Welcome to this week's presentation and conversation hosted by the

Canadian Association for the Club of Rome, a Club dedicated to intelligent debate and action on global issues.

The Value Crisis: Re-visioning What We Know.

Our speaker today is Andrew Welch, who has worked as a computer systems analyst, actor, educator, theatrical set designer, corporate facilitator, high-angle rescue professional, software manager, and official town crier. His renewable energy monitoring systems are now used on every continent, and he is a volunteer Disaster Management Lead with the Canadian Red Cross. His first book, The Value Crisis, was published in 2014. He questions whether our problems are really intractable or whether the answers are hiding in plain sight. He will introduce his unique values framework, with the following objectives:

- 1. Derive some rational conclusions from what we already know
- 2. Propose a powerful paradigm to explain why we got to where we are
- 3. Use those to suggest what might come next, and what we might do to survive as a species.

The presentation will be followed by a conversation, questions, and observations from the participants.

CACOR acknowledges that we all benefit from sharing the traditional territories of local Indigenous peoples (First Nations, Métis, and Inuit in Canada) and their descendants.



2022 Sep 14

My Promise

You will be given a unique and exciting new approach to answering the most intractable questions that this group regularly wrestles with.

Flight Path

PART I - The Framework

- The core value fault
- Problems why?
- Visualizing the issue
- PART II Applying It
- What's stopping us?
- Some of 33 questions
- Solution strategies

Information/History – What is or was happening

Climate in Paris

Machine learning

Climate of the Holocene

Ottawa light-rail trains

Scaling up urban low-carbon innovations

Al opportunities and threats

New gender lens for space tech. & exploration

Green fund for municipal sustainability

Making Ottawa the green capital of Canada

Why we should care about geology

Canada: from Rio to Paris

Canadian Energy History

Precolumbian Cultures of the Americas

NRC's climate-resilient buildings

Whistleblowing and CoViD-19

Stockholm 1972 revisited

Environment, Ethics & Sustainable Dev.

Arms Control and Disarmament

Food Security for humankind

Sustainable living

Travelogue through time

Off-grid root cellar

LEAP schools

International Environmental agenda

Distance learning

Novel viruses in the modern world

Limits to growth at 50 years

Behind the Montreal Protocol

Automobiles in Canada

Earth Day 2021

Responsible banking

How women deal with global issues

Millview passive house

Bhutan's journey towards GNH

Path to Canada's future homes

Sharing world environmental data

eLearning: friend or foe

Saving the bees & climate change

Remediation Projects for Contaminated Sites

Pathways to climate stability

COP26

Smart cities

Canadian environmental protection act

Health impacts of climate change

Millennium seed bank

Improving environmental protection

Crimes against the planet

Solutions – How to Fix

Bhutan is Carbon Negative

Technical advances to cope with climate change

Limits to growth was right – what we need to do now

Microgrids

Adaptations of tourism for a fragile planet

Reducing building energy footprints

Adaptation to climate change

Canada's energy future

Vertical solar and CoViD avoidance

Scrubbing carbon from the atmosphere

Industrial bioeconomy revolution

Re-imagining nuclear energy

Align Fossil Fuel Production with Paris Goals

District energy systems

Wellbeing for communities

Relational values and policy mixes for sustainability

Fast-spectrum SMR to combat climate change

Expected policies of electric vehicle markets

Sustainable cruise tourism

The perfect storm: Canada's future

A leap to an ecological economy

Science for public health & environmental law

Scaling climate action

Re-imagining nuclear energy

Buildings for a post-petroleum world

Dealing with adaptation deficit

Canada's role in the climate emergency

Climate change and the law

Cities and climate change

Treadmill of fossil fuel practices

Circular economies

The global water emergency

Investing in the era of climate change

Vehicle to grid integration

The energy transition

Money matters



Problems – What we Face

Water, Climate, & Health in a Warming World

Cruise Tourism

Global warming impacts and implications

Transdisciplinary science for a sustainable earth

Overpopulation

Investigative journalism and climate change

Scientists not doing anything about global warming

Civilizational overshoot

Populism; rebuilding the national conversation

Canada's population policy

Politics of the climate crisis

Freedom of outer space

EnviroCentre's green room

Abrupt climate system change

What's going on in Alberta

Climate change: We're screwed

Global reset & the future of hope

Alberta's struggle with the future

World3, 50 years later

Climate crisis deceptions

More powerful insecticides

Climate, farms, food, emissions, and solutions

Climate healers: food is climate

Green growth in Canada

Our existential crisis



Frameworks – New (and Old) Ways to Think about Things

Living the limits to growth The role of religion in climate change Indigenous perspectives on the environment Critical reasoning & mobilizing values Indigenous perspectives on the environment Entanglement of these times and the future Orchestral music & social change BioPhysical economics Avoiding extinction of humans Inequality and Genuine wealth Too clever by half Land use planning & climate change Re-imagining the purpose of an economy Henry George economics Wellbeing economy Earth's view of climate change Self-delusion New paradigm for social change



CACOR Talks Everyone Should Watch

(that this talk uses as foundational)

- https://canadiancor.com/dr-william-rees-onthe-virtues-of-self-delusion-or-maybe-not/
- https://canadiancor.com/too-clever-by-half-billrees-2021-05-12-cacor/



 What's necessary to avoid extinction of humans from failure to accept there are Limits to Growth https://canadiancor.com/david-korten-usa-cor-cacor-and-eu-cor-joint-meeting-10-dec-2020/



The End(s) of Civilization?

- 6th extinction
- Resource scarcity
- Nuclear arms race
- Global heating
- Global poisoning
- Food failure
- Pandemic diseases
- Uncontrolled technologies
- Overpopulation
- False beliefs

- Water issues
- Failure of MTI society
- Populism
- Ecological overshoot
- Loss of biodiversity
- Untenable inequality
- •
- (Unforeseen crisis)
- •

The Value Crisis

More is

<u>Always</u>

Worth More

Number-based values

Values that are measured quantitatively

Have the same properties as numbers:

```
Lineare.g. 7 is always greater than 3...
```

- Consistentfor everyone, everywhere...
- Limitless ...and you can always add 10 more.

