10. Evidence-based policy making: what is it and how do we get it?¹

Gary Banks AO

In an address sponsored by the Australia and New Zealand School of Government, I thought a couple of quotes about government itself might be a good place to start. P. J. O'Rourke, who is scheduled to speak in Australia in April 2009, once said, 'the mystery of Government is not how it works, but how to make it stop'. In an earlier century, Otto von Bismarck is famously reported to have said, 'Laws are like sausages: it's better not to see them being made.'

Those witty observations have become enduring aphorisms for a reason. They reflect a rather cynical and widespread view of long standing about the operations of government. Also, let's face it, within government itself, many of us today find ourselves laughing knowingly at the antics of *The Hollowmen*, just as we did with *Yes, Minister*; and perhaps also cringing in recognition at how a carefully crafted policy proposal can be so easily subverted, or a dubious policy can triumph with little real evidence or analysis to commend it.

The idea for *The Hollowmen* was apparently conceived, and the first few episodes developed, under the previous government. That said, a change of government did not seem to reduce the program's appeal, or its ratings. No doubt that is because it contains some universal realities of political life—notwithstanding which party happens to be in power. And, indeed, notwithstanding the greater emphasis placed by the current government on evidence-based policy making, as reflected in a variety of reviews and in new processes and structures within the Commonwealth and COAG.

Thus, we have seen considerable public debate about the basis for a range of recent policy initiatives. These include: the 'alco-pops' tax, the change in the threshold for the private insurance surcharge, the linkage of Indigenous welfare payments to school attendance, Fuel Watch, Grocery Watch and the Green Car Innovation Fund. There was similar public debate under the previous government about the basis for such initiatives as the Alice-to-Darwin rail link, the Australia-US Free Trade Agreement, the Baby Bonus, the banning of filament light bulbs, Work Choices and the National Water Initiative, among others.

Moreover, where public reviews inform such initiatives, they have themselves been subjected to considerable criticism—in relation to their make-up, their processes and the quality of their analysis. This too is obviously not a new phenomenon, but it illustrates the challenges of properly implementing an

evidence-based approach to public policy—and of being seen to have done so, which can be crucial to community acceptance of consequent policy decisions.

Advancing further reforms will be challenging

It is as important that we have a rigorous, evidence-based approach to public policy in Australia today as at any time in our history. Australia faces major long-term challenges—challenges that have only been exacerbated by the economic turbulence that we are struggling to deal with right now. When the present crisis is over, we will still have the ongoing challenges of greenhouse, the ageing of our population and continuing international competitive pressures. We should not underestimate the significance of these challenges, which place a premium on enhancing the efficiency and productivity of our economy.

The good news is that there is plenty of scope for improvement. COAG's National Reform Agenda embraces much of what is needed—not just the completion of the old competition agenda, but getting further into good regulatory design and the reduction of red tape, efficient infrastructure provision and the human capital issues that will be so important to this country's innovation and productivity performance over time. The Productivity Commission's modelling of the National Reform Agenda indicates that the gains from this 'third wave' of reform could potentially be greater than from the first and second waves.² The problem is that there are few 'easy' reforms left. The earlier period had a lot of low-hanging fruit that has now been largely harvested.

Even in the competition area, rather than further deregulation, we are confronting the need for regulatory refinements that are quite subtle and complex to assess. In the new agenda to do with enhancing human capital, complexities abound. We don't know all the answers to the policy drivers of better health and educational outcomes, for example, let alone to the pressing goal of reducing Indigenous disadvantage.³

These are all long-term issues. They also have an inter-jurisdictional dimension, bringing with them the challenge of finding national solutions to problems that have been dealt with by individual states and territories in the past. This has 'upped the ante' on having good analysis and good processes to help avoid making mistakes on a national scale, which previously would have been confined to particular jurisdictions.

In an address to senior public servants in April last year, the Prime Minister observed that 'evidence-based policy making is at the heart of being a reformist government'.⁴ I want to explore why that is profoundly true, what it means in practice and some implications for those of us in public administration. In doing so, I will draw on the experience of the Productivity Commission—which, with its predecessors, has been at the heart of evidence-based policy making in

Australia for over three decades⁵—to distil some insights into what is needed across government generally if we are to be successful.

Why we need an evidence-based approach

I don't think I have to convince anyone of the value of an evidence-based approach to public policy. After all, it is not a novel concept. (I read somewhere that it is traceable to the fourteenth century, motivated by a desire to discipline the whimsical rule of despots.) Its absence in practice, however, has been long lamented. Over a century ago, for example, Florence Nightingale admonished the English Parliament in the following terms: 'You change your laws so fast and without inquiring after results past or present that it is all experiment, seesaw, doctrinaire; a shuttlecock between battledores.'⁶

The term 'evidence-based policy making' has been most recently popularised by the Blair Government, which was elected on a platform of 'what matters is what works'. Blair spoke of ending ideologically based decision making and 'questioning inherited ways of doing things'.⁷

Of course, 'inherited ways of doing things' meant to the Blair Government the ways of the previous Thatcher administration! The advent of a new government is clearly a good time to initiate an evidence-based approach to public policy, especially after a decade or more of a previous one's rule. I think that resonates too with the take-up in Australia of these 'New Labour' ideas from the United Kingdom, commencing with the Bracks Government in Victoria.

