Innovation and growth in resource-based economies

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About this paper

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CEDA’s activities: CEDA holds more than 250 events, seminars and chief executive roundtables each year, and publishes a range of research papers.

CEDA’s mission: CEDA’s research and forums identify and explore issues that influence the nation’s long-term economic and social development.

CEDA’s reach: CEDA draws its members, which number around 1000, from businesses, universities, governments and the not-for-profit sector. During 2006 CEDA’s economic and business events attracted more than 21,000 people.

CEDA’s independence: CEDA advocates policy in the national interest, rather than lobbying on behalf of special interest groups. It is staunchly non-partisan. CEDA’s funding comes from membership, events, grants and sponsorship.

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As part of our Competing From Australia project, CEDA has sought to challenge the notion of the “resource curse”. That is, that abundant natural resources can actually be an obstacle to development in resource-based economies like Australia by keeping economies stuck in low value-added and low growth activities.

Professor Keith Smith’s paper states clearly that this pessimistic view is wrong. Rather, countries such as Finland, Sweden, Norway, Canada and Australia have rested their development paths on resource-based sectors. Out of them have developed low and medium technology industries that have driven growth within these countries.

Back in 2004, writing in CEDA’s major report Innovating Australia, Professor Smith pointed out that most innovation happens beyond the confines of what most people call “high-technology” industries. Australia, he noted, had many industries which perform little traditional research and development, but which on broader measures of innovation are highly active in coming up with new ways to improve their products and services.

In this paper Professor Smith extends and focuses that analysis. Australia’s resources industries are smarter than we might think, he suggests. They have followed a development process built on learning and innovation, relying heavily on the flows of knowledge out of universities and research groups. Linkages to other sectors have also emerged in logical ways. He gives the example of how the presence of a strong Australian resources sector has sparked innovation in the services sector, with the major financial markets in Sydney heavily focused on specialized finance for the resource sector. Building on that base, Sydney has evolved into one of the pre-eminent financial sectors of the Asia-Pacific region.

He argues that innovation policy for resource-based economies cannot simply be based on high-tech sectors, but needs an extensive base in the resources sector and in the other industries that make up the economy.

This is a path Australia will need to continue to take – providing the intellectual infrastructure for the resources industries and the industries that feed them. As CEDA has repeatedly emphasised, we live in a world where our human capital increasingly determines how fast our economy develops.

CEDA is grateful to Professor Smith for contributing his time and effort to our Competing From Australia project. We are particularly pleased to publish his thinking because it reflects a realistic optimism about Australia’s ability to prosper.

David Byers
Chief Executive Officer, CEDA
Compared to most economies, Australia relies disproportionately on resources industries. In economic development literature, such reliance is treated as a problem. Dependency on natural resources is seen to confer an inherent disadvantage – the “resource curse” – that requires nations to change their economic structure by moving to more “advanced” or “high-technology” industries that are strongly associated with innovation.

In fact, some of the richest and/or fastest-growing economies are resource-based, including Norway, Sweden, Finland, New Zealand, Australia and the Netherlands. Evidence of the “resource curse” in developed economies is weak.

These developed resource-based economies often share several characteristics beside a large export-oriented resources sector: a smaller manufacturing sector, a large services sector, relatively low research and development spending, and a technology balance-of-payments deficit.

Such economies build prosperity by:

• investing and building knowledge in resource-based industries;
• leveraging their resources bases into other industries, not just in manufacturing but in fields such as finance; and
• relying not on research and development but on “knowledge infrastructures” such as universities and research institutes which develop ideas and educate people.
Introduction

One of the striking features of the economics of both development and growth, both in the mainstream and its self-styled heterodox alternatives, is a resolute failure to take account of some key empirical and historical characteristics of the world we live in. The major problem seems to be an inability to look clearly at the structures of production and learning that actually characterise growing economies. This failure takes two forms. On the one hand there is an approach, popular in treasuries and finance ministries, that conducts economic analysis at a highly aggregated level. This in effect erases industries and sectors by treating the economy as a one-sector operation that produces one output (an output that is labelled “GDP”). On the other hand, there is a sectoral and industrial approach that focuses on a small number of industries and technologies that are held to “drive” economic growth.
In the latter perspective, much of 20th-century economic historiography consists of a focus on a series of allegedly critical industries such as steam power, mechanised factory technologies, electricity, vehicles, information and communications technology (ICT) and so on, without ever examining how large such sectors actually were and are, and without exploring the wider characteristics of growth and knowledge creation in industrialising economies. It often comes as a surprise to people to learn that a key productivity-growth sector of British industrialisation was agriculture, and that British agriculture and food processing developed such epoch-making innovations as replaceable parts, technical codification, assembly lines, large-scale enterprise management systems and national distributions networks.

