. They follow roughly the order of the draft report, and thus are not necessarily presented in priority order.

### **Parent engagement**

We note the observation of the draft report that

...there remain some significant gaps. Data are lacking, for example, on the nature of parents' engagement in their child's education, and the culture of the home learning environment. There is merit in collecting these data, but they do not have to be collected for all students. The data considered to be most relevant could be collected for a representative sample of students." (p.14).

This has been recognised by the Federal government, and there is a large project underway, coordinated by ARACY, on parent engagement. It represents a very successful model for evidence creation and dissemination, including the establishment of a new but already highly active Parent Engagement Network, and a body of information to support policy making. It is a good case study of how to fill gaps in evidence – we have provided this case study at Attachment A.

One source of existing data is two surveys undertaken by Dyslexia Support Groups, one in Tasmania (2014-15) and one nationwide (2016) <sup>6</sup>. These online surveys examined, amongst other issues, parent engagement with schools. Both surveys found in the majority of cases there was reluctance on the part of schools to engage with parents of children who had specific learning difficulties. The majority of parents had to instigate and sustain connections between themselves and schools.

---

<sup>6</sup> On line survey Square Pegs Dyslexia Tasmania Support Group

<sup>6</sup> On line survey Nationwide Australia <http://www.outsidesquare.net/wp-content/uploads/2015/04/Australian-Parent-Survey-on-the-Education-of-Students-with-Dyslexia-Final-Report.pdf> Forbes (2016)

## **Aboriginal and Torres Strait Islander education evidence**

While the PC is right to refer to Australia as a developed nation (p.3), that description does not apply to indigenous Australia. World expert on social determinants of health Sir Michael Marmot has observed that "Australia ranks right up there, second or third on the Human Development Index...[but]...Indigenous Australians, if you treated them as if they were a separate country, would rank probably about 100th or below 100."<sup>7</sup>

As The Nest action agenda describes: "Inequalities in outcomes between Aboriginal and Torres Strait Islander and non-Indigenous children, young people and families in Australia are marked and persistent, evidenced most notably in measures of poverty and deprivation, early childhood vulnerability and educational attainment as well as in representation in child protection, out-of-home care and youth justice".

The extreme differences between the experiences of many Aboriginal and Torres Strait Islander Australians and the non-indigenous population mean that the problem definition and potential solutions for indigenous Australia are likely to differ in important ways to those for Australia as a whole. There is a strong case for a separate chapter in the final report to address the specific evidence gaps in education practice for Aboriginal and Torres Strait Islander Australians. Findings from a number of important local-level initiatives could inform this chapter.

## **The links between education and health**

There is a wealth of evidence available on the health benefits of education and its impact long term on a nation's health status<sup>8</sup>. Education is also closely linked with the broadest measures of social and psychological wellbeing<sup>9</sup>.

---

<sup>7</sup> Interview, 18 May 2012, at <http://www.abc.net.au/sundayprofile/stories/> See also his recent Boyer Lectures.

<sup>8</sup> See Braveman P, Sadegh-Nobari T, and Egerter S (2011) Early Childhood Experiences and Health. Robert Wood Johnson Foundation at <http://www.rwjf.org/en/library/research/2011/03/early-childhood-experiences-and-health.html>; Virginia Commonwealth University Center on Society and Health (2014) Education: It Matters More to Health than Ever Before, at <http://www.rwjf.org/en/library/research/2014/01/education--it-matters-more-to-health-than-ever-before.html>

<sup>9</sup> See for example <http://www.commissiononhealth.org/PDF/c270deb3-ba42-4fbd-baeb-2cd65956f00e/Issue%20Brief%206%20Sept%2009%20-%20Education%20and%20Health.pdf>

Francesconi, Marco and Heckman, James J., Symposium on Child Development and Parental Investment: Introduction. IZA Discussion Paper No. 9977. Available at SSRN: <http://ssrn.com/abstract=2790014>

Jones DE, Greenberg M, and Crowley M (2015) Early Social-Emotional Functioning and Public Health: The Relationship Between Kindergarten Social Competence and Future Wellness, *American Journal of Public Health* 105 (11): 2283-2290.

Education has profound health effects. In general, more schooling – not just health education – equips a person to change behaviour in healthy ways. This effect is independent of, but compounds, the well known effect of education on income and wealth (better education leads to greater income which itself is linked to better health outcomes). Evidence based investment in education will have health benefits for Australia as a whole.