But, again, evidence-based policy making is by no means new to this country. Probably the oldest example, or the longest-standing one, would be tariff making, which for many years was required under legislation to be informed by a public report produced by the Tariff Board and its successor organisations (notably the Industries Assistance Commission). The nature of those evidence-based reports changed dramatically over time, however, from merely reporting the impacts on industries under review to also reporting the effects on other industries and the wider economy.

Other key economic policy reforms that have drawn heavily on evidence-based reviews/evaluations include the exchange rate and financial market liberalisation of the 1980s, the National Competition Policy reforms of the 1990s and the shift to inflation targeting in monetary policy in 1993. Examples from the social policy arena include the Higher Education Contribution Scheme (HECS) in its initial configuration and the introduction of 'Lifetime Community Rating' provisions in private health insurance regulation.

The tariff story illustrates the crucial point that the contribution of an evidence-based approach depends on its context and the objectives to which it is directed. Evidence that is directed at supporting narrow objectives—a particular group or sector, or fostering use of a particular product or

technology—will generally look quite different to that which has as its objective the best interests of the general community. Of course, this depends on having the analytical tools to enable such a broad assessment to be undertaken. Developments in this area were also an important part of the story on tariffs, as well as in other policy areas.

While the systematic evaluation and review of policy have not been pervasive—and arguably have been less evident in the social and environmental domains than the economic—Australia's experience illustrates its potential contribution. It also reveals the sterility of academic debates about whether evidence can or should play a 'deterministic' role in policy outcomes. It will be clear to all at this gathering in Canberra that policy decisions will typically be influenced by much more than objective evidence or rational analysis. Values, interests, personalities, timing, circumstance and happenstance—in short, democracy—determine what actually happens.

But evidence and analysis can nevertheless play a useful, even decisive, role in informing policy makers' judgments. Importantly, they can also condition the political environment in which those judgments need to be made.

Most policies are experiments

Without evidence, policy makers must fall back on intuition, ideology or conventional wisdom—or, at best, theory alone. And many policy decisions have indeed been made in these ways. But the resulting policies can go seriously astray, given the complexities and interdependencies in our society and economy and the unpredictability of people's reactions to change.

From the many examples that I could give, a few from recent Productivity Commission reviews come readily to mind:

- in our research for COAG on the economic implications of Australia's ageing population,⁸ we demonstrated that common policy prescriptions to increase immigration, or raise the birth rate, would have little impact on the demographic profile or its fiscal consequences (indeed, higher fertility would initially exacerbate fiscal pressures)
- our report into road and rail infrastructure pricing⁹ showed that the presumption that road use was systematically subsidised relative to rail was not borne out by the facts (facts that were quite difficult to discern)
- in our inquiry into waste management policy,¹⁰ we found that the objective of zero solid waste was not only economically costly, but environmentally unsound
- our inquiry into state assistance to industry showed that the bidding wars for investment and major events the state governments engaged in generally constituted not only a negative sum game nationally, but in many cases a zero sum game for the winning state¹¹

- our recent study of Australian's innovation system¹² reaffirmed that, contrary to conventional opinion, the general tax concession for research and development acted mainly as a 'reward' for research that firms would have performed anyway, rather than prompting much additional research and development
- our recent draft report on parental leave¹³ indicated that binary views in relation to whether child care was a good or a bad thing were both wrong, depending on which age group you were looking at, and that there were many subtle influences involved.

To take a separate example from the education field—which is rightly at centre stage in COAG's National Reform Agenda—the long-term policy goal of reducing class sizes has received very little empirical support. In contrast, the importance of individual teacher performance and the link to differentiated pecuniary incentives are backed by strong evidence, but have been much neglected. (That illustrates not only a lack of evidence-based policy in education, where social scientists appear to have had little involvement, but the influence over the years of teachers' unions and other interests.)

Among other things, policies that haven't been informed by good evidence and analysis fall more easily prey to the 'law of unintended consequences'—in popular parlance, Murphy's Law—which can lead to costly mistakes. For example, the commission found, in a series of reviews, that the well-intentioned regulatory frameworks devised to protect native flora and fauna, and to conserve historic buildings, were actually undermining conservation goals by creating perverse incentives for those responsible.

Our report for COAG, *Overcoming Indigenous Disadvantage*,¹⁴ is littered with examples. One of the first field trips that I did as part of establishing that process was to Alice Springs, where I learnt of one instance of an unintended consequence that would be amusing if the issues weren't so serious. It involved children taking up petrol sniffing so that they could qualify for the various benefits and give-aways in a program designed to eradicate it. That this might happen no doubt would not have occurred to any of us in Canberra, but it could well have occurred to some of the elders in the community if they had been asked.

But, as Noel Pearson and other Indigenous leaders affirmed, perhaps the most calamitous and tragic example of all was the extension of 'equal wages' to Aboriginal stockmen in the late 1960s. Despite warnings by some at the time, this apparently well-motivated action led to the majority losing their jobs, driving them and their extended families into the townships—ultimately subjecting them to the ravages of passive welfare, with liberalised access to alcohol as the final blow. Good intentions, bad consequences; very, very difficult to remedy.

Now I am not saying that policy should never proceed without rigorous evidence. Often you can't get sufficiently good evidence, particularly when decisions must be made quickly. And you can never have certainty in public policy. All policy effectively is experimentation. But that does not mean flying blind; we still need a good rationale or a good theory. Rationales and theories themselves can be subjected to scrutiny and debate, and in a sense that constitutes a form of evidence that can give some assurance about the likely outcomes. Importantly though, all policy experiments need to be monitored and evaluated and, over time, corrected or terminated if they turn out to be failures. These are things that governments typically find hard to do—particularly the termination part.

