

# Climate Crisis Blueprint

Discover the small and very achievable steps to achieve **the four leaps to reverse Climate Change**:

1. **Unite and mobilise CITIZENS**, locally and globally
2. **Unite the mobilise CLIMATE SCIENTISTS** globally
3. **Unite and mobilise POLITICIANS**, locally and globally
4. **Use Smart thinking to find, fund and implement 'Big Idea' solutions**

*Written by...*

**Us**

(A small team of Global Citizens from Australia)

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## INTRODUCTION

Two months ago, we were disengaged middle ground citizens. Swinging voters who didn't have much of a view on Climate Change. **We now believe it could well be a Climate Crisis.** We believe there's an urgent need to mobilise Citizens, Politicians and Climate Scientists around a Blueprint Process to take the steps down the path to assess the situation and develop meaningful plans to ensure we avoid the Sixth Extinction.

We need to do this in a way that hope and optimism triumphs over apathy.

We believe a little fear is needed to get things moving but we also believe **if we take action NOW we can put this Climate Crisis fire out with fire extinguishers before it becomes a run away fire that needs fire trucks.**

**We need a BIGGER, FASTER approach** compared to the last decades when groups of concerned citizens have tried to set off the alarm about Climate Change. **We believe it's time for a series of rolling '5 Minute Friday Strikes'.**

**To reverse Climate Change we believe it'll take just four leaps:**

1. **Mobilise Citizens** to take 5 minute strike actions to create awareness to get Scientists and Politicians to act.
2. **Unite the Global Climate Scientists** to help prioritise actions
3. **Get the Politicians** and experts to craft new plans and policies
4. **Use 'Smart Thinking' to find and implement 'Big Idea' solutions**

Each of the four leaps has its own mini-blueprint. Small achievable steps to achieve its leap. We can reverse Climate Change if we implement the solutions. Some of the top 100 Climate solutions are outlined at Drawdown.org

Australia and the wider world is at the dawning of a very exciting age. To ensure that future we need inspiring leadership, we need to focus on one of Australia's core assets: the wisdom and scientific excellence that grew out of what was one of the world's leading education systems.

In 2001 we didn't fully capitalise on Barry Jone's Knowledge Nation agenda, we need to make sure we join other nations not to miss the bus.

## KEY STRATEGY RECOMMENDATION

Climate Change agendas are running globally.

The problem is they are fragmented, framed in paradigms, thwarted by self-interest lobbying and divisive politics. With perhaps the exception of the very recent '**School Strike for Climate**' movement started by Greta Thunberg. This movement was recently endorsed by the UN Secretary General, Antonio Guterres and a community of leading Climate Scientists.

The next Australian Federal Government and European Parliament is well placed to seed the activity that can then be scaled on the world stage. Our Federal Election on May 18<sup>th</sup> is followed by the Europe's from May 23-28<sup>th</sup>.

It's time for these new Parliaments to respond as if it were a crisis. To put divisive politics behind as if we were at war. But we are not at war, in fact we need to stop waging war on Mother Earth and help her regenerate.

The world can use Australia, New Zealand and Europe as the test bed, the sandbox where we use agile techniques to find promising solutions, from finance and policy, to research and innovation, and then SCALE them.

**It is a global world we need global solutions.** In Australia we need to set an example, but what we do with CO2 emissions won't impact the global levels much. **We need Policies that focus our impact on inspiring the world.**

If we only focus on implementing 'run of the mill' locally focussed policies here in Australia, we have no effective impact on a global problem.

Australia's new government needs to show leadership and seed fund the framework so we can then tap into global funding - both Government and Private.

We hope the rest of the world will join the efforts as they recognise it's possible to create a Blueprint and solve the big issues. This document is like a rough lump of clay that needs to be shaped by the experts into a roadmap that the world can follow to reverse Climate Change and in the process fast track our entry into the Fourth Phase of the Industrial Revolution.

There are many pools of finance for this global issue once we establish a decent Action Plan Framework (AFP):

- Federal, State and Local Government funding of Innovation.
- Federal Economic Development Aid Funding
- Philanthropy
- Superannuation
- Private Equity
- Crowdfunding.

If we get the early stages right, the International community will recognise the Blueprint is delivering very cost-effective outcomes, and want to provide funds to feed this project further.

The European Commission alone have recently set aside Euro 100 Billion with its Horizon Europe Research & Development fund for 2021-2027. This succeeds the Horizon 2020 programme with Euro 80 Billion from 2014-2020.

There is still plenty of money available for the next 18 months. For example, on April 24<sup>th</sup> they announced they will 'soon launch a tender for an open access publishing platform'. Let's make sure we don't end up with another bureaucratic solution no-one wants to use. We need new economy solutions with good UX design.

We are optimistic that funding like this can be used to develop powerful platforms that empower and enable the purpose to not only reverse Climate Change but to tackle many of the other complex issues that face communities around the planet.

Clearly this funding won't go to the Australian Government, but it can go to projects that we have a role in helping design.

While the **'Climate Crisis Blueprint'** process could roll out through Philanthropy and Private funding, it makes much sense if we can break through the mindsets and bureaucracies and do it at a united global Government level.

We believe it's crucial to develop big picture global frameworks. We also believe that the processes we apply to the issue of reversing Climate Change can be and should be applied to other complex issues facing the planet.

Australia, New Zealand and Europe are well-placed to be part of the 'brains trust' architecture team for a global push. But the sooner we can bring on countries like China and USA that are very well advanced, the better.

