If we do not change direction, we are likely to end up where we are going – *Chinese Proverb*

## Planned economic contraction: the emerging case for degrowth

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**Abstract:** This article outlines the sociological, ecological, and economic foundations of a macroeconomics ‘beyond growth,’ focusing on the idea of degrowth. Degrowth opposes conventional growth economics on the grounds that growth in the highly developed nations has become socially counter-productive, ecologically unsustainable, and uneconomic. Stagnating energy supplies also suggest an imminent ‘end of growth’ (Heinberg, 2011). In response to growth economics, degrowth scholars call for a politico-economic policy of planned economic contraction, an approach which has been broadly defined as ‘an equitable downscaling of production and consumption that increases human well-being and enhances ecological conditions’ (Schneider et al, 2010, p. 512). After defining growth economics and outlining the emerging case for degrowth, this article considers the feasibility of a macroeconomics beyond growth and sketches an outline of what such a macroeconomics might look like as a politico-economic program.

**Keywords:** degrowth; uneconomic growth; threshold hypothesis; voluntary simplicity.

### 1. Introduction

In advanced capitalist societies today, and increasingly throughout the world, public policy seems to be founded upon a vision of the social world in which sustained economic growth will eventually lead to a life of material abundance for all (Purdey, 2010). Attractive on the surface, perhaps, this vision of abundance treats Earth as a limitless resource to be exploited for human purposes and it promotes a materialistic attitude to life by assuming that human well-being consists in satisfying ever-more consumer desires through market transactions. Whatever utility it may have had in the
past, today there are compelling grounds for contesting this vision of abundance as well as the macroeconomics of growth that it both shapes and is shaped by (Barry, 2012; Jackson, 2009). Not only are the materialistic values underlying this vision evidently having a caustic effect on personal and social well-being (Pickett and Wilkinson, 2010; Kasser, 2002; Lane, 2000), but the process of globalizing Western-style consumption habits is degrading the health and integrity of Earth’s ecosystems and diminishing their capacity to support life in the future (Global Footprint Network, 2010; Millennium Ecosystem Assessment, 2005). A new vision is urgently needed, and with it a macroeconomics ‘beyond growth.’

Even to consider looking ‘beyond growth’ would seem rather premature, of course, if the analysis were to be directed toward the poorest nations on the planet, where the need for further economic development, of some form, is immediate and obvious (World Bank, 2009). But when the analysis is focused, as it will be presently, on the richest nations, it is much less clear why economic growth, measured by increases in Gross Domestic Product (GDP), should remain a central policy objective of governments. Indeed, there are four main arguments for why the richest nations should give up the pursuit of economic growth and try to manage without growth (Victor and Rosenbluth, 2007): (1) Continued economic growth worldwide is no longer a sustainable option due to environmental and resource constraints, so the richest nations should leave room for growth in the poorest nations where the benefits of growth are evident (Meadows et al, 2004); (2) in the richest nations growth has become ‘uneconomic,’ in the sense that it detracts from overall wellbeing more than it contributes, all things considered (Daly, 1999); (3) growth in the richest nations is neither necessary nor sufficient for meeting policy objectives such as full employment, elimination of poverty, and protection of the environment (Victor, 2008); and (4) growth in the richest nations is an ineffective and unsustainable means of reducing global poverty (Woodward and Simms, 2006). Taken together, these arguments provide the foundations for a radically new phase of macroeconomic policy in the richest nations, one in which economic growth should lose its privileged position as the touchstone of policy and institutional success (Alexander, 2011a; Stiglitz et al, 2010).

The substantive analysis of this article begins by briefly describing the dominant macroeconomics of growth and outlining their theoretical foundations. The article then draws on social and ecological research and economic theory in an attempt to underpin what Manfred Max-Neef (1995) has called the ‘threshold hypothesis.’ This hypothesis holds that ‘for every society there seems to be a period in which economic growth (as conventionally measured) brings about an improvement in the quality of life, but only to
a point – the threshold point – beyond which, if there is more economic growth, quality of life may begin to deteriorate' (Max-Neef, 1995, p. 117). The basic idea is that when macroeconomic systems expand beyond a certain size, the additional social and ecological costs of growth begin to outweigh the benefits, making any further growth uneconomic. The best way to determine whether growth is economic or uneconomic is to utilize the conceptual tools employed by many ecological economists, who have developed a number of indexes to measure and compare the benefits and costs of economic growth (e.g. the Index of Sustainable Economic Welfare (ISEW) and the Genuine Progress Indicator (GPI)). To anticipate the central finding here, in virtually every instance of where an index of this type has been calculated, the movement of the index appears to reinforce the threshold hypothesis (Lawn, 2005). Put more directly, there is an emerging body of evidence which indicates that many of the most developed regions of the world – including North America, Western Europe, Japan, and parts of Australasia – have entered or are entering a phase of uneconomic growth. This evidential basis has given preliminary credence to the radical notion of ‘degrowth,’ (Kallis, 2011; Latouche, 2009; Fournier, 2008; Baykan, 2007), which has been broadly defined as ‘an equitable downscaling of production and consumption that increases human well-being and enhances ecological conditions’ (Schneider et al, 2010).