Arguably the biggest-ever case of policy making under uncertainty is the contemporary challenge posed by global warming. With huge residual uncertainties in the science, economics and (international) politics, there can be little confidence that anyone can identify a uniquely 'correct' policy prescription for Australia at this point. The only sensible way forward, therefore, is to start gradually, to monitor, to learn by doing as we develop institutions and see the effects of carbon pricing on our economy and community, and as we wait for others to come to the party—in other words, an adaptive response. That appears to be broadly the strategy that the government has ultimately adopted in its recent white paper.¹⁵ That said, the success of such a strategy still depends on judgments about the most appropriate timing and extent of action by Australia, and indeed the particular form of the policy action itself—notably, the mechanism for pricing carbon, its coverage and compensation provisions. These remain subject to ongoing debate.

Conditioning the political environment

Complexity and uncertainty would make policy choices hard enough even if they could be made purely on technical grounds. But policies are not made in a vacuum. Rather, they typically emerge from a maelstrom of political energy, vested interests and lobbying. Commonly, those with special interests will try to align their demands with the public interest. The average person (voter) rationally doesn't do the hard work necessary to find out whether that is correct or not, but often feels intuitively supportive.

In that *realpolitik*, evidence and analysis that are robust and publicly available can serve as an important counterweight to the influence of sectional interests, enabling the wider community to be better informed about what is at stake in interest groups' proposals, and enfranchising those who would bear the costs of implementing them. Tariff reform again provides a classic instance of evidence being used to galvanise potential beneficiaries from reform in the policy debate. In Australia, the losers under the tariff regime were the primary exporting industries—the farmers and the miners—who started to appreciate, with help from the Industries Assistance Commission, the extent of the implicit taxes and

costs they were bearing; and they soon became a potent force for tariff reform. The National Competition Policy has seen a similar political role being discharged through evidentiary processes.

To take a quite different example, the gambling industry got a lot of political support for deregulation essentially based on a myth—namely, that it would generate many jobs but have only minor adverse social impacts. The commission's report showed the reverse to be true.¹⁶ Gambling did not (and could not) generate significant additional jobs in the long term and had very substantial social impacts. Establishing that gave community groups a stronger platform to push for reforms to gambling regulation and the development and funding of harm-minimisation measures.

My point is that good evidence can ameliorate or 'neutralise' political obstacles, thereby making reforms more feasible. That is part of the reason why, as the Prime Minister has said, a reformist government needs to have an evidence-based approach at centre stage.

The essential ingredients

For evidence to discharge these various functions, however, it needs to be the right evidence; it needs to occur at the right time and be seen by the right people. That might sound obvious, but it is actually very demanding. I want to talk briefly now about some essential ingredients in achieving it.

Methodology matters

First, methodology. It's important that, whatever analytical approach is chosen, it allows for a proper consideration of the nature of the issue or problem, and of different options for policy action. Half the battle is understanding the problem. Failure to do this properly is one of the most common causes of policy failure and poor regulation. Sometimes this is an understandable consequence of complex forces, but sometimes it seems to have more to do with a wish for government to take action regardless.

A contemporary example that has received a bit of airplay as a consequence of the commission's report on waste management is the move to ban the ubiquitous plastic shopping bags from our supermarkets. This initiative drew much support from the alleged problems that these bags posed for the litter stream and for marine health. But closer investigation by the commission soon exposed gross inaccuracies and overstatements in those claims. Indeed, some of what passed for 'evidence' was contrary to commonsense and some was outright hilarious. (A Regulation Impact Statement soberly cited media reports from India that a dead cow on the streets of New Delhi had 35 000 plastic bags in its digestive system!)¹⁷

In situations where government action seems warranted, a single option, no matter how carefully analysed, rarely provides sufficient evidence for a well-informed policy decision. The reality, however, is that much public policy and regulation are made in just that way, with evidence confined to supporting one, already preferred way forward. Hence the subversive expression ‘policy-based evidence’!

Even when the broad policy approach is clear, the particular instruments adopted can make a significant difference. Thus, for example, economists overwhelmingly accept the superiority of a market-based approach to reducing carbon emissions, but they differ as to whether a cap-and-trade mechanism or an explicit tax (or some combination of the two) would yield the best outcomes. Australia’s apparent haste to embrace the trading option remains contentious among some prominent economists, illustrated by recent public advocacy by Geoff Carmody¹⁸ (in support of a consumption-based tax) and Warwick McKibbin¹⁹ (in support of a ‘hybrid’ scheme, with trading and taxation components).

How one measures the impacts of different policies depends on the topic and the task—and whether it’s an ex-ante or ex-post assessment. There is a range of methodologies available. There is also active debate about their relative merits. Nevertheless, all good methodologies have a number of features in common:

- they test a theory or proposition as to why policy action will be effective—ultimately promoting community wellbeing—with the theory also revealing what impacts of the policy should be observed if it is to succeed
- they have a serious treatment of the ‘counterfactual’—namely, what will happen in the absence of any action
- they involve, wherever possible, quantification of impacts (including estimates of how effects vary for different policy ‘doses’ and for different groups)
- they look at direct and indirect effects (often it’s the indirect effects that can be most important)
- they set out the uncertainties and control for other influences that might impact on observed outcomes
- they are designed to avoid errors that could occur through self-selection or other sources of bias
- they provide for sensitivity tests
- importantly, they have the ability to be tested and, ideally, replicated by third parties.

