

### **Abstract (from 2018)**

# Instigating a New Paradigm - Creative Transitions to Sustainable Futures across all the Well-Beings

In three evenings, we will explore joined-up approaches to economy, society, placemaking, kaitiakitanga, best ecological practice, and how to inspire society and culture on this fragile planet to change course. Should be easy! We will interrogate the latest insights on global trajectories and emerging crises, structured around the standard 'well-beings', then conduct a visioning exercise addressing the need for radical solutions, their shape and implications. The focus will shift to defining and designing practical transitions from BAU to soft-landings onto a sustainable future. We will critically explore ideas that are evidence-based, life-affirming, reality-checked and within the comfort zone of real people - across cultures, religions, ethnicities, and personalities. A big ask? And we can only make a start, but this and follow-up discussion will direct and refine research questions around trends, consequences, sustainable needs, optimal design and acceptability of change. The precautionary principle and the need for urgent change suggests global society needs to have a Plan **B** ready for when near future governments desperately ask 'what can we do'? **Our** method will be interactive – using techniques of collaborative learning and cocreation of solutions to wicked problems; we will acknowledge and employ existing groups and initiatives in the city and around the world (not start from scratch). We will work the crowd to get your input. Our objective here in Ōtautahi-Aotearoa is to be a **beacon** that shines through the gloom.



## Intro for 2019 Series – Take 2

Framework for WEA Evening Class

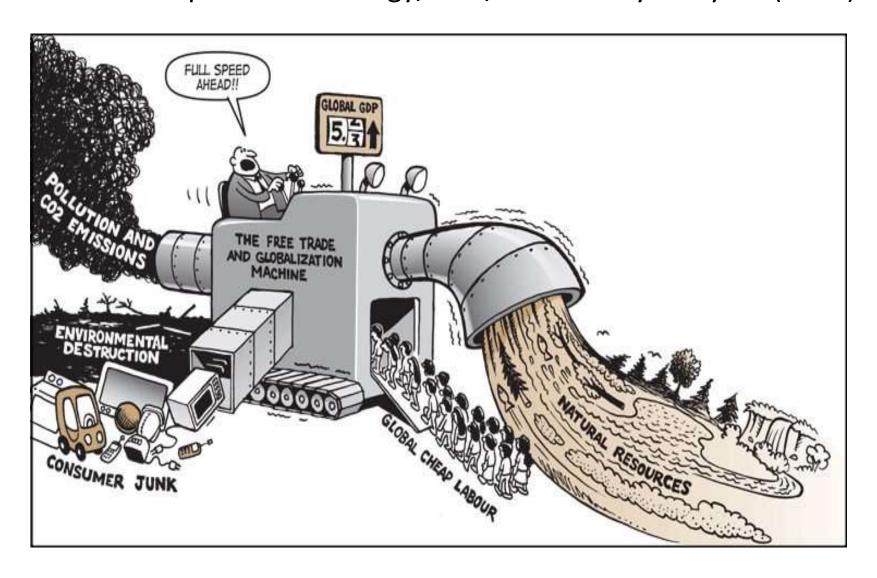
Creative Transitions to Sustainable Futures
Designing Stepping stones from BAU to SSF