This problem is even worse in the innovation studies literature, which far too frequently relies on a Schumpeterian “explanation” of the relation between innovation and growth, looking at a very limited number of technologies that are held to create new industries and drive growth. Economies that do not deploy these technologies/industries are, it is suggested, thereby doomed to slow growth and poverty. A subsidiary argument is that resource-based economies in particular are burdened by a “resource curse”, and will remain poor until they shift their economic structures. A big problem in this is that there is no coherent theoretical explanation of the links between the industries deploying allegedly advanced technologies and the growth process. At the present time, for example, it is widely argued that growth is driven by ICT, by biotechnology or by nano-engineering, despite the fact that there are major problems in the size and inter-industry effects of these technologies and/or industries.

Two notable empirical features of economic life tend to be ignored in such approaches. The first is persistence
and impacts of “low technology” industries in the world economy. It is not difficult to show that these industries account for the bulk of world output and employment, are growing, are innovative, and deploy advanced knowledge bases. The second feature is the fact that resource-based economies are not invariably poor. On the contrary, some of the richest, and/or fastest growing, economies are resource based. These economies include Norway, Sweden, Finland, Canada, New Zealand, Australia and the Netherlands (which is the EU’s biggest agricultural producer). How have these economies developed against the conventional wisdom on resources, and what are the implications for (a) their future development, and (b) economic development among resource-based economies more widely?

Theories
Within development economics it is sometimes argued that abundant natural resources are actually an obstacle to development. There is a “resource curse” that keeps developing countries stuck in low value-added and low growth activities. This notion derives from at least three relevant bodies of thought:

- In the 1950s to 1970s there were mainstream versus Marxist debates in development theory, in which Marxists took the view that resource specialisation was a basic method of exploitation of poor countries by the rich. The influential Prebisch/Singer hypothesis argued that the “resource curse” flowed from the declining terms of trade between resources and manufactures. (Here it is worth noting that over the past 15 years or so it is, in fact, the terms of trade of manufactures that have been declining);

- Sachs and Warner’s influential 1995 NBER paper, “Natural resource abundance and economic growth” formalised the long-standing idea that resources inhibited growth, using regressions linking natural resource industries to growth and trade performance; and

- Neo-Schumpeterian ideas about sectoral structure of growth – Chris Freeman, for example, has argued that the key issue is that it is what you do, not how you do it, that matters. The basic challenge of innovation-based development is to get out of resource and out of low tech, into whatever happens to be driving the Kondratiev wave (at this time held to be ICT, biotech, etc.).

The evidence
The evidence used in the “resource curse” literature varies quite considerably. In some cases, the claims are made without any serious reference to evidence at all – that is, highly speculative assumptions are made which are then treated as though they are empirical facts. This is particularly the case in the Schumpeterian literature. Where evidence is sought and presented systematically, it usually takes the form of regressions exploring the industrial shares of natural resources, and GDP growth and trade. Figure 1 gives an example of this:

Here, long-run growth rates are regressed on the share of resources towards the end of the growth period. Quite a lot of the variation seems to be being explained here by the resource share – nearly 26 per cent, which is a lot for one independent variable. However, it is worth noting that one factor producing the result appears to be a small number of high-resource/low-growth outlier economies – there are six outlier economies with about 40 per cent of resources in GDP and low growth rates. Take the
outliers away and it does not look like much will be left of the regression. But a wider problem here is the independent variable, the share of resources in GDP. This is not, in fact, a good indicator of whether or not a country is “resource based”; it simply reflects the relative absence of non-resource industries, and so in a way the result is implied by the choice of indicator. A country such as Sweden, which has high resource output per capita but has succeeded in creating a large sector of non-resource industries, is simply not considered as a resource-based economy if using this indicator.

Similar problems exist with most such regressions. Figure 2 looks at natural resources and exports.

In this case, very little of the variation in trade ratios is being explained, and once again the regression seems to be heavily influenced by a small number of outlying observations. The explanatory variable – share of resources in GDP – has the same problems described above.

**Explanations**

The main economic explanations that are offered for these phenomena are:

- the “Dutch disease”, in which exchange rate appreciation as a result of the resources sector renders domestic activity uncompetitive, and labour supply decreases (as the resources sector draws off key labour inputs from the rest of the economy) combine to inhibit non-resource growth;
- declining terms of trade in primary commodities and instability in commodities markets prevent capital accumulation and hinder growth;
- resources create rent-seeking behaviour that undermines entrepreneurship and growth; and
- resources sectors generally involve a lack of linkages with the wider economy.

