Towards a good education in very remote Australia: Is it just a case of moving the desks around?

John Guenther, Flinders University/CRC-Remote Economic Participation

Melodie Bat, Charles Darwin University/CRC-Remote Economic Participation

The work reported in this paper is supported by funding from the Australian Government Cooperative Research Centres Program through the CRC for Remote Economic Participation. The views expressed herein do not necessarily represent the views of the CRC for remote Economic Participation or its Participants.

Abstract

The education system, as it relates to very remote Aboriginal and Torres Strait Islander communities in Australia, faces considerable challenges. While considerable resources have been applied to very remote schools, results in terms of enrolments, attendance and learning outcomes have changed little, despite the effort applied. The Cooperative Research Centre for Remote Economic Participation (CRC-REP) in its Remote Education Systems (RES) project is trying to understand why this might be the case and also attempting to identify local solutions to the 'problem' of very remote education.

The RES project is in the process of building its research program across five remote sites in the Northern Territory, South Australia and Western Australia. As the project begins, the researchers involved have begun to consider what the assumptions behind the 'system' in its current form(s), are. The paper begins with an outline of the context of remote education in Australia within a rapidly changing global environment. However, the purpose of the paper is to outline many of the assumptions built into remote education and to ask what the alternatives to these assumptions might be. The authors go on to imagine a different education system in remote communities where 'success' is measured and achieved in terms of the community's imagined future for its children and young people. There are of course risks associated with trying new things, but ultimately given the apparent failure of remote education—measured by its own indicators of success—the authors ask 'what have we got to lose?'.

Introduction

Unfortunately, the public literature and perception about education in very remote Aboriginal and Torres Strait Islander communities is replete with the word 'failure'. The comparative statistics, whether presented in terms of academic performance, attendance, retention to Year 12, transition to higher education, transition to employment, teacher retention or any of a number of other indicators, invariably show that Aboriginal and Torres Strait Islanders living in very remote parts of Australia consistently fare worse than those who are non-Indigenous and anyone living in urban, regional or even remote parts of the nation (see for example Steering Committee for the Review of Government Service Provision, 2011).

What is the education system? When we refer to the 'system' here we are speaking generically about an 'interconnected set of elements that is coherently organized in a way that achieves something' (Meadows, 2008: 11). In this paper, we are speaking specifically about the education context in Australia, about the whole parts of education rather than about the different jurisdictions and school systems.

The very remote education system faces huge challenges—a significant sector of that system is not presenting results commensurate with the stated goals of the system. This is not for want of effort or professional expertise. It is fair to say that considerable effort and resources have been put into making the system work better in order to improve outcomes for Aboriginal and Torres Strait Islander students. However, to date, even the best reported results fall well short of the Australian system's own benchmarks. The research challenge then is to find practical ways that make a meaningful difference for remote communities—is there a way to increase these outcomes; is the system perhaps measuring the wrong things; or is there perhaps a need to change the very system? The consideration of these questions is the intention of the Cooperative Research Centre for Remote Economic Participation and its Remote Education Systems research project.

The purpose of this paper is not to provide answers, but simply to raise questions. For the pragmatically minded, these questions may be somewhat frustrating. However, if the underpinning assumptions that provide both the foundations and imperatives of the education system are inappropriate for very remote Australia—or just do not work—then serious consideration needs to be given to these questions. Otherwise, the kind of innovation we end up doing in remote education will be little more than moving the desks around.

Background and context

Global change

Change is happening. What is more, the rate of change is increasing with time particularly in the way people access information, the way we all communicate with each other, the way we do work or business and the way we get around. To a large extent technology is driving the change. Breakthroughs in medicine and the sciences regularly feature in the news. But what about breakthroughs in education? Ken Robinson (2011: 81) comments:

The rate and scale of change engulfing the world is creating a tidal shift in how people live and earn their living. We now need to be equally radical in how we think of education. Raising standards alone will not solve the problems we face: it may compound them.

Education in and for remote Australian communities

This global shift is also making its impact in the remote communities of Australia. If you walk into a classroom in a remote school, it is immediately identifiable as a classroom in an Australian school. There may be some different languages represented there, but still it looks the same. Despite the geographical, sociocultural, linguistic and epistemological diversity that exists within remote Australia and between remote and urban Australia, the education system in remote Australia is largely built on urban or regional models with all the assumptions that go with education in those locations.

The one exception is the 'School of the Air' model, which is designed primarily for children who live on isolated cattle stations, national parks or road houses. While Aboriginal or Torres Strait Islander children are not excluded they are generally not well represented in the student population. For example, the *My School* website (Australian Curriculum Assessment and Reporting Authority, 2010) shows that the Katherine School of the Air records Aboriginal and Torres Strait Islander participation as 18 per cent.

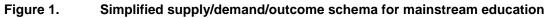
The other models used for education of students in remote Australian communities tend to be either community-based schools or boarding schools. Some boarding schools are set up specifically for Aboriginal or Torres Strait Islander students (for example Tiwi College, Yirara College, Djarragun College). Most boarding options for remote students are based in urban settings where, to varying degrees, Aboriginal and Torres Strait Islander students are integrated into a mainstream program (for example Marrara Christian College, Immanuel College, the Wiltja Program at Woodville High School and Kormilda College).