6 Bottom Lines: Pillars of Sustainability/Well-beings

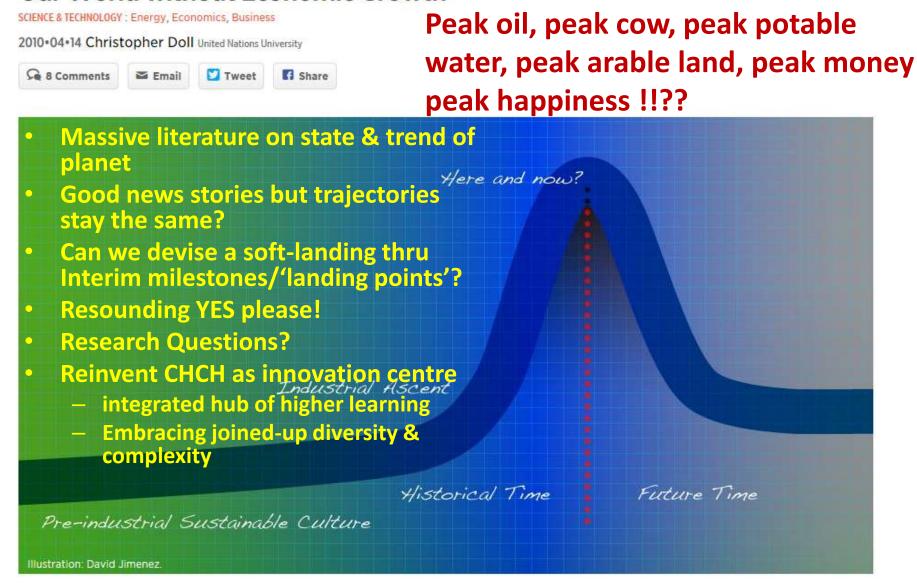
A series of Facilitated discussions

- Eco-sphere (13<sup>th</sup> March)
- Psycho-socio-cultural sphere (20<sup>th</sup> March)
- Econo-sphere (27<sup>th</sup> March)

A quick reminder of some of material presented/discussed under the topic of the ecology/land/biodiversity last year (2018)



#### **Our World without Economic Growth**

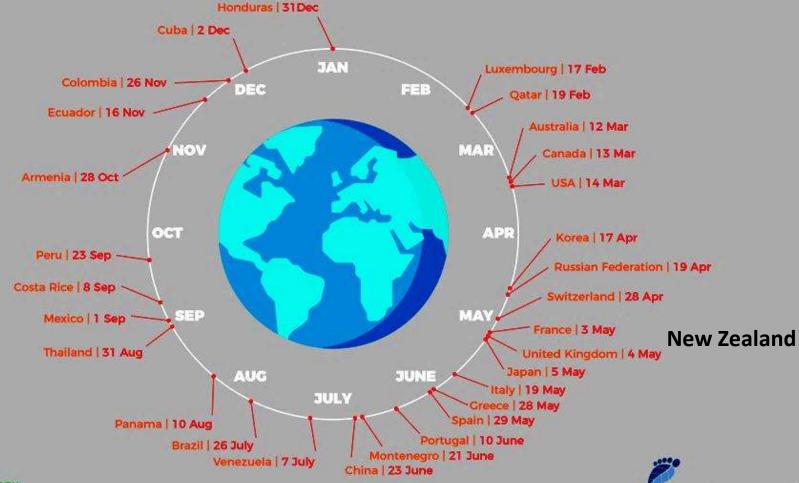


Last March, Tim Jackson put forward the idea of prosperity without growth in a report published by the United Kingdom's Sustainable Development Commission and followed up with a book of the same name released last November. The book is a best seller (ranked 1,729 on Amazon) and in it he argues convincingly that we can still prosper without adhering to the encoded mantra of expansion and growth that permeates modern market economies.



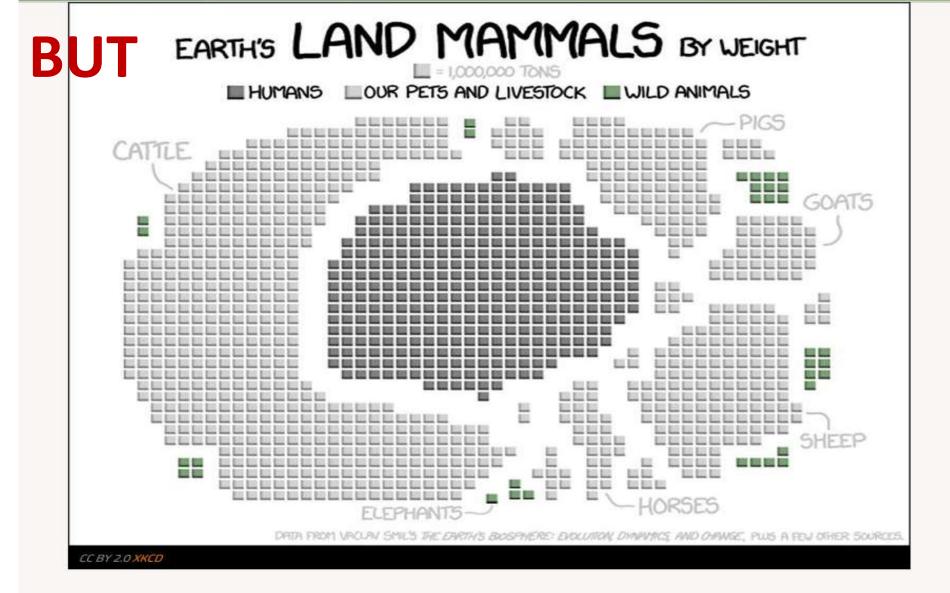
## **Country Overshoot Days 2017**

When would Earth Overshoot Day land if the world's population lived like...