To these, Michael Ross has added a set of potential political explanations. These are:

- cognitive (short-sightedness among policymakers);
- societal (empowering of elites that hinder growth); and
- state-centered (resources undermine state institutions, or create cumbersome state enterprises) (Ross, 1999).

However, if the data on resource-based economies is not as secure as it might be, then it may be that the problems the “resource curse” hypothesis is seeking to explain are not as general as they seem to be. This leaves us with an interesting question: what factors explain growth in successful resource-based economies? This requires a look at the characteristics of resource-based economic development.

**Dimensions of resource-based development**

Resource-based economies are often characterised by industrial structures with a strong emphasis on agriculture, a small manufacturing sector with a large proportion of output concentrated on low- and medium-technology sectors, and a large service sector incorporating a large social and community services element (meaning especially health and education). Natural resources may provide a significant proportion of output, but more commonly a large proportion of exports. Both the gross and business (GERD and BERD) R&D intensities tend to be low. There is usually a technology balance of payments deficit, suggesting significant technology import. Likewise, a significant share of gross fixed capital formation is met by imports; so here also there is likely to be a strong level of embodied technology import. Significant natural resources may include agricultural land, timber and forests, fish, hard rock minerals, and oil and gas. These countries often have significant area/population imbalances, and the physical make-up is such that there are communications problems and hence major physical infrastructure challenges.

In a general way such countries as Finland, Sweden, Norway, Denmark, Iceland, New Zealand, the Netherlands, Canada, and Australia share the characteristics described above. These small, open economies have rested their development paths on resource-based sectors, and out of them have developed low- and medium-technology industries that have driven growth within these countries. This has been the case not only historically, but in many instances remains so today. Even where some countries – such as Sweden, Finland and the Netherlands – have developed significant high-tech sectors, these have supplemented the low- and medium-tech specialisations, but have not replaced them.

The importance of the shared structures and geophysical situations lies in the fact that these comparator countries are not simply advanced economies, but are among the richest in the world. In terms of the underlying productivity measure, output per worker hour, several of them outstrip the United States and most of them have sustained very high growth rates of output and productivity in recent decades. Most of these countries have not only generated high income levels in terms of GDP per capita, but also maintain major welfare systems related to health, education and social protection. It is worth noting that this prosperity in many cases is relatively recent rather than intrinsic to the situation of the countries. The Nordic area countries in particular were, until comparatively recently, very poor. In the 19th century they all faced major rural crises, had low levels of income relative to other countries (Norway in the mid-19th century was comparable to Sicily), and had very high rates of emigration. So, against this background their development trajectories since the late 19th century have been spectacular.
How can these development trajectories be understood? Three points can be noted:

- development through knowledge upgrading and investment strategies in resource-based industries;
- development through the leveraging of resource bases into downstream industries; and
- knowledge creation via knowledge infrastructures.

**Development through knowledge upgrading and investment strategies in resource-based industries**

Here the point is that resource industries can be the site of major learning processes that permit sustained productivity and output growth. It is not the case that terms of trade for these products are inevitably declining, and – even if they are – the real issue is overall revenues, not unit prices. The development of sophisticated seismological knowledge and techniques, the construction of large-scale infrastructures, the automation of production technologies and the improvement of logistics can all maintain the viability of resource industries over the long term.

**Development through the leveraging of resource bases into downstream industries**

Resources are almost invariably capable of development downstream, away from the resources themselves and into related resource-using industries. This strategy has been central to many of the resource-based economies, leading to a degree of historical linkage between past and present specialisations. Table 1 sets out some of these specialisations, both from historical and contemporary perspectives.

In developing both upstream and downstream linkages from the resource bases, leading to major cluster development, Sweden shifted from iron ore production to iron and steel, to fabricated metal products (most notably cars and trucks), and then to machine tools and electronic systems. Norway moved from marine transport to shipbuilding to marine electronics, developing the world’s first automated navigation systems, and continuing to be a leader in surface and sub-sea marine electronics applications. Finland went from paper production to chemicals for paper, and then to paper machinery (a major sector in which it is a world leader). Of course, four of the countries (Canada, Sweden, the Netherlands and Finland) have succeeded in creating important electronics and telecommunications sectors, and the processes through which this happened deserve attention; however, in each of these countries electronics remain a relatively small sector, and prosperity continues to depend on continuously upgraded traditional industries (Finland’s paper exports are roughly equivalent to its electronics exports). Moreover, it remains the case that the Netherlands, Denmark, Australia and New Zealand are heavily agricultural economies, with substantial