While the draft report notes that “Data and evidence from sources outside education, such as the health sector, can be useful in understanding the impact of external influences. For example, information on family and socioeconomic background...” (p.58) the draft report significantly underestimates the importance of the interactions between education and such external influences. We do however commend the recognition in the draft report that student wellbeing is both an influence on education outcomes and an outcome in its own right (p.87), and its references to the Australian Child Wellbeing Project, an important contributor to the data.

The Strengths and Difficulties Questionnaire (on p.88 the draft report notes that the AIHW has recommended development of an indicator based on that questionnaire, and implicitly endorses using it as an evidence base) is a mental health assessment tool – only one aspect of wellbeing. It is clearly important within the health domain, but necessarily misses other important aspects of wellbeing. While there is no agreed national aggregate measure of children and young people’s social and emotional wellbeing, The Nest provides a framework of indicators for measuring social and emotional wellbeing<sup>10</sup> and a range of evidence-informed strategies for improving the social and emotional wellbeing of young Australians. We suggest that if an assessment tool were to be used to develop data, the Commission might investigate whether there are more comprehensive methodologies available.

Wider evidence for education outcomes could also consider how well children are developing qualities such as resilience, tenacity and gratitude. Holistic considerations need to be embraced: education outcomes are broader than solely ‘achievement’ as measured through NAPLAN scores or school league tables.

#### **WW4K**

We note the PC finding that

a central repository of trusted, high-quality evidence, including resources to support practitioners, is needed.

---

<sup>10</sup> This is measured, in The Nest, through measures of the ‘Loved and safe’ outcome, including: ‘positive supportive family environment’, ‘positive parenting practices’, ‘positive, trusted peer relationships and communication’, ‘community safety’, ‘children not placed in care’ and ‘youth not in detention’.

The US Institute of Education Sciences manages a repository of this type — the What Works Clearinghouse. The Clearinghouse reviews research on policies, programs, practices and products in education. High-quality evidence is summarised in effectiveness ratings for different interventions and practice guides. (overview, p.17)

We draw your attention to a project currently underway with support from the Australian Government and guidance from senior academic researchers, What Works For Kids (WW4K). This will have a similar function to the US What Works Clearinghouse cited in the draft report.

WW4K is an online database and discussion forum for researchers, practitioners and policy makers working to improve child and youth wellbeing. Originally funded by the Australian Government Department of Social Services, WW4K will provide the latest information about the best evidence-based interventions for decision-makers to make informed investment choices.

The project is led by leading researchers: Professor John Toumbourou, Chair in Health Psychology, Faculty of Health, Deakin University and Associate Professor Sophie Havighurst, Centre for Training and Research in Developmental Health, Department of Psychiatry, University of Melbourne.

Evidence standards for each intervention are being classified using a Rapid Evidence Assessment (REA) rating scheme adapted by ARACY from a REA developed by the Parenting Research Centre and drawing on California's Evidence-Based Clearinghouse for Child Welfare. The ratings scale the quality of evidence from "well supported" through to "emerging", based on factors including the number of Randomised Control Trials (RCTs), Quasi-Experimental analysis, and quantitative or qualitative analysis supporting the intervention; all analyses should reveal positive outcomes. Additionally, sustainment of positive effect is also incorporated into the REA.

During the initial development phase, more than 150 programs have been selected for assessment. They will be published on the website once their ratings have been reviewed (10 programs have already been published). Upon completion of the initial phase, it is planned that individual programs will be able to request to add their programs to the database.

## **Ethics**

The draft report's discussion on ethical approvals in Chapter 5 passes over a key issue – introducing a new practice with accompanying research to determine the evidence (e.g. an evaluation or RCT) requires approval by an ethics committee, an arduous process, whereas introducing a new practice with no measurement or evaluation does not have to go through an ethics committee. Indeed, the latter may attract applause for ticking the "innovation" box.



As noted in the report, even when the ethics approval hurdle is overcome there are multiple other barriers to researchers obtaining the data required for analysis including privacy and other legislative hurdles.

These factors bias decision making of education administrators towards introduction of new interventions without evidence. We presume this is an unintended consequence of ethics processes, not system design.