Global Footprint Network®



Randall Munroe, a former NASA roboticist who nows draws clever geeky webcomics at XKCD, used data from Vaclav Smil's *The Earth's Biosphere: Evolution, Dynamics, and Change* ("plus a few other sources") to create a visualization of all of Earth's land mammals, which include us, by weight. It does certainly put things in perspective, especially when you compare wild land mammals to us and our livestock and pets.

## The sixth great extinction



#### As we humans convert more of the Earth's surface to our use

- ... we reduce the land available to other species so much that they die. They simply
  do not have enough to live on. And of course pesticides and actively hunting
  animals makes it worse.
- On current trends, by 2026 all the large mammals in the wild will be gone... unless we make drastic changes.

#### **Pollinators**

- You may be aware that the loss of bees is a worldwide phenomenon. And it's not just bees. Birds, bats, beetles, moths, butterflies and other creatures that carry the pollen necessary for fertilizing over three quarters of the world's main food crops and 90% of wild flowering plants are declining. Pesticides are a primary cause, with habitat loss and climate change as additional factors.
- New study suggests insect populations have declined by 75% over 3 decades October, 2017

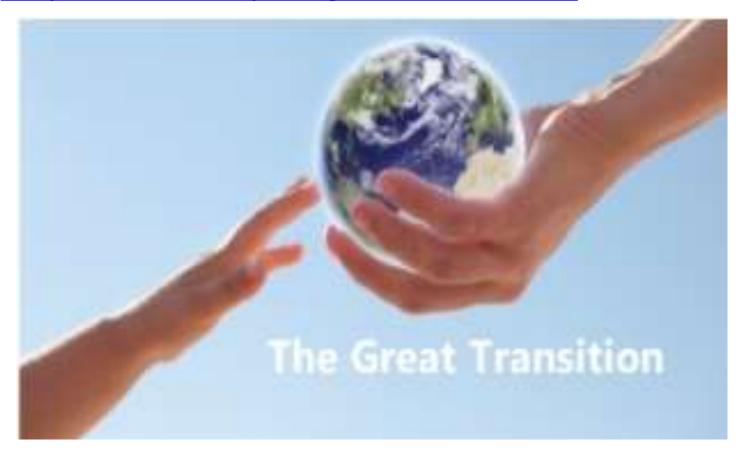
#### When our life support system goes, we go [danger of Pandemics]