Focusing on the highly developed regions of the world, this article draws on a wide range of literature to outline theoretically and support empirically the emerging case for degrowth. It argues that when an economy has grown so large that it has reached or exceeded the threshold point beyond which any further growth is ‘uneconomic’ (i.e. socially or ecologically counter-productive), economies should be reconstructed in order to achieve more specific welfare-enhancing objectives – such as eliminating poverty, lessening inequalities, and protecting the environment – and the efficient growth of GDP or lack thereof should be treated as a by-product of secondary importance. After defining growth economics and outlining the emerging case for degrowth, this article considers the feasibility of a macroeconomics beyond growth and begins sketching an outline of what such a macroeconomics might look like as a politico-economic program.

2. The growth model of progress

Economic growth is conventionally defined as a rise in GDP, and that is how the term will be used in this article, unless stated otherwise. The result of elaborate national accounting systems, GDP can be broadly understood as ‘the market value of all final
goods and services [i.e. commodities] produced within a country during a given period of time’ (Mankiw, 2008, 510). It can be calculated in three different, but formally equivalent ways, as Tim Jackson (2002, p. 99) explains:

> [GDP] may be seen, first, as the total of all incomes (wages and profits) earned from the production of domestically owned goods and services. Next, it may be regarded as the total of all expenditures made in consuming the finished goods and services. Finally, it can be viewed as the sum of the value added by all the activities which produce economic goods and services.

The first method, based on total incomes, is useful in the context of this paper simply due to its clarity, in that growth is perhaps most easily grasped when understood as a rise in per capita income. The second method, based on total consumption expenditure, is also useful because it provides the strongest foundation for interpreting GDP as a proxy for social well-being. This welfare-based interpretation holds that consumption expenditure in the market is an expression of the value consumers place on the goods and services they consume. An increase in income, therefore, should mean that consumers (including governments) get more of what they value most, since more consumer desires can be satisfied through market transactions. According to this conventional view, there is a direct and positive correlation between consumption expenditure and human well-being.

By essentially conflating economic and social well-being, growth in GDP per capita becomes a measure not just of economic success but of a nation’s social progress more generally, a view that can be referred to as the ‘growth model of progress.’ The dominance of this model today is clearly evidenced by the fact that growing the economy is the central objective of governments around the world and the primary measure of policy and institutional success (Purdey, 2010).

### 2.1. Theoretical foundations of the growth model

Classical methods of national accounting, despite their differences, all sought to measure only tangible products of the economy, excluding what we would call ‘service economies,’ including government services (Canterbury, 2003). By the end of the nineteenth century, however, Alfred Marshall (1997 [1890]) had articulated what is today called neoclassical economics, and this had significant implications for how national wealth came to be calculated and conceptualized. Marshall argued that utility,
rather than tangibility, was the true standard of production and wealth, by which he meant that the economic significance of a thing lay not in its nature or in how much labour went into its creation, but simply in its market price. This is an inclusive and homogenizing theory, one which values all market activity according to the lowest common denominator of market price. From this perspective, intangible ‘services,’ such as legal representation or accounting, are treated no differently from tangible ‘goods,’ such as sacks of potatoes or truckloads of iron (Cobb et al., 1995). All that matters is that a commodity is subject to exchange in the market, and since each market transaction is assumed to increase the wealth of both seller and buyer – otherwise why would the parties transact? – neoclassical economists argue that ‘free markets’ are in everyone’s interests and that market activity should be maximized (Friedman, 2002).

Neoclassicism accepts that there is an ‘optimal scale’ at the microeconomic level (Mankiw, 2008) – which is to say, it accepts there will eventually come a point where growth in an individual firm’s production will cost more than it is worth (and therefore be judged ‘uneconomic’ growth). However, there is no place in neoclassicism for an ‘optimal scale’ at the macroeconomic level, no ‘optimal scale’ of the economy as a whole. This is because technological and allocative efficiency improvements are thought to allow for an infinitely expanding economy, despite the fact that the raw materials needed for production are scarce / finite. Technological efficiency, it is assumed, will continually allow human beings to consume a finite set of resources more efficiently or, better yet, to consume a set of resources hitherto inaccessible (e.g. Lovins, 1998). Alternatively, human ingenuity in conjunction with pricing mechanisms will lead to scarce resources being substituted for less scarce resources when the benefits of doing so outweigh the costs. Allocative efficiency, it is assumed, will ensure that market mechanisms continually move resources into the hands of those who will ‘exploit’ them best (Posner, 1986). Upon these assumptions, neoclassical economics purports to show that an economy as a whole can and should continue growing indefinitely.