Similarly, we can be the 'prototyping bed' to coordinate the scale up of the key opportunities to reverse Climate Change and create Wealth from

- **Advancing academic review of the vast bed of knowledge** already sitting in the public domain
- **Advancing education skills and research to explore with scientific rigour the key targeted opportunities** from Ecosystems Dynamics, People and Culture, Innovation, Humanitarian Effectiveness, Climate Dynamics, Renewable Energy, Energy Storage, Ecosystems dynamics, Climate Dynamics, Regenerative Agriculture, Regenerative Aquaculture, Information Management, Blockchain and Value Creation rewards, and Transport and Logistics
- **Advancing Commercial Scale up through Innovation**, Entrepreneurship and an effective bridge between Research and Commercialisation. Australia already has one of the most effective frameworks in place. Our CRCs- Co-operative Research Centres. We just need to breathe new life into it
- **Advancing Fairness** – mindsets of empathy, compassion tolerance, diversity

That last one would be a good theme for a National Anthem hey?

(For non-Aussies, Our national anthem is 'Advance Australia Fair')

That's the point. At a grassroots level Australia, New Zealand and parts of Europe have the right cultural mindset to pull this off. We understand the benefits that multiculturalism can deliver, we have a really strong education base, we understand mateship and unity, we are champions of fairness and the underdog and we have amazing kids.

We just need to let them shine. We need to empower and inspire them to be the change. To be the movers and shakers that lead the world. The Global Citizens that understand we are one planet and create an environment of trust, harmony and co-operation as the planet moves out of the era of divisiveness, self-interest and fighting.

Australians, **Let's Advance Australia Fair and inspire the world to do the same.**

Global Citizens, **Let's listen to and empower our youth to create a Better World** and in 2020 let's help the world see a future of hope and abundance with clarity, ...with 2020 Vision.

Because once we have a vision and inspiration, amazing things can happen.

## **2020 VISION**

The EC called their current research and development programme Horizon 2020. We are calling ours 2020 Vision. Our hope is that people like you reading this Blueprint will come on board to create that Vision of a Better World for future global citizens.

**We want to start next year (2020) with a game plan that helps Billions on this planet we share, see with clarity (with 2020 Vision), the future that awaits.**

Because when you can see a future of hope, it's much easier to be inspired and set your compass to get to that destination on as short a path as possible.

We believe the key to this is inspiring the masses, tapping into their skills, ideas and energy and giving them the systems, resources and platforms to transform the world.....and at the same time reverse Climate Change.

**Go Team Australia. Go Team New Zealand. Go Team Europe.**

**Let's overcome apathy and take action.**



## THE FOUR LEAPS TO REVERSE CLIMATE CHANGE

1. **Unite and mobilise CITIZENS**, locally and globally
2. **Unite the mobilise CLIMATE SCIENTISTS** globally
3. **Unite and mobilise POLITICIANS**, locally and globally
4. **Use Smart thinking to find, fund and implement 'Big Idea' solutions**

## THE SMALL STEPS TO TAKE EACH LEAP

### 1. Citizens

- a) Understand why humans respond to some threats and not others.
- b) Understand that fear is healthy, hope is powerful and apathy is dangerous in a fire situation.
- c) Investigate and Understand the issues (we make that very easy).
- d) Decide whether you think it is a Climate Change Crisis
- e) If so, Sign the Petition and stay calm
- f) Take action. Spread the word. Take rolling 5 min. Friday Strike Actions
- g) Self-organise in the 2020forums to create a Citizen Think Thank of volunteer muscle and brain power to support the politicians, scientists and engineers to find and implement solutions

### 2. Climate Scientists

- a) Sign the petition [www.climatestrikescientists.com](http://www.climatestrikescientists.com)
- b) Structure and Create an online Forum with sections: Issues and Opportunities
- c) Create consensus documents in simple language. "Climate Change – The Scientists consensus" 'Climate Change – Recommended solutions'
- d) Spread the word. Get the Climate Scientist community to join – both evangelists and sceptics. We need a scientific peer review process
- e) Develop priorities that Citizens, Politicians and Consultants can cost and implement

### **3. Politicians**

- a)** Read and Understand the 'Strike The Alarm' 'Climate Crisis Blueprint' and '2020 Vision Manifesto' documents
- b)** Sign the petition [www.politicians4climate.com](http://www.politicians4climate.com)
- c)** Lobby your party and government to support the Blueprint and Manifesto and fund the first stages
- d)** Inspire the Citizens and take actions not just talk

### **4. Use Smart thinking to find and implement 'Big Idea' solutions**

- a)** Review the 'prototype' Action Plan Framework (AFP)
- b)** Build a team of management consultants to apply agile project management and other processes to drive fast, cost effective processes to breakdown bureaucracy, on board the government and public service and get fast results that fuel confidence and further funding
- c)** Use an 'Ecosystems Design Thinking' methodology to determine and then implement policies, plans and actions

## **INNOVATIVE SOLUTIONS – THE DRAWDOWN RESEARCH FINDINGS**

Here's a flavour of some innovative solutions.

Four years ago, a small NGO in California called **Project Drawdown** was founded by Paul Hawken to scientifically determine whether Climate Change could be reversed and if so, what were the best opportunities.

They recruited a Think Tank of over 200 some of the best research scientists, advisers and peer-review 'devils advocates'.

After rigorous scientific research and analysis the news was good.