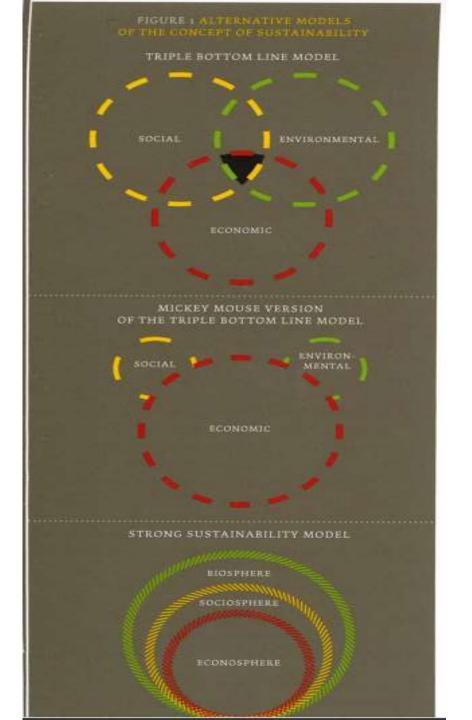
## The Great Transition Initiative

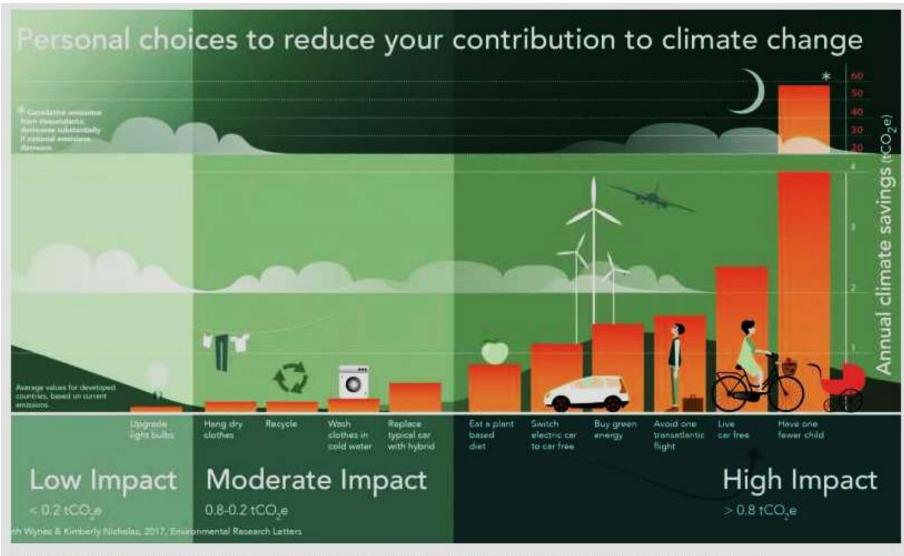
- ... is a vehicle for inspiring thousands of groups to act as citizen educators championing a lifeaffirming global culture
- http://www.inspiringtransition.net/



Definition of Strong
Sustainability From Sustainable
Aotearoa NZ (SANZ) Living within earth
limits <a href="http://www.earthslimits.org/">http://www.earthslimits.org/</a>

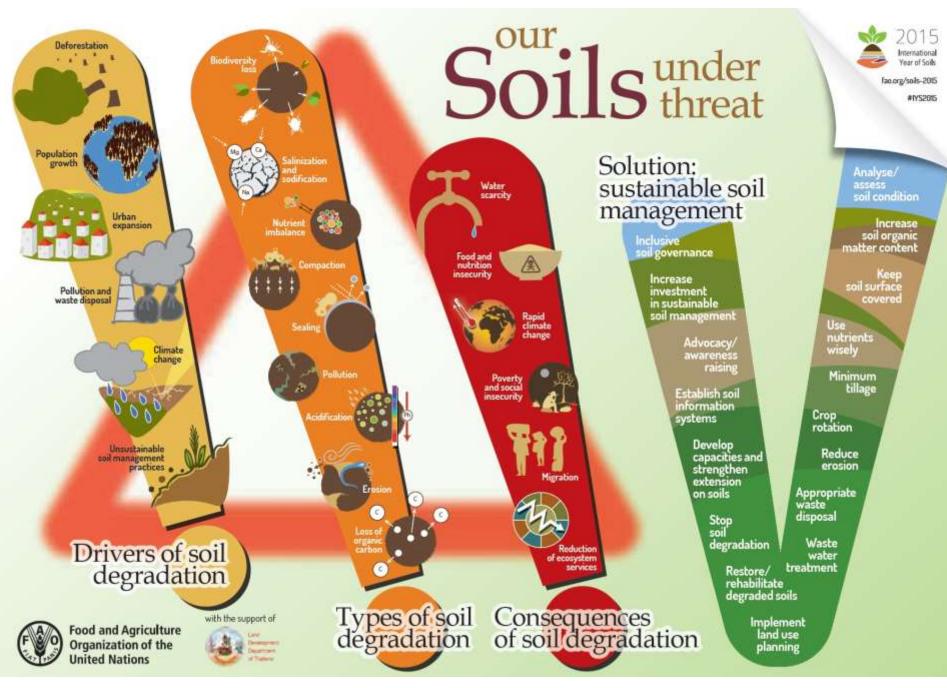
Note the Hierarchy of Nested Spheres for Strong Sustainability