"More is always worth more"

- · Loss of habitable environment
 - physical habitat removal
 - poisoning of environments
 - crowding out loss of diversity
- · Over-harvesting of resources

· Ignoring interconnectedness & species inter-reliance

- · Loss of habitable environment
 - physical habitat removal
 - · extract more resources faster than replaced
 - · more living and agricultural space
 - more people & costlier standard of living
 - poisoning of environments
 - crowding out loss of diversity
- · Over-harvesting of resources

More is
Always
Worth More

· Ignoring interconnectedness & species inter-reliance

- · Loss of habitable environment
 - physical habitat removal
 - · extract more resources faster than can be replaced
 - · more living and agricultural space
 - more people & costlier standard of living
 - poisoning of environments
 - · attempt better solutions than nature offers

More is

Always

Worth More

- produce more, faster, cheaper
- · burning massive amounts of fossil fuels
 - cheap and powerful energy -
- crowding out loss of diversity
- · Over-harvesting of resources
- · Ignoring interconnectedness & species inter-reliance

- · Loss of habitable environment
 - physical habitat removal
 - extract more resources faster than can be replaced
 - more living and agricultural space
 - more people & costlier standard of living
 - poisoning of environments
 - attempt better solutions than nature offers
 - produce more, faster, cheaper
 - burning massive amounts of fossil fuels
 - cheap and powerful energy
 - crowding out loss of diversity
 - · invasive species
 - · false efficiencies of monocultures
 - · ignoring external costs that don't impact profit
- Over-harvesting of resources
- Ignoring interconnectedness & species inter-reliance

More is Always Worth More

- · Loss of habitable environment
 - physical habitat removal
 - · extract more resources faster than can be replaced
 - · more living and agricultural space
 - more people & costlier standard of living
 - poisoning of environments
 - attempt better solutions than nature offers
 - produce more, faster, cheaper
 - burning massive amounts of fossil fuels
 - cheap and powerful energy
 - crowding out loss of diversity
 - · invasive species
 - · false efficiencies of monocultures
 - ignoring external costs that don't impact profit
- · Over-harvesting of resources
 - convert resources to cash
 - overpopulation
- · Ignoring interconnectedness & species inter-reliance

More is
Always
Worth More

COVID-19 Pandemic - Why?

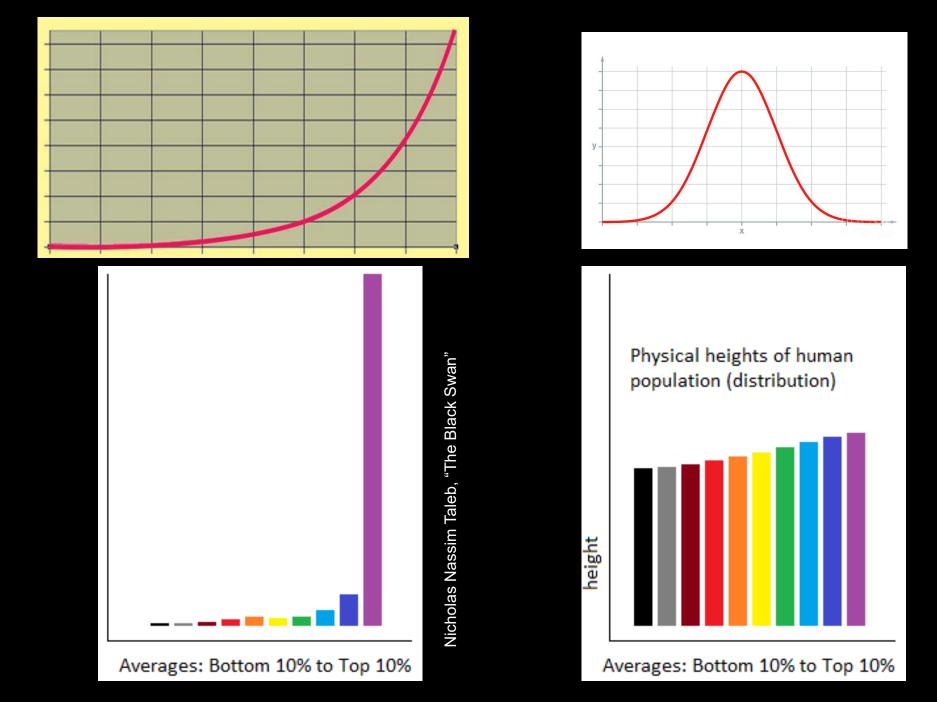
- · Millions crossing globe by air every day
- Crowded populations
- · No community resilience for essentials of life
- · Economic bailouts vs. humanitarian imperatives
- Cuts to healthcare, emergency planning, & social safety nets
- · Decisions based on economics over healthcare
- · Partisanship and leaders with zero credibility
- · Marginalization of essential workers

The Value Crisis

Allowing number-based values to consistently override all other values is our greatest failing.