Moreover, system-wide level of difficulty in researchers obtaining and analysing information increases the risk of interventions with no evidence base becoming entrenched practice and remaining unexamined.

In light of this, we suggest the PC recommend that at a minimum new education practice should be subject to a trial or pilot. These are still useful forms of evidence. Trialling a new approach means that should it be found to be ineffective it can be retired gracefully before it consumes too many resources or harms educational outcomes.

We disagree with the observation that “A key concern with randomised controlled trials lies in the ethics of one group receiving a treatment that may advantage or disadvantage them...although some students might be disadvantaged through trial participation, the potential benefits from trial insights are significant...” (p.166). We rarely know in advance what the impact of an intervention will be. In those rare cases where it is completely obvious that an intervention will be beneficial, then it should be introduced without a trial. If there is doubt, then the ethical question should be resolved in favour of a trial. Where a trial gathers information on impact<sup>11</sup>, logically the only three possible outcomes are: benefit, no effect, or disadvantage. Consider each of these.

A – Benefit. A new practice may have benefits. We should be certain of that before rolling it out for the whole population. A trial gives us the evidence. Some participants will gain that benefit early, while the control group misses out: which is still a welfare gain, and better than not using evidence and so risking an intervention that either has no benefits or has disadvantages. We should adopt the ethical course used in medicine: if benefits are recognised early in the trial, and can be proven, then the intervention can be applied to the whole population rather than wait until the previously scheduled end date of the trial.

B – No effect. If an intervention has no effect, as demonstrated by a reliable trial, then the public is saved the expense of introducing a reform of no value. The cost of the trial is tiny compared with the cost of a useless programme; bear in mind that in

---

<sup>11</sup> Sometimes the result of a trial may be that further work is still required to understand the impact – that is, outcomes are uncertain and the trial is inconclusive.

education a new practice will commonly be introduced across a large number of schools either in a State/Territory or nationwide, at considerable cost to taxpayers or fee paying parents.

C – Disadvantage. If an intervention causes harm, trialling it with a small group at least confines that harm to a small number, rather than affecting all children. As with the no effect case, the public is saved the expense of introducing a system-wide reform that causes more harm than good, and also the further expense of having to unwind that reform further down the track as evidence of its harm emerges. The ethical approach to the length of the trial is opposite to the benefit case: if the trial shows early proven results that the intervention is causing harm, it should be discontinued.

The counterfactual is the introduction of a new approach (or “treatment” to use the language of the draft report) without a trial. It is doubtful whether it is ethically superior to introduce a new educational practice or approach without evidence of its effectiveness and run the risk, however unintended, of entrenching something that might harm children’s learning.

### **Improving the use of evidence**

We agree with the diagnosis in ch.6. For example, we agree that “enabling ongoing linkage between Commonwealth and jurisdictional data collections remains a significant gap in current linkage arrangements”. This continues to be a problem for researchers. We suggest the PC not only identify the problem but work with the responsible agencies including AIHW to develop a recommendation for solving the problem. Given the value and potential great cost benefit of linking health and education data, the report should recommend that AIHW should no longer have to wait ‘further resources from the Australian Government to gain approval to procure and link data’ (page 94). There is also great merit in a universal identifier that can be used to track children’s progress over time and into adulthood.

A further important area of interest to ARACY is creation of good evidence and then enabling the use of (or in the Commission’s words, “mobilising”) such evidence.

We agree that better data, including linking existing data and giving researchers greater access to that data, will help. In light of community mistrust of governments, ceding control of access to the data to a trusted third party is a desirable mechanism. In this context, making jurisdictions responsible for the systemic de-identification of data will be helpful, as would a universal student identifier.

The draft report in some parts appears to draw heavily on the medical evidence literature. It suggests for example that randomised control trials (RCT) are the “gold standard”<sup>12</sup>.

ARACY is strong proponent of RCTs as a way of gathering evidence in many circumstances, but urges caution about application of medical parallels to education. RCTs should be done where appropriate, but complemented by numerous other evidence gathering techniques.

Determining the causality of any given intervention requires careful research to compare expected and actual results. Within a medical model paradigm it works well with proving a single treatment delivering health benefit whilst excluding a placebo effect.