**They found it is possible to reverse Climate Change.**

They also identified a Top 100 hit list of opportunities.

Let's take the work done by Paul Hawken and his team of volunteers as a starting point and start implementing solutions.

**The top 100 list can be found on their website [www.drawdown.org](http://www.drawdown.org)**

But here's a summary of some of the most interesting findings.

## **Food Systems**

The Number sector solution was our Food System. We believe we need to work to use **‘Ecosystems Design Thinking’** to create an effective Food Ecosystem from farm to fork. We can minimise food waste and energy usage by maximising efficiencies. We can maximise productivity by moving away from extractive monoculture that creates the dustbowls and start developing syntropic farming (growing rainforests) and other ecosystem farming techniques to both increase food productivity but also bring more carbon dioxide down from the atmosphere and convert it to land based carbon. We already have syntropic farms near Byron Bay and other locations. They just need support and a program to scale.

Our Appendix has a vision document that we developed after applying our Ecosystems Design Thinking methodologies to fundamentally re-architecture our current food chain taking advantage of disruptive technologies. We don’t need to have a fully deployed Electrical Vehicle Network (EVN) Logistics system to start the work. Our current fossil fuel logistics infrastructure can work well, but we need to quickly and smoothly transition as the EVN comes on board.

## **Aquaculture, Seaweed and Farm animals**

This is one of our favourites. Just because it’s so interesting cool and seems achievable. Methane from farting farm animals globally is a big deal. Methane is a very powerful greenhouse gas (and was responsible for the worst historical extinction when 96% of all species were wiped from Global Warming).

Beef and Dairy cattle in particular have inefficient gut systems. So when they convert the Carbon in grass and other feeds in their stomachs, rather than producing carbon dioxide they absorb rather than produce methane.

**Drawdown’s** research uncovered a Queensland scientific study and a study in Canada where a farmer found that his cows that walked onto the beach were eating a certain seaweed and they had significant increases in milk output.

Studies showed that this seaweed improved their digestive system resulting in less methane and more milk. Research has been demonstrating this seaweed can be commercial farmed, harvested and converted to a protein rich animal feed supplement that works.

The Liberal Federal Government recently announced funding for a CRC for the Blue Economy in Tasmania who would be perfectly positioned to take these findings to commercialisation.

The cool thing – seaweed farming can absorb huge amounts of carbon dioxide if done on scale. The market opportunity is there. The science is there. It just needs more Government support.

Australia and New Zealand are both big producers of Beef and Dairy products.

Compared to other countries, we don't emit much Carbon dioxide due to our small population, we do however emit a lot of methane. We need to sort out how to reduce this asap before the economic market driven push to veganism and vegetarianism impacts our farmer's livelihoods.

## **Refrigerant Gas Management**

**Drawdown** found the number one issue was the impact that HFCs and other man-made refrigerants we use in the world's air conditioners and refrigerators. These gases are up to 8000 times more powerful greenhouse gases than carbon dioxide. In the recent past we have already demonstrated how well the world can unite when we discovered that we had created a hole in the ozone layer, which was allowing UV radiation to hit the planet's surface. We confirmed the problem was CFCs in refrigerators. We banned CFCs and mother nature was allowed to heal and close the holes.

The problem is our replacement solution (the HFCs) made the greenhouse effect worse. There are alternatives, we just need to develop them further and organise a changeover and implement systems to decommission old systems so the gas is not disposed to the atmosphere.

## **Empowering Young Women and Family Planning**

These came in as numbers 5 and 6. If combined they came in ahead of Refrigerant Gas Management. You see in some countries, young women average 7 children. They have found if you provide education, they stay in school longer and have less children and are of more economic and social benefit to the wider community.

One of the big problems is in developing nations many young girls leave school when they hit puberty because the schools don't have toilets and they don't have enough access to sanitary pads. Incidentally a small Australian non-profit is achieving great results with their program 'operation toilet'.

Disgraceful isn't it, that we haven't solved that problem. Now that we scientifically know it's impacting Climate Change maybe it will get the attention it should have received regardless.

### **These Drawdown solutions are just the tip of the iceberg.**

They just go to show that the proposed policies of The Greens, Labor and Liberals don't solve the Climate Crisis. We BADLY need policies that do.

**We believe there's an even bigger opportunity:**

#### **A Global Government Infrastructure Project**

Fasttracking the build of a new economy infrastructure platform of the :

- Internet of Things (sensors /big data)
- Internet of Energy (networked solar and wind)
- Internet of Mobility (networked logistics)

## It's Time For Action

It's time for citizens to step up and be the brains and voices that find these possible solutions and demand a better political system that fosters disruptive thinking and the finding of good solutions through innovation.

If you'd like to see action, then take action. Let's make Australia, New Zealand and Europe the inspiration for the world. Let's inspire, provide purpose and give hope to our youth.

If you haven't yet Sign our petition demanding more effective solutions from our political leaders.

## Vote4Better.org

We then ask you to please join us and **Spread The Word.**

Greta has started a strike movement 'FridaysForFuture'

We urge not only school children, but the wider population to **take a 5 minute strike each Friday at 11am, and stop what you're doing and take a selfie photo holding a sign and post it to your Socials.**

Let's be part of creating a global movement of people not only striking for reversing Climate Change but voting for Better Politics, Better Policies and Better Solutions.

Let's keep the strike going until such time as our Governments are fully on board.