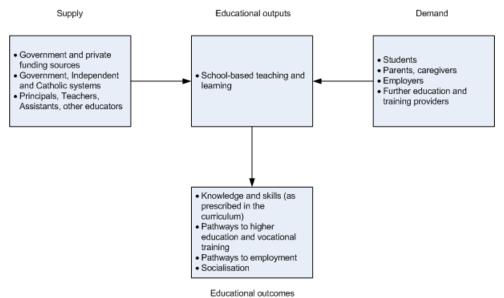
In terms of education for students who stay in very remote communities there is little choice but to participate (or not) in what is offered at the 'local' school—not all very remote communities have a school campus. Based on an analysis of the *MySchool* website, there are 254 schools located in very remote Australia in six jurisdictions. About 100 of these have enrolments of less than 40 students. Almost half (123) of the very remote schools have an Aboriginal and Torres Strait Islander student population above 80 per cent. About one-third are located in the Northern Territory. About one-third (85) of the schools are primary only schools. Another 14 are secondary only and the balance are combined primary/secondary schools with varying secondary endpoints. The large majority (91 per cent) are government schools that operate under the direction of State and Territory departments of education.

Yet, the expectation in the mainstream is that the universal model of educational supply and demand follows a schema like that shown below in Figure 1. Government and private providers are funded to deliver an education with the help of school staff in a school-based environment. Demand for education in this model is essentially driven by students and their parents/carers, employers and industry as well as higher education and training providers. In this (over)simplified model, the shared expectation of those on the demand and supply side is that students will complete their compulsory education with all the knowledge and skills required by the curriculum, ready for work or further education and training, having been socialised in the system to conform to the norms and values of the broader society (OECD, 2006). But as Leadbeater (2012) points out in his global discussion about innovation, education and what motivates children to attend school:

There is a widespread assumption that the biggest challenges are on the supply-side of education: if we can just get more children into school for longer then everything should sort itself out. We assume that most parents want their children to be at school and that most children want to go. Yet many of the most significant challenges we face may be on the demand side: parents and children do not invest in education because they see little point in doing so. It could be that it's their low aspirations that lead to low attendance and poor outcomes. (p. 98)

In the Australian context, the discussion about demand and supply push- and pull-factors is at times contentious. Pearson (2007: 2) who is often criticised for his call for an end to what he describes as 'passive welfare' also recognises that: 'On the demand-side, as well as renewed real commitment to government accountability, we need strategies aimed at building the local demand for learning and demand for quality teaching'.





However, this simplified model, which it could be argued works quite well in metropolitan, regional and rural communities is problematic when applied to remote communities On the supply side, the system as it is, is confronted with issues of teacher turnover, teacher quality, pre-service teacher education, recruitment, housing, leadership, workload and feelings of isolation for staff who relocate. These issues are all well documented in the research literature (see for example Hudson and Millwater, 2009, Lock, 2008, Sharplin, 2009, Department of Education, 2011).

The problem on the demand side is often articulated through expressed frustration that parents are not sending their children to school. "We know children need to go to school every day in order to get the best possible education" (see for example Burns and Henderson, 2010), represents the determination of the supply side in its efforts to manage the demand side of education in order to increase outputs and thereby, outcomes. The solution for the 'problem' then translates into finding ways of helping young people fit within or adapt better to the education system, with parents being penalised for apparently not taking their responsibility seriously (Wright et al., 2012).

The high attrition rates for Aboriginal and Torres Strait Islander people participating in secondary remote schools suggests that for the majority of students there is little in the current education system to attract them or keep them there. Data from the Australian Bureau of Statistics (ABS, 2011a) shows that in 2008, 10 per cent of non-Indigenous young people aged 15 to 19 were neither studying nor had completed Year 12 or a higher qualification while for Aboriginal and Torres Strait Islanders in remote areas of Australia, almost 40 per cent were neither studying nor had completed Year 12 or a higher qualification. The data presented by the ABS in this case only shows remote Australia. It is likely that the difference would be much greater for very remote Australia.

While much of the research and literature assumes the education system as a given, and therefore assumes that Aboriginal and Torres Strait Islanders must fit within it, little attention is given to imagining a remote education system that would change in such a way to make it attractive for those living in very remote communities to stay in school (if there indeed is one there) to complete year 12. It is fair to say that changing the system is probably the harder of

the two tasks. But at a local level it may be possible to model a system that does work to make it not only attractive but effective for remote communities to engage in formal learning for longer than they currently do.

System assumptions

The inherited structure

Picture for a moment the 'typical school classroom' – what immediately springs to mind to most, if not all, is a room with desks, chairs, books, shelves and cupboards with resources, and some form of instructional tool at the front of the room, say a blackboard, whiteboard, or perhaps smartboard. The classroom is run by a teacher, who may have an assistant or two helping with the children who have special needs. Lessons are structured to a timetable. Classes all run to the same timetable. The staff of the classes are managed by a management structure that includes a senior teacher, assistant principal/s and a principal. The number of levels of management is typical, but the numbers in each level differs according to numbers. Only in the smallest of schools would the roles of principal, assistant principal, senior teacher and sometimes even teacher be held by the one person. However, the roles can all be clearly delineated. You could ask almost anyone in Australia to describe a school classroom and this is what they would come up with—but why? Where did this system come from?