RCTs also have to exclude the very variables that need to be considered with educational interventions. This important point is made on page 13: “Education outcomes are affected by influences that the education system cannot directly manage, for example, a child’s gender and health and the culture of their home learning environment. It is important to take these external influences into account when evaluating the effects of education policies, programs and practices on education outcomes.”<sup>13</sup>

ARACY favours RCTs in many circumstances: for example, the ARACY, CCCH and WSU randomised control trial of a sustained nurse home visiting program, Right@home, is a leading example of a well conducted RCT. Nevertheless they are not always or necessarily the highest standard of evidence. Randomisation is used to address selection bias. Double blind settings in a randomised control trial address researcher bias. In education, randomisation is particularly important where there is a strong advocacy group for a new technique or organisational solution: were the advocates to choose the intervention and comparator group there would be a high probability of selection bias.

However, RCTs may not be suitable in all cases. A non-random trial that compares outcomes between an intervention group and a control group might be just as valid as an RCT in a case where selection bias is not an issue. This could for example be the case with research comparing outcomes from an intervention in a group of schools where, through an accident of funding or local advocacy, an intervention has been trialled with results from comparable schools where it has not been applied. ARACY strongly agrees that there would be value in more RCTs in education; but would argue for use of other forms of reliable evidence as well.

---

<sup>12</sup> “Gold standard” is itself a description derived from the medical evidence literature, which appears to have strongly influenced this section of the draft report. We note that even in medicine it has long been recognized that observational evidence can in some circumstances be more appropriate than a RCT.

<sup>13</sup> A further problem is that “...most evaluative research focuses on short-term outcomes of downstream interventions addressing clinical or behavioural risk factors” Pons-Vigues et al 2014

In addition, we note that governments are prone to miss opportunities for pilot testing to ensure there are no unintended consequences associated with a policy. For example, the recent State government decision to lower the school starting age to four in Tasmania would have represented an ideal opportunity to trial the approach in a specified region rather than taking an “all or nothing” gamble on its efficacy.

It is understandable that great store is placed in RCTs and meta-analyses as they have a proven track record in the biomedical field. They are however less appropriate if applied as a yardstick to inform the decisions of funders about educational programs and interventions to continue, cease or modify, or to implement alternative approaches. In most medical research based on RCTs the underlying principle for evidence is to inform what therapeutic measures effectively lead to health benefits for the patient. The equivalent to the patient in the education system is the individual student. If considering a whole population (i.e. evidence for education systems rather than an individual student) the relevant branch of medicine is Population or, more broadly, Public Health.

If medical research is to be used as a guide for evidence, an alternative approach the Commission could consider is social epidemiology’s evidence framework: this is likely to have closer parallels to education than clinical trials.

The individual as opposed to whole population approach is very different and can lead to paradoxes such as the one espoused by Geoffrey Rose: namely that large numbers of people must participate in a preventive strategy for direct benefit to relatively few<sup>14</sup>.

The draft report appears not to distinguish between approaches targeting individual students and approaches that apply across all schools. It would helpful to divide the two to take account of Rose’s paradox and also his theorem: “...a large number of people at small risk may give rise to more cases of disease than a small number who are at high risk”

### **Validation and ensuring quality of evidence**

Research needs to be validated – a key part of what ARACY does through its members. Education research can be considered a subset of broader social research. Our experience with such research is that validation to make it useful as evidence requires understanding of both methodology (to ensure the results are reliable) and applicability (to ensure that small sample, test or laboratory results are transferable into practice).

We are not sure the heading in ch. 7 “a different type of research is needed...” conveys the right message. It reinforces the impression that *all* current education research is descriptive

---

<sup>14</sup> Rose, G. 1981. ‘Strategy of prevention: lessons from cardiovascular disease’. *British Medical Journal*, 282, 1847-1851.

in nature. This is an over-generalisation. Many ARACY members with an interest in children and youth outcomes are engaged in research to determine “what works best to improve outcomes... [using] high quality, or rigorous, analysis of questions like this...and sophisticated research methods”. Recent examples include the Australian Child Wellbeing Project, recognised elsewhere in the draft report.

The draft report’s observation that research needs to be of high quality is self evident. The important question however is what constitutes an appropriate measure of quality. Peer review alone can often be insufficient – there is an extensive literature on the weaknesses of peer review as a mechanism for quality assurance<sup>15</sup>. As noted previously, a RCT can often, but may not always, be the best research methodology in terms of both validity of results and cost effectiveness. A better test is whether the research methodology has been chosen on the basis that it is the one best suited to the question to be considered.