# GLOBAL GOVERNMENT INFRASTRUCTURE PROJECT

## Introduction

Traditionally Governments are responsible for rolling out Infrastructure projects that become the foundation for the economy.

Roads, Rail, Public Transport, Electricity, Gas, Water, Waste water, Telecommunications

Recently in Australia the National Broadband Network (NBN) was rolled out at a cost of over \$50 Billion.

Some governments maintain these as fully government owned and operated infrastructure as Australia did last century. Many privatise parts of these infrastructure platforms. Each year vast sums of money are spent to maintain and expand this crucial infrastructure because it's recognised they are essential platforms for all stakeholders including Business to thrive.

## These infrastructure cost Trillions to build

**There's a new very powerful Infrastructure project ....and it will only cost Millions not Billions to build.**

It can be a profit centre of tax/excise revenue, rather than cost centre to maintain.

We need the rollout of this infrastructure project to be a high priority. It's an opportunity for a global endeavour, for an 'alliance of the willing' based on a new style of less extractive Capitalism.

We call it 'Ecolutionism' as its based on regenerative Ecosystem and Evolution dynamics. There's plenty of self-benefit for stakeholders to drive things forward, it's just not only driven by non-sustainable self-benefit.

**Australia, New Zealand and Europe are well placed to lead.**



The Internet is a software layer that sits on top of the physical internet infrastructure of the cables and switches.

As the Internet was evolved some additional 'layers' were added. Some were developed by altruists who believed that the Internet should be 'on the commons' and be available for free for the Common Good. (eg Wikipedia and Open source software like blockchain).

Others saw opportunities to develop 'layers' that were platforms that made the innovators extraordinarily wealthy (Google, Facebook, eBay and Amazon)

There's a new Infrastructure layer that is emerging that runs the risk of ending up benefitting innovators, rather than where we believe it should be on the commons generating revenue for the Governments to help fund the Budgets.

Given that the fossil fuel industry will soon be retired and the fuel excise income lost, we favour the Government(s) benefitting.

Jeremy Rifkin and others like Tony Seba, explain that there are three main parts to this new infrastructure:

- The 'Internet of Things' (Big Data – networks of sensors/switches)
- The 'Internet of Energy' (Renewable Solar and Wind Energy)
- The 'Internet of Mobility' (Transport and Logistics)

They point out that each phase of the Industrial revolution was when there were significant advances of technologies, and consequent reductions in cost involving:

- Communications / Information
- Energy
- Mobility

When these advances converged there was dramatic, fast and truly disruptive change. Disruption that fundamentally changed the rules of engagement for the economy.

**These were phases of the Industrial Revolution.**

**First Phase (1760 -1820)** - Telegraph, Steam & Gas, Steam Engines/ Trains

**Second Phase (1900s)** – Telephone, Electricity & Petrol, Cars etc.

Here's what happened in just 13 years when the Fossil Fuel Era and our thirst for automobiles, planes and other transport began.

**Easter morning 1900: 5<sup>th</sup> Ave, New York City. Spot the automobile.**



Source: US National Archives.

## Easter morning 1913: 5<sup>th</sup> Ave, New York City. Spot the horse.



Source: George Grantham Bain Collection.

We are now at the dawning of a similar disruption.

It's already underway where Jeremy Rifkin has been working with the willing. With the leaders of China and Germany and with captains of key industries to rollout the Fourth Phase of the Industrial Revolution, what we call "**The Ecosystems Revolution**":

- **The Internet of Things** (the data gatherers that enable us to measure and design more efficient organizations. Enabling us to work smart and create more value with less financial and human resources.)
- **The Internet of Energy** (our data network that connects our energy producers and consumers from power stations to renewable rooftop solar and wind energy that can now put energy into battery storage and the grid.)

- **The Internet of Mobility** (the data network of transport and logistics)

There are massive opportunities for Government to be involved in the build of these infrastructure layers. There is huge value to be created and using blockchain and other technologies it will be possible for the Government to generate revenue from these networks.

The really cool thing is, these are very thin and inexpensive layers of technology that will be placed upon the expensive infrastructure that already exists: the NBN (National Broadband Network), Road, Rail, Electricity and Gas Distribution.

Rather than leave this to extractive capitalists like Uber to seize the opportunities with new-economy logistics systems, we believe it is crucial for the integrity of the systems, that they belong with Government.

It's a bonus that this should also enable Government to lower taxes if they get their share of the vast revenue opportunities from the even larger efficiencies these Infrastructure will create.

## 2020 INFRASTRUCTURE VISION

Rather than think of it as three Internets like Rifkin, we prefer to think of this infrastructure layer as one. **The Internet of Sharing**

We propose developing a global platform using blockchain and other technologies to create a system that enables Shared Value Creation and in turn shares the revenue with the stakeholders. We suggest a working name for the project -ShaareIT

This would be an integrated software platform layer built on top of the Internet that would combine The Internet of Things, Energy and Mobility but would extend further.

It would allow a shared economy where people could book an electrical vehicle they own into a 'Public Transport and Logistics' Network for others to use and they would receive revenue when it was used.

It would be powered by Artificial Intelligence and the data from The Internet of things, almost free energy from renewables and lower cost battery storage technologies and an end to end logistics system with driverless electric vehicles and hydrogen fuelled aircraft.

It would be possible (as is already the case in some supply chains) to scan a QR code on a packet of chips and track its physical journey from the potato leaving the ground and its food safety journey including temperatures.

