

FOOD: Population/Food Scarcity: That we are increasingly having to feed more people with less farming land combined with the effect climate change is having on our crops means that food scarcity is a very real problem.

PASTS

LEAN SEASONS

In far Nth Qld. produce from the sea and yam production ensured food supply during lean and dry seasons. In Sth East Qld the Bunya nut was eaten during harvest and stored in large quantities.



relativecreative.com.au

Pascoe, Bruce, 2016, Dark Emu, Magabala Books; Broome p. 70, 108



resource

FOOD: Population/Food Scarcity: That we are increasingly having to feed more people with less farming land combined with the effect climate change is having on our crops means that food scarcity is a very real problem.

PRESENTS

MEAT & VEG

The types of food we eat is changing, from diets based on rice and beans to diets of mainly meat and dairy. Rice is far less water intensive to grow than beef.



relativecreative.com.au

<http://www.unwater.org/worldwaterday/learn/en/?section=c325497#sthash.BIRCYXUB.dpuf>



resource

FOOD : Population/Food Scarcity: That we are increasingly having to feed more people with less farming land combined with the effect climate change is having on our crops means that food scarcity is a very real problem.

FUTURES

NATIVE GRAIN

A focus on Australian grains instead of water intensive and disease-prone grains of Asia and Europe has changed the way we farm and eat.



relativecreative.com.au



resource

Pascoe, Bruce, 2016, Dark Emu, Magabala Books; Broome p. 51

FOOD: Population/Food Scarcity: That we are increasingly having to feed more people with less farming land combined with the effect climate change is having on our crops means that food scarcity is a very real problem.

FUTURES

NATIVE MEAT

Our diets have shifted away from total reliance on sheep and cattle and toward Australian meats such as emu and kangaroo, learning from Aboriginal farming and food procurement.



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resource

Pascoe, Bruce, 2016, Dark Emu, Magabala Books; Broome p. 50 & 146

FOOD: Population/Food Scarcity: That we are increasingly having to feed more people with less farming land combined with the effect climate change is having on our crops means that food scarcity is a very real problem.

FUTURES

FISH NETS

We have learnt lessons from Indigenous Australians around the design of watercraft and fishing techniques lessening the environmental impact of fishing by reducing its scale.



relativecreative.com.au



resource

Pascoe, Bruce, 2016, Dark Emu, Magabala Books, Broome p.70

FOOD: Monopolisation/Crop Variation: A warming climate will have a dramatic effect on our grain supplies as higher temperatures lead to a decline in the amount of grain grown per crop.

PASTS

NATIVE SEEDS

Indigenous populations carefully cultivated and managed a wide range of crops including grains, rice and yams prior to European invasion.



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resource

Pascoe, Bruce, 2016, Dark Emu, Magabala Books, Broome

FOOD: Monopolisation/Crop Variation: A warming climate will have a dramatic effect on our grain supplies as higher temperatures lead to a decline in the amount of grain grown per crop.

PRESENTS

SEED PATENTS

Intellectual-property-rights allow corporations to own particular seeds as private property resulting in corporate monopolies over seeds and farmers being trapped into debt.



relativecreative.com.au



resource

Shiva, Vandana, 2000, Stolen Harvest: The Hijacking of the Global Food Supply, South End Press, Cambridge

FOOD: Monopolisation/Crop Variation: A warming climate will have a dramatic effect on our grain supplies as higher temperatures lead to a decline in the amount of grain grown per crop.

FUTURES

FOOD BOWL

As with Nalanda University in India the North Australian Food Bowl provides space for farmers and their apprentices to learn ways of growing and cooking from other cultures.



relativecreative.com.au



resource

<http://www.nalandauniv.edu.in/schools/sees/> and <http://www.afr.com/news/special-reports/the-northern-australia-food-bowl-takes-shape-20160306-eyre24p6>

FOOD: Monopolisation/Crop Variation: A warming climate will have a dramatic effect on our grain supplies as higher temperatures lead to a decline in the amount of grain grown per crop.

FUTURES

LOCAL FARMS

Local farming using Indigenous farming methods and native foods has achieved food security for the city, changing the way we eat and grow our food.



relativecreative.com.au



resource

<http://www.remoteindigenousgardens.net/>

FOOD: Monopolisation/Crop Variation: A warming climate will have a dramatic effect on our grain supplies as higher temperatures lead to a decline in the amount of grain grown per crop.

FUTURES

NATIVE RICE

Native rices can be grown in brackish (slightly salty) water. These have enabled us to keep growing rice as sea level rise and cause the salination of arable land.

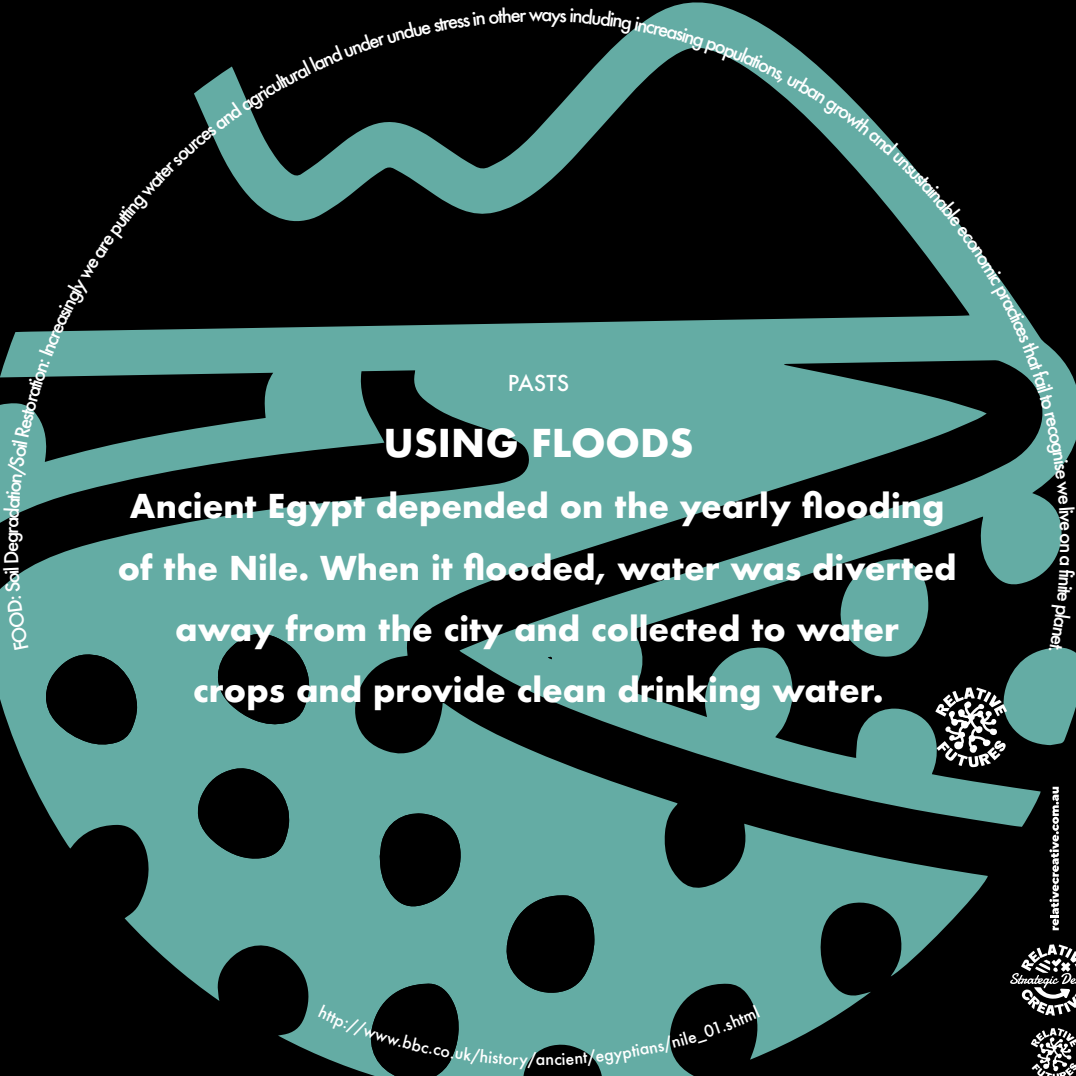


relativecreative.com.au



resource

Pascoe, Bruce, 2016, Dark Emu, Magabala Books, Broome



FOOD: Soil Degradation/Soil Restoration. Increasingly, we are putting water sources and agricultural land under undue stress in other ways including increasing populations, urban growth and unsustainable economic practices that fail to recognise we live on a finite planet.

PASTS

USING FLOODS

Ancient Egypt depended on the yearly flooding of the Nile. When it flooded, water was diverted away from the city and collected to water crops and provide clean drinking water.



relativecreative.com.au

http://www.bbc.co.uk/history/ancient/egyptians/nile_01.shtml



resource

PRESENTS
WATER USE

**Australian households use approximately 13%
of household water in the kitchen, washing
fruit and vegetables, cleaning the dishes and
cooking.**



POOD: Soil Degradation/Soil Restoration: Increasingly, we are putting water sources and agricultural land under undue stress in other ways including increasing populations, urban growth and unsustainable economic practices that fail to recognise we live on a finite planet.

<http://www.redland.qld.gov.au/EnvironmentWaste/Water/Documents/WaterWise-bath-loundkitch-Info-web.pdf> p2



relativecreative.com.au

resource

FOOD: Soil Degradation/Soil Restoration. Increasingly, we are putting water sources and agricultural land under undue stress in other ways including increasing populations, urban growth and unsustainable economic practices that fail to recognise we live on a finite planet.

FUTURES

WILD FOODS

Wild foods provide greater diversity in diet (providing alternatives to farmed staples) and crop production (by providing alternative genes). They often require less water to produce.



relativecreative.com.au

<http://www.sbs.com.au/food/article/2017/08/03/whats-deal-wild-foods>



resource

FOOD: Soil Degradation/Soil Restoration. Increasingly, we are putting water sources and agricultural land under undue stress in other ways including increasing populations, urban growth and unsustainable economic practices that fail to recognise we live on a finite planet.

FUTURES

TREE FILTERS

Planting trees, such as eucalyptus and she-oak pine, and ground cover helps to purify the land and filter the water before it hits our main gullies and streams.



relativecreative.com.au

Uncle Joseph William Kirk, Aboriginal Elder (Brisbane City Council, 2015, Water Smart Strategy, Brisbane City Council, Brisbane)



resource



FOOD: Soil Degradation/Soil Restoration: Increasingly we are putting water sources and agricultural land under undue stress in other ways including increasing populations, urban growth and unsustainable economic practices that fail to recognise we live on a finite planet.

FUTURES

RECYCLED H2O

Purified recycled water is a drinkable alternative source of water. We increase our water supply by recycling water from sources such as sewage and grey water.



<http://www.urbanwateralliance.org.au/publications/UWSRA-final-synthesis-report.pdf>

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resource

FOOD: Soil Degradation/Soil Restoration. Increasingly, we are putting water sources and agricultural land under undue stress in other ways including increasing populations, urban growth and unsustainable economic practices that fail to recognise we live on a finite planet.

FUTURES

URBAN AGRICULTURE

Food has been integrated into urban socio-spaces to release the pressure on Australia's food security.



relativecreative.com.au

<http://www.takepart.com/article/2015/12/01/can-you-dig-urban-gardening.doc>



resource

FOOD: Soil Degradation/Soil Restoration: Increasingly we are putting water sources and agricultural land under undue stress in other ways including increasing populations, urban growth and unsustainable economic practices that fail to recognise we live on a finite planet.