<table>
<thead>
<tr>
<th>COUNTRY</th>
<th>HISTORICAL GROWTH INDUSTRIES</th>
<th>SOME CONTEMPORARY SPECIALISATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Norway</td>
<td>Fishing, Timber products, Marine transport, Non-ferrous metals, Hydro power</td>
<td>Fishing, Aquaculture, Marine biotechnology, Timber products, Oil, Marine transport, Marine electronics (navigation and subsea technologies including sonar and imaging), Non-ferrous metals and aluminum</td>
</tr>
<tr>
<td>Sweden</td>
<td>Timber products, Iron ore, Iron and steel, Marine transport</td>
<td>Timber products including advanced building materials and flooring, Engineering products, Vehicles, Telecommunications, Aerospace (military and civilian), Ships and boats</td>
</tr>
<tr>
<td>Finland</td>
<td>Timber products, Machinery, Transport equipment (especially ships), Chemicals</td>
<td>Newsprint and high-quality paper, Machinery (especially for paper industry), Chemicals (especially for paper industry), Telecommunications equipment, Ships and boats</td>
</tr>
<tr>
<td>Netherlands</td>
<td>Agriculture, Trade and Finance, Machinery, Agriculture</td>
<td>Agriculture (including extension into new products, e.g. fresh flowers), Agricultural trading and commodity exchanges, Aquaculture (including feedstocks and technology), Electronics, Finance and Insurance</td>
</tr>
<tr>
<td>Denmark</td>
<td>Timber products, Shipping</td>
<td>High-value agriculture, Domestic and Office Furniture, Architecture and interior design, Agricultural equipment, Transport and ports, Electronics, Pharmaceuticals</td>
</tr>
</tbody>
</table>

**TABLE 1** **HISTORICAL INDUSTRIES AND CONTEMPORARY SPECIALISATIONS**
export earnings from food products (a point which is also true of another allegedly high-tech small economy, namely Israel). It is worth noting that these linkages have underpinned a distinctive approach to economic policy in some of these economies.

The Swedish economist Erik Dahmen developed an influential body of analysis based on the concept of “development blocks”, that is, mutually supportive industries that could be linked in both the input–output senses and in terms of shared knowledge bases. This work became a key contributor to the development of innovation system concepts (Dahmen 1970). Much later, it also became the basis of the work of Michael Porter on clusters. Here it should be noted that Porter has strongly emphasised the importance of cluster development out of existing industries and resources.

Dahmen’s work both reflected and contributed to a specifically Swedish mode of industrial organisation. The key point is that in Sweden, and in the Scandinavian economies more generally, the emergence of linkages and development blocks did not just happen, it was organised. In Sweden a specific form of corporate organisation and governance emerged that was central to its industrial development. The main specifically Swedish element is the persistence of concentrated ownership and practical control of key industrial enterprises by family spheres or other conglomerate blockholdings. Sweden is characterised by large-scale blockholdings in significant parts of the industrial system by what are in effect active family-based or bank-based closed-end investment companies. The most famous of these is the investment vehicle of the

<table>
<thead>
<tr>
<th>Industry sector</th>
<th>NUMBER</th>
<th>PERCENTAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture, forestry and fishing</td>
<td>1476</td>
<td>32</td>
</tr>
<tr>
<td>Mining and quarrying</td>
<td>57</td>
<td>37</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>3522</td>
<td>56</td>
</tr>
<tr>
<td>Electricity, gas and water supply</td>
<td>12</td>
<td>50</td>
</tr>
<tr>
<td>Construction</td>
<td>1209</td>
<td>25</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6276</strong></td>
<td><strong>44</strong></td>
</tr>
</tbody>
</table>

**Services sector**

<table>
<thead>
<tr>
<th>Service sector</th>
<th>NUMBER</th>
<th>PERCENTAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wholesale trade</td>
<td>1767</td>
<td>46</td>
</tr>
<tr>
<td>Transport and storage</td>
<td>885</td>
<td>38</td>
</tr>
<tr>
<td>Communication services</td>
<td>87</td>
<td>41</td>
</tr>
<tr>
<td>Finance and insurance</td>
<td>282</td>
<td>54</td>
</tr>
<tr>
<td>Business services</td>
<td>2181</td>
<td>42</td>
</tr>
<tr>
<td>Motion picture, radio and television services</td>
<td>84</td>
<td>61</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>5286</strong></td>
<td><strong>42</strong></td>
</tr>
</tbody>
</table>