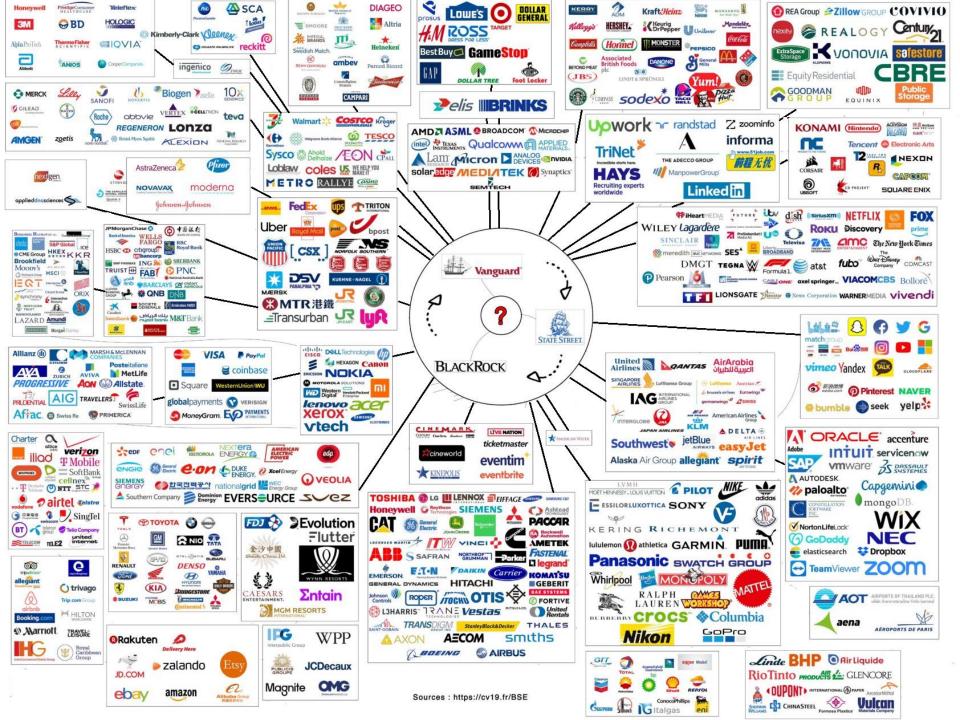
No Such Thing.





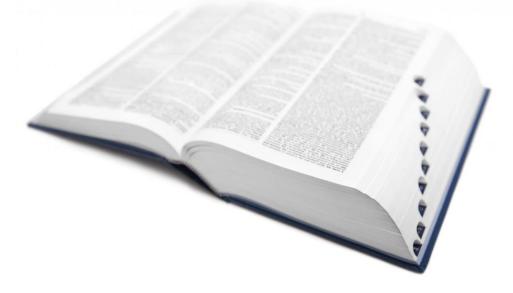
Fixed essential asset

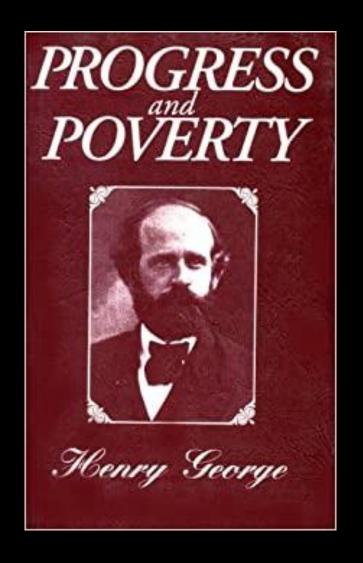
- + Income can buy more asset
 - = Exponential growth

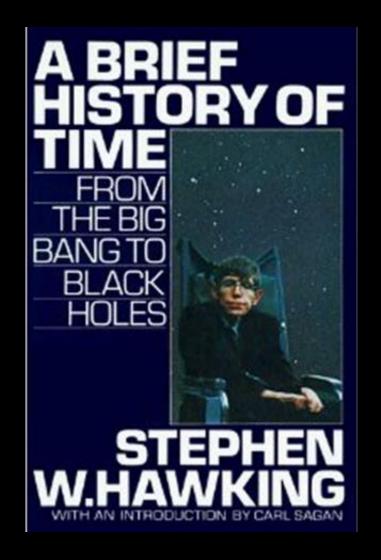


Economic rentier

A person whose income is mainly derived by what they <u>own</u>, not what they <u>do</u>.







1879 1988

Numbers

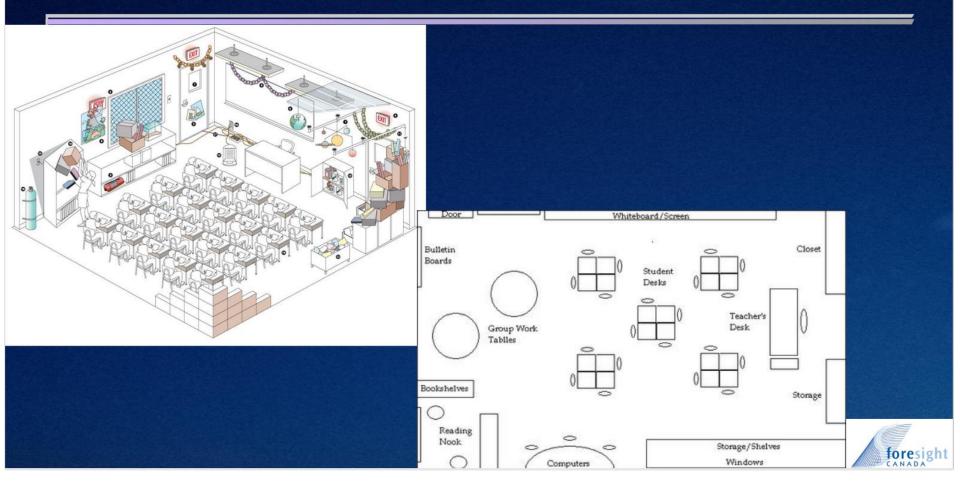
The <u>only</u> thing in existence that is limitless.