FUTURES

CELEBRATION

**Harvest Festivals provide opportunities
for celebration and cultural expression
of knowledge around food as well as
opportunities for educational tourism.**

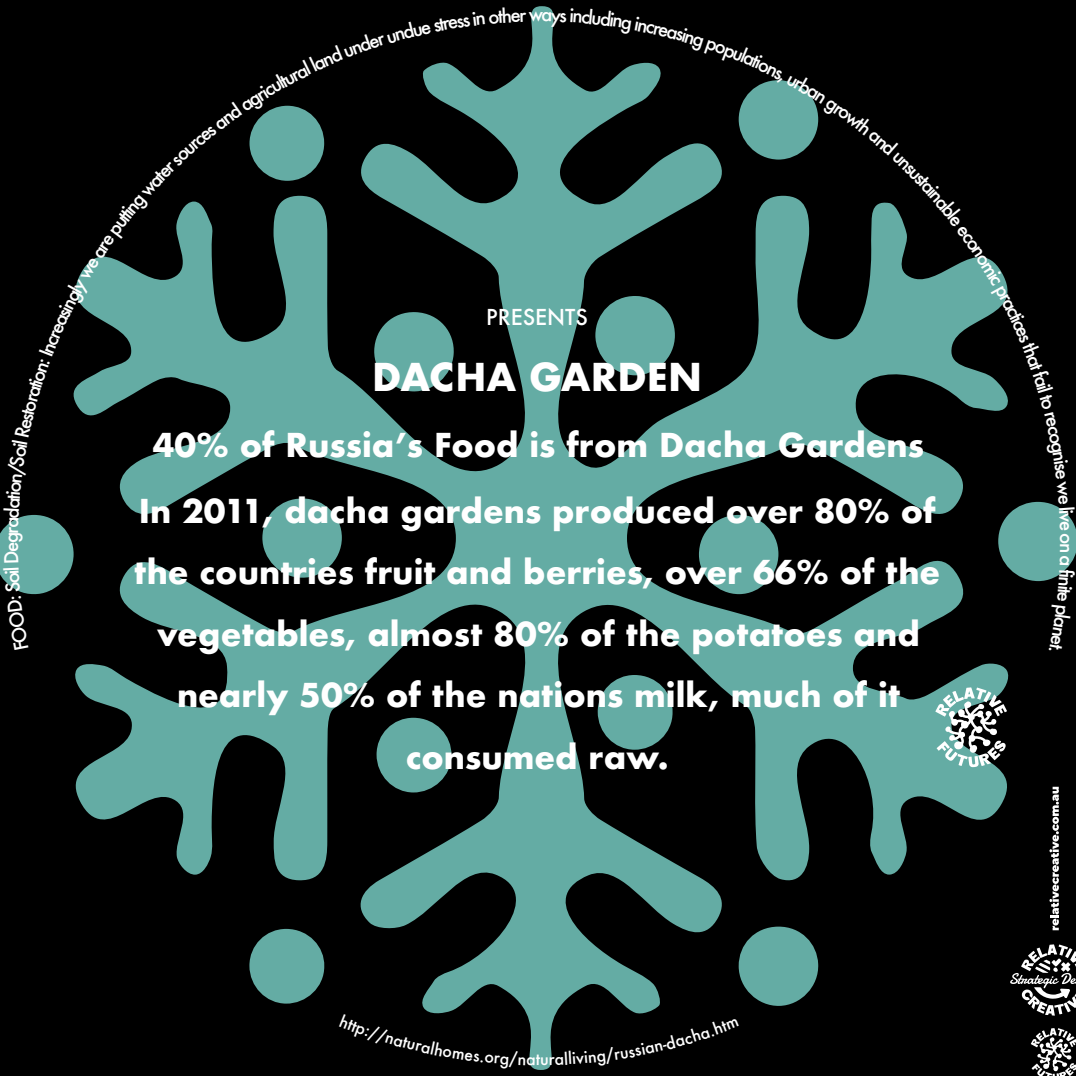


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resource

<http://www.nationalgeographic.com/travel/top-10/harvest-festivals/>



FOOD: Soil Degradation/Soil Restoration: Increasingly we are putting water sources and agricultural land under undue stress in other ways including increasing populations, urban growth and unsustainable economic practices that fail to recognise we live on a finite planet.

PRESENTS

DACHA GARDEN

40% of Russia's Food is from Dacha Gardens
In 2011, dacha gardens produced over 80% of the countries fruit and berries, over 66% of the vegetables, almost 80% of the potatoes and nearly 50% of the nations milk, much of it consumed raw.



relativecreative.com.au



resource

<http://naturalhomes.org/naturaliving/russian-dacha.htm>

FOOD: Soil Degradation/Soil Restoration: Increasingly, we are putting water sources and agricultural land under undue stress in other ways including increasing populations, urban growth and unsustainable economic practices that fail to recognise we live on a finite planet.

PASTS

FOOD JUSTICE

When it comes to food justice,
environmentalism and ecological practices,
Thomas Sankara was way ahead of his time.
Thomas Sankara helped Burkina Faso become
self-sufficient in basic foodstuffs in just a few
years before he was assassinated.



relativecreative.com.au



resource

<https://www.pambazuka.org/food/health/%E2%80%99Cour-stomachs-will-make-themselves-heard%E2%80%99D-what-sankara-can-teach-us-about-food-justice>

FOOD: Population/Food Scarcity: That we are increasingly having to feed more people with less farming land combined with the affect climate change is having on our crops means that food scarcity is a very real problem.

PRESENTS

LOCAL FOOD

Remote Indigenous Gardens Network links people, projects and resources to support better practice and undertake projects to help build better local food production initiatives that can deliver social, health and economic benefits to remote Aboriginal and Torres Strait Islander communities.

<http://www.remoteindigenousgardens.net/>



relativecreative.com.au



resource

FOOD: Population/Food Scarcity: That we are increasingly having to feed more people with less farming land combined with the effect climate change is having on our crops means that food scarcity is a very real problem.

PASTS

CUBAN FARM

By 1998 there were more than 8,000 urban farms in Havana producing nearly half of the country's vegetables. Cuba continues to provide an interesting example of urban agriculture developed through necessity.



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resource

<https://www.resilience.org/resources/farming-cuba-urban-agriculture-from-the-ground-up/>

FOOD: Population/Food Scarcity: That we are increasingly having to feed more people with less farming land combined with the effect climate change is having on our crops means that food scarcity is a very real problem.

PRESENTS

GROWERS GROUP

In 2018 Australia's first Aboriginal growers group, the Noongar of Western Australia reached a significant milestone, with one of its farms achieving commercial success.



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<https://www.abc.net.au/radio/programs/am/aboriginal-farm-achieves-commercial-success/10623392>



resource



FOOD: Soil Degradation/Soil Restoration: Increasingly, we are pulling water sources and agricultural land under undue stress in other ways including increasing populations, urban growth and unsustainable economic practices that fail to recognise we live on a finite planet.

PRESENTS

INDIGENOUS FOODS

Aboriginal people invented countless ways to yield food and bush medicine from Australia's landscape. They fished, hunted, rendered poisonous seeds edible, turned certain moths and grubs into delicious meals, made sweet drinks from native honey and nectar, ground grass seeds to bake an early form of damper.



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<https://www.australiangeographic.com.au/topics/history-culture/2015/03/aboriginal-australian-inventions/>



resource

FOOD: Monopolisation/Crop Variation: Warming climate will have a dramatic effect on our grain supplies as higher temperatures lead to a decline in the amount of grain grown per crop.

PASTS

WOOMERA

The woomera is a unique Aboriginal invention that uses leverage to allow a spear to be thrown up to three times further. Witnesses report seeing spears thrown with enough force to skewer the trunk of a full-grown eucalyptus tree! Typically, the woomera was made by shaping a piece of hardwood into a long, thin handle and attaching a stone to the base to hold a spear-end in place.



<https://www.australiangeographic.com.au/topics/history-culture/2015/03/aboriginal-australian-inventions/>

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resource

FOOD: Monopolisation/Crop Variation: Warming climate will have a dramatic effect on our grain supplies as higher temperatures lead to a decline in the amount of grain grown per crop.

PASTS

BOOMERANG

The boomerang's distinctive sound and remarkable return flight has made it famous throughout the world. Other cultures invented throwing sticks with controllable motion and spin, but the boomerang was a purely Aboriginal invention. The angled shape with asymmetrical curves makes use of one of the most complicated principles of aerodynamics: asymmetrical lift.



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<https://www.australiangeographic.com.au/topics/history-culture/2015/03/aboriginal-australian-inventions/>



resource

FOOD: Population/Food Scarcity: That we are increasingly having to feed more people with less farming land combined with the effect climate change is having on our crops means that food scarcity is a very real problem.

PASTS

FIRESTICK

Aboriginal people made and actively maintained the land through a form of controlled burning called 'firestick farming'. Aboriginal firestick farming was incredibly precise. They could aim the fires in a specific direction to clear tracks through the bush or create open parklands. Firestick farming flushed out animals that could be killed immediately for food.

<https://www.australiangeographic.com.au/topics/history-culture/2015/03/aboriginal-australian-inventions/>



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resource

COMMONING: The Commons/Self Interest: The continued loss of "the commons", a catch-all term for shared resources, has put humanity at risk as a direct result of capitalist economic systems that value profit over all else.

PRESENTS

CO-HOUSING

Co-housing involves living in an apartment block or large home type dwelling with private spaces such as bedrooms and bathrooms but shared spaces such as living rooms, dining rooms and kitchens. Neighbours share tools and appliances (ovens, fridges, washing machines). This style of living is most popular in Denmark and Sweden.



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resource

https://www.cohousing.org/what_is_cohousing

The continued loss of "the commons", a catch-all term for shared resources, has put humanity at risk as a direct result of capitalist economic systems that value profit over all else.

FUTURES

COMMUNISM

Marinaleda is a micro-communist utopia in Spain with no police, no mortgages and full employment.



relativecreative.com.au



resource

<https://www.a1asobscura.com/places/marinaleda>

PRESENTS

STEWARDSHIP

The commons offers a framework and a process for effectively and equitably stewarding the resources communities need to live in dignity. If we have a collective right to a resource, we should be able to participate in decisions about that resource's use. From this perspective, all sorts of things start to look like they should be managed as commons: healthcare, learning, restorative justice, renewable energy, financial service, investment, food, water.

<https://www.atlasobscura.com/places/marinededa>

The continued loss of "the commons", a catch-all term for shared resources, has put humanity at risk as a direct result of capitalist economic systems that value profit over all else.



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resource

CONFLICT: Nation States/Adaptation: Climate change will play a role in future conflict but so too will governments' failure to adapt to changing environmental, economic and social realities.

PASTS

TOP-DOWN

**Indigenous knowledge has been
de-contextualised and degraded through the
top-down governance of the Indigenous
population imposed by colonialism.**



relativecreative.com.au

Mignolo, Walter, 2011, The Darker Side of Western Modernity, Duke University Press; Durham, NC



resource

CONFLICT: Nation States/Adaptation: Climate change will play a role in future conflict but so too will governments' failure to adapt to changing environmental, economic and social realities.

PRESENTS

SLOW POLITIC

As global risks increase and technologies develop quickly, our institutions for governing international security remain reactive and slow-moving.

http://www3.weforum.org/docs/GRR17_Report_web.pdf



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resource

CONFLICT: Nation States/Adaptation: Climate change will play a role in future conflict but so too will governments' failure to adapt to changing environmental, economic and social realities.

FUTURES

SHARING

Aboriginal co-operative governance and responsible economic practice are adopted and implemented across cultures and geographic boundaries, reducing conflict.



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Pascoe, Bruce, 2016, Dark Emu, Magabala Books; Broome p. 129 & 136



resource

CONFLICT: Nation States/Adaptation: Climate change will play a role in future conflict but so too will governments' failure to adapt to changing environmental, economic and social realities.

FUTURES

YARNING

Yarning circles where each person speaks in turn, holds authority for that time, and reciprocates by speaking responsibly from self presents a different way to talk to each other.



Sheehan, Norman, "Indigenous Knowledge and Respectful Design: An Evidence-Based Approach." Design Issues 27:4 (2003) 68-80

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resource

CONFLICT: Nation States/Adaptation: Climate change will play a role in future conflict but so too will governments' failure to adapt to changing environmental, economic and social realities.

FUTURES

7TH STATE

Indigenous Australia is now responsible for administering it's own affairs with the creation of a seventh state. The state exists as a legal entity rather than as physical land.



relativecreative.com.au

<https://newmatilda.com/2015/06/13/7th-state-michael-mansell-another-way-forward-first-nations-self-rule/>



resource

CONFLICT: Climate/Movement: The movement of humans due to climate change and conflict is likely to cause further destabilisation of already unsettled regions and potentially lead to tensions within host countries.

PASTS

MOVE AWAY

Prior to human settlement human populations were much more nomadic which meant that they could more easily move out of the way of disasters such as war and conflict.



relativecreative.com.au



resource

Fagan, Brian, 2004, The Long Summer, Basic Books, New York

CONFLICT: Climate/Movement: The movement of humans due to climate change and conflict is likely to cause further destabilisation of already unsettled regions and potentially lead to tensions within host countries.

PRESENTS

REVOLUTION

**The indigenous population of Bougainville
Island used traditional knowledge and
experimentation to unite against the Papua
New Guinean army to stop mining that was
destroying their land.**



<https://foodfreedom.wordpress.com/2011/09/18/the-coconut-revolution-worlds-1st-armed-eco-revolution/>

relativecreative.com.au



resource

CONFLICT: Climate/Movement: The movement of humans due to climate change and conflict is likely to cause further destabilisation of already unsettled regions and potentially lead to tensions within host countries.

FUTURES

RETHINK DAMS

Learning from Aboriginal engineering and labour practices has provided ways to rethink dams and water storage techniques and helped establish viable dams in key locations.



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resource

Pascoe, Bruce, 2016, Dark Emu, Magabala Books; Broome

CONFLICT: Climate/Movement: The movement of humans due to climate change and conflict is likely to cause further destabilisation of already unsettled regions and potentially lead to tensions within host countries.

FUTURES

SONGLINES

We have learnt from the songlines of Aboriginal and Torres Strait Islanders to reconnect, learning from the cultural, economic, genetic and artistic conduits of the songlines.