While 'education' itself has shifted, with the relationships between teacher and student changing, and with the purposes, philosophies of education and curriculum adapting, the classroom of today is still instantly recognisable as the direct descendant of the classroom generated out of the German comprehensive schools established in the 19th century—an 'industrial model of schooling' (Gerver, 2010: 59). The following description of the methods of teaching employed in schools in the late 19th and early 20th century is perhaps not all that different from what many would espouse as the ideal classroom today.

Methods of teaching in primary and secondary schools assumed that schools would be divided into classroom groups of pupils of approximately the same age, and that pupils would be taught together in each of these groups. ...By 1900, teaching typically proceeded on the view that the teacher's principal task was to manage a classroom efficiently, that, in doing this, he should be able to instruct his pupils clearly, methodically, and thoroughly in a group, that the pupils should be directed by the teacher in what they learnt and how they learnt it, that the principal sources of their information should be the teacher and the textbook selected by the teacher, and that they should accept and reproduce the ideas the knowledge prescribed for them in quiet and well-disciplined manner. (Connell, 1980: 4)

The question must be asked then about why the need for this structure? Surely education has evolved over the past 120 years or more? Of course—we have seen the rise of socially responsive education, the shift from instruction to education, innovations in curriculum and pedagogy, the advent of the twenty-first century skills of critical thinking and problem solving, the integration of technology into learning and lifelong learning (Caldwell, 2011a). And yet, those structures are still in place. Perhaps it is because those structures are more about control and behaviour management rather than about education, perhaps it is resonant of the need for a physically defined space for *teaching* to be delivered, rather than for *learning* to be generated. In this era of extreme accountability and reporting these structures provide perhaps the safest place from which to be seen to fail. After all, if all of the desks are lined up, then surely a 'good' education will ensue.

Benefits of a 'good' education

The arguments for a 'good' education are compelling. We offer a set of eight assumptions which we see as inherently assumed and uncontested within Australia. We would stress that these assumptions are not 'bad'-indeed for the majority of Australians they work quite well. However, the literature is scant in support of these assumptions. Biesta (2009a: 37) suggests that the absence of a discussion in the literature about what constitutes good education is because of an 'implicit reliance on a particular 'common sense' view of what education is for'. He also asserts that the emphasis on comparative data which 'give the impression that the data can speak for themselves' (Biesta, 2009b: 1). Biesta himself does not attempt to define what 'good education' actually is, perhaps because of the subjective moral connotations of the word 'good'. However, the attempt with this list is to provide a foundational and functional understanding of the assumptions underpin that education/schooling in Australia.

- Assumption 1: A good education is built on the core foundations of quality leaders, teachers, teaching, attendance, classrooms, curriculum, accountability, choice and associated administrative structures and infrastructure.
- Assumption 2: A good education (in Australia) promotes high standards of English language and literacy, as well as numeracy—it has a global knowledge economy imperative.
- Assumption 3: A good education supports the values and norms of the mainstream society it has a socialisation imperative.
- Assumption 4: A good education is a pathway to further and higher education—and is underpinned by an academic imperative.
- Assumption 5: A good education supports learners' career aspirations—it has a work imperative.
- Assumption 6: A good education supports learners' emerging independence—and is underpinned by an economic imperative.
- Assumption 7: A good education is focused on individual performance—it has a competitive imperative.
- Assumption 8: A good education supports learners to engage with the broader society—it has a civic participation imperative.

The benefits that accrue from this 'good education' result either directly or indirectly from the imperatives of Assumptions 2 to 8. We have deliberately not included any reference to equity imperatives in our list of assumptions. The 'school choice' agenda coupled with the trend toward privatisation of schools in Australia (see Caldwell, 2011b) can have a negative impact on equity, particularly in terms of socio-economic segregation (OECD, 2012b). School choice is now sufficiently embedded in the culture of schooling in Australia to ensure that equity concerns are likely not at the core of education.

However, the empirical evidence that education and learning is related to a range of benefits including social equity (OECD, 2012b), health (Ross and Mirowsky, 2010), justice and criminal behaviour (Machin et al., 2011, Lochner, 2011), employment, economic and

developmental (Hanushek and Woessmann, 2009, OECD, 2012a), family and individual outcomes (Schuller et al., 2004) is readily available in an array of literature. Economists Oreopoulos and Sylvanes (2011) identify a range of what they term 'non-pecuniary' benefits of schooling:

Schooling generates occupational prestige. It reduces the chance of ending up on welfare or unemployed. It improves success in the labor market *and* the marriage market. Better decision-making skills learned in school also lead to better health, happier marriages, and more successful children. Schooling also encourages patience and long-term thinking. Teen fertility, criminal activity, and other risky behaviors decrease with it. Schooling promotes trust and civic participation. It teaches students how to enjoy a good book and manage money. (pp. 179-180)

The hope of education is that it leads to a better life, particularly for those living on the margins of society. Leadbeater (2012: 23) suggests that education 'offers them a hope that their place in society will not be fixed by the place they were born' and that through education people can 'remake their lives'.

However, if the values attributed to education and learning are as great as they are purported to be, one would assume that young people—particularly those living at the margins—would be scrambling for a 'good education'. Why is it then not always so? In particular, if education is valued by remote Australian Aboriginal and Torres Strait Islander communities, why do students *not* buy into the assumptions we have listed above?