Australia has been at the forefront internationally in the development and use of some methodologies. For example, we have led the world in ‘general equilibrium’ modelling of the ‘direct and indirect effects’ of policy changes throughout the economy. Indeed, the Industries Assistance Commission, with its ‘Impact Project’ under Professors Powell and Dixon, essentially got that going.

But Australia has done relatively little in some other important areas, such as ‘randomised trials’, which can be particularly instructive in developing good social policy.²⁰ We seem to see a lot more (proportionately) of this research being done in the United States, for example.

Most evidence-based methodologies fit broadly within a cost–benefit (or at least cost-effectiveness) framework, designed to determine an estimated (net) pay-off to society. It is a robust framework that provides for explicit recognition of costs and benefits and requires the policy maker to consider the full range of potential impacts. But it hasn’t been all that commonly or well used, even in relatively straightforward tasks such as infrastructure project evaluation.

The head of Infrastructure Australia’s secretariat recently commented in the following terms about many of the infrastructure proposals submitted to that body: ‘the linkage to goals and problems is weak, the evidence is weak, the quantification of costs and benefits is generally weak.’²¹

It is very welcome, therefore, that Infrastructure Australia has stressed that any project that it recommends for public funding must satisfy rigorous cost–benefit tests.²² It is particularly important, as Minister Anthony Albanese himself has affirmed, that this includes quantification of the more ‘subjective’ social or environmental impacts, or, where this proves impossible, that there is an explicit treatment of the nature of those impacts and the values imputed to them.²³ In the past, this has proven to be the Achilles heel of cost-benefit analyses for major public investments: financial costs are typically underestimated, non-financial benefits are overstated.

Rubbery computations of this kind seem to be endemic to railway investment proposals, particularly ‘greenfield’ ones, which rarely pass muster on the economics alone. It is disquieting to observe, therefore, that rail projects feature heavily among the initial listing by Infrastructure Australia of projects warranting further assessment, totalling well over \$100 billion. Among these we find such old chestnuts as a light rail system for the Australian Capital Territory and a very fast train linking Canberra with Sydney and Melbourne. (The rail proposals are not alone in evoking past follies, however. I note that expansion of the Ord River Scheme is also on the list.)²⁴

It is undoubtedly challenging to monetise some of the likely costs and benefits associated with certain areas of public policy. But often we don’t try hard enough. There are nevertheless some examples of creative attempts. These include work by the Productivity Commission in areas such as gambling, consumer protection policy and even animal welfare.

The key is to be able to better assess whether benefits are likely to exceed costs, within a coherent analytical framework, even if everything cannot be reduced to a single number, or some elements cannot be quantified. Thus, in our gambling

and consumer policy reports, for example, we could provide estimates only of net benefits within plausible ranges. In the analysis required under the National Competition Policy of the ACT Government's proposal to ban trade in eggs from battery hens, we quantified the likely economic costs and identified the potential impacts on the birds.²⁵ However, we drew short of valuing these, as such valuations depend on ethical considerations and community norms that are best made by accountable political representatives.

Good data are a prerequisite

A second essential ingredient, of course, is data. Australia has been very well served by the Australian Bureau of Statistics and the integrity of the national databases that it has generated. But in some areas we are struggling. Apart from the challenges of valuing impacts, and disentangling the effects of simultaneous influences, we often face more basic data deficiencies. These are typically in social and environmental rather than economic domains, where we must rely on administrative collections—or indeed there might be no collections at all.

Data problems bedevil the National Reform Agenda in the human capital area. Preventative health strategies and pathways of causal factors are one example. Indigenous policy provides another striking one, involving myriad problems to do with identification, the incidence of different health or other conditions and their distribution across different parts of the country—all of which are very important for public policy formation. In the crucial education area, obtaining performance data has been an epic struggle, on which I will comment further. In the COAG priority area of early childhood development, a recent survey article from the Australian Institute of Family Studies concludes: 'The dearth of evaluation data on interventions generally...makes it impossible to comment on the usefulness of early childhood interventions as a general strategy to sustain improvements for children in the long-term.'²⁶

Data deficiencies inhibit evidence-based analysis for obvious reasons. They can also lead to reliance on 'quick and dirty' surveys or the use of focus groups, as lampooned in *The Hollowmen*. A colleague has observed that a particular state government in which he had worked was a frequent user of focus groups. They have a purpose, but I think it is a more superficial one, better directed at informing marketing than analysing potential policy impacts.

The other risk is that overseas studies will be resorted to inappropriately as a substitute for domestic studies. Sometimes this is akin to the old joke about the fellow who loses his keys in a dark street, but is found searching for them metres away under a lamppost, because that is where there is more light. Translating foreign studies to Australia can sometimes be perilous, given different circumstances and the scope for misinterpretation.

One topical example is the celebrated work by James Heckman²⁷ in the United States demonstrating the benefits of preschool education based on the Perry Program. That work has become a policy touchstone for advocates of universal intensive preschool education in Australia. While that policy could well prove to be sound, Heckman's work does not provide the necessary evidence. As he himself clearly acknowledged, the Perry Project was confined to disadvantaged children. And the main gain from the intensive preschool treatment that those kids got came from reduced crime. So if there is relevance for the Perry work in Australia, it might be mainly confined to areas where there is concentrated disadvantage.