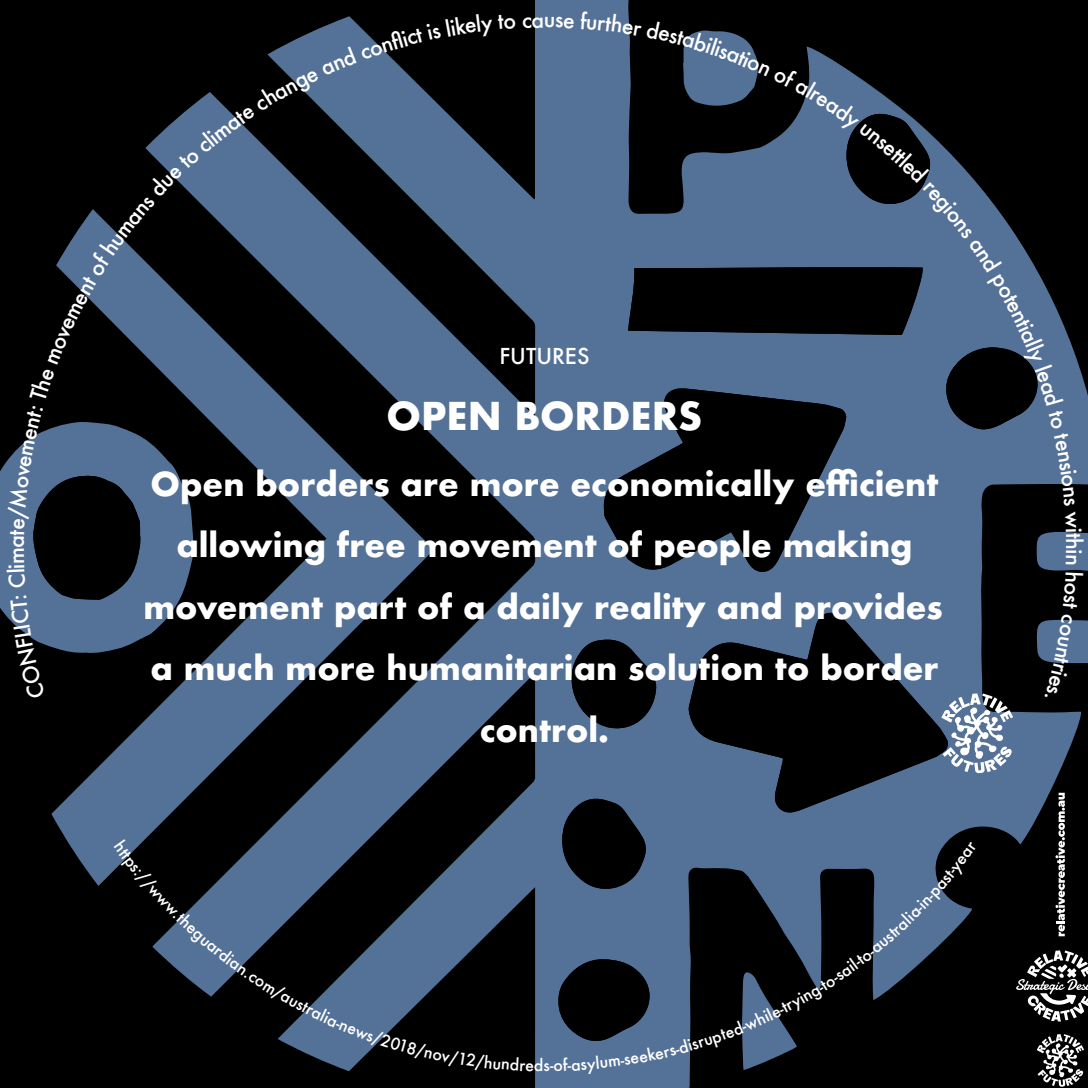


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Pascoe, Bruce, 2016, Dark Emu, Magabala Books; Broome p.129



resource



CONFLICT: Climate/Movement: The movement of humans due to climate change and conflict is likely to cause further destabilisation of already unsettled regions and potentially lead to tensions within host countries.

FUTURES

OPEN BORDERS

**Open borders are more economically efficient
allowing free movement of people making
movement part of a daily reality and provides
a much more humanitarian solution to border
control.**

<https://www.theguardian.com/australia-news/2018/nov/12/hundreds-of-asylum-seekers-disrupted-while-trying-to-sail-to-australia-in-past-year>



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resource

CONFLICT: Extremism/Acceptance: The treatment of and political discourse around war refugees is likely to have an ongoing effect on Australian's acceptance and treatment of refugees now and in the future.

PASTS

INVASION

**On January 26 1788 the First Fleet, Captained
by Arthur Phillip arrived in Australia beginning
the genocide of the local Indigenous
population.**



<http://theconversation.com/australia-day-invasion-day-survival-day-a-long-history-of-celebration-and-contestation-70278>

relativecreative.com.au



resource

CONFLICT: Extremism/Acceptance: The treatment of and political discourse around war refugees is likely to have an ongoing effect on Australian's acceptance and treatment of refugees now and in the future.

PRESENTS

ALIENATION

**Young people from Muslim backgrounds
are increasingly alienated by the rhetoric
connecting their religion to terrorism.**



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<https://theconversation.com/young-british-muslims-alienated-by-us-versus-them-rhetoric-of-counter-terrorism-4617>



resource

CONFLICT: Extremism/Acceptance: The treatment of and political discourse around war refugees is likely to have an ongoing effect on Australian's acceptance and treatment of refugees now and in the future.

FUTURES

HISTORY WARS

Australia's foundational stories: the First Nations, the British tradition and the richness of our migration are recognised. Most important, our First Nations history is celebrated and cherished.



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<http://www.abc.net.au/news/2017-08-23/stan-grant-damaging-myth-captain-cook-discovered-australia/8833536>



resource

CONFLICT: Extremism/Acceptance: The treatment of and political discourse around war refugees is likely to have an ongoing effect on Australian's acceptance and treatment of refugees now and in the future.

FUTURES

NEW POLITICS

Our understanding of and the way we practice democracy has completely transformed as the economy and technology has transformed our everyday lives, often unevenly.



<http://reports.weforum.org/globalrisks-2017/part-2-social-and-political-challenges/2-1-western-democracy-in-crisis/#hide/in-2>

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resource

CONFLICT: Extremism/Acceptance. The treatment of and political discourse around war refugees is likely to have an ongoing effect on Australian's acceptance and treatment of refugees now and in the future.

FUTURES

CYBER TERROR

Cyberspace is increasingly becoming a space of conflict which has the effect of exacerbating existing conflict. Cyberterrorism sees large-scale disruption to businesses and states.



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resource

http://www3.weforum.org/docs/GRR17_Report_web.pdf - P.16

CONFLICT: Extremism/Acceptance. The treatment of and political discourse around war refugees is likely to have an ongoing effect on Australian's acceptance and treatment of refugees now and in the future.

PRESENTS

ARABLE LAND

There is a gap between people's diets (for example, high meat consumption) and the reality of arable land and its environmental impacts.



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http://www.panda.org/who_we_are/wwf_offices/australia/environmental_problems_in_australia/



resource

CONFLICT: Extremism/Acceptance: The treatment of and political discourse around war refugees is likely to have an ongoing effect on Australian's acceptance and treatment of refugees now and in the future.

PRESENTS

BRICOLEUR

A bricoleur is someone who uses what is at hand to do what needs to be done, for example to repair something. Indigenous Australians have practiced many forms of bricolage often out of necessity. These frugal practices can be learned from today.



relativecreative.com.au

Benterrak, Krim et al. Reading the Country, Fremantle Arts Centre Press, Fremantle p.75



resource

CONFLICT: Many of the conflicts of the 21st Century will be played out in cyber-space.

PRESENTS

CLIMATE PROFIT

Russian President Vladimir Putin's history of casting doubt over climate science while his country profits as its icy northern reaches thaw highlights that Russia might see the sort of geoengineering project the United States and China could get behind "as contrary to its interests."



relativecreative.com.au

<https://medium.com/s/2069/the-climate-change-solution-that-could-spark-global-war-bd1cc9cce1a3>



resource

CONFLICT: Many of the conflicts of the 21st Century will be played out in cyber-space.

FUTURES

CYBER VICTORY

**In the future, victory will be won and lost in
the information space, not on the physical
battlefield.**



<https://medium.com/@2069/the-return-of-mercenaries-non-state-conflict-and-more-predictions-for-the-future-of-warfare-744921c04e5>

relativecreative.com.au



resource

CONFLICT: Many of the conflicts of the 21st Century will be played out in cyber-space.

PRESENTS

COLONIAL TECH

Technology companies are increasingly colonial in their actions as seen in the veneer of sovereignty they seek to cultivate, how they work across borders, their use of dominant culture as a weapon, and the clear belief that “superior” technology is a suitable excuse for lawlessness, exploitation and even violence.



relativecreative.com.au



resource

<https://modelviewculture.com/pieces/technology-colonialism>

ENERGY: Fossil/Renewable: Worldwide energy usage is forecast to rise by 40 percent between the years 2009 and 2035. Energy consumption has a negative impact on our environment and climate.

PRESENTS

DIGITAL CARBON

A standard email as a carbon footprint of approximately 4 grams, one with an attachment can have up to 50 grams. Bitcoin also has a large carbon footprint.



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Mike Berners-Lee's 2010 book "How Bad are Bananas: The Carbon Footprint of Everything."



resource

ENERGY: Fossil/Renewable: Worldwide energy usage is forecast to rise by 40 percent between the years 2009 and 2035. Energy consumption has a negative impact on our environment and climate.

PRESENTS

CITY ENERGY

"Cities have huge potential for creating energy. As the efficiency of photovoltaic units improves and their costs decline, their adoption will only increase. Surrounding green vegetation on roofs and façades helps to reduce local temperatures, thus increasing their efficiency."



relativecreative.com.au



resource

Cities Alive: Green Building Envelope Report, ARUP p65

ENERGY: Fossil/Renewable: Worldwide energy usage is forecast to rise by 40 percent between the years 2009 and 2035. Energy consumption has a negative impact on our environment and climate.

PRESENTS

POWER NEEDS

**The UN found that after 42
Gigajoules of energy consumption
per capita per year increased energy use
has limited positive impact on the human
development index (an indicator developed by
UNDP to show countries' social and economic
well being). By contrast the OECD Pacific
(Australia, Japan, Korea and New Zealand)
uses 180 Gigajoules per capita, per year.**



relativecreative.com.au



resource

UNDP, World energy Assessment, 2004

ENERGY: Fossil/Renewable: Worldwide energy usage is forecast to rise by 40 percent between the years 2009 and 2035. Energy consumption has a negative impact on our environment and climate.

PRESENTS

WALKABLE

**Moving to a walkable neighbourhood saves
as much energy as switching every light bulb
in your house to an energy efficient bulb would
save in a year.**

"Walkable City: How Downtown Can Save America, One Step At A Time", by Jeff Speck. 2013. North Point press. Available from: https://issuu.com/mkextreme/docs/walkable_city



relativecreative.com.au



resource

ENERGY: Fossil/Renewable: Worldwide energy usage is forecast to rise by 40 percent between the years 2009 and 2035. Energy consumption has a negative impact on our environment and climate.

PASTS

COMMUNICATION

**Important communications and histories
have been carried across history via various
mediums such as message sticks, rock and sand
art, body painting, song, dance and carvings.**



<https://www.qcaa.qld.edu.au/about/k-12-policies/aboriginal-torres-strait-islander-perspectives/resources/storytelling>

relativecreative.com.au



resource

ENERGY: Fossil/Renewable: Worldwide energy usage is forecast to rise by 40 percent between the years 2009 and 2035. Energy consumption has a negative impact on our environment and climate

PRESENTS

NEW ENERGY

Dice Australia is a leading service provider to the construction and renewable energy sectors and provides services across the country – particularly in the Northern Territory. It was established by Raymond Pratt, a proud Arrernte man. Through its collaborative approach, Dice has won a significant number of contracts.



<https://closingthegap.pmc.gov.au/dice-australia-delivering-technological-solutions-sustainable-and-enterprising-communities>

relativecreative.com.au



resource

ENERGY: Fossil/Renewable: Worldwide energy usage is forecast to rise by 40 percent between the years 2009 and 2035. Energy consumption has a negative impact on our environment and climate

PRESENTS

GASOLINE

"Gasoline powered vehicles with internal combustion engines are one of the worst consumers of energy, using just 15% of the fossil fuel deposited into the automotive engine, with the remaining 85% escaping as waste heat."

Energy losses in a vehicle, by California's Consumer Energy Center.



relativecreative.com.au



resource

Available from: http://www.consumerenergycenter.org/transportation/consumer_tip/vehicle_energy_losses.html

ENERGY: Fossil/Renewable: Worldwide energy usage is forecast to rise by 40 percent between the years 2009 and 2035. Energy consumption has a negative impact on our environment and climate

PRESENTS

FOOTSTEPS

"Pavegen, a technology-enabled floor tile converts energy from footsteps into electricity for use in low-voltage applications such as lighting, displays and wayfinding. It can store power throughout the day and demonstrates how footfall could be leveraged as a valuable energy source in future cities."



relativecreative.com.au

<http://www.pavegen.com/home/>



resource

ENERGY: Fossil/Renewable: Worldwide energy usage is forecast to rise by 40 percent between the years 2009 and 2035. Energy consumption has a negative impact on our environment and climate

PRESENTS

SUSTAINABLE ENERGY

The Sholai School in India runs entirely on sustainable energy, including a micro-hydro plant (using water for energy), biogas (using gas for cooking) and solar panels.



<https://www.resilience.org/stories/2016-02-17/how-an-alternative-school-in-india-has-been-running-on-alternative-energy-since-the-1980s/>

ENERGY: Fossil/Renewable: Worldwide energy usage is forecast to rise by 40 percent between the years 2009 and 2035. Energy consumption has a negative impact on our environment and climate

PASTS

SPINNING TOPS

In North Queensland, Aboriginal men played a game using spinning tops made from a rainforest gourd, beeswax, bark fibre and hardwood. It's likely that skill at construction as well as spinning was a source of rivalry in these competitions.



relativecreative.com.au



resource

<https://www.australiangeographic.com.au/topics/history-culture/2015/03/aboriginal-australian-inventions/>

ENERGY: Fossil/Renewable: Worldwide energy usage is forecast to rise by 40 percent between the years 2009 and 2035. Energy consumption has a negative impact on our environment and climate

PASTS

TRADITIONAL TOYS

Aboriginal adults made rattles, dolls, spinning tops, and balls for their children to play with, as well as small-scale, harmless models of tools and weapons. Children made toy propellers out of strips of long leaves, which they launched into the air in throwing competitions.