**Overall**

| Overall                          | 11562  | 44         |

Source: Statistics New Zealand, 2003
Wallenberg family, Investor AS. There are at least a dozen such family groupings, often playing an active role in enterprise strategy, organisation and operations. This is by no means unknown elsewhere, but the scale and impact of this pattern nevertheless remains a distinctive feature of the Swedish system. The “investment trust” ownership structure also has an institutional form outside of the family groups, based on bank-centred investment companies that own and control very significant parts of the Swedish economy. So closed-end conglomerate holdings dominate large parts of the economy, and form a core element of the governance system. These holdings have rather deep historical roots and in some cases even the individual holdings stretch back almost a century. So they impart an important degree of continuity to the Swedish system. At the same time the fate of these holdings is one of the key elements that is shaping change at the present time. Such arrangements are not unique to Sweden. Distinctive, development-oriented governance arrangements can be found across the industries of the Nordic world.

These general points are more widely relevant for small, open resource-based economies because they share the low-tech emphases, the resource characteristics and the widely distributed economic structures of the small economies mentioned. Such an industrial structure is not non-innovative (see Ferranti et al, 2002, and Hirsch-Kreinsen et al, 2005, for arguments on this point). If we look at the distribution of innovation activity (meaning introduction of new products or processes, or expenditure on innovation) in New Zealand, for example, we find the following:

Firstly, innovation activity is widely distributed across all the major sectors, according with the “pervasiveness” characteristic described above. Figure 3 above shows that within manufacturing, innovation is found across all sectors, regardless of their formal classifications of technology intensity. That is, in common with other small open economies, New Zealand has innovative low-tech sectors.

These results accord quite closely with those of other innovation surveys in small, open economies. For example, in all sectors of the Australian economy at least 30 per cent of firms are innovating over any three-year time period. In Australian manufacturing the most intensively innovating sectors are machinery and equipment and chemicals, each with about 50 per cent of firms innovating. Nevertheless in such “traditional” industries as food products, textiles and metal products, between 30 and 35 per cent of firms are innovating (see Australian Bureau of Statistics 2005; see also Eurostat 2004).

What follows from this structure is the suggestion that innovation policy for resource-based economies cannot simply be based on high-tech sectors, but will have to have an extensive base in the resources and industries actually possessed by an economy. Linkages, development blocks or clusters have not, in similar economies, emerged out of some general propensity to cluster growth, rather, they have emerged from locationally specific resources, and have developed in rather logical ways both forward and backward. The result is strong “vertical” clusters. For New Zealand, for example, an important current challenge is to technologically upgrade and to innovate in such sectors as food and beverages, textiles and clothing, printing and publishing, timber products and so on, while also developing their upstream and downstream potentials.

Such linkages need not be directly into related manufacturing industries, but can also lead to service sector development. The clearest case of this is Australia where the major financial markets in Sydney are heavily focused on specialised finance for the resource sector. Resource exploration and exploitation involve major risks, and the investment banking and equity markets in Australia (both in Perth and Sydney) are heavily involved in managing the risk-spreading portfolio problems of the resource sector. Over time, this has led to Sydney evolving into one of the major financial centres of the world – the growth of Sydney as one of the pre-eminent financial centres of the Asia-Pacific region rests in part with its resource-finance background (which continues to be one of its major specialisations).

A final point here relates to knowledge infrastructures. In general, neither resource-based activities nor the industries linked to them are R&D intensive. Rather, they rely on flows of knowledge emanating from infrastructural institutions such as universities and research institutes, as well as embodied R&D in technologies used in capital and intermediate goods. This means that a major focus of public policy for these industries is infrastructural.

Research questions on the resource economies

There are clearly a number of important but unresolved questions concerning resource-based economies. These include:

- What kinds of learning determine the capabilities needed to exploit resource bases?
- Are there spillover effects related to resource extraction? Czelusta and Wright (2004) suggest that “if resources are developed through advanced forms of knowledge development, their spillover effects may be just as powerful as anything done in manufacturing”.
- What was the dependence on resources historically? How important was the reliance on resources by such large economies as the US? (It is important to remember here that Habbakuk’s influential argument was that resource abundance was a contributor to high productivity in the US).

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Is natural resource abundance itself a natural phenomenon? David and Wright suggested that “natural resource abundance was an endogenous, ‘socially constructed’ condition that was not geologically preordained”. How should this relate to potential resources of the future?

How are allegedly non-renewable resources extended through exploration, technological change, advances in country-specific knowledge and so on?

How have linkages been created historically? Is the view that they are essentially a policy issue correct? What are the contemporary implications?

The issue of how today’s small resource-based economies became so rich is a neglected and important one in economic history. How they might stay rich, however, is a critical issue in their futures and in Australia’s future.

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