A major failing of governments in Australia, and probably worldwide, has been in not generating the data needed to evaluate their own programs. In particular, there has been a lack of effort to develop the baseline data essential for before-and-after comparisons. As an aside, I should note that quite often even the objectives of a policy or program are not clear to the hapless reviewer. Indeed, one of the good things about having reviews is that they can force some clarification as to what the objectives of the policy should have been in the first place. Examples of policies with unclear objectives from the Productivity Commission's current work program include the Baby Bonus, drought assistance and the restrictions on the parallel importing of books.

In the commission's first gambling inquiry, we had to undertake a national survey to get a picture of the social impacts, as there were no good national data around. We recommended that, in future, consistent surveys should be undertaken periodically, but this has not happened; the field has become a bit of a shemuzzle, and we seem to be confronting the same problems again in revisiting this topic 10 years on. Moreover, while in this time there has been a multitude of harm-minimisation measures introduced by different jurisdictions around the country, very few of these have been preceded by trials or pilots to assess their cost effectiveness or have been designed with the need for evaluation data in mind.

In the Indigenous field, even the much-anticipated COAG trials lacked baseline data. The only exception, as I recall, was the Wadeye trial, but those data were derived from a separate research exercise, which took place before the trials commenced. More generally, we don't even know how much money has been spent on Indigenous programs, let alone how effective those programs have been. (There is currently an initiative under way to remedy that, through a new reporting framework involving all jurisdictions, with secretariat support from the Productivity Commission.)

Overall, we are seeing funding for data collection actually being cut. This is partly a consequence of the so-called 'efficiency dividend' in the public sector and the blunt way it is imposed. A consequence is that in agencies that have

responsibility for collecting data, vital survey information and other data collections are being jeopardised. This seems particularly perverse at a time when governments are seeking to promote evidence-based policy making!

In contrast, Australia has made great strides in assembling comparable performance data across jurisdictions through the Government Services Review.²⁸ (This is currently being reviewed by a COAG senior officials group.) Foreign government officials visiting Australia have often expressed astonishment at what we have achieved. And international agencies such as the OECD and the United Nations have praised the *Blue Book* and *Overcoming Indigenous Disadvantage* reports.

But Australia could and should have done a lot more to take advantage of its federal system as a natural proving ground for policy learning across jurisdictions. Indeed, in some cases, rather than encouraging data provision to enable comparisons across jurisdictions, the basis for such comparisons has actually been suppressed. I mentioned earlier a lack of data on school learning outcomes. Such data are better now than in the past, but it has been a real struggle. And the data we have managed to collect and publish are highly aggregated. It certainly hasn't got down to the level of individual schools and involves very weak tests that don't reveal much about comparative learning outcomes across the country. The OECD's PISA data have generally been more revealing as well as more timely—despite being collected internationally.

Andrew Leigh from The Australian National University has published an interesting paper with a colleague, analysing the impact of individual school performance on literacy and numeracy.²⁹ But his research had to be confined to Western Australia, which was the only jurisdiction that released school data. Even then, the data were only revealed implicitly in charts. Leigh was obliged to digitise the charts to get the numbers to allow him to do his novel analysis.

So I think there is an opportunity, under the new federalism banner, to fund the evidence base that we need to compare policy performances across our federation, and thereby to devise better national policies where national approaches are called for. An important recent initiative in this direction is the allocation of additional funding, as part of a \$3.5 billion education package, for a new performance reporting framework for schools. The minister, Julia Gillard, in endorsing the new framework, stated, 'It is my strong view, that lack of transparency both hides failure and helps us ignore it...And lack of transparency prevents us from identifying where greater effort and investment are needed.'³⁰

Real evidence is open to scrutiny

This leads directly to the third area that I want to talk about: transparency. Much policy analysis actually occurs behind closed doors. A political need for speed or defence against opportunistic adversaries is often behind that. But no

evidence is immutable. If it hasn't been tested, or contested, we can't really call it 'evidence'. And it misses the opportunity to educate the community about what is at stake in a policy issue, and thereby for it to become more accepting of the policy initiative itself.

Transparency ideally means 'opening the books' in terms of data, assumptions and methodologies, such that the analysis can be replicated. The wider the impacts of a policy proposal, the wider the consultation should be—not just with experts, but with the people who are likely to be affected by the policy, whose reactions and feedback provide insights into the likely impacts and help avoid unintended consequences. Such feedback in itself constitutes a useful form of evidence. The commission's processes are essentially based on maximising feedback. I cannot dwell on this much here, other than to say that, in a range of areas, we've learned a great deal through our extensive public consultation processes, particularly in response to draft reports. If you compare the drafts with our final reports you will often see changes for the better—sometimes in our recommendations, sometimes in the arguments and evidence that we finally employ.

Transparency in policy making helps government too, because it can see how the community reacts to ideas before they are fully formed, enabling it to better anticipate the politics of pursuing different courses of action. So the signs of a greater reliance again on green papers by the Australian Government, as advocated by the Regulation Taskforce, are very welcome.³¹ For example, the policy-development process for addressing global warming clearly benefited from an elevated public debate after the green paper was released.

Evidence building takes time

Transparency can have its downsides. In particular, it 'complicates' and slows the decision-making process; transparency involves time and effort. That is what appears to have militated against draft reports in a number of the recent policy review exercises. This was a shame, especially for the major industry policy reviews last year, which contained recommendations with important ramifications for the community and economy. There is an obvious clash between any government's acceptance of the need for good evidence and the political 'need for speed'. But the facts are that detailed research, involving data gathering and the testing of evidence, can't be done overnight. As already noted, in some cases, the necessary data will not be available 'off the shelf' and might require a special survey. In other cases, data needed for program evaluation might be revealed only through pilot studies or trials with the program itself.