RELATIVE
FUTURES

<https://www.australiangeographic.com.au/topics/history-culture/2015/03/aboriginal-australian-inventions/>

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RELATIVE
FUTURES

resource

ENERGY: Fossil/Renewable: Worldwide energy usage is forecast to rise by 40 percent between the years 2009 and 2035. Energy consumption has a negative impact on our environment and climate

PASTS

COOLGARDIE

The Coolgardie Safe, which used capillary action and evaporative cooling to keep food from spoiling, was the 'household fridge' of Australia from the 1890s until the mid-twentieth century. It is thought to have been partly inspired by watching Aboriginal people carry water in special bags made of wallaby skin, which used the same principles of heat transfer to keep the water cool.



<https://www.australiangeographic.com.au/topics/history-culture/2015/03/aboriginal-australian-inventions/>

relativecreative.com.au



resource

ENERGY: Fossil/Renewable: Worldwide energy usage is forecast to rise by 40 percent between the years 2009 and 2035. Energy consumption has a negative impact on our environment and climate

PASTS

INDIG. GAMES

Traditional Indigenous games are played by different ages and different genders. Learning traditional Indigenous games which include many ball games, memory games, hide-and-seek type games, skipping games and tag games, helps to maintain and celebrate Indigenous cultures.



relativecreative.com.au

Australian Sports Commission, 2008, Yulunga, Traditional Indigenous Games, Australian Government



resource

ENERGY: Fossil/Renewable: Worldwide energy usage is forecast to rise by 40 percent between the years 2009 and 2035. Energy consumption has a negative impact on our environment and climate.

PASTS

FOSSIL FUELS

We have been living through an unprecedented era of cheap, fossil fuel-driven transport. Like the rest of the carbon economy, this has been made possible by market signals that fail to account for the negative externalities of greenhouse gas production.



relativecreative.com.au



resource

<https://howwegotonext.com/the-rebirth-of-the-city-state> 1d005f7c4eb7

HEALTH: Physiological/Human Health: The air we breathe is becoming increasingly polluted with wide ranging health implications that will worsen into the future.

PASTS

LAND WORK

Indigenous populations worked the land by hand making use of tools such as fish nets, fire control and woven baskets.



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resource

Pascoe, Bruce, 2016, Dark Emu, Magabala Books; Broome

HEALTH: Physiological/Human Health: The air we breathe is becoming increasingly polluted with wide ranging health implications that will worsen into the future.

PRESENTS

AIRWAYS

Congestion is expensive, estimated at about A\$5 billion per year. Safe infrastructure for cyclists and well designed public transport can reduce congestion and its associated costs.



relativecreative.com.au



resource

<http://www.tmr.qld.gov.au/Travel-and-transport/Cycling/Benefits.aspx>

HEALTH: Physiological/Human Health: The air we breathe is becoming increasingly polluted with wide ranging health implications that will worsen into the future.

FUTURES

ON COUNTRY

The importance an value of Indigenous Knowledge and it's low-impact relationship to managing country, agriculture and everyday life has been recognised and adopted.



<https://www.theguardian.com/commentisfree/2017/jun/02/indigenous-knowledge-systems-can-help-solve-the-problems-of-climate-change>

relativecreative.com.au



resource

HEALTH: Physiological/Human Health: The air we breathe is becoming increasingly polluted with wide ranging health implications that will worsen into the future.

FUTURES

HAND-WORK

Doing things by hand becomes more commonplace, reducing reliance on polluting machines and making human activity more fulfilling and meaningful.



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resource

Ingold, Tim, 2011, Being Alive, Routledge; Oxon p.81

HEALTH: Physiological/Human Health: The air we breathe is becoming increasingly polluted with wide ranging health implications that will worsen into the future.

FUTURES

BIKEWAYS

**Active transport such as walking and cycling
has increased due to the development of
high quality, connected, accessible pathway
networks that make these transport methods
safe.**

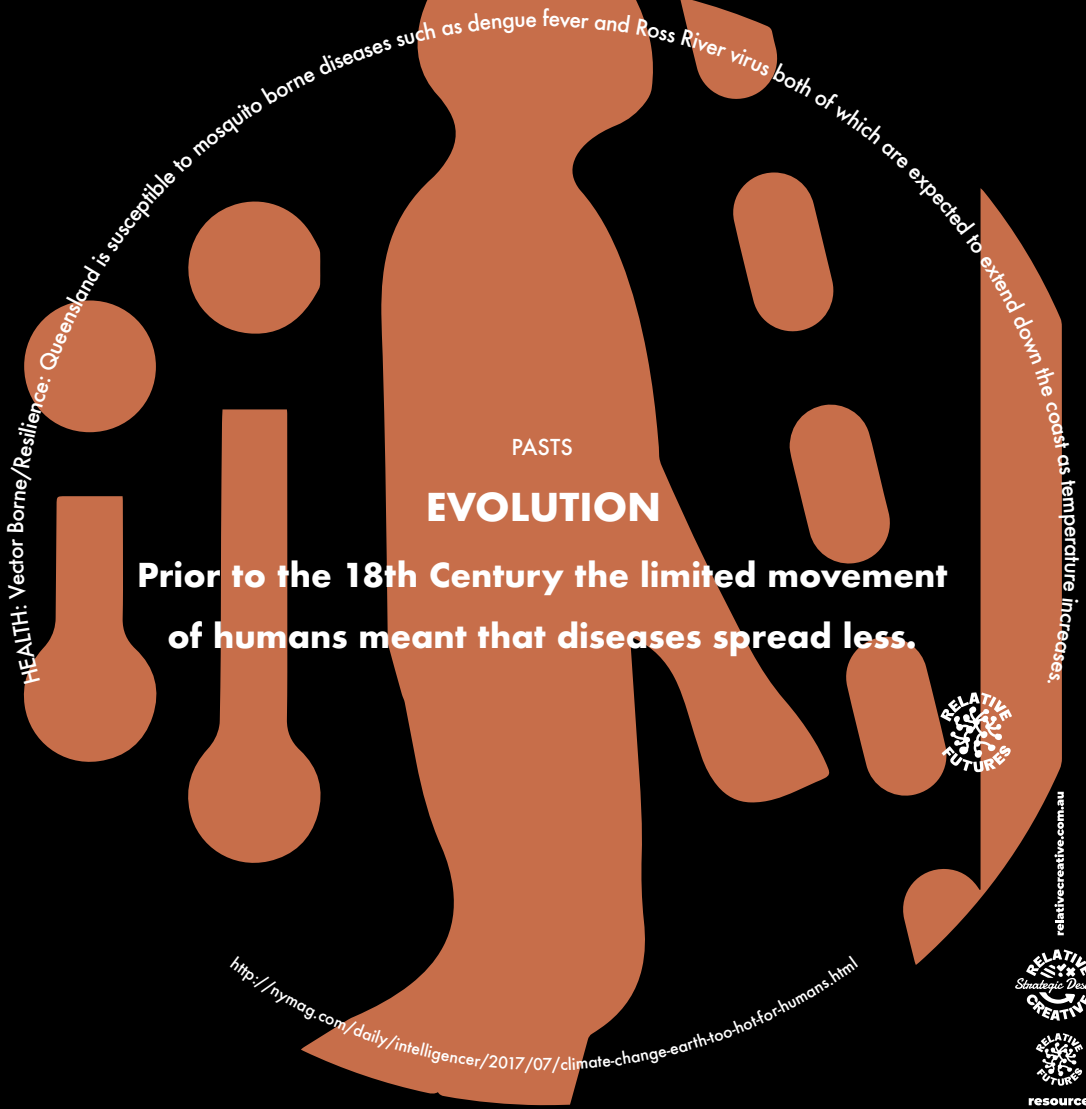


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https://www.brisbane.qld.gov.au/sites/default/files/active_transport_strategy_2012-2026.pdf



resource



HEALTH: Vector Borne/Resilience: Queensland is susceptible to mosquito borne diseases such as dengue fever and Ross River virus both of which are expected to extend down the coast as temperature increases.

PASTS

EVOLUTION

Prior to the 18th Century the limited movement of humans meant that diseases spread less.

<http://nymag.com/daily/intelligencer/2017/07/climate-change-earth-too-hot-for-humans.html>

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RELATIVE CREATIVE

RELATIVE FUTURES

resource

HEALTH: Vector Borne/Resilience: Queensland is susceptible to mosquito borne diseases such as dengue fever and Ross River virus both of which are expected to extend down the coast as temperature increases.

PRESENTS

VECTOR-BORNE

We are seeing climate change transform the distributions of both vectors (e.g. mosquitoes, ticks, sand flies) and vector-borne diseases (e.g. malaria, dengue fever, Ross River virus).



relativecreative.com.au



<https://health2016.globalchange.gov/vectorborne-diseases> and <https://www.climatecouncil.org.au/disease-risk-and-climate-change-what-you-need-to-know>

HEALTH: Vector Borne/Resilience: Queensland is susceptible to mosquito borne diseases such as dengue fever and Ross River virus both of which are expected to extend down the coast as temperature increases.

FUTURES

BIO-TECH

GMO mosquitoes with 'hacked' DNA are used to pass on a lethal gene to any offspring, dramatically reducing mosquito populations.



relativecreative.com.au



<http://nymag.com/scienceofus/2016/02/zika-virus-gmo-mosquitoes.html>

HEALTH: Vector Borne/Resilience: Queensland is susceptible to mosquito borne diseases such as dengue fever and Ross River virus both of which are expected to extend down the coast as temperature increases.

FUTURES

NON-CHEMICAL

As vectors (e.g. mosquitoes) have become resistant to agrochemicals non-chemical techniques such as managing the local ecosystem to remove breeding sites and breeding fish have been developed.



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resource

<http://www.who.int/bulletin/volumes/85/7/06-035600/en/>

HEALTH: Vector Borne/Resilience: Queensland is susceptible to mosquito borne diseases such as dengue fever and Ross River virus both of which are expected to extend down the coast as temperature increases.

FUTURES

HUMAN SHIFTS

As people move more and as our climate becomes hotter we are exposed to a broader range of communicable and vector-borne diseases, forcing our health services to transform.



relativecreative.com.au

<http://nymag.com/daily/intelligencer/2017/07/climate-change-earth-too-hot-for-humans.html>



resource

HEALTH: Communicable/Immunisation: Melting ice, human movement and modern agricultural practices are exposing us to a host of communicable diseases both new and old that will place stress on populations and health services.

PASTS

GERMS

Germs have evolved alongside the domestication of animals. Humans exposed to these germs developed immunity, unexposed communities suffered high death tolls when exposed.



relativecreative.com.au

Diamond, Jared, 2005, *Guns, Germs & Steel*, Vintage, London p.92



resource

HEALTH: Communicable/Immunisation: Melting ice, human movement and modern agricultural practices are exposing us to a host of communicable diseases both new and old that will place stress on populations and health services.

PRESENTS

SUPERBUGS

Bacteria are becoming increasingly resistant to antibiotics making them nearly untreatable. Experts recommend a change in attitude towards the use of antibiotics.

RELATIVE
FUTURES

relativecreative.com.au

<http://www.sbs.com.au/news/article/2017/07/19/more-1000-super-superbug-cases-last-year>

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CREATIVE
Strategic Design

RELATIVE
FUTURES

resource

HEALTH: Communicable/Immunisation: Merging ice, human movement and modern agricultural practices are exposing us to a host of communicable diseases both new and old that will place stress on populations and health services

FUTURES

ADAPTATION

There is much to learn from how Indigenous Australians have adapted to many changes in environmental conditions including shifts to extremely arid conditions and expanding deserts in order to think about how we might adapt to today's rapid climate changes.



<http://www.nature.com/nature/journal/v539/n7628/full/nature20125.html?foxtrotcallback=true>

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resource

HEALTH: Communicable/Immunisation: Melting ice, human movement and modern agricultural practices are exposing us to a host of communicable diseases both new and old that will place stress on populations and health services.

FUTURES

CODING GENES

The development of RNA and DNA coded with plans to make antibodies for specific diseases and then injected to initiate the production of high-performing antibodies provides new ways to battle disease.



relativecreative.com.au

<http://fusion.kinja.com/darpa-thinks-it-has-a-solution-to-ebola-and-all-other-1793846476>



resource

HEALTH: Communicable/Immunisation: Melting ice, human movement and modern agricultural practices are exposing us to a host of communicable diseases both new and old that will place stress on populations and health services.

FUTURES

FRUIT WALLS

Fruit walls are one historic way of extending growing seasons, there are potentially many other viable, unexplored technologies like this that will contribute to successful agriculture.



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resource

<http://www.messynessychic.com/2014/03/04/the-last-peach-orchards-of-paris/>

HEALTH: Communicable/Immunisation: Melting ice, human movement and modern agricultural practices are exposing us to a host of communicable diseases both new and old that will place stress on populations and health services.