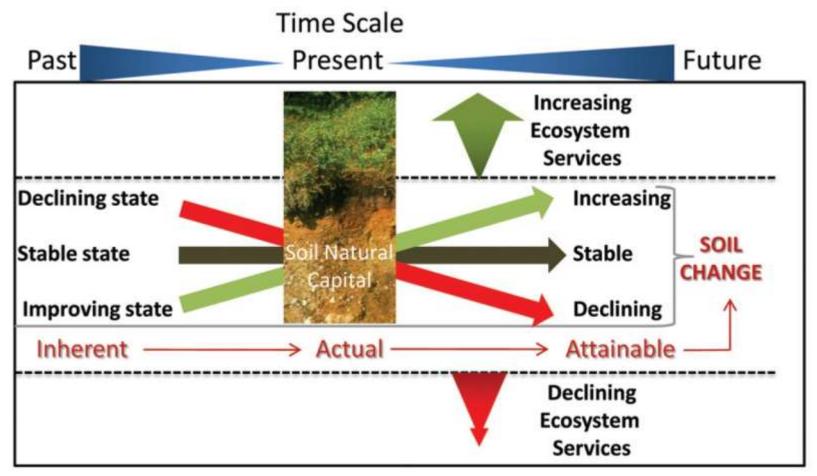


This infographic shows climate choices. Credit: Seth Wynes/Kimberly Nicholas, Environmental Research Letters, 2017

## Personally effective ways to reduce Carbon Footprint



## Sustainable land & soil management



source: Robinson et al. 2012 http://dx.doi.org/10.2136/vzj2011.0051

## **Permaculture**

#### Permaculture Flower

The permaculture journey begins with the Ethics and Design Principles and moves through the key domains required to create a sustainable culture. The spiral evolutionary path joins together these domains, invitably at a personal and fiscal level, and then proceeding to the collective and global level. Some of the specific fields, design systems and solutions that have been associated with the wider view of permaculture are listed below.

#### Land & Nature Stewardship

Bio-intensive guidering Forest gardening Seed saving Organic agriculture Biocynamics Natural Farming

Regine water harvesting.

Holistic Rangeland Management Natural Separace Farming Agroforestry Nature-based forestry integrated aquaculture Wild harvesting & hunting Georing

#### Building.

Passive salar design Natural construction materials Water horvesting & Waste Reuse Biotechture Earth sheltered construction Natural disaster resistant construction Owner building Pattern Language

#### Took & Technology

Reuse & creative recycling Hand Tories Boydess and electric bilans Efficient & low pollution wood stoves Fuels from organic wastes Wood Gasification Bio-char from Ideost wastes Co-generation Micro-hydro & small scale wind God-lied renewable power generation Energy storage Transition regimening

#### Education & Culture

Hamic Schooling Waldoof education Participatory arts and music Social ecology Action Research Transition culture

#### Health & Spiritual Well-Being

Home birth & Breast feeding Complementary & Wholistic Medicine Yogs, Tar Chi & other body/mind/sprit disciplines

Spirit of place, indigenous cultural revival Duing with dignity

#### Finances & Economics

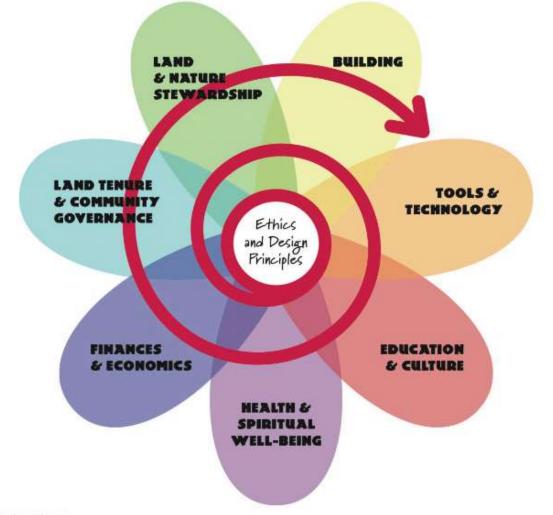
Local and regional currencies Carpording, Ride sharing R. Car share Ethical investment & Fair Trade Farmers markets & Cammunity Supported Agriculture [CSA] WW00Fing & similar networks Inscable Energy Quotes Life Cycle Analysis & Emergy Accounting

#### Land Tenure & Community Governance

Cooperatives & Body Corporates Cohousing & Ecovillages Native Title and trait tional use rights Open Space Technology & Consensus Decision Making



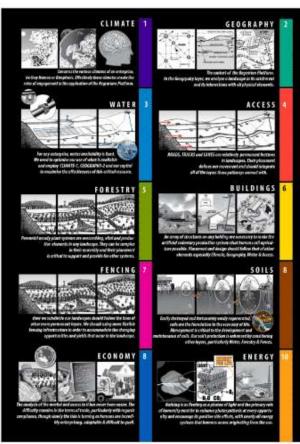






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## Permaculture > holistic grazing









Margazara (The Randy Ranns is a 610 heutare/1500 acre fell country farm in Elethorps, Hawke's Boy, It has been stewarded by the Hard family since 1990.