In a number-based value system, Efficiency is a positive feedback loop

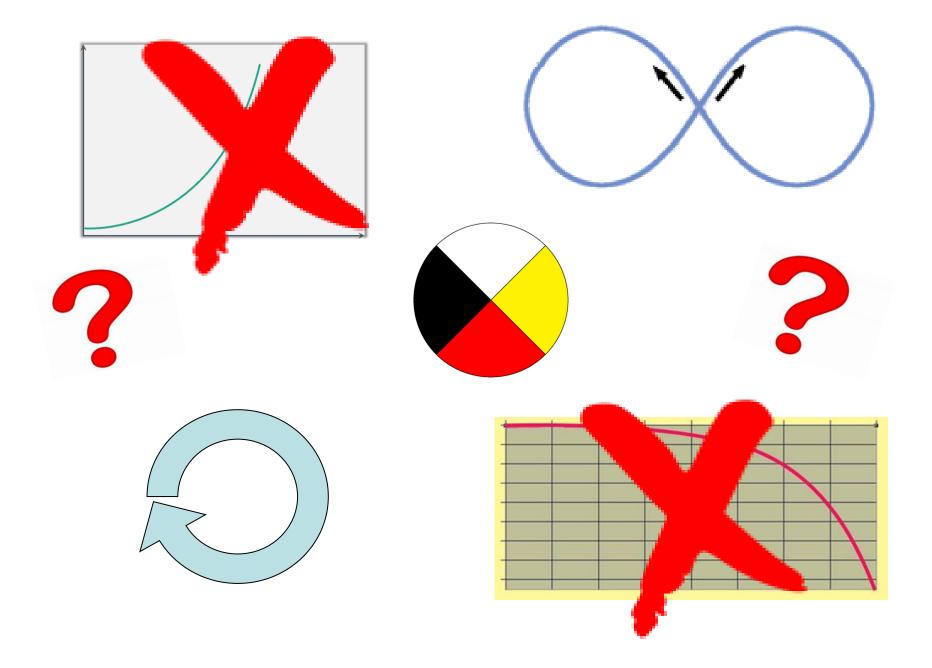
- · create more, not same in less time
- · inspires efficiencies in related products
- · focuses market on price, not quality

GNH = Gross National Happiness GPI = Genuine Progress Indicator Wellbeing Economic Policy

Consciousness Matters: Stuff as Embodied Consciousness



from Rubin Nelson's CACOR talk



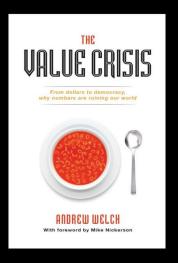
Qualitative / Human Values

- Respect
- Appreciation
- Sanctity
- Friendship
- Diversity
- Wellbeing
- Compassion
- Happiness
- Spirituality
- Physiological needs
- Environment
- Creativity
- Relationships

- Love
- Honour
- Awe
- Beauty
- Justice
- Culture
- Health
- Morality
- Wisdom
- Freedom
- Integrity
- Duty
- Fairness
- Faith

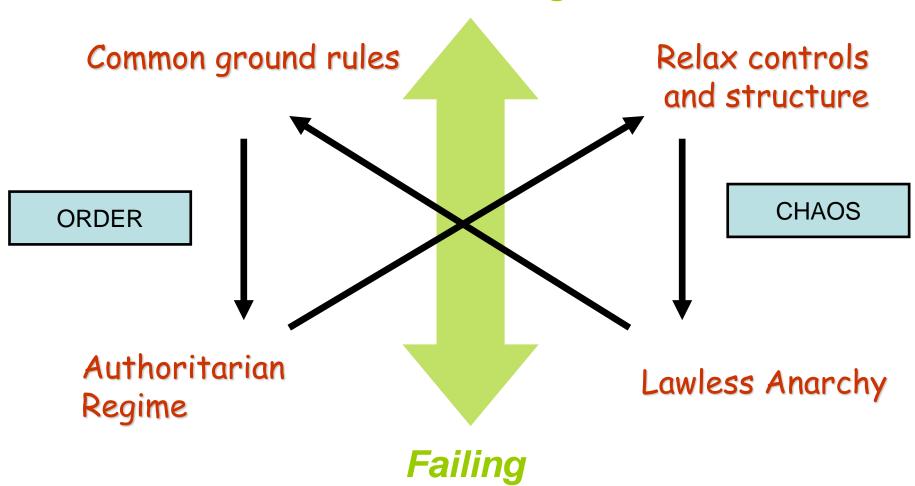
Number based Values

- Money
- Possessions
- Votes
- Likes
- Followers
- Utilitarianism

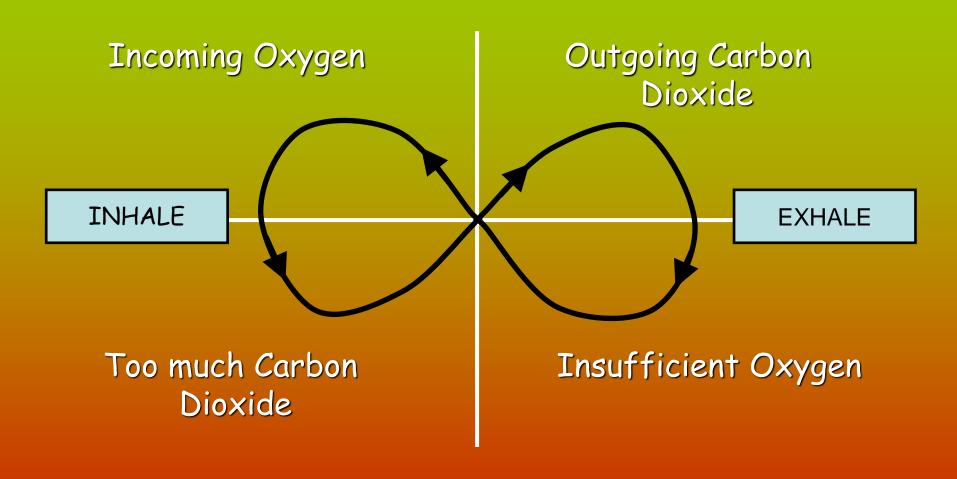


Freedom?