PASTS

MACASSAN

For thousands of years Indigenous Australians have had trade relationships between tribes and also with the Macassan people from Sulawesi, Indonesia.



relativecreative.com.au

http://www.myplace.edu.au/decades_timeline/beforetime/decade_landing_24.html?tabRank=2&subTabRank=2



resource

HEALTH: Healing/Mental Health: Climate change not only increases the risks of physiological illness (such as malaria) it also increases psychological stress.

PRESENTS

HEALING

**By denying the violent colonial past of Australia
we cause more harm, out of respect we should
see that no-one is free from the harm this past
has generated in our society.**

Sheehan, Norman, 2003, Indigenous Knowledge and Higher Education: Instigating Relational Education in a Neocolonial Context. PhD in Education, University of Queensland



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resource

FUTURES

HEALTHY COUNTRY

In 2015, Ngadju Conservation developed a Healthy Country Plan which maps out how the Ngadju will build their capacity and skills, working across traditional Ngadju knowledge and culture within a modern outback society. They will care for Ngadju country and work with both modern scientific knowledge and the wisdom of their ancestors.



<https://closingthegap.pmc.gov.au/ngadju-conservation-importance-resilience-and-richness-culture> <https://youtu.be/DxY5CYyqhmM>

relativecreative.com.au



resource

HEALTH: Healing/Mental Health. Climate change not only increases the risks of physiological illness (such as malaria) it also increases psychological stress.

FUTURES

DEADLY DAN

Deadly Dan the Smoke Free Man
carries the message "You smoke, you
choke,". A new fully illustrated book aims to
promote conversation around healthy lifestyle
choices and smoking. The book uses Koori
English words and a culturally-relevant story
for the north-west Melbourne Aboriginal
community.



relativecreative.com.au

<https://closingthegap.pmc.gov.au/deadly-dan-smoke-free-superhero>



resource

HEALTH: Healing/Mental Health. Climate change not only increases the risks of physiological illness (such as malaria) it also increases psychological stress.

PASTS

EAT RIGHT

According to Evelin most Aboriginal medical treatments were derived from food. "A big part of maintaining their health was just eating right," she says.

<https://www.australiangeographic.com.au/topics/history-culture/2011/02/top-10-aboriginal-bush-medicines/>



relativecreative.com.au



resource

HEALTH: Healing/Mental Health: Climate change not only increases the risks of physiological illness (such as malaria) it also increases psychological stress.

PASTS

MEDICINE

Aboriginal people invented countless ways to yield food and bush medicine from Australia's landscape. They used tannins to treat inflammation and alkaloids to relieve pain; extracted antiseptics such as tea tree oil to cure infections; and harvested latex to treat ulcers and skin conditions

<https://www.australiangeographic.com.au/topics/history-culture/2015/03/aboriginal-australian-inventions/>



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resource

HEALTH: Communicable/Immunisation: Melting ice, human movement and modern agricultural practices are exposing us to a host of communicable diseases both new and old that will place stress on populations and health services.

FUTURES

TRADITIONAL HEALTH

**The Autonomous Region of Bougainville,
as a result of the civil war that took place
between 1988 and 1996, redeveloped their
repair practices in order to survive years of
blockades. This extended to repairing their
traditional healthcare and healing practices
to make up for a lack of medical
supplies on the island.**



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resource

The Coconut Revolution, 2001 (FILM)

MOVING: Borders/movement: Borders break down as nation states become less important and mega regions become commonplace.

PASTS

NATION STATES

The creation of modern nation states developed and reinforced the myth of cultural sameness.



relativecreative.com.au

Mignolo, Walter, 2011, *The Darker Side of Western Modernity*, Duke University Press, Durham, NC p.237



resource

MOVING: Borders/movement: Borders break down as nation states become less important and mega regions become commonplace.

PRESENTS

ASSIMILATION

**Calls for assimilation that fail to place value
on other ways of knowing have caused
the deterioration of cultural practices and
contribute to feelings of alienation from the
broader community.**

Speech by Michael Dodson, Aboriginal and Torres Strait Islander Social Justice Commissioner at the H.C. (Nugget) Coombs Northern Australia Inaugural Lecture, Darwin, 5 September 1996



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resource

MOVING: Borders/movement: Borders break down as nation states become less important and mega regions become commonplace.

FUTURES

WAYFINDING

People are able to move themselves around the world using traditional wayfinding techniques from Indigenous populations around the world, including through the use of celestial knowledge.



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<http://voices.nationalgeographic.com/2014/03/03/hokulea-the-art-of-wayfinding-interview-with-a-master-navigator/>



resource

MOVING: Borders/movement: Borders break down as nation states become less important and mega regions become commonplace.

FUTURES

DWELLINGS

There are many examples of Indigenous architecture that may provide useful ways of thinking about designing dwellings for local environments using locally available materials.



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Memmott, Paul, 2007, Ganyah Goondie + Wurley, UQ Press, Brisbane

MOVING: Borders/movement: Borders break down as nation states become less important and mega regions become commonplace

FUTURES

MOBILITY

Indigenous Australia has historic examples
of townships of 1000 or more able to be
disassembled and moved on. Imagine a future
where this is how we deal with changing
climate.

RELATIVE
FUTURES

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Pascoe, Bruce, 2016, Dark Emu, Magabala Books, Broome p.77

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CREATIVE

RELATIVE
FUTURES

resource

MOVING: Conflict/Passageway: Practices such as Australia's 'Pacific Solution' cause psychological damage to refugees housed indefinitely in offshore 'processing centres' further alienating already damaged people and increasing risks of conflict.

PASTS

NO MOVEMENT

Aboriginal & Torres Strait Islanders had their movement around Australia altered and often halted by the settlement patterns of the colonial, pastoral settlers.



relativecreative.com.au

Benterrak, Krim et al. Reading the Country, Fremantle Arts Centre Press, Fremantle p.75



resource

MOVING: Conflict/Passageway: Practices such as Australia's 'Pacific Solution' cause psychological damage to refugees housed indefinitely in offshore 'processing centres' further alienating already damaged people and increasing risks of conflict

PRESENTS

DISPLACEMENT

Climate refugees are being displaced around the world, often through no action on their part.



relativecreative.com.au



resource

<http://www.unhcr.org/en-au/climate-change-and-disasters.html>



FUTURES

CONFLICT

The warming climate has continued to exacerbate conflict through forced migration of large numbers of people, crop failure and general irritability caused by rises in temperature.

MOVING: Conflict/passageway: Practices such as Australia's 'Pacific Solution' cause psychological damage to refugees housed indefinitely in offshore 'processing centres' further alienating already damaged people and increasing risks of conflict.

Campbell, K. M. et al., 2007, The Age of Consequences: The Foreign Policy and National Security Implications of Global Climate Change, Centre for Strategic and International Studies, Washington



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MOVING: Confined/Passageway: Practices such as Australia's 'Pacific Solution' cause psychological damage to refugees housed indefinitely in offshore 'processing centres' further alienating already damaged people and increasing risks of conflict.

FUTURES

NEW SKILLS

**Climate refugees are valued and provided
a viable place in local communities. Host
populations are able to use new skills learnt
from climate refugees.**



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resource

<https://www.ncbi.nlm.nih.gov/pubmed/16680538>

MOVING: Conflict/Passageway: Practices such as Australia's 'Pacific Solution' cause psychological damage to refugees housed indefinitely in offshore 'processing centres' further alienating already damaged people and increasing risks of conflict.

FUTURES

REPAIR KITS

Council 'Emergency Kits' have been transformed. 'Movement kits' help communities deal with the complexities of moving out of the way of disaster (logistically and psychologically).



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resource

MOVING: Climate Induced/Out of the Way: Climate change is already causing human movement in Pacific Nations and the South Asia Delta Region, this will increase as sea levels continue to rise.

PASTS

NOMADIC

**Historically, humans were much more nomadic
making it easy for populations to move out of
the way of disaster.**



relativecreative.com.au



resource

Fagan, Brian, 2004, The Long Summer, Basic Books, New York

MOVING: Climate Induced/Out of the Way: Climate change is already causing human movement in Pacific Nations and the South Asia Delta Region, this will increase as sea levels continue to rise.

PRESENTS

RESETTLING

Coastal erosion and the salination of potable water and agricultural land caused by sea level rise is prompting people and communities to move.

<https://www.nanseninitiative.org/portfolio-item/pacific-conclusions/>

<https://newmatilda.com/2016/04/20/sea-walls-sea-worlds-first-climate-refugees-australia/>



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resource

MOVING: Climate Induced/Out of the Way: Climate change is already causing human movement in Pacific Nations and the South Asia Delta Region, this will increase as sea levels continue to rise.

FUTURES

RELOCATION

Leaving one's own country is the least preferred option; cross-border relocation may negatively impact on nationhood, control over land and sea territory, sovereignty, culture and livelihoods.



relativecreative.com.au

<https://www.nanseninitiative.org/portfolio-item/pacific-conclusions/>



resource

MOVING: Climate Induced/Out of the Way: Climate change is already causing human movement in Pacific Nations and the South Asia Delta Region, this will increase as sea levels continue to rise.

FUTURES

SKILLS SHARE

The skills and knowledge necessary to deal with climate change, but missing from Queensland communities, is identified and matched with communities in the greater Asia-Pacific.

<https://challenges.openIDEO.com/challenge/refugee-education/research/community-skills-sharing-platform> and <http://www.abc.net.au/news/rural/2017-02-24/public-garden-helps-refugees-settle-in-australia/8298198>



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resource

MOVING: Climate Induced Out of the Way: Climate change is already causing human movement in Pacific Nations and the South Asia Delta Region, this will increase as sea levels continue to rise.

FUTURES

RESETTLEMENT

**Programs to support retreat and regenerative
resettlement learn from past resettlement
programs and provide support for incoming
communities to build homes and grow food.**



Filkey, Orrin H. et al. 2016, Retreat from a Rising Sea: Hard Choices in an Age of Climate Change, Columbia University Press, New York

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resource

MOVING: Climate Induced/Out of the Way: Climate change is already causing human movement in Pacific Nations and the South Asia Delta Region, this will increase as sea levels continue to rise.

PRESENTS

MENTAL HEALTH

Leaving your own homeland is always an emotional stress. People are emotionally stressed and emotionally attached to the island. However, they will need to move in the near future, because the sea is not going to stop eroding the shorelines.



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<https://newmatilda.com/2016/04/20/sea-walls-sea-worlds-first-climate-refugees-ask-australias-help/>



resource

MOVING: Climate Indeed / Out of the Way: Climate change is already causing human movement in Pacific Nations and the South Asia Delta Region, this will increase as sea levels continue to rise.

PRESENTS

SAFE GROUND

Cyclones, flooding, landslides, tsunamis, earthquakes or volcanic eruptions cause the displacement of communities. Already, coastal erosion and the salination of fresh water sources and agricultural land associated with sea level rise prompt people to move to safer places or even make the planned relocation of whole villages necessary.



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<https://www.nanseninitiative.org/pacific-consultations-intergovernmental/>



resource

MOVING: Rethinking transport for both urban and rural environments will become increasingly important as the fossil fuel era draws to a close.

PRESENTS

KID MOBILITY

The tiny community of Punmu in the Pilbara has come up with a unique way of getting kids to school and encouraging them to stay the whole day: a train made up of 12 carriages towed by a tractor. "The kids in some cases weren't arriving at school until lunchtime – if at all – and sometimes leaving before the end of the day," John says.



<https://closingthegap.pmc.gov.au/barrelling-towards-solid-education>

relativecreative.com.au



resource

MOVING: Borders / movement: Borders break down as nation states become less important and mega regions become commonplace.

PRESENTS

TRACK WALK

The historic 1966 Wave Hill Walk Off track in the Northern Territory was heritage listed 10 years ago, and interpretive signage and rest areas have been constructed. The track begins at Jinparrak (Old Wave Hill Station) and ends at the gravesite of leader Vincent Lingiari.



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<https://closingthegap.pmc.gov.au/showcasing-historic-wave-hill-walk-site-boost-tourism>



resource

SOCIETY: Seeing Complexity/Hidden Issues: The problems that our societies face are often too big and complex for us to see.

PASTS

RATIONALISM

**Due to their own rationalist worldviews
colonisers were unable to see the value held in
Indigenous Knowledge as a different way to
understand the world.**



relativecreative.com.au



resource

Pascoe, Bruce, 2016, Dark Emu, Magabala Books, Broome

SOCIETY: Seeing Complexity/Hidden Issues: The problems that our societies face are often too big and complex for us to see.

PRESENTS

COMPLEXITY

The effects and complexity of climate change
are incompatible with the stories we tell
ourselves about ourselves, which tend to focus
on personal drama rather than societal scale
problems.



Smicek, N. 2011, 'What We Talked About At ISA: The Decline of Cognitive Mapping (Part II)', <http://thedisorderofthings.com/2011/05/11/what-we-talked-about-at-isa-the-decline-of-cognitive-mapping-part-ii/>

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resource

SOCIETY: Seeing Complexity/Hidden Issues: The problems that our societies face are often too big and complex for us to see.

FUTURES

ECOCALENDAR

**Digital seasonal calendars, created using
Indigenous Australia's extensive and valuable
ecological knowledge about Country,
will continue to help us to lessen our
environmental impact.**



<https://www.csiro.au/en/Research/Environment/Land-management/Indigenous/Indigenous-calendars>

relativecreative.com.au



resource

SOCIETY: Seeing Complexity/Hidden Issues: The problems that our societies face are often too big and complex for us to see.