On a number of occasions in the past decade I have been approached about the possibility of the commission undertaking an attractive policy task, but in an amount of time that I felt was unreasonable for it to be done well, particularly

in view of the time people need to make submissions and give us feedback. When the commission does something, people rightly expect to be able to have a say. As a consequence, those tasks have more often than not ended up going to consultants. (And in most cases the results have vindicated my position.)

Good evidence requires good people

The fifth area of importance is capability and expertise. You can't have good evidence and you can't have good research without good people. People skilled in quantitative methods and other analysis are especially valuable. It is therefore ironic that we appear to have experienced a decline in the numbers with such skills within the Public Service at the very time when it has been called upon to provide an evidence-based approach that relies on them. Again, that's been largely a consequence of budgetary measures over a long period. Research tends to be seen as a more dispensable function when governments and bureaucracies are cut back.

Several manifestations of the consequential reduction in capability have struck me. One is the lower calibre of some of the departmental project teams that I have observed trying to do review and evaluation work. Second, there appears to be increased poaching of research staff within the public sector, or at least pleas for secondments.

We are also seeing major new initiatives to train staff. One significant example is the Treasury's sponsorship of a new program, to be run by Monash University, to teach economics to non-economists. (We have seen shrinkage of the recruitment pool of economics graduates in recent years and I wonder whether the study of economics might be turning into a niche discipline in our universities.)

We've also seen a major increase in the contracting of policy-related research outside the Public Service. A lot of those jobs have gone to business consultants rather than to academics. This contrasts with the experience in the United States, where the academic community seems to be utilised much more by government.

Contracting out is by no means a bad thing (some of my best friends are consultants!). It has been happening progressively for decades. But it does seem to be changing in character more recently. The focus seems to be broadening from provision of inputs to policy making to preparation of outputs—the whole package. This gained public prominence last year through media reports of the Boston Consulting Group working up an 'early childhood policy' and developing a business plan for the 'global institute' for carbon sequestration. Also, KPMG seems to have become active in the infrastructure policy area.

There are clear benefits to government from using professional consultants: new ideas, talented people, on-time delivery, attractive presentation and, possibly, cost—although some of the payments have been surprisingly large. But there are also some significant risks. Consultants often cut corners. Their reports can

be superficial. And, more fundamentally, they are typically less accountable than public service advisers for the policy outcomes.

Whether academics could be drawn on more is a key issue. In an earlier era, the involvement of academics was instrumental in developing the evidentiary and analytical momentum for the first waves of microeconomic reform. Examples from the trade and competition policy arena alone include Max Corden, Richard Snape, Fred Gruen, Peter Lloyd, Bob Gregory, Ross Garnaut, Fred Hilmer, among others. Where are the new academic generation's equivalents in support of the 'third wave'? Only a few names come to mind, for example, of academics making a notable public contribution to policies bearing on human capital development.

Such involvement is of course a two-way street—with both demand and supply sides. The supply side seems to have been diminished over time, partly as promising academic researchers have sought more attractive remuneration elsewhere and partly as their time has been increasingly consumed by their 'day jobs'. On the demand side, one sometimes hears senior public servants complain that academics can be very hard 'to do business with' or that they are too slow or lack an appreciation of the 'real world'. There might be some validity in these perceptions, though I suspect that they also reflect an unrealistic view of how much time is needed to do good research—and perhaps a lack of planning. Perhaps also a desire for greater 'predictability' in the results than many academics would be willing to countenance. As Brian Head from Queensland University has observed: 'Relatively few research and consulting projects are commissioned without some expectation that the reports may assist in upholding a certain viewpoint.'³² (As I recall it, Sir Humphrey Appleby's maxim—akin to Rumpole's first law of cross-examination—is that 'one should never commission a study without knowing what the answer will be'.)

Independence can be crucial

Evidence is never absolute, never 'revealed truth'. The choice of methodologies, data, assumptions, and so on can all influence the outcome, and they do. Anyone who did first-year statistics at university probably read Darryl Huff's book *How to Lie with Statistics*, which was an early indication of the potential and the problems. Given the unavoidable need for judgment in evaluation, evidence is more likely to be robust and seen to be so if it is not subjected to influence or barrow pushing by those involved. Good research is not just about skilled people, it is about whether they face incentives to deliver a robust product in the public interest.

Some years ago, following a talk that I gave at a gambling conference in Melbourne, an American academic came up to me and said that the Productivity Commission's report was being used extensively in public debate in the United States. I expressed surprise, given the extent of home-grown research there. She

said, 'Yes, but we don't know what to believe.' That appears to be because research is polarised in that country between that sponsored by community and church groups and that sponsored by the industry. And there is suspicion that 'he who pays the piper calls the tune'.

Independence is even more important when dealing with technical research than with opinions. People are better able to judge opinions for themselves, but the average person is naturally mystified by technical research. They look for proxies to help them know whether the results of such research are believable. The status of the researcher (or whoever is paying for the research) is one such proxy. Economic modelling is replete with these sorts of issues. Any model comprises many assumptions and judgments, which can significantly influence the results. For example, the Productivity Commission and industry consultants used similar models recently to estimate the economic impacts of reducing tariffs on cars. The commission found that there would be significant economy-wide gains from maintaining scheduled tariff reductions. The other modellers, using different (and some less conventional) assumptions, projected net losses—with the current tariff rate coincidentally turning out to be 'optimal'.