When Marshall was writing in the 1890s, and for several decades afterward, there was no comprehensive set of national accounts which could provide governments with detailed information on the extent or nature of market activity. This began to change in the early 1930s with the onset of the Great Depression, which highlighted the need for more detailed economic data. Responding to this deficiency, the United States’ Department of Commerce commissioned Simon Kuznets (who would later receive the Nobel Prize in Economics) to develop a set of national accounts. These were the prototype for what later became the GDP accounts. GDP accounting developed significantly during World War II to assist with planning, but it was really in the post-
war era that GDP came to prominence, not just in the United States but also increasingly around the world (Collins, 2000). Almost immediately international comparisons of GDP per capita were made as a way of assessing the relative ‘progress’ of nations. At the national level, growth in GDP quickly became the overriding policy objective of governments around the world, and to this day growth holds its place as the touchstone of political and economic success. The defining assumption of our age, it would seem, is that a bigger economy is simply better (Hamilton, 2003).

Reduced to its essential characteristics, this growth model of progress holds that the overall well-being of a society is approximately proportional to the size of its economy, in terms of GDP per capita, since more money means that more individual and social ‘preferences’ can be satisfied via market transactions. From this perspective, the answer to almost all social, political, economic, and even ecological problems is more economic growth (Beckerman, 2002). In other words, the model suggests that more growth, and only more growth, can eliminate poverty, reduce inequality, lower unemployment, and properly fund schools, hospitals, the arts, scientific research, environmental protection programs, etc. The great social problem according to this popular narrative is that even the richest nations do not have enough money to live well. And thus economic growth is heralded across the political spectrum as the goal towards which all nations should direct their collective energy.

3. The social critique of growth

As noted above, the growth model of progress assumes as a matter of course that an increase in GDP per capita will contribute positively and quite directly to a nation’s well-being. While neoclassical theory seems to accept that assumption without question, a growing body of indisciplinary scholars, building upon the pioneering work of Richard Easterlin (1974), has been examining its empirical basis using survey analysis (Diener et al, 2010). Summarized below, these scholars have found the correlation between income and subjective well-being to be much more nuanced than neodassicists generally assume.

It will probably surprise no one to discover that on average people in the richest nations report higher levels of subjective well-being than people in the poorest nations (Diener et al, 2009). But there is much evidence that now indicates that beyond a certain material standard of living, increases in personal and/or national income have a fast diminishing marginal utility (Diener et al, 2010; Layard et al, 2008; Lane, 2000). Indeed, when comparing only the richest nations – which are the focus of this article – the
correlation between GDP per capita and well-being is evidently negligible. Clive Hamilton, for example, has studied data on the richest 17 nations, and he found that 'there is no relationship at all between higher incomes and higher appreciation of life' (Hamilton, 2003, p. 26). Similarly, Richard Layard (2005, p. 32) has extensively reviewed the evidence and concluded that 'if we compare the Western industrial counties, the richer ones are no happier than the poorer.' In a very recent study, Layard and colleagues (2010) provide further support for this position and carefully respond to their critics (Wolfers and Stevenson, 2008; Deaton, 2008). This new study, among others (e.g. Di Tella and MaCalloch, 2010; Easterlin and Angelescu, 2010; Pickett and Wilkinson, 2010) essentially corroborates Ronald Inglehart's thesis (1996, p. 509) that 'although economic gains apparently make a major contribution to subjective well-being as one moves from societies at the subsistence level to those with moderate levels of economic development, further economic growth seems to have little or no impact on subjective well-being.' If this is so, the richest nations could now be confronting honestly what John Maynard Keynes (1963, p. 362) called our 'permanent problem' – that is, the problem of what to do with the freedom that material comfort provides. But instead of embracing that task, an apparently insatiable desire for growth continues to structure the collective imagination. This is despite the mounting evidence which indicates that further growth is unlikely to contribute much to social well-being (Diener et al, 2010; Blanchflower and Oswald, 2004; Lane, 2000).