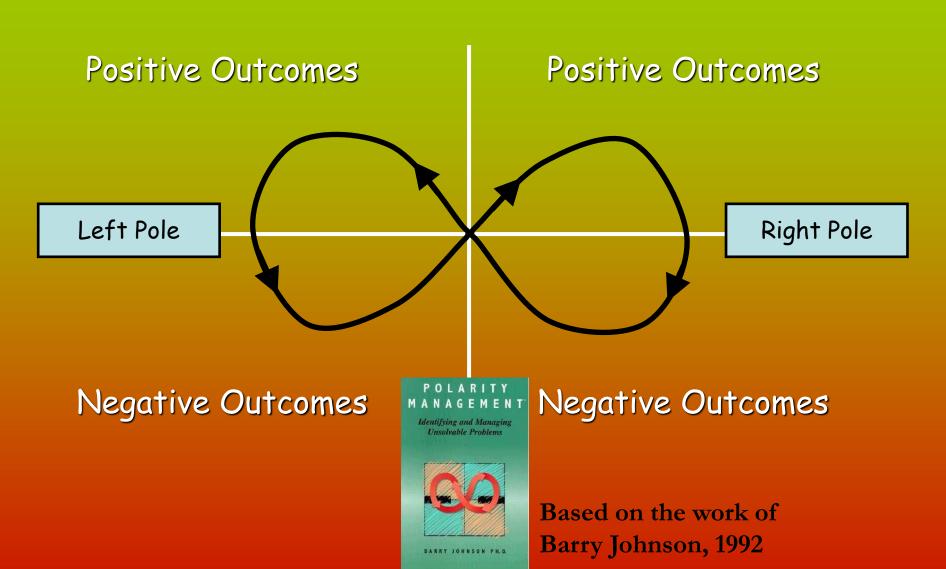
Succeeding



Breathing



Polarity Management

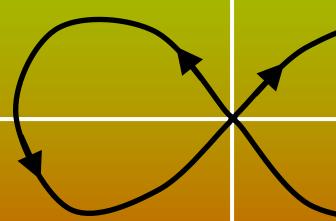


Forest

- · Rapid Growth
- Species Diversity

- · Slow Growth
- Species Dominance

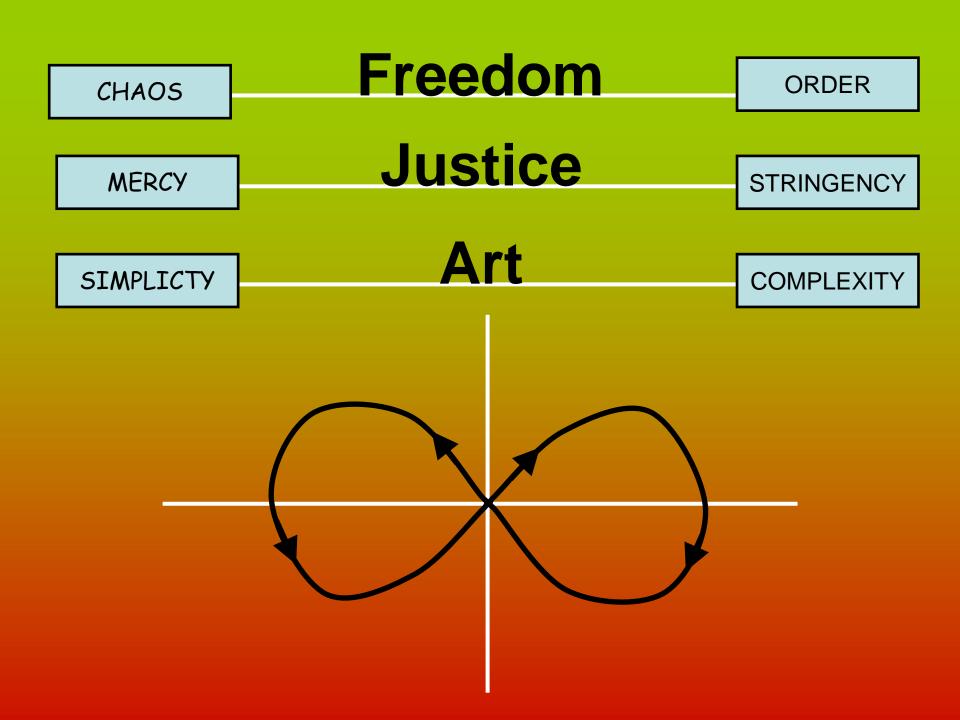


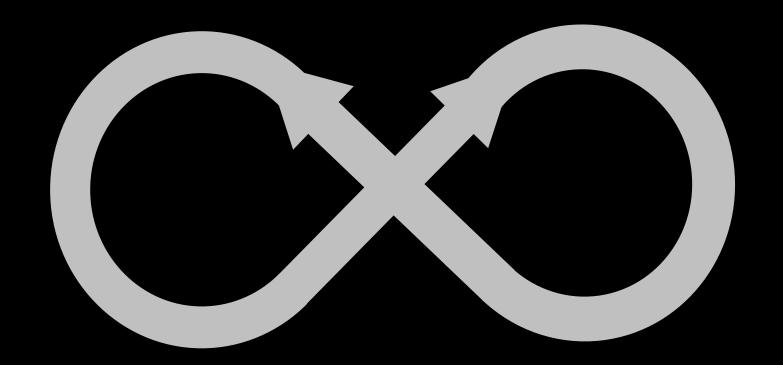




- Crowded
- · Inefficient
- Competitive

- Disease susceptibility
- · Fire hazard





- Our greatest challenges are polarities no one right answer
- Unidirectional strategies are doomed to fail
- Sufficiency must prevail
- Be prepared to eventually adopt opposing views
- Have to suffer the downside of A to enjoy the upside of B
- No such thing as More is <u>Always</u> Worth More