The applicability of the research should also be part of the verification process for quality. Through its broad membership ARACY makes sure research is not simply peer reviewed academically, but is considered by users of that research. Practitioners in the field can and generally will comment with insight on the usefulness of research proposals and research results.

Evaluation, another important form of evidence, is useful if done well, but highly misleading if done poorly. When it comes to improving outcomes the quality of available evidence is at least as important as quantity. A good evaluation is relevant; ethical; independent, with no bias or preconceptions; has a sound technical methodology; and delivers useful findings focused on outcomes and impact.

We note the Commission’s support for “a central clearinghouse that efficiently and effectively disseminates high quality evidence” (p174). We draw the Commission’s attention to ARACY’s current role in doing exactly that, through our weekly e-bulletin, monthly members’ newsletter, website, the dedicated What Works for Kids website currently in construction, conferences, seminars, webinars, emails and other communications. We could, with suitable resourcing, expand this role in collaboration with members with education expertise.

### **Overcoming barriers to use of evidence**

Section 7.2 on improving use of evidence is limited in scope. While there are impediments to the use of evidence by policy makers, education providers and parents, these go well

---

<sup>15</sup> See for example Smith, R (2006) ‘Peer review: a flawed process at the heart of science and journals’ *Journal of the Royal Society of Medicine* London ; Wenneras and Wold (1997) Nepotism and Sexism in Peer Review *Nature* Vol 387/22

beyond what the draft report identifies as capacity or capability to use data (p.176, re public servants; p.178, re teachers) or interpret information (parents, p.179). We draw the Commission's attention to the extensive literature on social, cultural and institutional barriers to use of evidence in medical practice (and some in education practice<sup>16</sup>). These studies provide ample cases where evidence has been clear, unambiguous and totally ignored.

There is unfortunately less empirical evidence on barriers to use of evidence in Australia. Based on advice from our members we could put forward a few possible candidates in addition to the issues of capability as identified by the draft report. These include:

- Evidence is often dismissed, even if of high quality, when it challenges existing entrenched views on education held within education institutions or by high profile individuals
- The tendency for an education practice, once introduced, to remain in place regardless of whether or not evidence supports it; path dependence<sup>17</sup>
- Sometimes charismatic, high profile advocates can be more influential on whether or not a practice is adopted than the actual evidence
- Low levels of genuine communication between research, policy and practice
- Australia's federal system often leads to disparagement of evidence collected in one State or Territory as irrelevant or inapplicable to another (otherwise known as the "not invented here" syndrome)
- Short term decision making favours quick rollouts of new initiatives at suitable times in the political cycle even if evidence suggests a practice is not effective; meanwhile, other practices that take longer to implement may be overlooked even if supported by reliable evidence.

Further detailed inquiry would be required before we could reach conclusions on these suggestions. We recommend the Commission investigate these and other possibilities. We

---

<sup>16</sup> Jacob, B (2015) *When Evidence is Not Enough: Findings from a Randomized Evaluation of Evidence-Based Literacy Instruction* (EBLI) NBER Working Paper No. 21643, Washington DC. See also Bostic, R *Narrative and vehicle: using evidence to inform policy* (at <http://www.whatcountsforamerica.org/portfolio/narrative-and-vehicle-using-evidence-to-inform-policy/>). We particularly note his view that "developing evidence is not a sufficient condition for implementing evidence-based policy. More is needed".

<sup>17</sup> See for example Bradford, D and Wan W (2015) *Reading Recovery: a sector-wide analysis*, Centre for Education Statistics and Evaluation, NSW Government, Sydney. This study examined, for the first time, the evidence for a reading program and found it wanting: after it had been in place for more than 30 years. This case is a good illustration of the value of establishing data and analysis units in education departments.

note the current work being done by Prof. Brian Head on use of evidence in public policy as a good starting point<sup>18</sup>.

### **An evidence institution**

On institutional arrangements, we again note that ARACY is already in place to encourage the application of evidence to practice; the difference between ARACY and other bodies is that we take a holistic view of children and youth needs. These encompass not only learning but also safety, health, material needs, participation, and a positive sense of culture and identity. Consideration of learning in isolation will miss these other key elements and their interaction. To take a simple example: a child will be far less likely to achieve success in learning if hungry, homeless, subject to repeated violence or in severe ill health.