The current system fails

While it is tempting to find a 'magic bullet' which fixes the perceived problem of remote education, the issues are indeed more complex than some would suggest. For example, Hughes and Hughes (2012) assertion that the 'causes of high indigenous failure rates are in classrooms that do not deliver quality literacy and numeracy instruction'. A range of other apparently simple solutions likewise focus on one or two elements of the whole system. These foci include an emphasis on attendance (Purdie and Buckley, 2010), building Aboriginal and Torres Strait Islander workforce capacity (More Aboriginal and Torres Strait Islander workforce capacity (More Aboriginal and Torres Strait Islander vorkforce capacity (More Aboriginal and Torres Strait Islander Vertice (Lea et al., 2011), as well as any number of other 'what works' strategies (What Works, 2011). The reality—acknowledged by most of the authors cited above—is that the reasons for failure are far more complex. Indeed, if any of the singular approaches had worked consistently and in a sustained way, then they would have been scaled up within the system.

The point we make in this paper is that the 'system' is highly complex. It comprises educational providers on the supply side, families, communities and students on the demand side as well as end users such as employers and universities. A 'given' within this mix of providers and users is the involvement of governments in funding for schools—where even in the independent school sector, 45 per cent of recurrent income comes from government sources (Gonski et al., 2012: 15) There may be a temptation to lay blame for failure on a single component of a system where cultures—and therefore norms, values and behaviours—intersect. The foundations of the system's failure are arguably built rather on the set of assumptions about what makes a 'good education'.

Imagining a different education system for remote communities

As part of our research agenda with the Cooperative Research Centre for Remote Economic Participation we want to explore alternative models for provision and uptake of learning opportunities in remote Australia. While we note that there is a lot of activity and innovation in the educational space in remote Australia, much if not all of it is firmly grounded in the assumptions that underpin the foundations and imperatives listed earlier. In this section we want to posit a set of questions that may shift thinking or at least question the assumptions we have listed. The supply side of the system (as shown in Figure 1) is far from culture free. Rather, it is laden with values and philosophical assumptions that have been developed and established over the last century, as has been well articulated by Robinson (2011) in his book *Out of Our Minds*. As Robinson challenges the educational landscape generally, we want to put forward a different way of thinking about remote education.

Alternative thinking about the foundations of a good education in very remote Australia

Instead of focusing so much attention on school buildings, classrooms, desks, teacher quality, terms and curriculum, we would like to suggest some different perspectives as they may apply to remote education. These perspectives question the nature and definition of 'success' in very remote education.

There is a lot of incremental innovation happening in Australian remote education. Much of this innovation is about doing 'things' better. Those 'things' could be about leadership, attendance, literacy and numeracy, curriculum, governance, or teacher quality. According to Leadbeater and Wong's (2010) *Learning from Extremes* innovation grid, 'Improvement in our current schools, on its own, will not be enough to meet the growing and changing demands of governments, parents, and children' (p. 4). They suggest that innovation that transforms informal learning and reinvents formal learning will be necessary. In short, disruptive innovation goes well beyond 'moving the desks around'.

→ Why not consider opportunities for 'disruptive innovation' and informal learning opportunities in remote Australia?

A key focus of the attempt to improve outcomes is to improve teacher quality—and perhaps rightly so, given the evidence base (Hattie, 2009). This is reflected in the codification of *National Professional Standards for Teachers*. These standards (Australian Institute for Teaching and School Leadership, 2011) make a significant contribution to professional quality for teachers. Importantly, the first standard is about knowing students and how they learn and in remote Aboriginal and Torres Strait Islander contexts, this is worthy of attention. While we do not necessarily suggest the codification of standards that are required for quality learning, if teaching takes place in environments that do not support quality learning, the quality of teaching is arguably worthless.

\rightarrow Why not consider what standards are required for quality learning, rather than quality teaching?

According to the Australian Bureau of Statistics (ABS, 2011b) 'Year 12 attainment is regarded as a key factor in the formal development of an individual's skills and knowledge. Those with Year 12 have a greater likelihood of continuing with further study, particularly in higher education, as well as entering into the workforce'. This fits neatly with the Assumptions 2, 4, 5 and 7 listed earlier. While not wanting to diminish the importance of this

measure of success, it is perhaps more important in remote communities that those who come out of the 'education system' can contribute something within their community. Many of the jobs envisaged in the ABS assertion are not necessarily in the community from which the graduate comes. The migration of youth from remote communities is seen by some as a devastating loss. Having young people as role models developing leadership skills and working for the good of their family and community may be a worthwhile outcome, just as valuable as Year 12 retention.

→ Why not consider 'community contribution' as a measure of success instead of Year 12 retention?

A lot of attention in Australia has been placed on improving student outcomes by increasing attendance. The argument for this is compelling: 'How can children learn if they don't attend?' And indeed at a national and state/territory level there is evidence of a strong association between student performance and attendance (Zubrick et al., 2006, Miller and Voon, 2011). However, our assessment of NAPLAN data at the very remote level and for those schools which have more than 80 per cent Aboriginal and Torres Strait Islander students, indicates that the relationship breaks down. Our argument is that rather than a focus on attendance and applying another level of stress to the reporting/accountability of the schools, the focus should be on children learning every day.

→ Why not consider a motto that suggests 'every child learning every day' instead of a focus on attendance?