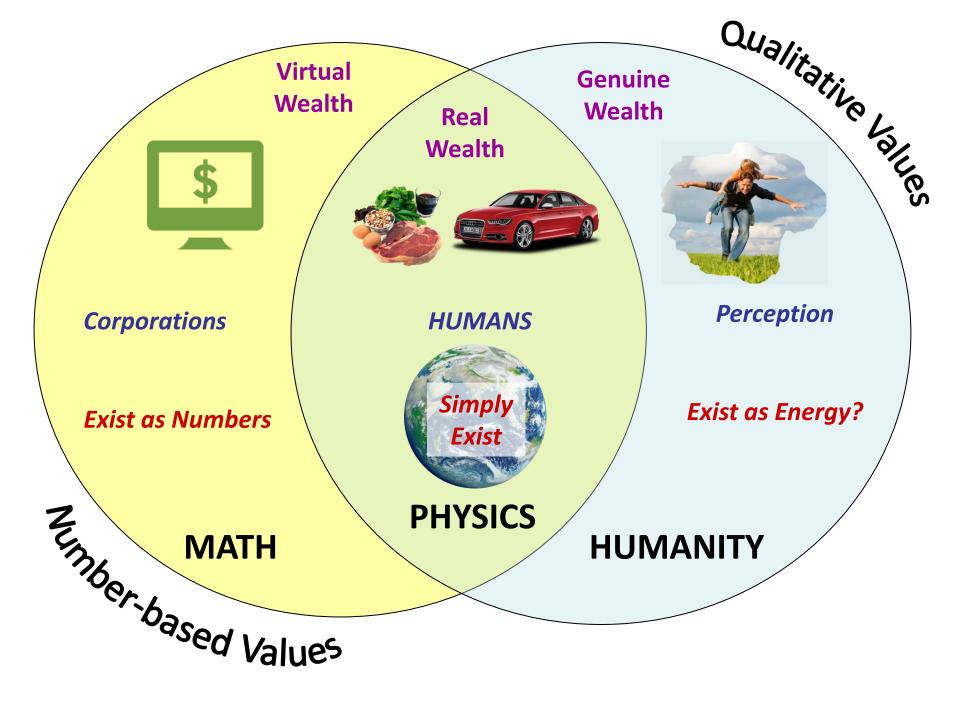
End of PART I - The Framework

Now to PART II – Applying It

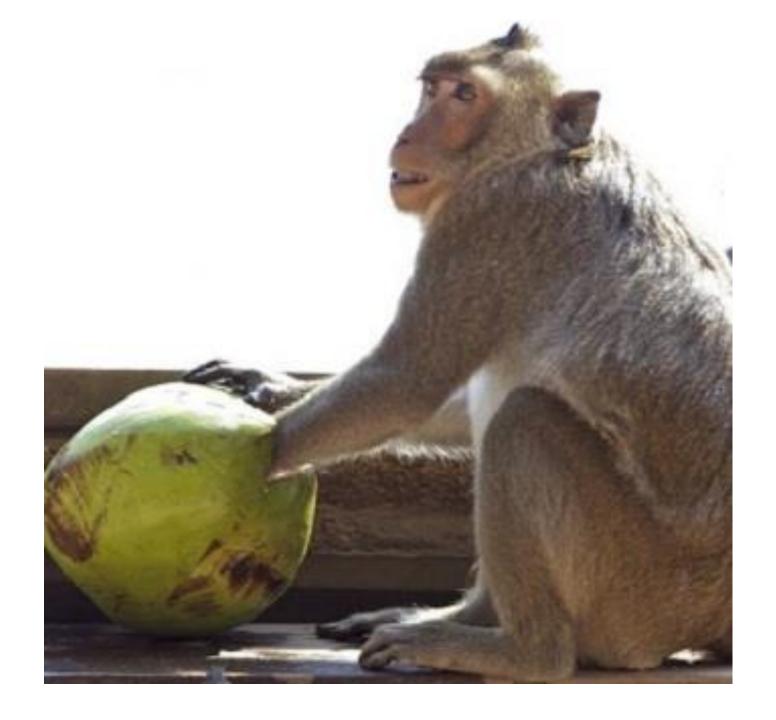
Drivers of our MTI Society

- Number-based value systems
- · Unable to accept any status quo
- · Urge to control (and beat) nature
- Explore for profit, not curiosity
- · Control conflict by superiority



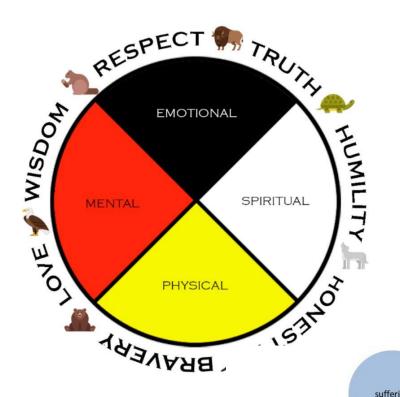








We'll have to let go, before it's too late.





Moreli

suffering

"The Middle Way" or "The Eightfold Path"