We note the governance arrangements for a proposed evidence organisation as suggested in the draft report omit some important aspects of good governance such as ethics and legality; we suggest the Commission consider a broader approach to governance<sup>19</sup>.

If an evidence collecting and dissemination institution is established it should be flexible and open to alternative forms of evidence rather than confined to predetermined approaches. A culture in which evidence is collected and analysed in as frequent and varied a fashion as possible will allow for serendipity: if a school, early learning centre, non-government organisation or individual has developed an effective education practice, supported by a range of reliable measures, it is important that others know about it.

### **Use of AEDC in evidence**

A comment on page 79 refers to the expense of NAPLAN and AEDC and suggests this expense could be reduced by sampling such as “high risk or disadvantaged groups”. In relation to the AEDC this would render it no longer a census and would run counter to Rose’s argument against the high risk approach as well as Marmot’s ‘proportionate universalism’ which could be equally applied to student populations: To reduce the steepness of the social gradient in health, actions must be universal, but with a scale and intensity that is proportionate to the level of disadvantage.

---

<sup>18</sup> See for example Head, BW (2016) Toward more evidence-informed policymaking? *Public Administration Review*, 76 (3): 472-484; Head BW, Ferguson M, Cherney A, and Boreham P (2014) Are policy-makers interested in social research? Exploring the sources and uses of valued information among public servants in Australia. *Policy & Society*, 33 (2): 89-101.

<sup>19</sup> see for example Ramesh M, Saguin K, Howlett M, and Wu X (2016) Rethinking Governance Capacity As Organizational and Systemic Resources, Lee Kuan Yew School of Public Policy Research Paper No. 16-12, available at: [http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2802438](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2802438); or Bartos S. (2004) *Public Sector Governance Australia*, CCH, Sydney. We do appreciate that there is little experimental evidence for governance practices, most of the literature is based on observational evidence.

Although the cost of the AEDC is not identified in the draft, it is likely not to have included the return on investment from the community mobilisation and implementation of preschool strategies precipitated and motivated by the provision of the results to local and regional policy makers<sup>20</sup>. This needs to be considered in any review of whether the AEDC is “fit for purpose”. Arguably its fitness for purpose is yet to be fully realised. It has already been found to predict NAPLAN scores<sup>21</sup>; it is likely only a matter of time before the AEDC results will predict entry to tertiary education, employment and longevity with many future opportunities to inform policy and program interventions.

We have a concern with the observation on page 81 that “...there would be benefit in early identification of children who might be vulnerable to poorer education outcomes, the evidence suggests that assessment of all children would be difficult and would not yield reliable information.” We observe that child and family health nurses and/or general practitioners at present conduct periodic growth and developmental assessments in the years prior to children commencing formal schooling. These are used to identify early signs of speech, language, motor skill and other developmental delay, and facilitate early intervention via referral to targeted services. This early engagement with preventative health care is an essential feature of the Australian system and near universal.

Research suggests that by the time children start school, inequalities in learning and development are already entrenched, and trajectories are difficult to shift. The draft report’s recommendation on page 85 that all children be assessed in year 1 seems counter to the observation on page 81. Screening in Year 1 would not be timely, as it would miss both the most sensitive periods of early development and have no influence on AEDC results.

---

<sup>20</sup> See Guhn M, Janus M, Hertzman C. The Early Development Instrument: Translating School Readiness Assessment Into Community Actions and Policy Planning. *Early Educ Dev.* 2007 Oct 11;18(3):369–74; Sayers M, Coutts M, Goldfeld S, Oberklaid F, Brinkman S, Silburn S. Building Better Communities for Children: Community Implementation and Evaluation of the Australian Early Development Index. *Early Educ Dev.* 2007 Oct 11;18(3):519–3; McCormack JM, Verdon SE. Mapping speech pathology services to developmentally vulnerable and at-risk communities using the Australian Early Development Census. *Int J Speech Lang Pathol.* 2015 May 4;17(3):273–86; O’Connell M, Fox S, Hinz B, Cole H. Quality Early Education for All.