This could be applied to any asset whether an electric car, refrigerated van or a bed and breakfast room.

We could choose to:

- own assets and keep them for ourselves
- share them and earn revenue
- pay to use other people's assets

In the appendix we provide an example of how Australia's Agriculture and Food ecosystem might look like on this software platform.

## **DRAFT ACTION PLAN FRAMEWORK**

### **to develop 2020Vision deployment in 2020**

This is not an exhaustive blueprint, but rather gives the flavour of a recommendation for the scope for remainder of calendar year 2019

#### **1. Australian Election Launch**

- a) May 14<sup>th</sup> Soft Launch to assemble and activate Citizens, Climate Scientists and Politicians using the 'Be an Alarm' strike methodology to get friends and family to Vote4Better and become Alarms
- b) May 16<sup>th</sup> email out of 'Be an Alarm', 'Climate Crisis Blueprint' and '2020 Vision Manifesto' to all candidates at the Australian Federal Election
- c) May 17<sup>th</sup> first of rolling 5 minute strikes coordinate their action plans to get some scale and build a volunteer base
- d) May 18<sup>th</sup> hand out leaflets at the Australian Election Polling Booths
- e) Continue rolling 5 min strikes each Friday at 11am until announcement by Prime Ministers of in principle support to investigate the Climate Crisis Blueprint and 2020 Vision Manifesto

#### **2. New Zealand and European Launch**

- a) Get the 'Strike The Alarm' and Climate Crisis Blueprint documents to leading mavens (people of influence) such as Greta Thunberg and Antonio Guterres
- b) Get a 'Strike The Alarm' campaign of emails and 5 minute Strike selfie photos to hit a tipping point globally
- c) Get copies of the three documents to New Zealand and European Politicians ('Strike The Alarm', 'Climate Crisis Blueprint' and 2020 Vision Manifesto

### **3. External Consultants Government Briefing**

- a) Assemble external consulting team including Paul Hawken from Drawdown.org
- b) Government Briefings and stage 1 plan development
- c) Prepare Communications brief for public and 2020Teams
- d) Set initial scope and budgets
- e) Define work methodologies and ways to side step bureaucracies but fully engage the public service and political actors

### **4. Develop Base Platform for the Action Plan Framework (AFP)**

- a) **Launch Forums:** 2020Citizens, 2020Scientists, 2020Politicians
- b) **Launch wiki2020:** The knowledgebase and collaboration platform for Climate Crisis Blueprint and wider 2020Vision platform
- c) **Launch 2020Survey:** the 2020 Think Tank Survey platform for feedback from the general public
- d) **Launch 2020Volunteers:** the volunteer and probono resourcing resourcing platform by skillset and interests
- e) **Form working parties** and elect leads
- f) **Launch training systems** for 'Ecosystems Design Thinking' and 'Agile Management' for people, business and government
- g) **Form working parties** and elect leads



## 5. Stage 1 2020 Citizens

- a) Build base of general public
- b) Organise Volunteers by skill base and interest to act as self managing teams to carry out support activities such as aggregate and characterise existing wisdoms and learnings
- c) Identify synergistic actors and potential strategic alliances
- d) Issue 2020 Vision Manifestos from various Citizen groups/demographics (this will help leverage the power of diversity and different lenses/views to assist ideation)
- e) Create Citizen Think Tanks for each identified funded projects
- f) Create self organised Think Tanks for other lower priority issues

## 6. Stage 1 2020 Climate Scientists

- a) Build base of Climate Scientists and identify sceptics to enable debate
- b) Organise self-managing teams including Taxonomy team to identify topics (e.g. Permafrost, Seaweed aquaculture, Refrigerant Gases, )
- c) Review the Climate Crisis Blueprint and 2020 Vision Manifesto
- d) Develop an initial Climate Scientists Blueprint and 2020 Vision Manifesto
- e) Get consensus from the Climate Science community and identify points where 'science' is not clear and gaps need to be filled
- f) Create a central resource on the Wiki per topic including a digest of listed scientific papers, agreed issues /opportunities and issues under debate/research
- g) Map related issues on an Ecosystems Map
- h) Apply **Ecosystems Design Thinking** per topic to identify opportunity prioritisation

- i) Develop recommended action and funding requests. Recommendations split and separately costed on time frames: (agile project management stages)
- j) Issue a revised Climate Crisis Blueprint and 2020 Climate Scientists Vision Manifesto
- k) Issue localised and topic-based Blueprints and Manifestos
- l) Issue a revised master Climate Crisis Blueprint and 2020 Climate Science Community Manifesto
- m) Working teams sign off and present recommendations
- n) Review of Summary recommendations by the Climate Scientists Policy Recommendation working committee
- o) Sign off 5 year plan framework: 6 months, 18 months, 3 year and 5 year

## **7. Stage 1 2020 Politicians**

- a) Organise structure of politicians and aligned political parties to review and support Climate Science recommendations and the 2020 Vision Manifest
- b) Liaison with New Zealand and Europe to scope alliance opportunities
- c) Liaison with other countries open to create an “Alliance Of the willing’ for reversing Climate Change and transitioning from extractive Capitalism to NeoCapitalism/Ecolutionism
- d) Issue a 2020 Politicians Vision Manifesto
- e) Review the Australian CRC – Co-operative Research Centre Framework as a vehicle to expedite project implementation and commercialisation
- f) Review alignment with pre-election policy framework and begin debate on policy and budget review based upon the recent developments of disruptive solutions and the 2020 Vision