FUTURES

KINSHIP

Kinship structures are used to help us understand our world in a different way, providing new economic systems and social structures while helping us better understand our local environment.



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resource

Pascoe, Bruce, 2016, Dark Emu, Magabala Books, Broome

SOCIETY: Seeing Complexity/Hidden Issues: The problems that our societies face are often too big and complex for us to see.

FUTURES

SEE CLIMATE

**Indigenous Knowledge provides a new way
of seeing and understanding climate leading to
new, sustainable theories of government and
society.**

Pascoe, Bruce, 2016, Dark Emu, Magabala Books, Broome p136



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resource

SOCIETY: Sharing Economy/Burning Economy: Climate change is expected to have a substantial impact on global economies with every degree of warming predicted to cost, on average, 1.2 percent of GDP.

PASTS

HUMAN SCALE

Because of the technologies available our towns and cities of the past were constructed at a human scale making them easy to enjoy on foot.

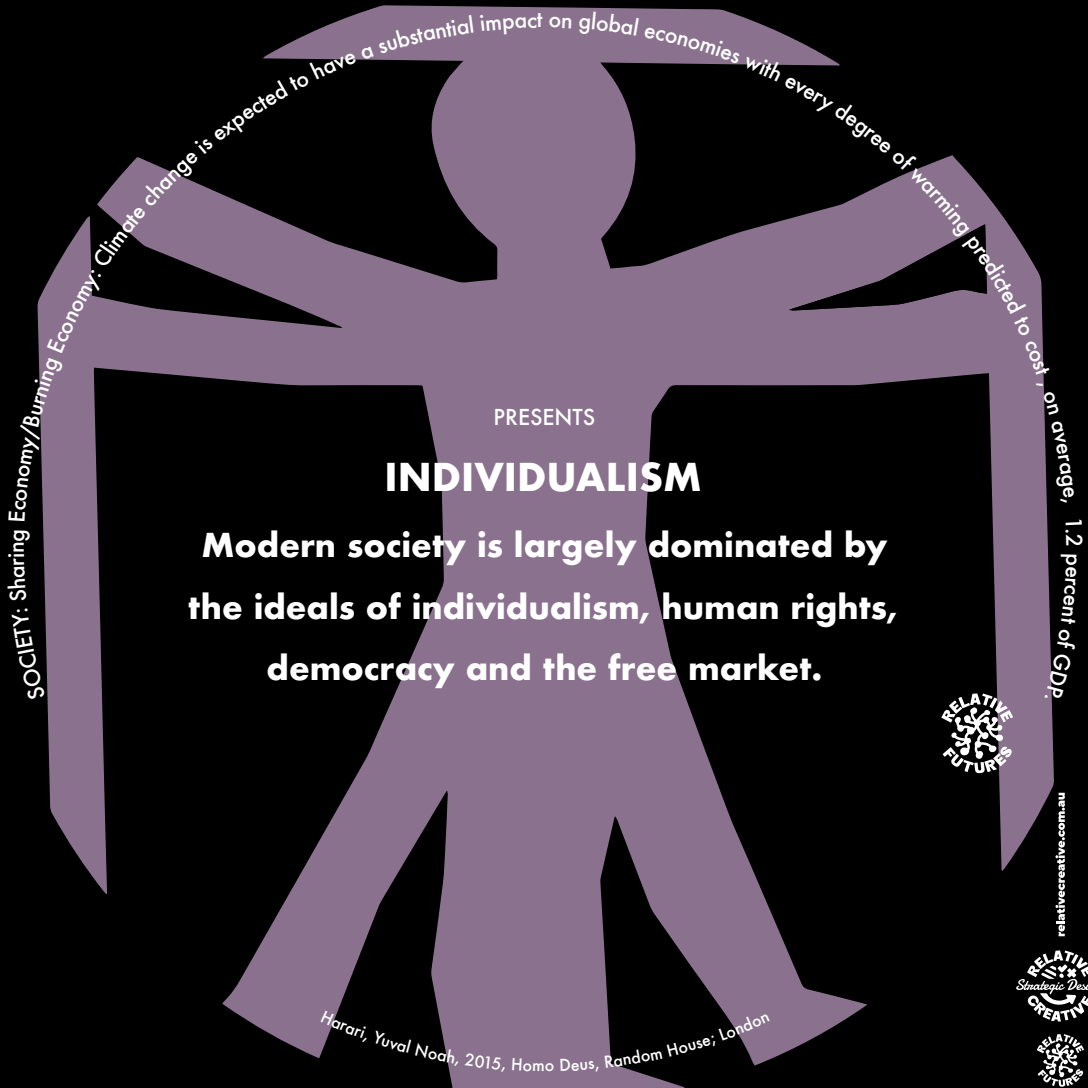
<http://blogs.worldbank.org/sustainablecities/human-scale-public-urban-areas>



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resource



SOCIETY: Sharing Economy/Burning Economy: Climate change is expected to have a substantial impact on global economies with every degree of warming predicted to cost, on average, 1.2 percent of GDP.

PRESENTS

INDIVIDUALISM

**Modern society is largely dominated by
the ideals of individualism, human rights,
democracy and the free market.**



relativecreative.com.au



resource

Harari, Yuval Noah, 2015, Homo Deus, Random House, London

SOCIETY: Sharing Economy/Burning Economy: Climate change is expected to have a substantial impact on global economies with every degree of warming predicted to cost, on average, 1.2 percent of GDP.

FUTURES

SURVEILLANCE

"Surveillance capitalism", sees the monetization of free data acquired through surveillance and sold on to entities and businesses that have an interest in your future behaviour.

<http://www.faz.net/aktuell/feuilleton/debatten/the-digital-debate/shoshana-zuboff-secrets-of-surveillance-capitalism-14103616.html>



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SOCIETY: Sharing Economy/Burning Economy: Climate change is expected to have a substantial impact on global economies with every degree of warming predicted to cost, on average, 1.2 percent of GDP.

FUTURES

SHARING

The sharing economy has continued to transform and communities have become better at sharing a wide range of items reducing the need to produce new products in such large quantities.



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resource

<http://design.cmu.edu/node/1986> <https://vimeo.com/50207792>

SOCIETY: Sharing Economy/Burning Economy: Climate change is expected to have a substantial impact on global economies with every degree of warming predicted to cost, on average, 1.2 percent of GDP.

FUTURES

THE COMMONS

'The commons' learns from Aboriginal co-operative governance and conservative responsible economic practice and provides a template for new economic systems and social structures.



relativecreative.com.au

Pascoe, Bruce, 2016, Dark Emu, Magabala Books, Broome



resource



SOCIETY: Post-Human/Human: Proponents of technology are increasingly pushing for humans to be technologically enhanced with smart phones, brain implants and merges with superintelligent computers bringing into question what it means to be human.

PASTS

CONTINUITY

**Indigenous Australians have lived in Australia
for over 65,000 years making Indigenous
culture the oldest continuous culture in the
world.**

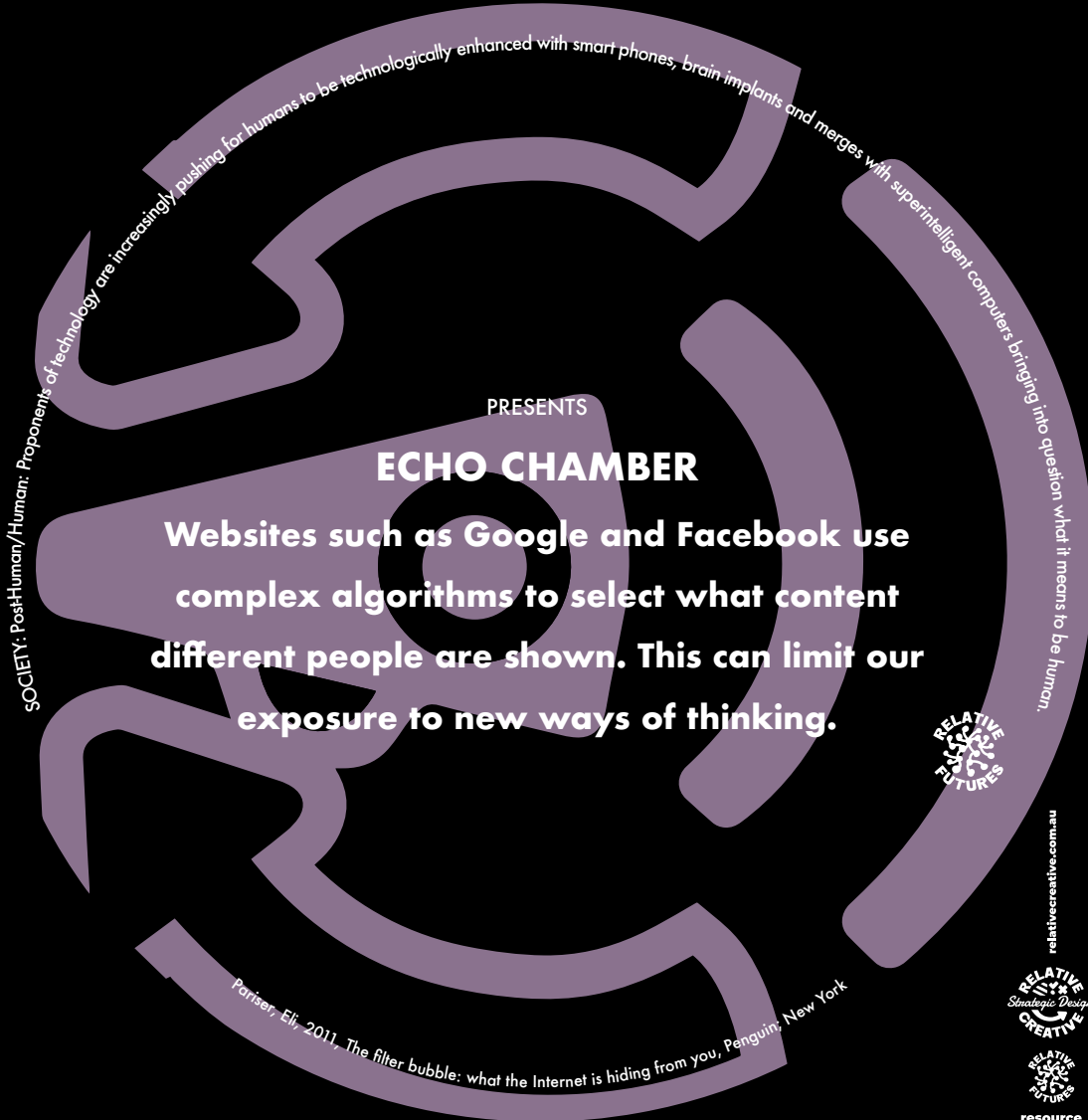
<https://www.nature.com/articles/nature22968>



relativecreative.com.au



resource



SOCIETY: Post-Human/Human: Proponents of technology are increasingly pushing for humans to be technologically enhanced with smart phones, brain implants and merges with superintelligent computers bringing into question what it means to be human.

PRESENTS

ECHO CHAMBER

Websites such as Google and Facebook use complex algorithms to select what content different people are shown. This can limit our exposure to new ways of thinking.

Pariser, Eli, 2011, *The filter bubble: what the Internet is hiding from you*, Penguin, New York



relativecreative.com.au



resource

SOCIETY: Post-Human/Human: Proponents of technology are increasingly pushing for humans to be technologically enhanced with smart phones, brain implants and merges with superintelligent computers bringing into question what it means to be human.

FUTURES

DEEP A.I

Deep learning, a form of artificial intelligence, has developed in leaps and bounds allowing computers to do much more than recognise images and translate speech.

<https://www.wired.com/2016/01/microsoft-neural-net-shows-deep-learning-can-get-way-deeper/>



relativecreative.com.au



resource

SOCIETY: Post-Human/Human: Proponents of technology are increasingly pushing for humans to be technologically enhanced with smart phones, brain implants and merges with superintelligent computers bringing into question what it means to be human.

FUTURES

SOCIAL SPACE

Our homes and spaces draw on Indigenous understandings of space such as what is 'in-between' in order to encourage engagement with the natural world and stronger social bonds.



relativecreative.com.au



resource

Memmott, Paul, 2007, Gonyah Goondie + Wurley, UQ Press; Brisbane

SOCIETY: Post-Human/Human: Proponents of technology are increasingly pushing for humans to be technologically enhanced with smart phones, brain implants and merges with superintelligent computers bringing into question what it means to be human.

FUTURES

HUMAN MINDS

The Indigenous idea of collective spiritual identity helps place value on human cognition in the face of the increasing presence of digital technology and Artificial Intelligence.



relativecreative.com.au

Graham, Mary. 2007. "Introduction to Kummara Conceptual Framework: A Discourse on a Proposed Aboriginal Research Methodology"

Introduction to Kummara Conceptual Framework: A Discourse on a Proposed Aboriginal Research Methodology



resource

SOCIETY: PostHuman/Human: Proponents of technology are increasingly pushing for humans to be technologically enhanced with smart phones, brain implants and merges with superintelligent computers bringing into question what it means to be human.

FUTURES

JOB LOSSES

The Fourth Industrial Revolution is set to cause major disruptions to the workforce with many jobs becoming automated and a huge change in skills sets for workers becoming necessary.