<sup>21</sup> Brinkman S, Gregory T, Harris J, Hart B, Blackmore S, Janus M. Associations Between the Early Development Instrument at Age 5, and Reading and Numeracy Skills at Ages 8, 10 and 12: a Prospective Linked Data Study. *Child Indic Res.* 2013 Apr 14;1–14.



## **Case Study - Building evidence in education - Parent Engagement**

Parents' attitudes, values and actions positively influence children's education outcomes.

Partnerships between families and schools play a big role in supporting, promoting and encouraging children's learning and wellbeing.

At a practical level, parent engagement involves all the people in a child or young person's life working together to create a stimulating and supportive learning environment. This means there's a role for schools to work in partnership with families and to build their capacity for parent engagement. Equally, it's important for families to take up these opportunities in their everyday interactions with their children, to promote reading, encourage children to pursue their passions and connect learning at school, in the home and in the community.

### **Why is parent engagement important?**

The classroom is not the only place that children learn. Parent engagement recognises that families guide their children's orientation towards learning, from birth.

This means that families have an important role to play in helping their children to become confident and motivated learners, regardless of parents' occupation, education or income.

Research shows that children's learning and wellbeing improves when families and schools work together. Parent engagement affects what children achieve, how they experience school, and assists in the transition to school and into post-secondary education.

Parent engagement has also been shown to reduce the impact of socio-economic disadvantage on educational outcomes.

### **About ARACY's Parent Engagement Project**

ARACY's work has been commissioned by the Australian Government Department of Education and Training over four years (2014 – 2018), with a specific focus on primary and secondary school age children.

The project has a broad national focus and will also address the specific needs and priorities of Aboriginal and Torres Strait Islander families and communities.

Through the project, ARACY will use the best available evidence to facilitate a shared understanding of what parent engagement is and why it matters. It will build and share information about 'what works' to strengthen parent engagement, and contribute to a shared approach to measurement to enable the ongoing assessment of the impact and effectiveness of parent engagement policies and strategies.

## Work streams and priorities for the Parent Engagement Project

<b>Develop a shared understanding</b>	<b>Build the profile</b>	<b>Data and measurement</b>	<b>Build and share Evidence</b>
<p>Conduct high qualitative research with families and educators to understand the beliefs, attitudes and practices around engagement in learning and wellbeing</p> <p>..</p> <p>Promote an evidence informed approach to parent engagement between families, schools, researchers and policy-makers</p> <p>..</p> <p>Develop practical resources to help schools, community organisations and others forge family-school partnerships based on trust and two-way communication about parent engagement.</p>	<p>.. Establishing and maintaining relationships with key stakeholders</p> <p>.. Utilising National Ambassadors to highlight the important role parents play in supporting their children's learning</p> <p>.. Develop Local Champions to promote evidence informed approaches to parent engagement within their communities</p> <p>.. Implement an Australian Parent Engagement Network to facilitate information sharing, collaboration and evidence-to-practice nationally</p> <p>.. Facilitate ongoing collaboration, partnership and engagement to promote and build parent engagement in Australia.</p>	<p>Support outcome measurement in research and practice of parent engagement through:</p> <p>.. a shared national definition of parent engagement</p> <p>.. the continuous review of data collections and measurement of parent engagement in both research and evaluation of programs</p> <p>.. a framework to support ongoing measurement and evaluation of parent engagement programs.</p>	<p>.. Critically review and share Australian and international research and practical evidence about 'what works' to improve parent engagement practice</p> <p>.. Contribute to capacity building for parents, teachers and school leaders.</p>

## The Australian Parent Engagement Network

The Parent Engagement Project aims to develop a shared understanding of parent engagement and to disseminate information about 'what works' to strengthen its practice and encourage ongoing measurement of its impact. As a key part of the project, ARACY is establishing the Australian Parent Engagement Network, a virtual space for people passionate about engaging families in their children's learning and education to collaborate on and develop a better understanding of evidence.

Convened by a panel of experts working in the field of parent engagement, Network members include researchers, educators, parents, policy makers, community organisations and others interested in parent engagement in children's learning.

The Network has four core functions – to share information, to advocate for parent engagement, to build partnerships and to provide expert consultation to the Parent Engagement Project. Overall, the goal of the Australian Parent Engagement Network is to drive better understanding and promotion of parent engagement with the aim of embedding the concept and its practice in schools across Australia.