- g) Draw up Ecosystems Map identifying existing stakeholders and lines of communication.
- h) Explore new Ecosystem Maps to deal with additional actors of Climate Scientist committees and Citizen committees.
- i) Develop a framework for Ecosystems Design Thinking and Agile Project Management within existing Government and Public Administration environment. Develop Change Management processes
- j) Ecosystems Design Thinking/Agile Project Management training workshops for actors in Government Ecosystem
- k) Investigate 2020Vision Infrastructure Project scoping
- l) Investigate Global Governance framework for development of an Internet Infrastructure platform
- m) Investigate different models for Infrastructure platform and the five key sectors (Big Data (IOT), Energy, Mobility, Agriculture and Food)
- n) Investigate Infrastructure architecture and scoping platform development
- o) Review funding proposals presented from the Stage 1 budget process

## **8. Stage 1 2020 Management Consultants**

- a) Overall project management and capability development of key actors in the wider Ecosystem
- b) Liaise with key Australian, New Zealand and European actors to develop innovation plans for various initiatives including Drawdown projects
- c) Oversee fast tracked implementation of initial demonstration projects to proof scalability of processes
- d) Oversee alliance partner reviews
- e) Oversee all Global non political relationships
- f) Investigate and table Global Governance models
- g) Moderate global governance discussions

## **9. Change Management and Society Transitioning Assistance**

A not-for-profit Organisation called CauseGoodThings.com is being set up to assist transitioning through the disruptive times.

It's mission is to empower and enable purpose for all key stakeholders in society: people, business, causes, communities, institutions (incl religious) , governments

It will do this by developing a series of online Learning, training and development and networking platforms. These platforms will be developed to enable the stakeholders to find aligned and sustainable purpose and assist them adapt to change using the natural principles of ecosystem dynamics.

This Ecosystems Networking and Learning platform will be developed on the Commons and will be powered and controlled by citizen lead governance.

While it could potentially be transferred to a global government alliance, there is a case for it sitting alongside Wikipedia and Facebook etc. as a platform layer that is driven by the market/economy.

## **ECOSYSTEMS DESIGN THINKING** (based on 5 stage Design Thinking)

This is an Innovation Methodology that has been developed based on the 5 stages of Design thinking.

The core aspects of Ecosystems are:

- Individual Stakeholder self-benefit
- Synergistic Co-existence
- Co-operative Energy Flows
- Sustainability and Regenerative Practices
- Evolution – adaptation, improvement and growth (not necessarily in size)
- Trust, Truth and Transparency
- Tolerance and Diversity
- Contributory not Extractive

These principles are embedded in the Ecosystems Design Thinking Methodology and its stages:

1. Upskill stakeholders in Ecosystems Dynamics, Principles, Mindsets, Paradigms and Purpose
2. Empathise – research and identifying and characterising actors (Ecosystem stakeholders )
3. Define Ecosystems and Energy Flows
4. Define Problems and Opportunities
5. Redesign Ecosystem
6. Ideate and Innovate
7. Prototype
8. Test and Measure

## APPENDIX

### Food Ecosystem- 2030 a review of the past decade

*(The following solution was developed using the Ecosystems Design Thinking Methodology of identifying actors, mapping existing the existing networks, identifying value creation and energy flows and then innovating and designing an efficient ecosystem, rather than a network)*

#### Overview

The past decade has seen a total transformation of Australia's Food Supply and Value Chains. Dramatically improved productivity, significant reduction in Food Waste, improved Food Security and large increases in farmable land give us an optimistic outlook for the coming decade.

Yes the droughts and bushfires hit hard in some regions, but thanks to smart thinking, climate research and the temporary relocation of farmers to less disaster prone areas we were able to fair so much better than the rest of the world who were slow to move into The Ecosystems Age.

The shift away from mass food to artisan food and healthy eating is showing early signs of reducing health care costs as our shift to being a nation of Foodies continues.

More people are outsourcing their meals which has reduced costs and supported the creation of 100,000s of new jobs as Australians choose to spend their entertainment dollar on quality time with friends and family with get togethers over quality food and drinks.

This outsourcing sees a healthy café and restaurant culture continuing to grow, it's supplemented by 'dine in' where people are experiencing the diversity of food cultures with free delivery of both hot meals and chilled ready meals.

The Dine in Market is satisfied by Artisan Food Makers, Cafes, Restaurants and Dark Kitchens (the Kitchen hubs where Restaurants and Food Makers produce their meals in facilities where customers cannot dine in, but only receive their

meals by ShaareIT, the government logistics network that put Uber out of business.

This shift was driven by the Electric Vehicle Network (EVN) 'ShaareIT'— the government run infrastructure where citizens can put their electric bikes, cars, vans and trucks onto the driverless network to earn them extra income.

The same network that allows sharing, income generation and more efficient utilisation of all assets whether they be owned by people (like Airbnb used to do) or by companies and other organizations. For many creating that additional revenue that saved them from going under as the disruptions took place. While we had seen the possibility of big change, even the most optimistic hadn't foreseen those new technologies that came out of Australia's strong core competency of Scientific Research.

Who would have guessed the impact to the Health and Wellbeing sector.

Oops, sorry for digressing, it's just been such a buzz as to how things have turned out, not the least of which has been transport.

With the cost of electric cars dropping below \$10,000 and the opportunity for car owners to earn income, the rollout cost of Australia's EVN came in under budget as the infrastructure was funded by the public. Australia became the first Nation to introduce a truly "Public Transit and Logistics System".