1. Right Understanding

2. Right Thought

non-suffering

3. Right Speech

4. Right Action

5. Right Livelihood

6. Right Effort

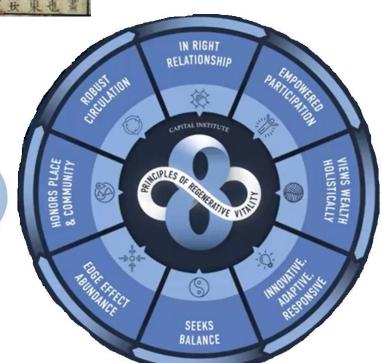
7. Right Mindfulness

8. Right Concentration

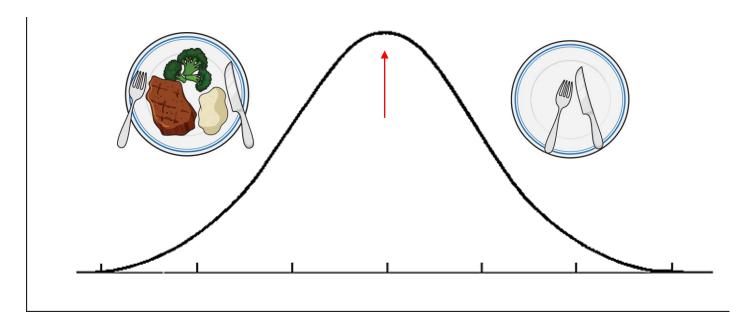
way to nonsuffering

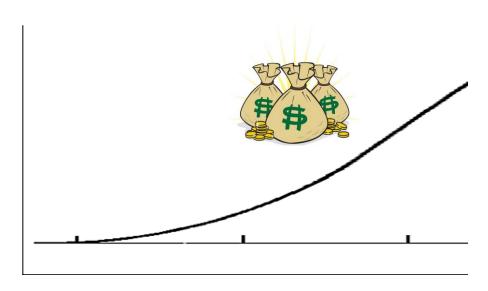
cause of suffering

- desire







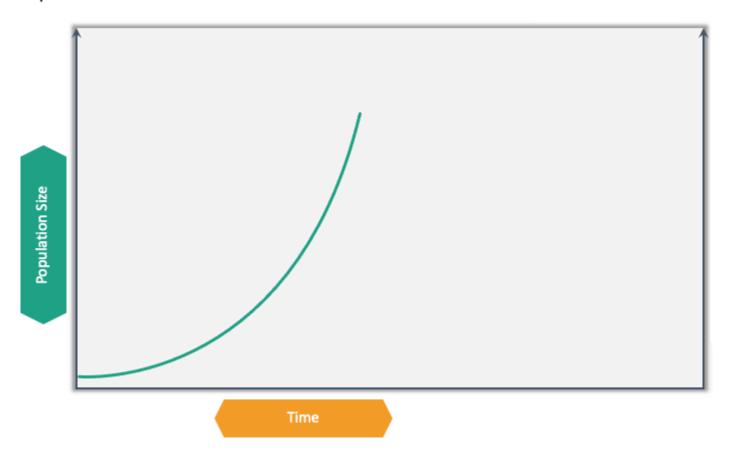


Ecological Overshoot

The deadliest negative feedback is a positive feedback loop!

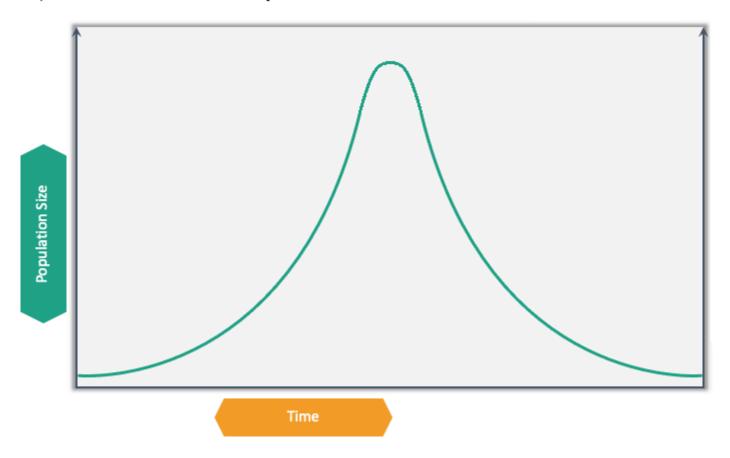
EXPONENTIAL CURVE

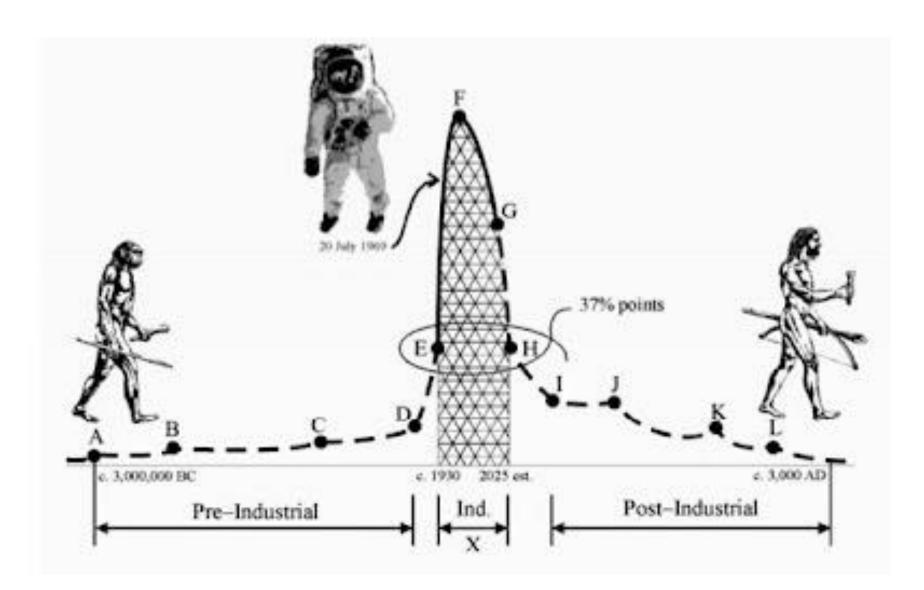
Exponential Growth



EXPONENTIAL PEAK

Exponential Growth and Collapse





Why, with the best will and intention to achieve "a better life" have we, modern humankind, managed to create a "predicament" which is almost precisely what we have been trying to avoid?

Until we know, recognize, and accept the answer to that question, we are not likely to find ways to redress the situation.

Why, with all the widely disseminated knowledge of the global "predicament" that we have, and have had for so long, has there been such little progress in establishing activities to reduce, then stop the deterioration, and to follow with measure to redress the global "predicament"?

Why no effective action?

- · Timelines are too long
- · Geographical separation
- Ignorance
- · Wired for stories, not data
- NIMPLEs
- Number-based values reprogramming
- · Intentional deflection and distortion
- Hopelessness
- Comfort in half-measures
- The Value Change Conundrum

The Value Change Conundrum

You won't change your value system until you see the benefits of the new value system, ...which you will only truly see when using the new value system.

"No problem can be solved from the same level of consciousness that created it."

- Albert Einstein

"No value crisis can be solved from the same value system that created it."

- Andrew Welch

Questions 7 & 8

from C.R. (Buzz) Nixon, 1994

- 7. How can values, attitudes and behaviour be changed if such change is indeed fundamental to redressing the predicament?
- 8. What are the specific values, attitudes and behaviour which must be changed?



Culture is Physically Encoded

"During individual development, sensory experiences and constructed cultural norms literally help shape the brain's synaptic circuitry in patterns that reflect and embed those experiences.

Subsequently, people seek out compatible experiences and, when faced with information that does not agree with their [preformed] internal structures, they deny, discredit, reinterpret or forget that information."

- Bruce E. Wexler (Brain and Culture, 2006)

"We have to acknowledge the imperative for deep change from the scale of a new civilization."