<https://www.weforum.org/press/2016/01/five-million-jobs-by-2020-the-real-challenge-of-the-fourth-industrial-revolution>

relativecreative.com.au



resource

SOCIETY: PostHuman/Human: Proponents of technology are increasingly pushing for humans to be technologically enhanced with smart phones, brain implants and merges with superintelligent computers bringing into question what it means to be human.

FUTURES

DATAISM

Dataism has replaced humanism; the belief that the universe consists of data flows and determines the value of an entity by its contribution to data processing dominates 'humans' worldview.



relativecreative.com.au



resource

Harari, Yuval Noah, 2015, Homo Deus, Penguin; London

SOCIETY

PRESENTS

INDIGENOUS BUSINESS

Bradshaw and Timber Creek Contracting and Resource Company has grown to become a key employer and service provider in Timber Creek. The business employs 12 to 15 full-time Aboriginal workers and offers a range of services, from civil works to quarry services, trades and related services, and facilities and waste management.



<https://closingthegap.pmc.gov.au/indigenous-timber-creek-business-leading-local-employer-and-service-provider>

relativecreative.com.au



resource

SOCIETY: Watched/Watcher" Digital technologies and the companies behind them increasingly impact on our society in ways that governments are not keeping in check.

PRESENTS

AMAZON

Amazon's ambition goes far beyond dominating markets," says Stacy Mitchell, an economics researcher and co-director of the Institute for Local Self-Reliance. "Its intention is to control the basic infrastructure that commerce runs on."



<https://medium.com/s/2069/amazon-is-becoming-more-powerful-than-you-realize-2093d6880886>

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resource

SOCIETY: Watched/Watcher" Digital technologies and the companies behind them increasingly impact on our society in ways that governments are not keeping in check.

FUTURES

WATCHING

Digital technology is separating the citizens in all societies into two groups: the watchers and the watched: the goal is to automate us.

https://www.theguardian.com/technology/2019/jan/20/shoshana-zuboff-age-of-surveillance-capitalism-google-facebook&CMP=Share_iOSApp_Other



relativecreative.com.au



resource

SOCIETY: Seeing Complexity/Hidden Issues: The problems that our societies face are often too big and complex for us to see.

PRESENTS

DOOMSDAY

**The Doomsday Clock is at its closest point to
midnight since 1953.**



<https://www.theguardian.com/us-news/2017/jan/26/doomsday-clock-closer-to-midnight-in-wake-of-donald-trump-election>

relativecreative.com.au



resource

SOCIETY: Watched/Watcher" Digital technologies and the companies behind them increasingly impact on our society in ways that governments are not keeping in check.

PRESENTS

DIGITAL DIVIDE

Income inequality results in disproportionately low broadband deployment in communities of color; in rural areas, there is even more at play than income disparity, with a consistent digital divide that is apparently based on race and ethnicity alone.



https://motherboard.vice.com/en_us/article/aek85p/systemic-racial-discrimination-worsens-the-us-digital-divide-study-says

relativecreative.com.au



resource

SOCIETY: New/Old: Around the world Indigenous Knowledge is increasingly being seen as valuable to provide an alternative to current Western models of thinking which are increasingly unsustainable.

PASTS

MABO

**3rd June 1992 was a significant day in
Australian history marking the landmark
Mabo High Court decision that overturned the
doctrine of Terra Nullius.**



relativecreative.com.au

<https://closingthegap.pmc.gov.au/celebrations-25th-anniversary-landmark-mabo-high-court-decision>



resource

SOCIETY: New/Old. Around the world Indigenous Knowledge is increasingly being seen as valuable to provide an alternative to current Western models of thinking which are increasingly unsustainable

FUTURES

TACTICAL PROJECT

Flexible and small scale, often temporary and with limited budgets, tactical projects take advantage of “chance offerings” — public spaces, empty lots, municipal loopholes. They deploy fleetness and mobility.



relativecreative.com.au

https://placesjournal.org/article/the-interventionists-toolkit-project-map-occupy/?cn-reloaded=1#ref_5



resource

SOCIETY: New/Old. Around the world Indigenous Knowledge is increasingly being seen as valuable to provide an alternative to current Western models of thinking which are increasingly unsustainable

PRESENTS

ZAPATOURISMO

**Tourism has been strategically incorporated
into Zapatista tactics of resistance against
exploitative national and international policies
it becomes a space to rewrite the terms of
indigenous difference and national inclusion.**



<http://hemisphericinstitute.org/hemi/en/su10-tourism/item/878-su10-critical-intro-zapatourismo>

relativecreative.com.au



resource

SOCIETY

PRESENTS

KOORI JUSTICE

**For over 17 years the Koori Caucus and
Koori Justice Unit in Victoria have embraced
community-driven innovation to work toward a
justice system that is free from inequality**



relativecreative.com.au



resource

<https://www.tacsi.org.au/work/the-koori-caucus-leading-the-way-in-justice-innovation-and-systemic-solutions/>

SOCIETY

PRESENTS

CAREERS

CareerTrackers, creates internship opportunities for Indigenous university students. Ninety-four per cent of CareerTrackers' interns complete their university studies, compared with 63 per cent for Australian students in general and 40 per cent for Aboriginal and Torres Strait Islander students. Of these, 89 per cent convert into full-time graduate employment upon completion of their university degree.

<https://closingthegap.pmc.gov.au/todd-crawford-engineering-his-own-career/>



relativecreative.com.au



resource

SOCIETY: New/Old. Around the world Indigenous Knowledge is increasingly being seen as valuable to provide an alternative to current Western models of thinking which are increasingly unsustainable

PRESENTS

LAND RIGHTS

The Guncyangara lease provides the first example of how a sustainable, local Aboriginal corporation can hold and administer a township lease to strengthen local decision-making and enable Traditional Owners to leverage their land assets for economic and community benefit.



relativecreative.com.au

<https://closingthegap.pmc.gov.au/community-benefits-guncyangara-community-entity-township-lease>



URBAN: The design of our urban environment effects the way we live and behave within that environment.

PRESENTS

EMPLOYMENT

The first Indigenous manager for Outback Stores, Amelita manages the Bagala store, which is an all-Indigenous-run store with eight Indigenous staff, something the Barunga community and Outback Stores are both proud of.



<https://closingthegap.pmc.gov.au/outback-stores-good-community-health-good-economy>

relativecreative.com.au



resource

URBAN: The design of our urban environment effects the way we live and behave within that environment.

FUTURES

NOMADIC TENT

**Housing inspired by the tents of nomadic
Bedouin provides an interesting example of how
Indigenous architecture could inspire housing.**



http://www.1millionwomen.com.au/blog/weaving-home-how-one-woman-can-help-millions-people-globally/#_VerAJz30mcc facebook

relativecreative.com.au



resource

URBAN: The design of our urban environment effects the way we live and behave within that environment.

PASTS

STONEMWORK

**Much older than Stonehenge, the
'Nawarla Gabarnmung' Stone monument
in Arnhem land Australia is 50,000 years old.
The work completed at Gabarnmung by these
ancient engineers may not have required the
precise mathematics to build a great pyramid,
but still valued math and the intelligent
knowledge of working with stone for
a great length of time.**



<https://originalpeopleonline.com/2018/11/12/is-this-the-oldest-stone-mason-work-in-the-world/>

relativecreative.com.au



resource

URBAN: The design of our urban environment effects the way we live and behave within that environment.

PASTS

PATHWAYS

Many of Sydney's roads and side streets are based on the original tracks and pathways created by Aboriginal people before the First Fleet arrived in 1788, experts say.



relativecreative.com.au

Irish, Paul, 2017, Hidden in Plain view: The Aboriginal People of Coastal Sydney, NewSouth Publishing



resource

WATER: Flooding/Drought: Occurrences of extreme flooding and drought have become common; this makes it difficult to continue living in our cities in the same way that we currently do.

PASTS

HOUSE BOAT

Floating houses have historically been used in places like Seattle, USA and Amsterdam in the Netherlands, to make the most of local rivers and canals.



relativecreative.com.au

<https://theconversation.com/living-with-water-four-buildings-that-will-withstand-flooding-235361>



resource

WATER: Flooding/Drought: Occurrences of extreme flooding and drought have become common; this makes it difficult to continue living in our cities in the same way that we currently do.

PRESENTS

CLOSED LOOP

A new neighbourhood in Amsterdam is being designed to be a closed loop, self-sufficient community. Rainwater is channelled into an aquaponic system and to seasonal gardens that grow food.



<https://www.inverse.com/article/16157-amsterdam-suburb-wants-to-be-the-closed-loop-community-of-the-future>

relativecreative.com.au



resource

WATER: Flooding/Drought: Occurrences of extreme flooding and drought have become common; this makes it difficult to continue living in our cities in the same way that we currently do.

FUTURES

LESS WATER

We have learnt from the Bedouin, semi-nomadic desert dwellers in Arabia and Syria, how to survive on less water each day. On average Bedouin use 15 litres of water per day.



<http://www.undp.ps/en/newsroom/publications/pdf/other/factsbedouin07.pdf>

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resource



WATER: Flooding/Drought: Occurrences of extreme flooding and drought have become common; this makes it difficult to continue living in our cities in the same way that we currently do.

FUTURES

NEW TOILETS

Self-composting toilets have become normal in households around Queensland as a way of reducing the water used during drought or times of less water.



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resource

<https://undp.exposure.co/water-water-everywhere>

WATER: Flooding/Drought: Occurrences of extreme flooding and drought have become common; this makes it difficult to continue living in our cities in the same way that we currently do.

FUTURES

STORM WATER

Storm-water harvesting has become commonplace with people catching water from their roofs and using it around the home and to water their gardens.



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resource

Pascoe, Bruce, 2016, Dark Emu, Magabala Books, Broome p.77

WATER: Dirty/Clean: Activities such as mining, manufacturing and farming have caused serious pollution to our water, as has the individual action of littering.

PASTS

AQUEDUCTS

The Romans used aqueducts to source clean water and bring it into the city. The cleanest water was used for cooking and drinking, the least clean water for industry.



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resource

<http://www.bbc.co.uk/schools/primaryhistory/romans/technology/>

WATER: Dirty/Clean: Activities such as mining, manufacturing and farming have caused serious pollution to our water, as has the individual action of littering.

PRESENTS

POLLUTED

300 million tonnes of polluted waste, from activities such as manufacturing and mining, is deposited into water around the world each year by industry.



relativecreative.com.au



resource

https://issuu.com/griffithuniversity/docs/griffith_magazine_2016

WATER: Dirty/Clean: Activities such as mining, manufacturing and farming have caused serious pollution to our water, as has the individual action of littering.

FUTURES

PLANT TREES

Strategically planting more trees such as paperbark, eucalyptus, she-oak pine and ground cover has helped to purify the land and filter water before it hits our gullies and streams.



Uncle Joseph William Kirk, Aboriginal Elder, 2015, Brisbane City Council, Water Smart Strategy, Brisbane City Council, Brisbane

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resource

WATER: Dirty/Clean: Activities such as mining, manufacturing and farming have caused serious pollution to our water, as has the individual action of littering.

FUTURES

REEF DEATH

**Agricultural pesticides and warming waters
have caused severe damage to the Great
Barrier Reef, killing off large areas of coral.**



http://www.gbrrmpa.gov.au/_data/assets/pdf_file/0016/14308/GBRMPA-ExtremeWeatherAndTheGBR2010-11.pdf

relativecreative.com.au



resource

WATER: Dirty/Clean: Activities such as mining, manufacturing and farming have caused serious pollution to our water, as has the individual action of filtering.

FUTURES

RAIN GARDEN

Raingardens have become commonplace in our cities. They use native plants and free draining soils to capture, filter and treat pollutants typically found in stormwater.

<https://www.brisbane.qld.gov.au/environment-waste/water/water-smart-homes/outdoor-ideas/raingarden>



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resource

WATER: Salination / Agriculture: Sea level rise has led to the salination and degradation of agricultural land, making it harder to produce food.

PASTS

AGROFORESTRY

Agroforestry is farming that incorporates trees into the farm for the benefit of the other crops or animals being grown. It has been practiced globally since ancient times.



relativecreative.com.au

<http://www.fao.org/forestry/agroforestry/89997/en/>



resource

WATER: Salinization / Agriculture: Sea level rise has led to the salinization and degradation of agricultural land, making it harder to produce food.

PRESENTS

INDUSTRY USE

The agricultural industry accounts for 62% of
water usage in Australia.



relativecreative.com.au



resource

Australian Bureau of Statistics 2017, Water Account, Australia, 2015-16

WATER: Salinization / Agriculture: Sea level rise has led to the salination and degradation of agricultural land, making it harder to produce food.

FUTURES

EAT INSECTS

Eating insects has become a common source of protein around the world as it becomes harder to grow grain to feed cattle, chickens, sheep and pigs.



relativecreative.com.au



resource

www.bbc.com/news/magazine-18813075

WATER: Salination / Agriculture: Sea level rise has led to the salination and degradation of agricultural land, making it harder to produce food.

FUTURES

VERTICAL FARM

Vertical surfaces are commonly used to grow food. Vertical gardens provide another way for people to grow their own food in an urban environment.



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<http://www.urbanagriculture.org.au/information/design-systems/vertical-gardens/>



resource

WATER: Salination/Agriculture: Sea level rise has led to the salination and degradation of agricultural land, making it harder to produce food.

FUTURES

FARM DUCKS

Rice duck farming raises ducks on rice paddies where they feed on pests and weeds. This means the farmer doesn't have to use chemical pesticides or herbicides.