Explanations vary (often in mutually supportive ways) for why increases in individual or national income beyond some material threshold have a diminishing marginal utility. Five of the most prominent arguments are: (1) that once a person's basic material needs are satisfied, relative income has much more effect on subjective well-being than absolute well-being (Layard et al, 2010), which means that growth eventually becomes a zero sum game; (2) that 'hedonic adaptation' occurs, meaning that as people get richer they generally become accustomed to the pleasure or satisfaction afforded by their increased income, nullifying the projected benefits of growth (Di Tella and MaCalloch, 2010); (3) that the material norms on which judgements of well-being are based tend to increase in the same proportion as the actual income of the society, again nullifying the projected benefits of growth (Easterlin, 1995) (4) beyond a certain threshold, distributive equity matters more than continuous growth (Pickett and Wilkinson, 2010); and (5) that people with materialistic value orientations tend to have lower personal well-being and psychological health than those who believe that materialistic pursuits are relatively unimportant (Kasser, 2002).
While the intricacies of these complex matters cannot be explored here, collectively this body of research casts considerable doubt on the assumption that getting richer will consistently lead to increased individual or social well-being. Indeed, the weight of evidence suggests that there are ‘social limits to growth’ (Hirsch, 1976) which many of the richest nations already seem to have surpassed. Although this matter is far from settled, a strong case can certainly be made that the richest nations – given appropriate institutional restructuring (see section 7 below) – could have a somewhat lower GDP per capita without compromising, and perhaps even positively enhancing, social well-being. This counter-intuitive thesis is likely to seem much less counter-intuitive when considered in conjunction with the following ecological critique of growth, since in that broader context the high consumption lifestyles celebrated in rich countries today are plainly the driving force underlying the manifold ecological crises the world is currently facing. In other words, it is becoming increasingly clear that it is in everyone’s interest – including the inhabitants of the richest nations – that contemporary Western-style cultures of consumption are quickly downscaled (Alexander 2011b; Trainer, 2010), and so too the size of the most highly developed economies.

4. The ecological critique of growth

Many credible scientific studies have shown that the human economy is degrading the planet’s ecosystems in ways that are unsustainable (e.g. Global Footprint Network, 2010; IPCC, 2007; Millennium Ecosystem Assessment, 2005; Wackernagel, 2002). While this is hardly news (Meadows et al, 2004), the full implications of ecological ‘overshoot’ are rarely acknowledged or understood, at least with respect to what it means for conventional growth economics. It is clear enough that human beings need to consume differently and produce commodities more efficiently (Arrow et al, 2004). But few people – and no governments, in the developed world, at least – are prepared to accept that attaining an ecologically sustainable global economy requires a fundamental reassessment of the growth model. On the contrary, the mainstream position on sustainability seems to be that economies around the world simply need to adopt ‘sustainable development,’ which in theory means continuing to pursue economic growth while employing science and technology to produce and consume more cleanly and efficiently (e.g. UNDP, 2007/8, p. 15).

This mainstream vision of how to achieve a sustainable world is coherent in theory, at best, but demonstrably it does not reflect empirical reality. Although many economies around the world are indeed getting better at producing commodities more cleanly and
efficiently (a process known as ‘relative decoupling’), overall ecological impact is nevertheless still increasing, because every year increasing numbers of commodities are being produced, exchanged, and consumed as a result of growing economies (Jackson, 2009, Ch. 5). We might have more fuel-efficient cars, for example, but the rebound effect is that we are also driving more and buying more cars. This is but one example of the ‘Jevons Paradox’ that permeates market societies and beyond (Polimeni et al, 2009) – a paradox, so-called, because a per unit reduction in the throughput of commodities does not always lead to reduced ecological impact, since those efficiency improvements are often outweighed by the increasing amounts of commodities that are consumed (Holm and Englund, 2009). The implication of this is that technology and efficiency improvements are not going to solve the ecological crisis, as their most optimistic advocates and popular consciousness seem to assume they can (Lovins, 1998) – at least, not unless the highly developed nations also transition away from growth economics.

The fact that the global economy is already in significant ecological overshoot (Global Footprint Network, 2010) is even more challenging when we bear in mind that in the poorest parts of the world today great multitudes are living lives oppressed by extreme poverty (World Bank, 2009). The momentous global challenge, therefore, in terms of humanitarian justice and ecological sustainability, can be stated as follows: The human community must find a way to raise the material standards of living of the world’s poorest people – which is obviously going to increase humanity’s demand and impact on nature – while at the same time reducing humanity’s overall ecological footprint (Meadows et al, 2004).

What further exacerbates these ecological and humanitarian crises, however, is the fact that, according to the United Nations, global human population is expected to exceed nine billion by mid-century (UNDSEA, 2008). This will intensify greatly the already intense competition over access to Earth’s limited natural resources and it will put even more pressure on Earth’s fragile ecosystems. The problem of a greatly expanding human population, therefore, provides further compelling support for the proposition that any transition to a just and sustainable world will need to involve the most developed nations transitioning away from the growth model.

Very few people, however, including many environmentalists, seem to acknowledge or understand quite how directly the global situation undermines the legitimacy of continued growth in the richest nations. Ted Trainer (2010, p. 22), being a rare exception, expresses the magnitude of the problems of ecological overshoot, economic growth, and population growth in painfully clear terms: ‘if we in the rich countries average 3% growth, and 9 billion rose to the living standards we would then have by
2070, total world output would be 60 times as great as it is today.’ While this future seems to be the very aim of globalized ‘development,’ it would be preposterous in the extreme to suggest that Earth’s ecosystems could withstand the impacts of a 60-fold expansion of a global economy already in ecological overshoot, especially since there is no evidence that absolute decoupling is occurring, or likely to occur. Degrowth in the rich nations seems much less ‘radical’ when considered in these terms. Indeed, degrowth in the richest nations would seem to be an absolutely necessary element in any solution to the global predicament – although one must also accept that the degrowth solution is effectively unthinkable in today’s politico-economic climate.