For example:

"The power-maximizing trans-national corporation is an illegitimate institution and must ultimately be eliminated."

- David Korten

"Why do we support disaster policy that is designed to serve the capitalist growth-based economy (treating the later as the solution to, instead of the cause of, the problem)?

Serious conservation, demand reduction, lifestyle changes, equitable distribution, etc. HAVE to be on the table!"

- Clive Spash

(summarized)

We at CACOR (and the Club of Rome itself) have been studying this for decades. Why are our own actions not more effective?



"Climate change is not a technological or political problem, as much as a crisis of consciousness."

- John Verdon

Can the Gordian knot be untied or the "Catch 22" syndrome be broken?

And if so, how can it occur?



How might this happen?





- Insufficient power & scope for required scale
- Feasibility versus relevance
- Trumped by money
- GPI etc. are not mainstream
- Time required exceeds term of office

How might this happen?

- The Value Change Conundrum
- Neural programming to numeric value bias
- Level of organization and focus required
- Power of opposing forces
- Time and education needed





How might this happen?



"Is there some combination of fear and hope sufficient to dissolve our culture-wide conspiracy of denial or

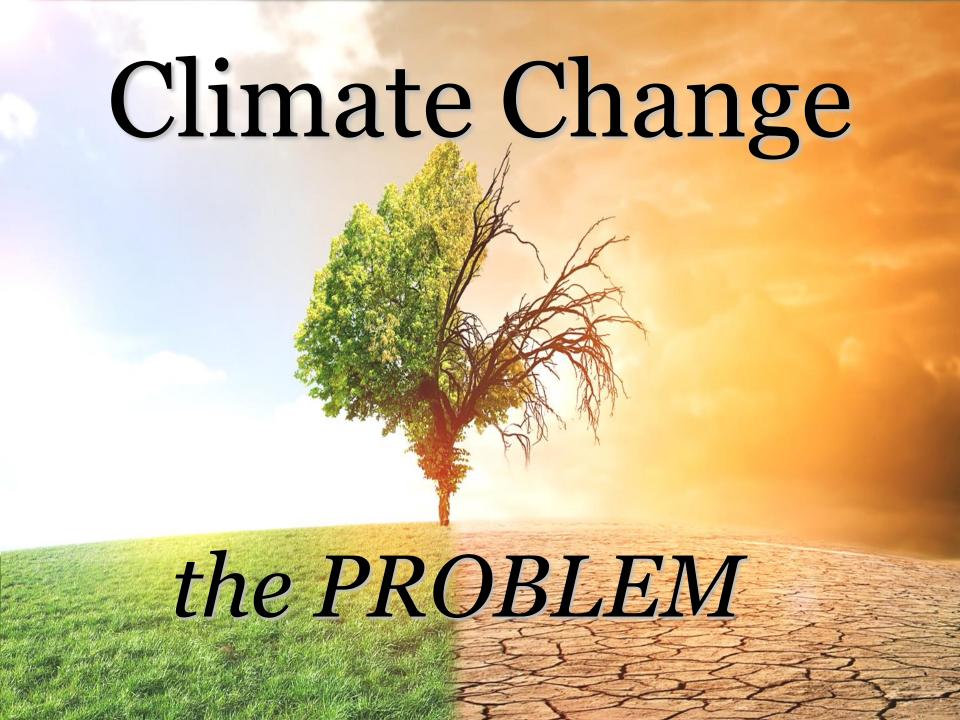
must we rely on some 'staggering ecological disaster' to wake a world of sleep-walkers?"

- Bill Rees

The End(s) of Civilization?

- 6th extinction
- Resource scarcity
- Nuclear arms race
- Global heating
- Global poisoning
- Food failure
- Pandemic diseases
- Uncontrolled technologies
- Overpopulation
- False beliefs

- Water issues
- Failure of MTI society
- Populism
- Ecological overshoot
- Loss of biodiversity
- Untenable inequality
- •
- (Unforeseen crisis)
- •





Is a staggering ecological disaster really what we need in order to take effective action?

Assuming that's true, would that even work?

Good News and Bad News

- Brain wiring
- · Corporations & financial wealth
- Different ways of living
- · Us versus Them

A Revised Goal Proposal

To instil a better value balance in the next generation.

Why this goal?

- Timelines are too long
 - Ignorance
- · Wired for stories, not data
 - NIMPLEs
 - Number-based values reprogramming
 - Intentional deflection and distortion
 - Hopelessness
 - Comfort in half-measures
 - Value Change Conundrum

- Prepared for the long haul
- Education
- Teach with stories
- In perceived lifespan
- Number-based values de-escalated
- Defence against intentional deflection and distortion
- Hope
- · Full-measures not needed
- Start with qualitative values

Instil a better value balance in the next generation.

How do we achieve this goal?

- · Continue working on solutions
- · Focus on the next generation
- · Demonstrate non-numeric values
- Experience (and share) the joy of the non-numeric values
- · Support a Guaranteed Basic Income

Instil a better value balance in the next generation.

Topics for My Next CACOR Talk

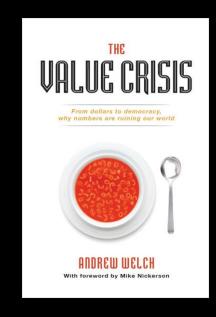
(Solutions with proven track records)

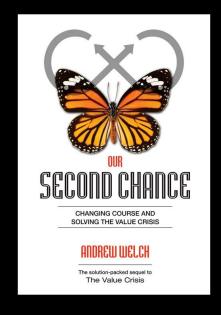
- Creating a <u>Qualitative economy</u> WITHIN our status quo one
- · Understanding our individual <u>value personae</u>
- · Wikiocracy the next evolution of democracy
- · Superiority of the parable and stories Why
- · Female leaders WHY it makes a difference
- A monetary system that fits nature
- Understanding difference between eco-responsibility and value shift



Thanks for watching!

- Andrew Welch





see lots more at TheValueCrisis.com