It was 2026 that Uber finally had to admit defeat as people chose the government platform as each use of the integrated logistics network helped feed the government budget rather than the Uber Shareholders. It was the same year that Logistics Excise exceeded Fossil Fuel excise and it's forecast that by 2035 when fossil fuels are limited to recreational vehicles, that logistics excise will have fully replaced the lost revenue from Fossil Fuel, Tobacco and Gambling excises that all diminished as Australia's THI (Total Happiness Index) improved as Australians discovered more purposeful lives.

The past decade has also seen a rationalisation of Food Manufacturing and the growth of Intermediary manufacturers who partially prepare food and on-

supply to the restaurants. (eg. preparation of precooked Organic Mushroom mince prepared from mushrooms that are not 'consumer/supermarket' grade.

With Coles, Woolworths and Aldi repositioned their businesses to online thanks to the speed and convenience of next generation logistics and to utilise their physical assets. Who would have guessed that it won't be long now before the last of the petrol bowsers are removed from most of what they used to call petrol stations in the old days.

## **Agriculture / Farming**

Agriculture is booming thanks to improved landcare, efficient supply chains and best practice farming practices. Our relations with China have strengthened partly through our increased cultural connections due to the diaspora of middle class Chinese who are calling Australia home, but also because Middle Class Chinese consumers are willing to pay the premium for Clean Green Australian produce and wellbeing products.

The Organics industry has delivered on its potential both export and domestically. This is largely due to dramatically improved export logistics infrastructure and abundant 'almost free' free renewable energy. Even though we are an Island we have excellent export access to our strengthening and fast growing neighbours.

A strong industry by industry, best practice support network is in place. The benefits are being seen of the strong support and training given to farmers in the early 2020s to reinvigorate Australia's agriculture industry as to how best manage landcare and ecological productivity and best manage their business. Farming is now driven by data management, bench marking tools and training and development programs.

The boom in MOOCs (Massive Open Online Courses) and improved profitability has had dramatic impact on Rural Mental Health. Farmers are revered again for their role as the backbone of the nation.



This improved resilience has enabled Farmers to better deal with the high instances of Drought, Floods and Fire (DFF) that are still ravaging the country. Despite the fact that we seem to have peaked with Greenhouse Gas levels thanks to the dramatic actions taken in 2020 around the world as part of Project 2020 Vision to get the world united tackling Global Climate Change, it will be another 5-10 years before we return to those levels of the 2010s. Thankfully regenerative agriculture and increases in acreage under farming in areas not so prone to DFF averted a food crisis.

The results are looking extremely promising although it's still early days that our vision of tripling the area of arable land in Australia will be achieved through Syntropic Farming. Syntropics is regenerative agricultural cropping developed in Brazil where by mimicking Mother Nature's rainforests with canopy, ground cover and biosynergies, it's possible to regenerate land and grow water as well as achieve high yields of fruit and vegetables.

With 5000 pilots at various stages of development in varying locations and climates, it's still a little early to know what the potential impact will be. But we are certainly a lot further progressed than where we were in 2019 with only 20 Syntropic farms in the whole country.

The most encouraging result of the creation of Ecovillage Hubs is how well the Asylum Seeker solution has worked. By granting 10 year Visas to Asylum Seekers and granting them land and house leases in the Ecohubs in remote areas. The theory of empowering meaningful self employment both tending to land and building their skills as virtual service providers seems to be paying dividends. The demand for non-refugee immigration continues to grow and is helping reverse the trend of the 2010s of increased growth all happening in the major cities.

The wake up to the importance of Bee Pollination and Biosecurity to our nation's Food Security came just in time. Despite the doom and gloomers that it was inevitable that Australia's native bee population would be wiped, and that our honeybee population would be devastated, we have remained as we were in 2020, the only country with sizeable agriculture to be free of the

Varroa mite. Consequently, our horticulture yields due to effective pollination have been hitting targeted growth.

It was pretty cool how Bee Pollination was identified as an issue. It wasn't even really on the Government agenda despite its threat to Food Security. But a small group of people in Rotary in Melbourne helped put it on the agenda just like in the 1970s a Rotarian decided they could leverage the network to end Polio.

## **Food Supply Chains**

One of the most exciting aspects of the achievements of the past decade is how reorganising the Food Ecosystem has dramatically reduced food waste and created so much extra employment.

As food leaves the farmgate with its IoT (internet of things) tags, it travels via the EVN (Electrical Vehicle Network) to the big wholesale hubs like at Epping in Melbourne. It's then graded and split into grades and based on the algorithms the farmers set it's then split to premium fresh produce (for local and export markets), lower grade/value add or charitable.

The fresh produce passes into the resale marketplaces and then the distribution hubs and finally the last mile delivery to its destination.

The consumer can then click the bar codes on their delivery and see the full traceability from farm. They've already set their buying preferences that determine where the food comes from. For example, if they prefer organic, low miles or from a particular farm they can set these in their personal shopper app. Thanks to blockchain their privacy is protected.

So be sitting at a computer and planning the weeks food, they can determine how many and which meals they want prepared by someone else. (like Ubereats), whether they want to pre-book those deliveries or order on demand. They can choose recipes of meals they'd like to prepare at home and how many they want to feed and their personal food app does the rest calculating the correct portion sizes of all of the ingredients, checking the

settings and shelf-life of products to determine the frequency of delivery to their home food locker with refrigerated and pantry sections.

