



one point zero

Mankind's Greatest Challenge: A Good Life within our ONE Planet's Means

'Zero Carbon' is Unclear?

Still Part of 'The Problem'? OR Courageous Lead to 'The Solution'?

A National focus on a 'Zero Carbon' agenda risks blinding NZ to the more challenging and urgent, Transformational Imperative needed to truly position NZ for the 2050 World, Humanity 'Has to Have'.

Today 'The World' is 70% in Biocapacity deficit! 1970 was the last time the world was in Biocapacity Balance, and as the BP, July 2018 World Energy Report shows, even with all the hope, 'good work' and promises, going on around the world, this deficit continues unabated, adding more and more 'fuel' to Climate Change. The Challenge of 'The Deficit' is huge, and yet in adopting non-transformational approach the nations of the world clearly aren't taking its truths seriously.

The Inevitable Moral Fashion Change

In a severely biocapacity constrained world, where the whole of humanity strives to live within one planet's resources, biocapacity in its scarcity, will become the new currency of value and trade. Until (if ever?) the world moves into *significant* biocapacity credit (way beyond 2050), excessive biocapacity demand will become more unfashionably and ultimately, 'morally unacceptable'. Irrespective of whether that be at nation, community, or individual level.

What will define 'excessive biocapacity demand' or not, at these sub-global levels is still part of an inevitable international wrangle to come.

NZ doesn't have to wait for that, as today, the dividing line between 'excessive' or 'acceptable', is well-defined at the 'Global Average Biocapacity per Capita' figure. In their demand of planet biocapacity, every western world nation is many multiples higher than this per capita, 'absolute maximum' for a Sustainable World!

This should reinforce that statement that a huge fashion change is part of the inevitable solution, and NZ, in its 2050 focus, can proact on imperative of this unfolding reality.

The New 'Wealth, Fame and Fortune' Currency

Further, as this happens, those with 'excess' biocapacity to offer others will become the new wealthy, setting this 'transformation of fashion': One where 'Flourishing at the lowest biocapacity one can', will be the path to a new form of 'wealth, fame, and fortune'! This from global, nation, and right down to the individual entity level.

The current Socio- Economic system of the world, and one which NZ has largely adopted, has the exact opposite wealth, fame and fortune 'definers'.

Whether radical thinking or not, these new fashion truths are logically, the only way our chronic Global Biocapacity Deficit, the cause of Climate Change, can be solved.

Many of The Labour, and Green Party, election agenda issues, pointed to issues linked directly to this 'wrong' fashion, and its rapidly spreading within NZ. The last National Government in its pursuit of its liberal agenda, actively promoted and 'walked the talk' of this fashion, and its associated values as 'NZ Success'.

In also holding the solution to Climate Change and our chronic Biocapacity Deficit crisis, moving to this new fashion requires a systemic transforming approach.

A bold move from the current Economic / Financial Wealth centred socio-economic System, to a Biocapacity centred one.

The Zero Carbon agenda and its bolt on approach, falls far short of enabling the Climate Change agenda, to play a central enabling role for this holistic, socio-economic transformation to begin. In Climate Change drives Fashion Change, Fashion Change results in A Sustainable, Fair, Robust 2050 ready, new 'Wealth, Fame and Fortune', NZ Nation.

The Essence of The Transformation Imperative

In its simplest form, the new socio-economic system, involves the elevation of the Nations Biocapacity Balance Sheet to be the 'Primary Book of Account', and the current Economic / Financial Balance Sheet being structured to best serve the Biocapacity One. Strategic Biocapacity Balance Sheet management is both an urgent and Critical matter, as NZ increasingly allows foreign ownership of these assets. The impact of the switch in Balance Sheet priority and its smooth transition requires globally leading, ground breaking, strategic thought. It will involve significant rethinking and structuring of NZ's assets, their ownership and control of use, and NZ's sources and value of trade and income.

The transformed socio-economic system would in probably include the following key goals.

1. **World Class Nation Per Capita Biocapacity Demand.** NZ's highest goal would be to ensure that its residents Total 'Consumption' demand, for Bio Capacity per Capita, trends towards meeting, the 'required Global Average for a Zero Biocapacity Deficit World. (This 'Consumption' metric being necessarily Nett of Exports and Imports, and inclusive of residents' Foreign travel, etc) This would require some more than 60% reduction in the current average NZ per capita demand! (This reason for it being today's goal for a 30 year transformational agenda!) The transformational aspect will force exploration of population management issues that may challenge today's policies.
2. **Maximising 'Surplus Biocapacity'**. To continually seek to maximize '*Surplus Biocapacity*.' (that beyond what is needed for 'optimal' resident consumption demand.)
 - Firstly, by ensuring continual minimisation of the demand on this biocapacity by the resident population.
 - Secondly by continuously seeking to increase the nation's total biocapacity resource.