Autonomy and accompanying accountability for student outcomes in schools is emerging as an issue for many schools in Australia (Klenowski, 2011, Productivity Commission, 2012, Western Australia Department of Education, 2011). It is argued that schools perform better when systems of accountability are in place (Schütz et al., 2007)—that is, teacher quality improves and student outcomes improve (Santiago et al., 2011). While it could be argued that accountability and transparency are designed to support parent choice, reporting mechanisms are predominantly designed to feed back to funders, and in particular state and territory departments of education. Questions remain about how effective the accountability measures are in terms of reporting back to remote communities.

 \rightarrow Why not consider measures of accountability to the community, rather than measures of accountability to funders?

It is difficult for those who have learned in, taught in and even researched in the current education system to imagine a system that is not bounded by the assumptions presented here. This is not to suggest that the current system is 'bad'—it has served many Australians very well. However, in the context of remote education in Australia, there should be space to think well and truly outside the square. We can learn from international experiences of innovation and thinking—in particular drawing on the likes of Leadbeater and Robinson, whose work was discussed earlier. The imperative for disruptive innovation is not just the apparent failure of the education system. Rather, the imperative for innovation in education arises from the pace of change which is happening in an increasing global environment (Istance, 2011). Hannon et al (2011), suggest that the focus needs to switch from engagement with school to engagement with learning. They propose an 'innovation ecosystem' that incorporates digital

technologies and what they term 'learner ownership'. While not wishing to devalue the core of conventional education, it may be timely to engage our thinking in these kinds of ideas.

\rightarrow Why not think about creating the future of education instead of recreating the past?

Alternative thinking about the imperatives of a good education in very remote Australia

We now switch our attention to the imperatives of a good education, which were listed earlier in Assumptions 2 to 8. Again, we are not suggesting that we necessarily abandon these imperatives. Rather we are questioning whether there could be a different way of looking at them as we consider a good education in remote communities.

Arguably, for most Australians the economic imperative for education is essential: What is the point of learning in schools if it does not help students get into a career?. (Cranston et al., 2010) Economic independence is no doubt a core value of mainstream Australian culture and tends to take precedence over socialisation and equity values. Australian social commentator and researcher Hugh Mackay (2010) describes this imperative as 'the desire for more' and the 'desire for control'. However, that value may not follow to the same extent in remote communities. A recent report on a gathering in Alice Springs, organised by the Healing Foundation (2012), identified a range of issues that were causing disharmony and imbalance among Aboriginal and Torres Strait Islander communities and a range of things that could restore the balance. The extensive list did not include one mention of jobs or economic imperatives. Rather, the focus was clearly on culture and well-being.

\rightarrow Instead of focusing on the economic imperative, why not focus on a well-being imperative?

The academic imperative is entrenched in the values of schooling. Is there a better way to describe success for a Year 12 completer who has achieved a TER score of 99? There is evidence to suggest that Aboriginal and Torres Strait Islander students, racial identity and self-concept do matter and they are correlated with academic outcomes (Kickett-Tucker and Coffin, 2011). Sarra (2011), in *Strong and Smart* points to the importance of schools developing strategies that reinforce Aboriginal identity. Pearson (2011), while disagreeing with Sarra on other issues, agrees with that point. None of these authors would suggest that academic achievement is not important. The question is simply one of priority:

 \rightarrow Instead of focusing on the academic imperative, why not consider an identity imperative?

We have already suggested that perhaps community contribution needs to be considered as a measure of success ahead of Year 12 completion. It is tempting to conclude that the career imperative is shared equally by all Australians. But is it? Without doubt there are individuals in remote communities who aspire to have a career, but in our work the question of aspiration arises frequently. For example in a recent survey conducted for the Nyangatjatjara College, based at Yulara in the Northern Territory, the data showed few students who could envision a career or even a job beyond school. While community members did not ignore the possibilities of work beyond school it was clear that they had other priorities too, such as connection to country, language learning and use of digital technologies (Osborne, 2012).

→ Instead of focusing on individual career imperatives, why not consider imperatives built on community aspiration?

Ken Robinson's (2011) focus on creativity is worth considering. He contrasts the 'tension between the world views that emanate from the Enlightenment and those that come from Romanticism' (p. 178). According to Robinson, the world views of the former, with a focus on rational thinking tend to prevail over the latter which are based on 'naturalist' assumptions. Again, there is nothing 'bad' about the rational but the question remains: have we got the balance right, particularly in remote education?

→ Instead of focusing on knowledge performance, why not consider imperatives built on creative performance?

Education is both individual and competitive. Biesta (2009a) describes the inherent assumptions of learning as 'basically an individualistic concept. It refers to what people, as individuals do—even if it is couched in such notions as collaborative or cooperative learning.' (pp. 38-39). The outworking of this concept is demonstrated in individual examinations and assessments. Trudgen (2000) in his discussion about the way new information is received in Yolŋu society, suggests that in order to be accepted it must receive peer affirmation—it is debated by the whole group. Kral (2007) writing about Ngaanyatjarra literacies, also suggests that collaborative or situated learning approaches are preferred over individualised, competitive approaches. Again, while there are good reasons for the competitive imperative, why should it not be collaborative instead?

\rightarrow Instead of the competitive imperative, why not consider a collaborative imperative?

We could go on to further question many other unstated assumptions of the system, but there is enough in the above discussion to provoke a deeper discussion about the assumptions and imperatives of a good education as it applies to remote Australia. However, while we can theorise about these assumptions—and either agree or disagree—the bigger question may well be more pragmatic. How would the education system respond if an alternative set of assumptions were applied to teaching and learning in remote communities? What if our classrooms were spread throughout the community, what if teachers offered learning experiences rather managed classrooms—what if we didn't have desks?