5. The economic critique of growth

In light of the preceding critiques, it would seem that the term ‘economic growth’ needs to be reconsidered. According to micro-economic theory, activity is considered ‘economic’ if the additional benefits of engaging in it are greater than the additional costs. For example, an extra unit of production by an individual firm is considered economic if the additional revenue generated is greater than the additional costs incurred. Similarly, an additional hour of labour is considered economic if the consumption-related utility from the money earned is greater than the leisure-related utility forgone (Lawn, 2008). Within this micro-economic framework it is accepted that there will come a point – an ‘optimal’ point – when the marginal costs of additional production or consumption equal the marginal benefits. This is sometimes called the ‘when to stop rule’ (Daly, 1999), a rule which implies that if growth occurs beyond the optimal point it will be ‘uneconomic,’ in the sense that the costs begin to outweigh the benefits. Micro-economists are the first to label uneconomic growth ‘irrational’ (Becker, 1962).

However, as Philip Lawn (2008, p.1) observes, ‘at the macroeconomic level, growth in real GDP is labelled “economic” growth irrespective of whether it generates more additional benefits than costs.’ It may well be that what most people mean by economic growth is growth of the economy, but Lawn (2008, p.1) correctly points out that ‘growth of something which happens to be called “the economy” is not the same as “economic growth.”’ Properly understood, economic growth means growth that generates more benefits than costs, all things considered. It follows that growth that generates more costs than benefits must be judged ‘uneconomic’ growth. But conventional macroeconomics does not recognize a ‘when to stop rule’ and so has no place for the notion of an ‘optimal’ scale of the economy as a whole. It just assumes that a bigger
The economy is always better; that growth in GDP is always ‘economic.’ The preceding critiques of growth cast serious doubt on that assumption.

If markets functioned perfectly, perhaps a rise in GDP would always be ‘economic’ growth. But that is to make a notoriously implausible assumption. Economists have long acknowledged that there are ‘market failures’ (Pigou, 1920), however only in quite recent times have the extent and significance of those failures been comprehensively and systematically exposed ((Daly and Farley, 2004, pp.157-220). Conventional growth economics based on GDP accounting fails to internalize many significant externalities that can be associated with economic activity, such as loss of social capital or environmental degradation (Stiglitz et al, 2010; Cobb et al, 1995). By failing to take such externalities into account, growth of the economy can seem ‘economic’ even when the economy has already exceeded its optimal scale, rendering any further growth ‘uneconomic.’

Although still in need of refinement, the ‘extended accounts’ of the ISEW and GPI are increasingly robust tools for exposing macroeconomic externalities and internalizing them (Lawn, 2005). In this way those extended accounts, and other similar ones, seek to measure as accurately as possible the true costs and benefits of growth and thereby help determine when growth is ‘economic’ and when it is not. Those extended accounts often use orthodox economic notions, such as cost / benefit analysis and externalities, to criticize neoclassical orthodoxy. Doing so opens up theoretical space for the notion of uneconomic growth at the macroeconomic level. Again, Lawn (2008, p.1) puts the situation well:

It is… critical that a distinction be drawn between ‘economic’ and ‘uneconomic’ growth; that indicators be established to determine what form of growth a nation is experiencing; that only ‘economic’ growth be encouraged; and that ‘uneconomic’ growth be addressed by making the transition to a steady-state economy (degrowth) at which time the sole emphasis of all economic activity should be on qualitative improvement not quantitative expansion.

Indicators such the ISEW and GPI already exist to inform us when a nation is experiencing uneconomic growth, and consistently the message delivered is that the developed nations are entering or have already entered such a phase (Lawn and Clarke, 2010; Daly, 1999). The implication is that just as an individual firm should downscale when the benefits of doing so would be greater than the costs, so should the over-developed economies downscale. This could be called ‘economic degrowth.’
For present purposes there is one final and important point in critique. Assuming the developed nations never choose to question the growth model – which one must admit is the most likely scenario – the issue of ‘peak oil’ and related energy supply problems (Hirsch et al, 2010) suggest that the era of growth economics is coming to an end nevertheless (Heinberg, 2011). Many parts of the world seem to be recovering (at least superficially) from the ‘credit crunch,’ but the ‘oil crunch’ may well come to tell a different story. Whether the transition away from energy-intensive economies occurs voluntarily or is imposed by force of biophysical limits remains to be seen. It scarcely needs remarking that a well-planned, voluntary transition would be the desired path.