Just like Uber they can drill down and see the progress of each ingredient as the automated logistics network drives that ingredients journey from farm to fork.

The reduction in food waste and household budget savings has been phenomenal. Such a wealth creator. The really cool thing is being able to see exactly how the household budgeting for food works. It also feeds into the Wellbeing apps so you can see what you've been putting into your body. All seamlessly. Of course, many of us don't look because we know what we will see. But for many combined with the other components of their wellbeing app it's provided the visual management interface to make it so much easier to lead a healthy and ethical lifestyle.

The Food journey history has not only created wellbeing through healthier eating, but it's also significantly reduced the incidence of sickness from food. The food safety layer that ensures all food is handled correctly and for the full journey is within HACCP food safety guidelines for temperature. When we look back at how it used to be before ShareIT, when food was being picked up hot and put on the backseat of an Uber driver's car, it's no wonder the metrics on gastroenteritis went down.

It's also been nice to see Food fraud stamped out. No more adulterated honey. No more 'organic meat' that comes of a farm where animals are fed nutrient depleted feedstuff rather than grazing from biodynamic grass on fertile paddocks full of nutrients.

The Restaurants and Café owners have also benefitted dramatically from the changes. In fact, the efficiency gains delivered profitability back to a struggling sector of the economy.

It also created so much new employment as Australians continued their push to enjoying good food locally and outsource meal preparation.

The restaurants also got to benefit from accessing the Export markets of Asia. By preparing ready meals with clean and green Australian ingredients, passing them through to the repack processors and then onto the exporters, their meals can now hit Shanghai and Singapore within days.

With the Repack processors using the High Pressure Pasteurising technologies that were originally used for fruit juices, the shelf life of chilled ready meals gives the consumer in Asia flexibility as to when they will consume the meals fresh.

Similarly, hubs like Terra Madre who started as shops now act as aggregators of Organic and Wholefoods for supplying both local and export markets much like Metcash used to act as an intermediary for Independent grocers.

Vegan, Lactose Intolerant, Gluten Free and Cuisines by nationality (eg Ethiopian) have turned into marketplaces. Many of them run by Social Enterprises creating social impact as well as wealth.

The other innovation that's assisted the profitability of restaurants and cafes has been the reduced purchasing costs and higher workplace efficiencies. By now being able to purchase part processed ingredients made from 'less aesthetic' produce such as crooked carrots along with their other supplies from the Food service companies.

So a restaurant can now order vacuum packed preminced and precooked organic mushrooms from 'seconds' that have been processed by the Preprocessors. So all that inefficient hand cutting of vegetables with the inherent OH & S risks have been eliminated.

Apart from more effective utilisation through the data management and logistics systems, food waste has also been reduced through the Charity networks.

## **Food Waste Charities**

Fareshare who started with a kitchen in Melbourne and then expanded to Brisbane, now have 9 hubs servicing the disadvantaged in Australia and their model is being social franchised throughout the world.

Fareshare help keep waste food out of landfill and in the process they stop it rotting and generating carbon dioxide and methane that cause Climate Change. They receive food (firsts and seconds) that either the farmers want to donate so that using their army of volunteers in their mega-kitchens convert these donated ingredients to ready meals for distribution by the networks of Charities at no cost to the homeless and other disadvantaged Australians.

Not only are Fareshare creating value for the disadvantaged but their programs are having significant positive impact on the volunteers with the sense of purpose having impact on their happiness and wellbeing. The effects were so marked that they have a longer queue of volunteers than they can handle. They also have companies paying sponsorship support funds so that they can access the Fareshare programs of Team Building and Corporate Giving and Social Responsibility.

That same Rotary club in Melbourne have taken the same approach and are one of the leading suppliers of Team Building and Social Responsibility programs with their FORaMEAL initiative.

With the increasing devastation caused by Climate Change in our region, nations such as Vanuatu, Tonga and The Philippines have borne the brunt of what were already high levels of natural disasters in the 2010s.

Typhoons now ravage these island nations, and with earthquakes tsunamis, volcanic eruptions and other non-Climate related disasters adding to the mix, the Rotary project has been a big help in getting first response food relief to those affected.

It started with just one product, but has now grown to several formulations. Originally it involved a team of 10 volunteers standing at folding tables as a human assembly line packing stand up pouches of oats, rice, lentils and vitamin sachets to feed a family of 5-6. These heat-sealed pouches were packed in

cartons and then shipped to the destination nation where they were stored in Food vaults. When a typhoon hits, the food vaults are unlocked and local Rotarians then deliver the nutritious meals to those affected at no cost. The whole system being sponsored by Australian agribusinesses supplying the ingredients and corporates, community clubs and individuals sponsoring their own table at packing events so they benefit from the 'feel good factor'.

### **Good Food = Good Health, Sense of belonging and Happiness**

The hidden benefit of all these changes to Australia's Food Ecosystem apart from the big increase in employment at both ends – the farmers and food producers, has been the sense of family and community. We've seen a boom in dinner parties and family's sitting around the table and sharing meals. The power of community and good food, good drinks, good company and good conversations has been found to have a huge impact on the GHI (Gross Happiness Index).....which after all is what life is all about anyway!

### **JOIN US**

**If you'd like to see that Vision actually happen then please join us at [Vote4Better.org](http://Vote4Better.org), so your voice can help persuade our politicians to make it happen.**