Implications for a transformed remote education system

There are of course a number of implications for a transformed remote education system, which cannot be ignored. While these are acknowledged in terms of: teacher education and professional development; definitions of success; assessment methods; and pedagogical approaches, among a multitude of other things the purpose of this paper is not to propose solutions. Rather it is to raise questions and promote a discussion about ways forward. What is clear though, is that in order to tackle the issues raised, the 'system' needs to engage experienced very remote educators who understand the context. But importantly also, it needs to engage innovative things from outside the system, whose thinking is not constrained by a history of learning, working and researching in the system as it is.

Conclusions

The Cooperative Research Centre for Remote Economic Participation is in the early days of an extended research program, which has the potential to—and intends to—find solutions to

some of the problems found in very remote education in Australia. However, before we find the answers, it is important to ask the right questions and also to consider some of the assumptions that underpin the basis of the 'system' we are examining. This paper is an attempt to do just that.

It is fair to say that there has already been considerable energy and effort put into trying to address the complex issues that face teachers and schools in very remote Australia. Much of this effort is focused on innovation that is directed at improving the current system. Such improvements are important and should be encouraged. However, they will not necessarily result in the kinds of outcomes required to transform or create a 'new paradigm' for very remote education.

The experience of education for most Australians is built on their 12 or more years spent in the classroom. The classroom is a potent symbol of school-based education. While the metaphor of 'moving the desks around' may seem a little simplistic and perhaps even disrespectful of the huge effort put into improving education in very remote Australia, it does provide a useful place to start a discussion about what more radical innovation might look like for teachers, learners and communities.

References

- ABS. 2011a. 4725.0 Aboriginal and Torres Strait Islander Wellbeing: A focus on children and youth, Apr 2011 [Online]. Canberra: Australian Bureau of Statistics. Available: <u>http://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/4725.0Main+Features1Apr %202011</u> [Accessed November 2011].
- ABS 2011b. Australian Social Trends March 2011. Cat. 4102.0, March 2011, Australian Bureau of Statistics. Retrieved October 2011 from http://www.ausstats.abs.gov.au/ausstats/subscriber.nsf/0/00ABBB1BCCE82509CA2578 5B000D8DDD/\$File/41020_ASTMar2011.pdf.
- AUSTRALIAN CURRICULUM ASSESSMENT AND REPORTING AUTHORITY. 2010. *My School: Katherine School of the Air, Katherine NT* [Online]. Sydney: ACARA. Available: <u>http://myschool.edu.au/MainPages/SchoolProfileRep.aspx?SDRSchoolId=810000</u> <u>000096&DEEWRId=7928&CalendarYear=2010&RefId=IZmz4jr6pvIbDBK0wDoWFAOzk</u> <u>gR316Xh</u> [Accessed November 2011].
- AUSTRALIAN INSTITUTE FOR TEACHING AND SCHOOL LEADERSHIP 2011. National Professional Standards for Teachers, February 2011, AITSL. Retrieved July 2012 from <u>http://www.teacherstandards.aitsl.edu.au/static/docs/AITSL_National_Professional_Stan</u> <u>dards_for_Teachers_Final_110511.pdf</u>.
- BIESTA, G. 2009a. Good education in an age of measurement: on the need to reconnect with the question of purpose in education. *Educational Assessment, Evaluation and Accountability*, 21, 33-46.
- BIESTA, G. 2009b. *Good Education: What it is and why we need it*, 4 March 2009, The Stirling Institute of Education, University of Stirling, Inaugural lecture. Retrieved July 2012 from <u>http://www.ioe.stir.ac.uk/documents/GOODEDUCATION---</u> <u>WHATITISANDWHYWENEEDITInauguralLectureProfGertBiesta.pdf</u>.
- BURNS, C. & HENDERSON, P. 2010. No School, No Service to start in Palmerston [Online]. Northern Territory Government.

Available: <u>http://newsroom.nt.gov.au/index.cfm?fuseaction=printRelease&ID=7443</u> [Accessed October 2011].