6. The feasibility of a macroeconomics beyond growth

Even if the multi-dimensional critique of growth outlined above is accepted, or comes to be accepted, there might still be (and probably are) doubts as to whether planned economic contraction, or degrowth, is a feasible macroeconomic policy. After all, the logic of contemporary capitalism is arguably dependent upon growth, and as the recent financial crisis shows, an economic system dependent on growth that suffers unplanned economic contraction (i.e. recession) is not to be desired. Among other problems, recession causes rates of unemployment to rise, which leads to distressing economic insecurity and notoriously gives rise to a host of other social problems (Clark and Oswald, 1994). And aside from all that, growth is typically assumed to be the solution to unemployment, as well as the solution to other problems, like poverty and environmental degradation. How do these issues sit within a macroeconomics beyond growth? Is a macroeconomics beyond growth even possible?

Surprisingly, very little sustained attention has been given to these issues, although this tide seems to be turning. One of the most important contributions in recent years has been the in-depth analysis offered by the Canadian economist, Peter Victor (2008). Although Victor focuses primarily on the Canadian economy, it can be fairly assumed (and he would insist) that his conclusions have relevance to other advanced capitalist societies since they are all governed by essentially the same macroeconomic growth paradigm. After reviewing the foundations of growth scepticism, Victor considers the familiar argument that growth is needed to achieve important policy objectives, such as protecting the environment and eliminating unemployment and poverty. In a thorough review of the evidence since 1980, he shows that recent decades of unprecedented economic growth have not eliminated unemployment or poverty in Canada; that distributions of wealth have become more unequal; that growth has generally
exacerbated, not solved, environmental problems, and that greenhouse gases are still growing. On the basis that growth has been a disappointing tool for achieving these important policy objectives, Victor reasonably turns his attention to the question of whether those objectives could be better achieved in an advanced economy without relying on growth.

Victor uses an interactive systems model to explore the possibility of a macroeconomic framework that is not based on growth. This model allows him to consider changes in key macroeconomic variables, such as output, consumption, public spending, investment, employment, trade, and so on, in order to estimate future GDP in various scenarios, while also keeping an account of unemployment, greenhouse gas emissions, and poverty levels. By simulating a variety of scenarios, Victor illustrates that ‘no growth’ could be disastrous if implemented carelessly, bringing hardship to many; just as growing ‘business as usual’ would arguably be disastrous. But he also illustrates that slower growth, leading to stability around 2030, can also be consistent with attractive economic, social, and environmental outcomes, including full employment, virtual elimination of poverty, more leisure, considerable reduction in greenhouse gas emissions and fiscal balance. Furthermore, by comparing various low/no growth scenarios, Victor also shows that various attractive options are available. For example, some scenarios with higher investment seem more compatible with a future in which renewable energy and efficient technology become widely adopted. Other scenarios, where GDP and GDP per capita are lower, may not adopt those measures so quickly, but the lower incomes might compensate in terms of reduced ecological impact.

On what basis does Victor draw these conclusions? The most important features of a macroeconomics beyond growth relate to changes in investment and the structure of the labour market. Restructuring tax policies and redirecting public spending (see section 7 below) could be effective ways of changing investment strategies to realize the attractive hypothetical scenarios Victor envisages (including a shift in investment from private to public goods). The essential reasoning here is quite straightforward, even if its implementation would not be: new avenues open up for progressive politico-economic reform once growth loses its privileged position as the touchstone of policy and institutional success.

Nevertheless, this does not explain how the economy could function and be stable without growing and perhaps even shrinking to an extent. This is where a restructure of the labour market becomes essential. In a non-growing but qualitatively developing economy, technological advances would presumably still enhance the productivity of workers over time; but this could lead to increasing rates of unemployment, since less
labour would be needed to produce the same (non-growing) economic output. This phenomenon, along with increases in population, are the main reasons why conventional macroeconomists insist that growth is essential; that is, it is needed to avoid unemployment spiralling out of control. In a macroeconomic framework not based on growth, however, a stable system could still be achieved, but through the alternate route of reducing the workweek and sharing work more equally amongst the population. Some of the policy issues that overall work reduction involves will be touched on in the next section. For now the critical point to note is that work reduction is one of the defining characteristics of a desirable macroeconomics beyond growth. This approach implies that average material standard of living would remain at a constant or mildly fluctuating level in a non-growing economy, since increases in productivity would result in more leisure rather than more income. This obviously contrasts sharply with the growth economics practised in advanced capitalist societies today, where increases in productivity are almost always used to increase overall material output rather than stabilizing material living standards and reducing overall labour input (Robinson, 2009).