The farm is a disense mix of lains, well ands, paul fairs, ralling and strep; hits, publish, native and exists trees. Like a living property, it is constantly employing

The excusion of this land and community for multy sped up in the last 15 years, towards a regimensted, connected landscape & people We invite you deeper into this story below

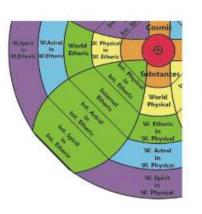


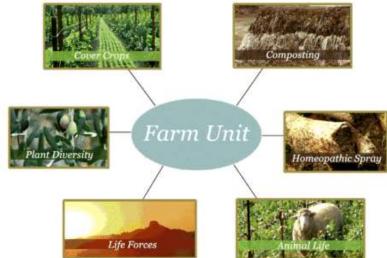
durylates.	Our Vision
Dy Yare	The Family Farm wistors have four parts:
The Davies	1. To produce healthy & nestrons right hand as part of a resilient & profusive model of regenerative agriculture.
Property .	<ol> <li>To balance relationships between nature and possibility agreeabure as part of ecosystem reconston, including a focus on soil.</li> <li>Realth, carbon requestration and planting nerve and food producing times.</li> </ol>
	<ol> <li>In utilize the form and too codgs as a source of education, accommodation and inspiration, allowing people to commit facilities returns, final and farming, and</li> </ol>
	<ol> <li>To be open and share the farm's resources, building a community model that shows what is possible when we work cooperatively with each other and nature.</li> </ol>

## **Biodynamic farming**



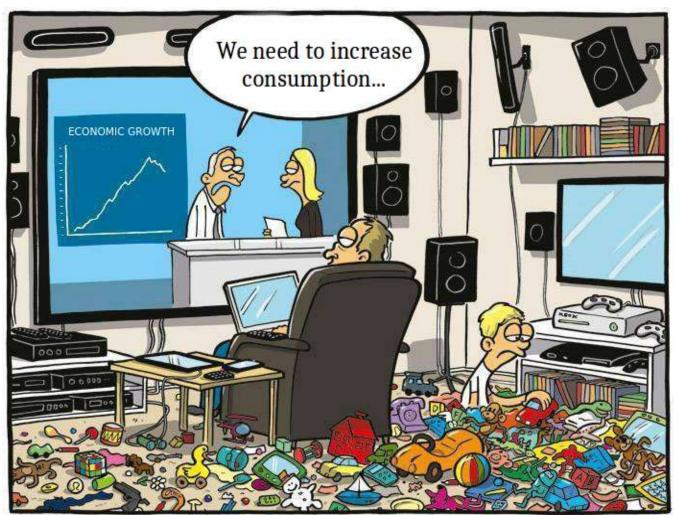






## **Rescuing Biodiversity**

- Extinction of Experience leads to extinction of species
- Authentic place-making must include visibility indigenous nature & culture
- Through protection, restoration, landscape pattern, connectivity, ecological literacy



## The way forward

Transition to a life-affirming global culture
Bring Uncomfortable Truths into Mainstream



Rather (precautionary principle) ...

do we have answers good-to-go if the manure hits the fan?

The Earth is vast; it is our Home

The Great Transition Initiative - <a href="https://www.InspiringTransition.net">www.InspiringTransition.net</a>

## Landing points – Back-casting; defining & designing transitions to fit people's comfort zone; Research opportunities

Facilitated Floor Discussion May 2018

Reported on White Board and written on post-it notes

# OUTCOMES – FIRST NIGHT (ECOLOGY) WHITEBOARD NOTES (black type is directly from board, green is CDM supplementary comment)