3. **Maximising Value of Surplus Capacity.** To seek to maximise the value of 'Surplus Biocapacity' on the Global Market, by controlling the third-party use for the most productive contribution to reducing the Global Biocapacity Deficit.
4. **Minimise Non-Optimal Third-Party Use of Biocapacity.** To minimise Non-Resident / Visitor use and 'not optimal' use, of NZ's biocapacity, and ensure this is properly accounted for by the visitor home nation.
5. **Transform Imports and Exports based on Biocapacity.** To move its imports to the lowest Biocapacity demand per Dollar, while moving Exports from the current high biocapacity products to the 2050, next generation, solutions to the fundamental human needs behind these products. Eg Dairy products being the human need for protein, and Tourism being the human need to 'explore'?
6. **Physical to Knowledge / IP based Economy.** To transform its agriculture and biocapacity expertise from a physical into a knowledge based, export industry and source of low footprint, high dollar value income. This centred around the experiential learning on its own biocapacity leadership initiative: This including the innovative management systems needed for managing consumption based biocapacity demand, down to the individual level, and the research and development of optimal future protein food solutions. This has huge potential, and is virtually dormant today, as the world focuses on infrastructure solutions to the Biocapacity Problem, that are void of the vital socio-economic system transformation element laid out in this submission.
7. **Socio / Economic Reform.** Restructuring the Economic / Financial Balance Sheet to enable the Biocapacity Balance Sheet changes above to happen without compromising the economic position of the Nation as the world moves to the new Biocapacity Wealth / Trade Currency.

NZ Transformation Imperative: Some Specifics

Clearly the above needs much more specific design from a refocused, Government team, but the purpose of this submission is to point to the 'probable realities' of a 2050 world and NZ's transformational 'possible repositioning' opportunities within it.

More specifically, some of the 'probable priority' areas are developed below.

1. **Animal Agriculture 'Footprint':** The government, would undoubtedly know, that If the world is even slightly serious about addressing Climate Change, Meat and Dairy products will increasingly become 'unfashionable'. Further between now and 2050 if a Sustainable World becomes an urgent imperative, and the all defining, global biocapacity limit is respected, these products will certainly become the next hated, 'fossil fuel' / tobacco, equivalents. No matter how low their footprint the industry and producers, will increasingly be tarred with the same brush as the Oil Industry today. Maybe there will be a new celebrity elite of privileged, high footprint food consumers, but unlike tobacco use of the products will become 'morally selfish'.

Is NZ going to courageously, and proactively lead, both its people and its primary industry out of this dilemma, or is it positioning itself to be the last provider of this ever shrinking, exclusive and unfashionable, immoral market?

In proposing the nation reduces animal protein consumption yet relying on an economy that is based on these very products the NZ Government risk a huge conflict of focus and part of an 'oil industry like', credibility trap.

While its economy is dependent on these products the conflict of interest in these strategic choices, will delay the vital transformational clarity, that is necessary in moving NZ, and its people, to a robust and 2050, leadership position.

Further: It would seem obvious that if NZ is really committed to punching above its fighting weight as a Climate Change activist, it needs to walk the talk and show leadership in 'personal transformation in its own backyard.

- 2. Tourism Footprint:** International tourism is a huge income provider for many nations including NZ. NZ has seen huge growth, and from public projections seems to be 'economically relying' on continued growth 'through to 2050'. Worldwide, Tourism contributes some 10 - 14% of today's Green House Gas emissions. International travel (air and sea) is mostly, not accounted for on any nation's Emission accounts. Further, with the 'Territorial' based Emissions based accounting today, the footprint of tourists is carried by the host nation. (and thus, its people.)

There is no remote sign on the horizon, of a solution for significantly reducing the air / sea travel emissions. If the world is to move towards its 2050 biocapacity goal imperative, it is only a matter of time before the scarcity of global biocapacity will place a spotlight on tourism's demand of scarce biocapacity. Even now NZ's focus should be on the tourist dollar income versus biocapacity demanded.