- CALDWELL, B. J. Year. Will the national curriculum meet Australia's needs in education, society and economy in the 21st century? *In:* Australian Curriculum and 21st Century Learning, 2011a Melbourne. Oxford University Press.
- CALDWELL, B. J. J. 2011b. Educational Reforms and School Improvement in Australia. *In:* LEE, J. C.-K. C.-K. & CALDWELL, B. J. J. (eds.) *Changing Schools in an Era of Globalization*. New York: Routlege.
- CONNELL, W. F. 1980. A history of education in the twentieth century world, Canberra, Curriculum Development Centre.
- CRANSTON, N., KIMBER, M., MULFORD, B., REID, A. & KEATING, J. 2010. Politics and school education in Australia: a case of shifting purposes. *Journal of Educational Administration*, 48, 182-195.
- DEPARTMENT OF EDUCATION. 2011. *What is Schoolwide Positive Behaviour Support?* [Online]. Available: <u>http://www.education.tas.gov.au/school/health/positivebehaviour</u> [Accessed November 2011].
- GERVER, R. 2010. Creating tomorrow's schools for today: Education--Our Children--Their Futures, London, Continuum International Publishing Group.
- GONSKI, D., BOSTON, K., GREINER, K., LAWRENCE, C., SCALES, B. & TANNOCK, P. 2012. *Review of Funding for Schooling, Final report*, December 2011, Department of Education, Employment and Workplace Relations, Canberra. Retrieved February 2012 from <u>http://www.deewr.gov.au/Schooling/ReviewofFunding/Documents/Review-of-Fundingfor-Schooling-Final-Report-Dec-2011.pdf</u>.
- HANNON, V., PATTON, A. & TEMPERLEY, J. 2011. *Developing an Innovation Ecosystem for Education*. White Paper, December 2011, Cisco. Retrieved August 2012 from <u>http://gelpspace.org/sites/default/files/related_documents/developing_an_innovation_ecosystem_for_education_cisco-iu.pdf</u>.
- HANUSHEK, E. A. & WOESSMANN, L. 2009. Do Better Schools Lead to More Growth? Cognitive Skills, Economic Outcomes, and Causation. *National Bureau of Economic Research Working Paper Series*, No. 14633.
- HATTIE, J. A. 2009. Visible Learning: A synthesis of over 800 meta-analyses relating to achievement, Abingdon, Routledge.
- HEALING FOUNDATION 2012. *Our Healing Our Way: Alice Springs Healing Forum Report* May 2012, Aboriginal and Torres Strait Islander Healing Foundation. Retrieved July 2012 from <u>http://www.healingfoundation.org.au/wp-content/uploads/2012/03/Alice-Healing-Forum-report.pdf</u>.
- HUDSON, S. & MILLWATER, J. 2009. 'Over The Hill' is not so far away: Crossing teaching contexts to create benefits for all through rural teaching experiences. *Teacher education crossing borders: Cultures, contexts, communities and curriculum.* Albury: Australian Teacher Education Association (ATEA).
- HUGHES, H. & HUGHES, M. 2012. Hughes: Neither race nor distance. *The Advetiser*, , 26 June 2012.

- ISTANCE, D. 2011. Innovative Learning Environments: An international OECD project. Seminar Series 210, December 2011, Centre for Strategic Education. Retrieved July 2012 from http://www.innovations.sa.edu.au/files/links/Seminar_Paper_210_2.pdf.
- KICKETT-TUCKER, C. & COFFIN, J. 2011. Aboriginal self-concept and racial identity: Practical solutions for teachers. *In:* PURDIE, N., MILGATE, G. & BELL, H. (eds.) *Two Way Teaching and Learning: Toward culturally reflective and relevant education*. Camberwell: ACER Press.
- KLENOWSKI, V. 2011. Assessment for learning in the accountability era: Queensland, Australia. *Studies In Educational Evaluation*, 37, 78-83.
- KRAL, I. 2007. WRITING WORDS—RIGHT WAY! Literacy and social practice in the Ngaanyatjarra world. Australian National University.
- LEA, T., THOMPSON, H., MCRAE-WILLIAMS, E. & WEGNER, A. 2011. Policy fuzz and fuzzy logic: researching contemporary Indigenous education and parent–school engagement in north Australia. *Journal of Education Policy*, 26, 321-339.
- LEADBEATER, C. 2012. Innovation in education: Lessons from pioneers around the world, Dohar, Qatar Foundation.
- LEADBEATER, C. & WONG, A. 2010. *Learning from extremes*, Cisco, San Jose. Retrieved April 2012 from <u>http://www.cisco.com/web/about/citizenship/socio-</u> economic/docs/LearningfromExtremes WhitePaper.pdf.
- LOCHNER, L. 2011. Nonproduction benefits of education: Crime, Health and Good Citizenship. *In:* HANUSHEK, E. A., MACHIN, S. J. & WOESSMANN, L. (eds.) *Handbook of the Economics of Education*. Amsterdam: North-Holland.
- LOCK, G. 2008. Preparing Teachers for Rural Appointments: Lessons from Australia. *The Rural Educator*.
- MACHIN, S., MARIE, O. & VUJIĆ, S. 2011. The Crime Reducing Effect of Education*. *The Economic Journal*, 121, 463-484.
- MACKAY, H. 2010. What Makes Us Tick?: The Ten Desires That Drive Us, Sydney, Hachette Australia.
- MEADOWS, D. 2008. *Thinking in Systems: A Primer,* White River Junction, Chelsea Green Publishing Company.
- MILLER, P. W. & VOON, D. 2011. Lessons from My School. Australian Economic Review, 44, 366-386.
- MORE ABORIGINAL AND TORRES STRAIT ISLANDER TEACHERS INITIATIVE 2012. *MATSITI Project Plan 2012–15*, Juen 2012, University of South Australia, David Unaipon College of Indigenous Education and Research, Adelaide. Retrieved July 2012 from <u>http://www.matsiti.edu.au/docs/MATSITI-project-plan.pdf</u>.
- OECD 2006. *Demand-Sensitive Schooling?: Evidence and Issues*, Schooling for Tomorrow, 23 October 2006, OECD Publishing.