- HEALTHY PROCEDURE OUTCOMES/SOS
- DIVERSE LANDSCAPES
- HUMAN ECOLOGICAL FOOTPRINT and associated domestic animals
- REWILDING OF FERTILE Landcare Research CROP VS ANIMAL PRODUCTION
- GREENING CITIES JUNGLE CROPS + BIODIVERSITY
- POPULATION limits/carrying capacity
- PLANET WILL HAVE TO SUPPORT 10-11 BILLION PEOPLE
- PROBLEM IN CONSUMPTION
- VEGAN/VEGETARIAN VS REDUCEVARIAN
- SELF SUFFICIENT BASIC NEEDS
- NZ CAN FEED ITSELF but maybe no surplus for export, to pay for imports?
- RESPECT FOR OTHER LIVING CREATURES LANGUAGE OF seeing everything as a "RESOURCE" for consumption or to make money from – ENDEMIC/INDIGENOUS
- EARTH other word for soil
- REGENERATIVE AGRICULTURE REGENERATING soils, productive capacity, water
- RATIONAL MIND vs ORGANIC MIND
- ALTERNATIVE WORLD VIEWS: INDIGENOUS peoples
- URBAN SPRAWL ONTO TOP QUALITY (VERSATILE) soils
- KNOWLEDGE/WISDOM
- TRADING LIVING DENSITY FOR PERSONAL SPACE
- [continued over]

## continued

- LOCAL WORKING + LIVING/SHARING RESOURCES vs individual resources
- COMMUNITY OWNED resources/utilities
- NATIONAL + LOCAL 100 YEAR PLANS, GOVERNMENT
- EDUCATION = CONNECTING TO PRODUCTION TRANSPARENT RESOURCE USE OF PRODUCTS – SHARE
- EFFECTS OF ELECTRICITY/RADIATION
- (CHRISTCHURCH) INNER CITY GREEN ZONE GROWING
- GRASS ROOTs ACTIONS: POWER STRUCTURES DO THEY HAVE A LIMITED TOLERANCE TO COMMUNITY EMPOWERMENT? AND WHAT ACTION WILL THEY TAKE TO MAINTAIN POWER?
- DEVELOPMENT OF COLLECTIVE WILL TO CHANGE
- DON'T LET A GOOD CRISIS GO TO WASTE IS THIS THE BIG\_ONE
- WE ARE A CRISIS MANAGEMENT SPECIES
- PEOPLE ONLY TAKE NOTICE OF PETROL ONCE ABOVE 10\$/I AND BAD WEATHER EVENTS
- NO ONE LISTENS TO SCIENTISTS; IS it THEIR MESSAGING?
- RAISING ECOLOGICAL LITERACY OF PUBLIC
- CRI/HEALTH SCIENTISTS (not) ALLOWED TO SPEAK/WRITE WITHOUT APPROVAL REQUIRED (cf MIKE JOY)
- RETURN TO HUMANISM RESPECT EACH OTHER
- CHARTER RIGHTS vs DUTIES
- ENABLE FUTURE GENERATIONS + NATURE/OTHER VOICES TO BE HEARD
- SOCIAL EQUITY
- POWER
- TREATY OF WAITANGI
- BASIC BUSINESS PARADIGM

## **Landing points -** Research opportunities - designing transitions to fit people's comfort zone

- Reuse Repair Recycle
- Transition towns; Transitions/Stepping stones/empowerment/hope/resources
- Practical tools impact (C footprint) of changing different things in life
- Practical models (Edward Mitchell) demonstrations; role models; political allies and champions
- Biophilic Cities <a href="http://biophiliccities.org/wp-content/uploads/2018/04/Coffman-Preprint.pdf">http://biophiliccities.org/wp-content/uploads/2018/04/Coffman-Preprint.pdf</a>
- Veganism???
- Harvey Locke & EO Wilson proposed 50% of planet should be wild?
- Too many pets 1 large dog (and 5 cats) equivalent to an SUV
- Joined-up thinking; ecology, history & culture in design (legibility)
- Sustainable Aotearoa Strong Sustainability <a href="https://www.facebook.com/SANZ-Sustainable-Aotearoa-New-Zealand-1462909530621690/">https://www.facebook.com/SANZ-Sustainable-Aotearoa-New-Zealand-1462909530621690/</a>
- Small is beautiful
- What can the west cut back on; what is reasonable carrying capacity that allows us to share with each other and with the other creatures on the planet? What are implications for population and migration
- What technologies are there for regeneration and life-affirming global culture; relationship to kaitiakitanga
- Ecological Literacy Messaging
  - Understanding biodiversity, material cycling, decomposition, energy flows, foodwebs, succession, trends, capacity, limits, human dominance and impact
  - Biomimicry going with the flow, copying nature
  - The role of biodiversity in place-making and well-being (a sense of history and identity)
  - Medical Professionals are generally accepted as promoting preventative measures to maintain public health;
     ecology now has to advocate for the health of the planet the stakes are high