Relative to the top nations, NZ has a very poor dollar income per biocapacity demand for its tourist industry. With the challenge of the chronic global biocapacity deficit and a tightening biocapacity, alternate biocapacity use for more critical human needs, will transform the value of tourism to nations. If humanity average per capita biocapacity allocations were enforced on all today, tourism would virtually disappear. A stupid impossibility, or a radical future truth?

Therein lies the immediate conflict for NZ, one which a Zero Carbon, in its approach and accounting virtually disguises. In the process avoiding NZ facing truly transforming its Tourism industry for the Biocapacity realities of the future.

NZ should proactively lead this necessary transformation of tourism world-wide, and in the process create more certainty, robustness, and a less intruded NZ more desired by its residents. Clearly this goes against current world trends, and this is further evidence of the current systems flaws, and the need for bold, transformational leadership.

- 3. Wealth Inequality Footprint.** It is a well-accepted fact that the wealth distribution within nations around the world is becoming more unacceptably skewed to the higher echelons of society. The Labour Party, and now the new Government, has indicated its deep desire to reverse this trend. There is general global consensus that this isn't a good trend in the long run, yet thanks to the National Government's initiatives, NZ which traditionally much more egalitarian, is well on its way to following the chronic, global trend.

Tracking the widening Wealth Gap is the 'Footprint Gap'. Those at the top of the wealth pile have personal biocapacity demands many orders of magnitude higher than those at the bottom. There is almost a direct relationship between wealth and footprint. Essentially those at lower down the wealth rungs, are 'ecologically subsidising', those at the top. While higher levels of financial wealth could be seen as just reward for business mastery and risk, in a biocapacity limited world, there surely is no moral / rational basis of justification for this wealth being a licence for excessive biocapacity utilisation.

With almost every developed nation demanding more than four times the biocapacity per capita needed to solve our chronic Deficit crisis, and those in the upper wealth echelons demanding 'tens of times' more than this standard, the chronic Wealth Inequality problem has seemingly a natural, and morally sound, solution: The transformation of the current Economic / Financial Wealth centred socio-economic System, to a Biocapacity centred one. There is no way that NZ could be able to achieve the radically lower Biocapacity per capita imperatives above, with even its current wealth / footprint imbalance, and herein lies the natural Wealth Gap rebalancing remedy.

Interestingly, as pointed out in the Governments papers re Zero Carbon it is expected that the lower wealth rungs of NZ will be 'most disadvantaged'. This, while probably, further, 'ecologically subsidising', those in the upper rungs.

Globally, the public awareness of his linkage between the Wealth Gap and Footprint Gap, is at the early stage of awakening. With increasing awareness in the context of a growing Climate Change Biocapacity crisis governments around the world can expect this linkage to have exponentially rising dissent, amongst the youth and disenfranchised. This translating into chronic demands for the transformational 'fashion change' laid out above.

NZ, in its relatively low inequality situation, and strong Biocapacity Balance Sheet is best placed to proactively address the situation in a broad transformational agenda, designed to move the nation to a 'biocapacity centred', Socio-economic system.

4. **Biocapacity 'Economic Re-Orientation'**. As the inevitable Biocapacity crisis unfolds, Biocapacity will become an increasingly high valued, tradeable commodity. Owners of excess biocapacity will not need to rely on income from

the physical production and sale of the products produced from the excess biocapacity. Rather they will be able to sell 'use of the biocapacity' to those nations in biocapacity deficit (This will be 'most nations'.)

Systems and technology that improve optimal use of biocapacity will be highly valued, and potential for significant 'export royalties' at low, biocapacity demand intensity. (This versus the high biocapacity intensity agricultural physical goods of today.) NZ should transition its economy into being a leading provider of these high value, knowledge based, products and services.

In a generic transformational context, NZ should be moving its exports from high biocapacity intensity per dollar products and services, to low biocapacity demand per dollar ones. A move from an agriculture economy to a knowledge and IP based export economy, connected to and leading the future to low biocapacity agricultural products / markets.

Radical thoughts, or how the world WILL BE by 2050? If 'we' are serious about solving Climate Change, then surely this IS how the world WILL HAVE TO BE in 2050?

Conclusion Recommendation

Rather than spend scarce NZ resources on a short sighted, '**Zero Carbon**', Territorial Goal, NZ should use the 'time luxury' of its current strong *Biocapacity Balance Sheet*, to design a truly strategically valuable, **Transformational Agenda**. One that holistically *transforms* its **Economy and Social** systems to meet the real 'new fashion' challenges of a 2050 world, and in doing be so proactively shaping the global design for the 'Humanity Imperative' of a 2050 World with **Zero Biocapacity Credit**.

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