It is unfortunate that Victor focuses only on 'managing without growth' and does not specifically address the need for a period of degrowth, especially since the logic of his own analysis seems to require it, a point he gets tantalizingly close to acknowledging (Victor, 2008, p. 185; but see also, Victor, 2011). Nevertheless, in important respects degrowth is implicit to his argument, in the sense at least that he advocates a dedicated reduction in wasteful production and consumption as well as an absolute reduction in the ecological impacts of economic activity, not just relative decoupling. Taking Victor's analysis a few steps further, however, it would seem that some extra reductions in working hours, permitted by extra reductions in per capita income / consumption, could allow for a period of degrowth without inducing the damaging unemployment and economic insecurity that normally follow economic contraction and while still providing for a decent standard of living for all citizens. Whatever the case, the vital conclusion that Victor arrives at is that a stable and functional macroeconomic framework does not necessitate the never-ending pursuit of growth, and that conclusion is a hugely important step in the right direction.

Perhaps the most compelling grounds for thinking that such a framework is feasible, however, is the mounting evidence indicating that it is fast becoming absolutely necessary (Trainer, 2010). Continued growth of economy and population on a finite planet is a straightforward recipe for ecological (and therefore humanitarian) catastrophe, which suggests that whatever risks there are to experimenting with a
macroeconomics beyond growth, there are infinitely greater risks to persisting blindly with conventional growth economics. To put it proverbially, if we do not change direction, we are likely to end up where we are going.

7. Degrowth as a politico-economic program: a preliminary statement

The maintenance and protection of ecological integrity, on the one hand, and the redistribution of wealth and work to eliminate poverty and lessen inequalities, are some of the central policy objectives which seem to be implied by the idea of a degrowth transition to a steady state economy. This final section sketches an outline of seven policy proposals that could begin meeting those objectives and, in doing so, initiate a degrowth process of planned economic contraction. This list makes no claim to be comprehensive and limitations of space only leaves room to introduce the core ideas. A great deal more work would be needed to convince people of the merits and feasibility of these proposals, although some of that work has already been undertaken elsewhere (Alexander, 2011a). But it is hoped that what follows at least serves as a useful introduction to a politics of degrowth and provides a basis for future research and discussion.

- **Explicit Adoption of Post-Growth Measures of Progress:** It is now widely recognized that GDP is not an adequate measure of societal progress (Stiglitz et al, 2010). It is merely a sum of national economic activity which makes no distinction between market transactions that contribute positively to sustainable well-being and those that diminish it. Nevertheless, growth in GDP remains the overriding policy objective of even the richest nations. A politics of degrowth should begin by explicitly adopting some post-growth measure of progress, such as the Genuine Progress Indicator (GPI). The GPI and other such measures must not become objects of fetishization, like GDP has become, but public support for such post-growth national accounting systems would open up the political space needed for political parties to introduce policy and institutional changes that would genuinely improve social well-being and enhance ecological conditions – such as the following proposals – even if these would lead to a phase of planned economic contraction.

- **Working Hour Reductions:** As noted in section 6 above, restructuring the labour market is essential for a degrowth economy to function properly. The
first step down this path is to eliminate the structural biases that function to promote overwork, such as laws that treat the 40-hour work week as ‘standard’ and which exclude part-time employees from many non-pecuniary benefits enjoyed by full-time employees (Robinson, 2009). A second step would be to introduce something like Holland’s, *Hours Adjustment Act 2000*, which permits employees to reduce working hours to part-time simply by asking their employers. Discussing this legislation, John de Graaf (2009, p. 274) notes that, ‘Unless there is a clear hardship for the firm – something shown in less than 5% of cases [in Holland] – the employer must grant the reduction.... This law, in the most concrete terms, allows workers to trade money for time, without losing their jobs or healthcare.’ A third step would be to gradually decrease the ‘standard’ working week, beginning with something like France’s 35-hour working week, proceeding to 28-hour working week, and in time perhaps moving to a 21-hour working week (NEF, 2010). Collectively, steps such as these would privilege leisure over consumption and systematically distribute labour in a slowly contracting economy.

- **Basic Income:** To eliminate poverty, capitalist societies typically rely on growing the economic pie, not slicing it differently. Once the pursuit of growth is given up, however, poverty must be confronted more directly. Some form of Basic Income would be required. Although there is considerable variety in forms of Basic Income, the core idea is relatively straightforward: Every permanent resident would be guaranteed a minimal though dignified standard of economic security. A Negative Income Tax could be introduced as a transitional step, which would provide tax credits to every adult who earns below a certain income. In these ways material destitution within a nation would be virtually eliminated (Alexander, 2011a).

- **Progressive Taxation and the Maximum Wage:** The Basic Income could be funded in part by restructuring the tax system. The social research reviewed earlier showed that beyond a certain material threshold – which the richest nations have evidently already exceeded – further increases in personal or national income have a diminishing marginal utility. This means that very high incomes are an extremely inefficient use of resources, in terms of well-being, as well as being morally questionable as matter of distributive justice. Highly progressive income or consumption taxes could be introduced to respond
effectively to this situation (Frank, 2008). For example, a progressive income tax could culminate in a 100 per cent tax on incomes over a certain democratically determined level, thereby effectively creating a maximum wage (Pizzigati, 2004). A degrowth society need not enforce strict equality of resources, but if poverty is ever to be eliminated, the socially corrosive levels of inequality prevalent today (Pickett and Wilkinson, 2010) must be greatly reduced. Furthermore, for ecological reasons politics must do much more to reign in lifestyles of profligate consumption.