- OECD 2012a. Better Skills, Better Jobs, Better Lives: A Strategic Approach to Skills Policies, OECD Publishing. Retrieved August 2012 from http://skills.oecd.org/documents/OECDSkillsStrategyFINALENG.pdf.
- OECD 2012b. Equity and Quality in Education: Supporting Disadvantaged Students and Schools, 09 February 2012, OECD Publishing. Retrieved February 2012 from http://dx.doi.org/10.1787/9789264130852-en.
- OREOPOULOS, P. & SALVANES, K. G. 2011. Priceless: The Nonpecuniary Benefits of Schooling. *The Journal of Economic Perspectives*, 25, 159-184.
- OSBORNE, S. 2012. Kuranyu-kutu tjungu ankunytjaku palu iwara yaaltjiwanu? Going forward together, but by which path?, Ninti One Limited, Nyangatjatjara College Surveys March-May 2012: Student Survey, Community Perceptions Survey & Mental Health and Wellbeing Survey, Alice Springs.
- PEARSON, N. 2007. *We need real reform in indigenous public schooling*, Monash University, Faculty of Education. Retrieved July 2012 from <u>http://www.education.monash.edu.au/indigenous-ed/docs/noelpearson-</u> publicschooling.pdf.
- PEARSON, N. 2011. Radical Hope: Education and equality in Australia, Melbourne, Black Inc.
- PRODUCTIVITY COMMISSION 2012. Schools Workforce, Research Report, April 2012, Canberra. Retrieved July 2012 from <u>http://www.pc.gov.au/__data/assets/pdf_file/0020/116651/schools-workforce.pdf</u>.
- PURDIE, N. & BUCKLEY, S. 2010. School attendance and retention of Indigenous Australian students. Closing the Gap Clearinghouse. Issues Paper No. 1, Cat no. IHW 33, Australian Institute of Health and Welfare, Australian Institute of Family Studies. Retrieved July 2011 from http://www.aihw.gov.au/closingthegap/documents/issues_papers/ctg-ip01.pdf.
- ROBINSON, K. 2011. Out of Our Minds: Learning to be Creative, Chichester, UK, Capstone.
- ROSS, C. E. & MIROWSKY, J. 2010. Why education is the key to socioeconomic differentials in health. *In:* BIRD, C., CONRAD, P., FREMONT, A. & TIMMERMANS, S. (eds.) *Handbook of Medical Sociology*. Sixth Edition ed. Nashville: Vanderbilt University Press.
- SANTIAGO, P., DONALDSON, G., HERMAN, J. & SHEWBRIDGE, C. 2011. OECD Reviews of Evaluation and Assessment in Education: Australia 2011, OECD Publishing. Retrieved July 2012 from.
- SARRA, C. 2011. Strong and Smart: Towards a Pedagogy for Emancipation, New York, Routlege.
- SCHULLER, T., PRESTON, J., HAMMOND, C. B.-G., A & BYNNER, J. 2004. The Benefits of Learning: The impact of education on health, family life and social capital, Abingdon, RoutledgeFalmer.
- SCHÜTZ, G., WEST, M. R. & WÖßMANN, L. 2007. School Accountability, Autonomy, Choice, and the Equity of Student Achievement: International Evidence from PISA 2003. OECD Education Working Papers, OECD Publishing. Retrieved July 2012 from <u>http://www.eric.ed.gov/PDFS/ED503829.pdf</u>.

- SHARPLIN, E. 2009. Quality of worklife for rural and remote teachers: a model of protective and risk factors. *International Symposium for Innovation in Rural Education*. University of New England, Armidale, NSW, Australia.
- STEERING COMMITTEE FOR THE REVIEW OF GOVERNMENT SERVICE PROVISION 2011.

 Overcoming
 Indigenous
 Disadvantage:
 Key
 Indicators
 2011,
 Productivity
 Commission,

 Canberra.
 Retrieved
 August
 2011

 from
 http://www.pc.gov.au/
 data/assets/pdf_file/0018/111609/key-indicators-2011

 report.pdf.
- TRUDGEN, R. 2000. Why Warriors Lie Down and Die, Darwin, Aboriginal Resource and Development Services.
- WESTERN AUSTRALIA DEPARTMENT OF EDUCATION 2011. Aboriginal Education Plan for
WA Public Schools 2011–2014. Retrieved July 2012
from http://www.det.wa.edu.au/aboriginaleducation/detcms/cms-
service/download/asset/?asset_id=12601552.
- WHAT WORKS 2011. What Works. The Work Program. Improving outcomes for Indigenous students. Successful practice. 2nd, revised edition., National Curriculum Services Pty Ltd and the Australian Curriculum Studies Association. Retrieved October 2011 from http://www.whatworks.edu.au/upload/1300931817872_file_SuccessPrac2.pdf.
- WRIGHT, E., ARNOLD, H. & DANDIE, S. 2012. Improving School Enrolment and Attendance through Welfare Reform Measure (SEAM), January 2012, Social Policy and Economic Strategy Group, Department of Education, Employment and Workplace Relations. Retrieved July 2012

from http://www.deewr.gov.au/Schooling/Programs/Documents/SEAM2010EvalReport.pdf.

ZUBRICK, S., SILBURN, S., DE MAIO, J., SHEPHERD, C., GRIFFIN, J., DALBY, R., MITROU, F., LAWRENCE, D., HAYWARD, C., PEARSON, G., MILROY, H., MILROY, J. & COX, A. 2006. The Western Australian Aboriginal Child Health Survey: Improving the Educational Experiences of Aboriginal Children and Young People, Perth, University of Technology and Telethon Institute for Child Health Research.