You might also recall that in modelling the potential gains to Australia from a mooted free trade agreement with the United States, the Centre for International Economics, in work commissioned by the Department of Foreign Affairs and Trade, obtained a significant positive result, whereas separate work by ACIL Tasman projected negligible gains at best. More recently, modelling of the Mandatory Renewable Energy Target in conjunction with an emissions trading scheme either found it to impose substantial additional costs on the economy or to yield substantial benefits, depending on the modeller and the sponsor.³³ (COAG's final decision to implement a 20 per cent target nationally essentially favoured the latter estimates. However, Productivity Commission researchers found the sources of gains in that modelling difficult to justify.)³⁴

A 'receptive' policymaking environment is fundamental

We come to the final and most important ingredient on my list. Even the best evidence is of little value if it's ignored or not available when it is needed. An evidence-based approach requires a policymaking process that is receptive to evidence, a process that begins with a question rather than an answer, and that has institutions to support such inquiry.

As has been found through the work of the Office of Regulation Review, and now the Office of Best Practice Regulation, often we see the reverse, especially for more significant proposals. The joke about 'policy-based evidence' has not been made in the abstract—we have long observed such an approach in operation through the lens of regulation making in Australia.

Ideally, we need systems that are open to evidence at each stage of the policy-development ‘cycle’: from the outset when an issue or problem is identified for policy attention to the development of the most appropriate response and subsequent evaluation of its effectiveness.

The ongoing struggle to achieve effective use of regulation assessment processes within governments, which I describe in more detail elsewhere,³⁵ tells us how challenging that can be to implement. These arrangements require that significant regulatory proposals undergo a sequence of analytical steps designed first to clarify the nature of the policy problem and why government action is called for, and then to assess the relative merits of different options to demonstrate that the proposed regulation is likely to yield the highest (net) benefits to the community.

These steps simply amount to what is widely accepted as ‘good process’. That their documentation in a regulation impact statement has proven so difficult to achieve, at least to a satisfactory standard, is best explained by a reluctance or inability to follow good process in the first place. I admit that an evidence-based approach undoubtedly makes life harder for policy makers and for politicians. Lord Keynes, who seems to be well and truly back in vogue, said in the 1930s: ‘There is nothing a Government hates more than to be well-informed; for it makes the process of arriving at decisions much more complicated and difficult.’³⁶

I think we can see what he meant. But against this are the undoubted political benefits that come from avoiding policy failures or unintended ‘collateral damage’ that can rebound on a government, and from enhancing the credibility of reformist initiatives.

Some implications for the Public Service

I will conclude now with some observations about how those of us in the Public Service can help advance the cause of evidence-based policy making. We begin with the considerable advantage of explicit endorsement by the Prime Minister and senior ministers for an evidence-based approach to public policy. In his speech to the Senior Executive Service last year, Kevin Rudd³⁷ declared, ‘we cannot afford a Public Service culture where all you do is tell the Government what it wants to hear’. We’ve also heard from the head of the Public Service, Terry Moran, that ‘for civil servants, a capacity to analyse problems rationally and empirically and to advance options for action by Governments is a basic ethical duty’.³⁸

What both are talking about, in old parlance, is ‘frank and fearless’ advice: robust advice that does not second-guess the politics or the politicians. So the first suggestion I have for advancing evidence-based policy making is for us to be frank and fearless. That doesn’t mean being a loose cannon, or acting contrary to a government’s broad objectives, but using the opportunity of such political

support to strengthen the bureaucracy's capacity to provide evidence-based advice—and delivering that advice, even if it is against the current or not confined to a minister's or government's favoured position (which often aren't set in concrete anyway).

Making better use of existing processes

There exist currently vehicles and frameworks within government that can be used more effectively to this end. Indeed, the recently upgraded regulation assessment requirements are ready-made for that purpose. As noted, these are based on a best-practice 'policy cycle', with explicit provision for evidence to be utilised at each step. With the recent introduction of higher analytical hurdles, including greater quantification of benefits and costs, in conjunction with stronger sanctions for inadequate compliance, the line of least resistance for the bureaucracy should be moving in favour of an evidence-based approach. The extent to which this is happening remains unclear. Relatively high overall compliance rates under the new system, as recorded by the Office of Best Practice Regulation in its annual report,³⁹ appear promising; though, as in the past, the compliance record is worse for the more significant regulatory proposals.

In relation to spending programs, there is also likely to be scope to enhance some of the requirements, particularly to strengthen ex-ante evaluation and to make explicit provision for ex-post review. This might be assisted by the financial crisis. For example, Finance Minister, Lindsay Tanner, observed recently: 'Every government dollar wasted on a poor program is a dollar that a working person doesn't have to spend on groceries, health care and education. It is also a dollar that the Government does not have available to spend on its policy priorities.'⁴⁰

A heightened sense of the trade-offs has become apparent, for example, in some of the advocacy for publicly funded paid parental leave, with questions being raised about the relative pay-off from expenditure on industry support programs. Integral to advancing an evidence-based approach are the processes and institutions within government that enable different perspectives and information to be brought to bear at the 'pointy end' of a policy decision. These are well described by Meredith Edwards in her book *Social Policy, Public Policy*.⁴¹ Crucial elements are the proper functioning of interdepartmental committees, the cabinet submission process (with 'coordination comments' on policy proposals by all relevant agencies) and, ultimately, well-informed discussions within cabinet itself.