- **Worker Cooperatives:** A politics of degrowth would need to transition away from the profit-maximizing, corporate models prevalent under growth capitalism and move to an economy compromised predominantly of worker cooperatives and small, locally-owned enterprises. Governments could facilitate the emergence of cooperatives through such means as providing very attractive tax incentives, as well as preferring cooperative when contracting with the private sector (i.e. whenever possible government spending would be directed to cooperatives). Development banks could also be established through which governments could provide credit to help establish new cooperatives that would provide socially necessary services (e.g. local food production).

- **Renewable Energy:** Anticipating the imminent stagnation and eventual decline of fossil fuel supplies, and recognizing the grave dangers presented by anthropogenic climate change, a politics of degrowth would need to transition to renewable and more efficient energy systems. It would also be necessary, however, to simply use less energy, since it is very unlikely that renewables could ever sustain energy-intensive consumer societies, nor would that be desirable even if it were possible (Trainer, 2011).

- **Inheritance and Bequest:** The revolutionary structural reforms needed to transition to a degrowth society – such as those proposed in this short list – are going to require funding. As noted above, highly progressive income and/or consumption taxes can provide some of the funding, however more would probably be needed, especially in order to fund the Basic Income and the transition to renewable energy systems. This socially and ecologically necessary funding could be secured by abolishing the laws of inheritance and bequest, such that upon death a citizen’s property would revert to the state, rather than be
passed down from generation to generation. This would also contribute significantly to realizing the democratic ideals of equality of opportunity and a broad-based distribution of wealth.

It is suggested that these seven proposals, if implemented, would go a significant way to initiating a degrowth process of planned economic contraction. But again, a great many other politico-economic changes would be necessary also, shaped and implemented in context-specific ways. Some further areas that would almost certainly need to be addressed include: banking and finance; food production; transport; conservation of nature; advertising regulation; campaign financing; military expenditure; international law and trade; Third World (and First World) debt; foreign aid; and so and so forth. Some of the best places to continue exploring these issues are in the proceedings of the various degrowth or steady state conferences that have taken place in recent years (e.g. CASSE, 2011; Proceedings of Second International Conference on Degrowth, 2011).

8. Conclusion

When the extent of ecological overshoot is considered in conjunction with both projected population growth and the legitimate need for the poorest nations develop their economic capacities, degrowth in the richest nations seems a much less radical proposal that it might first appear to be. Indeed, the logic of argument, though easily ignored, is very hard to escape, and the prospect of an energy-scarce world just makes the case clearer. This is not to say that the details of what degrowth would involve are clear; and it certainly is not to say that the prospects of degrowth being voluntarily embraced are good. It is only to suggest that it is extremely hard to conceive of a transition to a just and sustainable world without the most developed nations going through some degrowth phase of planned economic contraction. Only a technological miracle, in the strictest sense, could make degrowth unnecessary. And yet it seems is that for which the world waits.

Given the magnitude and multifaceted nature of the global predicament, any response to it that merely tinkers with growth capitalism will be grossly insufficient. An adequate politico-economic response must reflect the gravity of the problems, and this article has argued that degrowth is the most coherent framework within which to formulate a response. Nevertheless, in closing it is worth acknowledging that however necessary it is for there to be a committed politico-economic response to the global predicament, such a response is highly unlikely to ever eventuate in the absence of a
cultural revolution in attitudes toward Western-style consumer lifestyles. That is to say, the voluntary emergence of degrowth in a consumerist culture is essentially a contradiction in terms, such that if a politics of degrowth is ever to emerge it will almost certainly have to be driven from the grassroots up by a culture that embraces some notion of ‘sufficiency’ in consumption (Alexander, 2010, 2011c, 2011d, 2011e). Something resembling the Voluntary Simplicity Movement or Transition Towns, for example, would need to be mainstreamed, radicalized, and politicized before any political campaign for degrowth had any realistic chance of success (Alexander and Ussher, 2011; Trainer, 2010; Hopkins, 2008). This may sound depressingly unlikely, but that just makes it all the more important that advocates of degrowth do not focus merely on highlighting the importance of structural change, while neglecting the necessary cultural preconditions for such structural change. Degrowth implies lifestyles of voluntary simplicity.

References


Arrow Kenneth et al, 2004. 'Are We Consuming Too Much?' 18(3) J. of Econ. Perspectives 147.

Baykan, B., 2007. ‘From Limits to Growth to Degrowth within French Green Politics’ Environmental Politics 513.


Trainer, T. 2010. The Transition to a Sustainable and Just World, Envirobook, Sydney.