Effective COAG arrangements

At the COAG level, we have a new working group structure, which is well placed to advance an evidence-based approach to public policy, given sufficient space and lead time. That said, these arrangements in themselves represent an experiment. Their novel design, in which state department CEOs essentially

report to Commonwealth ministers, faces obvious challenges. More problematic, in my view, are the time constraints imposed on COAG processes under the punishing dictates of the quarterly cycle of meetings. The seeming imperative for bureaucrats around the country to be constantly preparing for these meetings appears to be displacing some of the work that should be done to inform decisions. After all, those meetings are at the highest level and decisions need to be made to justify them. While the frequency of meetings might have initially been good for pressure and momentum, if maintained, it could prove self-defeating for evidence-based policy making. It is to be hoped, therefore, that over time we might see a return to a more measured approach, which retains, or even strengthens, the new framework of working groups behind the scenes, but involves more time between meetings of COAG itself and thus for the gathering of the evidence that decisions require.

Building greater institutional capacity

Building capacity—or rebuilding it—is also very important. But it can't happen overnight. For one thing, we need to be recruiting into the Public Service more graduates in the social and economic sciences. The United Kingdom saw a doubling in the number of researchers in the civil service in one decade under the Blair Government. (There is some irony in the fact that many of those at the top of the bureaucracy began their careers in the Public Service as research officers and probably remain more highly skilled analysts today than many of their current subordinates.)

Any agency that is serious about encouraging an evidence-based approach needs to develop a 'research culture'. Establishing dedicated evaluation units, achieving a critical mass of researchers, strengthening links with academic and other research bodies are all integral to this. There is also the broader question of 'institution building' to underpin better evaluation generally across government. Some initiatives have developed out of the foreign aid programs and literature that might be instructive. These include 'evaluation clubs' or forums that promote cross-fertilisation, peer support and learning about 'what works'—in relation to methodologies and policy approaches themselves. We could think of developing comparable institutions as centres of excellence to foster greater inter-jurisdictional learning in Australia—a kind of 'Cochrane Collaboration'⁴² in the policy arena. Government/COAG sponsorship for such institution building is worth considering. Indeed, it could be contemplated as a useful extension of the role of ANZSOG, given its 'ownership' by all governments in Australia and New Zealand.

Better use of external contracting

When it comes to the (inevitable) use of external contractors, I think we need to give far more attention to defining the task and to identifying how contractors

can best help us to make good public policy. Choosing the contractor—getting the right consultant for the task—is obviously fundamental. I would suggest that in many cases, it is better to go directly to the experts rather than to the big jack-of-all-trades management consulting firms that might be willing to tackle anything, but have an indifferent performance record in policy-related work (to say the least). Such firms often rely on subcontractors anyway, so why not go directly to those with a reputation in the field?

Part of the challenge, if consultants are to become contributors to a truly evidence-based approach, is to limit their tendency to ‘second-guessing’, which can compound bureaucrats’ own tendencies in this direction. As noted previously, this might be less of an issue for academics, who typically do not rely on such sources of income, than for business consultants, who do. An evidence-based approach ideally requires contractual arrangements that create neutral ‘incentives’ for the researcher to make robust findings—for example, by making it clear that his or her work will be peer reviewed.

More generally, monitoring and reviewing the quality of such external work are crucial and, again, academic specialists would seem particularly well placed to help with that, as well as helping agencies choose which consultant to use in the first place. Peer review can also be very worthwhile for the research that is done within government, but this is not common practice. It is especially valuable where political sensitivities require secrecy during the policy-development phase, but where there might be significant downside risks for the community from ‘getting it wrong’.

Resourcing evaluations properly

We need to ensure that all government programs are designed and funded with future evaluation and review in mind. That includes data needs, especially baseline data, and making explicit budgetary provision for that. We should be pushing harder for more and better data generally, particularly in the social and environmental areas. Instead of being seen as an extra or a luxury, data for policy evaluation need to be recognised as a necessity—and a funding priority right now if we are serious about developing an evidence-based approach.

As already emphasised, we also need to be building in more time, where it is needed to come up with robust evidence that is adequately tested. In a crisis situation such as the present, time is of the essence, of course, and some decisions need to be made quickly. That is inevitable. But it is important that we lay the groundwork now to evaluate the consequences of those measures later, so the inevitable problems can be detected and timely adjustments made.

In the current context, this is particularly important for spending initiatives motivated by short-term demand management objectives, which could have an ongoing impact, or create a sense of entitlement and political pressure for their

retention. For example, increased assistance to an industry—by strengthening its ability to withstand foreign competitors in a recessionary market—might initially help to shore up that industry’s workforce. But this selective support will tend to weaken job retention in other local industries and, if sustained, inhibit overall job creation and productivity growth in the longer term.

Bottom line

In conclusion, the goal of evidence-based policy making is unquestionably important, and it is encouraging that it has received vocal support at the highest political levels. However, measured against the various ingredients for an effective approach, it seems clear that current practice continues to fall short. Addressing this is now largely up to the Public Service. Not only is there a need to improve the capacity of the Public Service to deliver evidence-based policy advice, there is a need for it to improve political understanding of what that entails. If we fail, it won’t just vindicate the public’s cynicism about *The Hollowmen* syndrome; it will compromise government’s capacity to implement the beneficial national reforms that this country needs for the long term.

ENDNOTES

¹ This essay was originally presented as an ANZSOG Public Lecture on 4 February 2009. Early versions of this paper were presented to an Australian Public Service Commission Leader-to-Leader seminar in October 2008 and as a keynote address to the Annual Conference of the Economics Society in August 2008.

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