<http://www.greenpeace.org/eastasia/news/blog/how-ancient-chinese-farmers-had-it-right-all./blog/38534/>



relativecreative.com.au



resource

WATER: Dirty/Clean: Activities such as mining, manufacturing and farming have caused serious pollution to our water, as has the individual action of littering.

PASTS

WEIRS & TRAPS

Aboriginal people demonstrated a sophisticated understanding of engineering, physics and aquaculture in the design of elaborate stone fish traps and eel farms. They made these fish farms by creating complex systems of canals, linked weirs and ponds out of river stones. Lake Condah shows evidence of a very large, settled community that harvested and smoked eels to trade.

<https://www.australiangeographic.com.au/topics/history-culture/2015/03/aboriginal-australian-inventions/>



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resource

WAYS OF KNOWING: Knowledge / Colonised / Indigenous Ways of knowing were delegitimised or erased by colonialism but the knowledge held provides a different way to see the world that has futuring potential.

PASTS

DIDGERIDOO

The didgeridoo, traditionally played by men in ceremony, is thought to be the world's oldest wind instrument. A termite-hollowed didgeridoo tends to be wider in diameter at the bottom, which creates unusual resonant frequencies. The vocalisations and circular breathing technique required to play it initiate sound wave interactions between the players' lips and vocal tract, and within the instrument itself.



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<https://www.australiangeographic.com.au/topics/history-culture/2015/03/aboriginal-australian-inventions/>



resource

WAYS OF KNOWING: Knowledge/Colonised: Indigenous Ways of Knowing were de legitimised or erased by colonialism but the knowledge held provides a different way to see the world that has futuring potential.

PASTS

STONE TOOLS

Stone and natural glass were fashioned into chisels, saws, knives, axes and spearheads. Stone tools were used for hunting, carrying food, for making ochre, nets, clothing, baskets and more. Aboriginal people are thought to be one of the first to use stone tools to grind seeds, and the first to create ground edges on stone tools.



<https://www.australiangeographic.com.au/topics/history-culture/2015/03/aboriginal-australian-inventions/>

relativecreative.com.au



resource



WAYS OF KNOWING: Knowledge Colonised: Indigenous Ways of Knowing were delegitimised or erased by colonialism but the knowledge held provides a different way to see the world that has futuring potential.

PASTS

INDIG. RESIN

Aboriginal people made a powerful thermoplastic resin from porcupine grass and grass trees. They beat the resin out of the grass, then cleaned it and heated it over fire to create a sticky black substance. The resulting resin hardened as it cooled and was strong enough to bind rock to wood. This resin was used to create tools such as spears, woomeras and axes.



<https://www.australiangeographic.com.au/topics/history-culture/2015/03/aboriginal-australian-inventions/>

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resource

WAYS OF KNOWING: Knowledge/Colonised/Indigenous Ways of Knowing were delegitimised or erased by colonialism but the knowledge held provides a different way to see the world that has future potential.

PRESENTS

ID KNOW YOURSELF

Isaiah Dawes, from the Butchulla and Garawa clans, has used his foster care experience to establish ID Know Yourself. Designed to ensure all Aboriginal and Torres Strait Islander young people in out-of-home care in New South Wales have access to their culture, support and assistance they need to live safe, happy and fulfilling lives.



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resource

<https://closingthegap.pmc.gov.au/isaiah-dawe-and-id-know-yourself>

WAYS OF KNOWING: Digital technology provides both an opportunity and a threat to Indigenous Ways of Knowing and Indigenous populations broadly.

PASTS

FIRST NATIONS TECH

Today we see First Nations technology like the Boomerang used in modern technology like the Mars drone, to the propeller of ships. In fact, Indigenous knowledge led the way for the maritime and aviation industries and put Australia ahead in science and innovation, yet there was no consideration of how that Knowledge would or should be used.



relativecreative.com.au

<http://www.indigihack.com/blog/could-decolonising-stem-provide-a-solution-to-sustaining-our-world/>



resource

WAYS OF KNOWING: Digital technology provides both an opportunity and a threat to Indigenous Ways of Knowing and Indigenous populations broadly.

PRESENT

RACIST IT

In 2016 Google's photo app was classifying images of black people as gorillas. Google apologized; it was unintentional. Similar errors have emerged in Nikon's camera software, which misread images of Asian people as blinking, and in Hewlett-Packard's web camera software, which had difficulty recognizing people with dark skin tones.



relativecreative.com.au

https://www.nytimes.com/2016/06/26/opinion/sunday/artificial-intelligences-white-guy-problem.html?_r=0



resource

WAYS OF KNOWING: Knowledge/Colonised/Indigenous Ways of Knowing were delegitimised or erased by colonialism but the knowledge held provides a different way to see the world that has futuring potential.

PRESENTS

TALKING CIRCLE

Through ceremony and spiritual guidance, the Seventh Generation Initiative, a grass-roots phenomenon led by Indigenous women and youth, is based on love for the the land, the water and the future generations of all species. Based on the traditional modes of indigenous council, the Talking Circle is a structured dialogue centred around significant questions of concern.



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resource

<https://friendsof7th.org/2017/09/20/initiative/>

WAYS OF KNOWING: Knowledge/Colonised/Indigenous Ways of knowing were deligitimised or erased by colonialism but the knowledge held provides a different way to see the world that has futuring potential.

PRESENTS

MUNGO MAN

Mungo Man has been instrumental in increasing people's understanding of how long First Australians have lived on the continent. As one of the oldest remains ever found anywhere in the world, Mungo Man also represents one of the most important contributions to our knowledge of human history on earth. It is significant, not only to Australia but the world.



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<https://closingthegap.pmc.gov.au/mungo-man-returned-country>



resource

WAYS OF KNOWING: Knowledge Colonised. Indigenous Ways of Knowing were delegitimised or erased by colonialism but the knowledge held provides a different way to see the world that has future potential.

PRESENTS

USING IK

**World Network of Indigenous Peoples and
Local Community Land and Sea Managers :
Facilitate peer-to-peer learning and knowledge
exchange between various communities.**



relativecreative.com.au



resource

<http://www.winism.net/exchanges/>

WAYS OF KNOWING: Digital technology provides both an opportunity and a threat to Indigenous Ways of Knowing and Indigenous populations broadly.

PRESENTS

INTERNET

More than 60 percent of the world's population remains offline with Internet access noticeably higher in advanced economies. Speaking English is a significant factor determining whether someone makes use of the web.



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resource

<https://beatricemartini.it/blog/decolonizing-technology-reading-list/>

CLIMATE: Living Reef Bleached Coral: There is increasing concern over the effects climate change will have on the Great Barrier Reef and its unique ecosystem.

PASTS

REEF TRADE

Torres Strait Islanders travelled through the reef's waters for trade with mainland Aboriginal groups along the east coast, as well as to collect resources for everyday life.



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http://www.mesa.edu.au/seaweeek2010/fact_sheet34.asp

CLIMATE: Living Reef/Bleached Coral. There is increasing concern over the effects climate change will have on the Great Barrier Reef and its unique ecosystem.

PRESENTS

DEAD REEF

Over 90% of the Great Barrier Reef shows evidence of bleaching since a 2016 heatwave that saw sea temperatures reach record levels, triggering the most damaging bleaching event on record.



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resource

<https://www.nature.com/articles/nature21707>

CLIMATE: Living Reef/Bleached Coral: There is increasing concern over the effects climate change will have on the Great Barrier Reef and its unique ecosystem.

FUTURES

KNOWLEDGE

**The Reef 2050 Long Term Sustainability Plan
Indigenous Implementation Plan recognise the
benefit of utilising local knowledge to help
preserve the reef.**



relativecreative.com.au

<http://www.environment.gov.au/marine/gbr/publications/reef-2050-indigenous-implementation-plan>



resource

CLIMATE: Living Reef/Bleached Coral: There is increasing concern over the effects climate change will have on the Great Barrier Reef and its unique ecosystem.

FUTURES

ARTIFICIAL

Artificial reefs have been introduced in key locations as a way to create new habitats for fish and other sea-life.



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<http://www.dpi.nsw.gov.au/fishing/recreational/resources/artificial-reef>



resource

CLIMATE: Living Reef/Bleached Coral: There is increasing concern over the effects climate change will have on the Great Barrier Reef and its unique ecosystem.

FUTURES

PATTERNS

By using Indigenous Knowledge alongside scientific monitoring we are able to get a much better understanding of the movement patterns of coastal life, making it easier to protect and preserve.

<http://www.abc.net.au/am/content/2008/s2451908.htm>



relativecreative.com.au



resource

CLIMATE: Big Drought/Bushfires: Bushfires are expected to increase in number and intensity as Queensland becomes warmer and drier. Increased heat and bushfires will have a predominantly negative affect on Queensland's biodiversity and agriculture.

PASTS

FIRE CONTROL

Pre-1788 the Indigenous populations of Australia managed the land using techniques such as fire control. Fire was managed to shape the environment for the local populations needs.



relativecreative.com.au

Gammage, Bill, 2011, The Biggest Estate on Earth, Allen & Unwin; Sydney



resource

CLIMATE: Big Drought/Bushfires: Bushfires are expected to increase in number and intensity as Queensland becomes warmer and drier. Increased heat and bushfires will have a predominantly negative affect on Queensland's biodiversity and agriculture.

PRESENTS

LAWN FREE

Reducing the lawn area of our yards saves water and provides opportunity to increase biodiversity through the planting of native plants or creating space for urban agriculture.



relativecreative.com.au



resource

<http://www.yourhome.gov.au/water/outdoor-water-use>

CLIMATE: Big Drought/Bushfires: Bushfires are expected to increase in number and intensity as Queensland becomes warmer and drier. Increased heat and bushfires will have a predominantly negative affect on Queensland's biodiversity and agriculture.

FUTURES

RANGERS

The Indigenous Rangers: Working on Country programs build on Indigenous knowledge to protect and manage land and sea country, creating meaningful employment.



relativecreative.com.au



resource

<https://www.pmc.gov.au/indigenous-affairs/environment/indigenous-rangers-working-country>

CLIMATE: Big Drought/Bushfires: Bushfires are expected to increase in number and intensity as Queensland becomes warmer and drier. Increased heat and bushfires will have a predominantly negative affect on Queensland's biodiversity and agriculture.

FUTURES

VERNACULAR

**Learning from Indigenous architecture
dwellings designed to be moved to make the
most of seasonal crops and move out of the
way of fire, drought and other dangers.**



relativecreative.com.au

Mammott, Paul, 2007, Ganyah Goondie + Wurley, UQ Press, Brisbane, p.11



resource

CLIMATE: Big Drought/Bushfires: Bushfires are expected to increase in number and intensity as Queensland becomes warmer and drier. Increased heat and bushfires will have a predominantly negative affect on Queensland's biodiversity and agriculture.

FUTURES

URMADIC CITY

**Urmadic cities are both urban and nomadic.
They are designed to move out of the way of
climatic disasters (such as bushfire and drought)
and conflict as well as to find new sources of
food.**



relativecreative.com.au

Fry, Tony, 2015, City Futures in the Age of a Changing Climate, Routledge, Oxon p. 107



resource

CLIMATE: Salination/Rain water: Sea level rise in coastal Queensland will cause salt-water intrusion and inundation in some Torres Strait Islands.

PASTS

ICE AGE

Climate and the way it has changed in the past. Ice Age's (including the 1300-1850 Little Ice Age) and long periods or warm periods have forced adaptation to survive affecting human civilisation.

RELATIVE
FUTURES

Fagan, Brian, 2004, The Long Summer, Basic Books; New York and Fagan, Brian, 2000, The Little Ice Age, Basic Books, New York

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CLIMATE: Salination/Rain water: Sea level rise in coastal Queensland will cause salt-water intrusion and inundation in some Torres Strait Islands.

PRESENTS

GLACIAL MELT

NASA's former lead climate scientist, and 16 co-authors, conclude that glaciers in Greenland and Antarctica will melt 10 times faster than previous estimates, resulting in sea level rise of at least 3 metres.



http://www.slate.com/blogs/the_slatery/2015/07/20/sea_level_study_james_hansen_issues_dire_climate_warning.html?wpsrc=share_dtl_dt_tw_top

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FUTURES

RAIN HARVEST

Rainwater harvesting is a low cost method of collecting rainwater. It provides clean water that irrigates fields, sustains livestock and can be used for drinking.



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<http://www.barefootcollege.org/solutions/water-solutions/>

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FUTURES

STILT HOUSES

Architectural designs such as stilt houses are one way of adapting to flooding and are used in Queensland as well as in countries such as the Netherlands and Cambodia.



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Brisbane City Council, 2015, Water Smart Strategy, Brisbane City Council, Brisbane



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FUTURES

RETREAT PLAN

We have learnt from the original retreat plans of countries such as Tuvulu and Kiribati and designed new ways to successfully retreat from rising sea levels.



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<http://onlinelibrary.wiley.com/doi/10.1002/app5.7/full>

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PRESENTS

HUMANISM

In the rift between science and religion that began 500 years ago, science won, in the form of humanism. This influences our daily lives including the way state (government) and church are separate.



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Harari, Yuval Noah, 2015, Homo Deus, Penguin; London

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FUTURES

HYPERREALITY

Culture, including Indigenous cultures, and nature (upon which human cultures depend) has become commodified, enslaved and turned into technocentric hyperrealities.

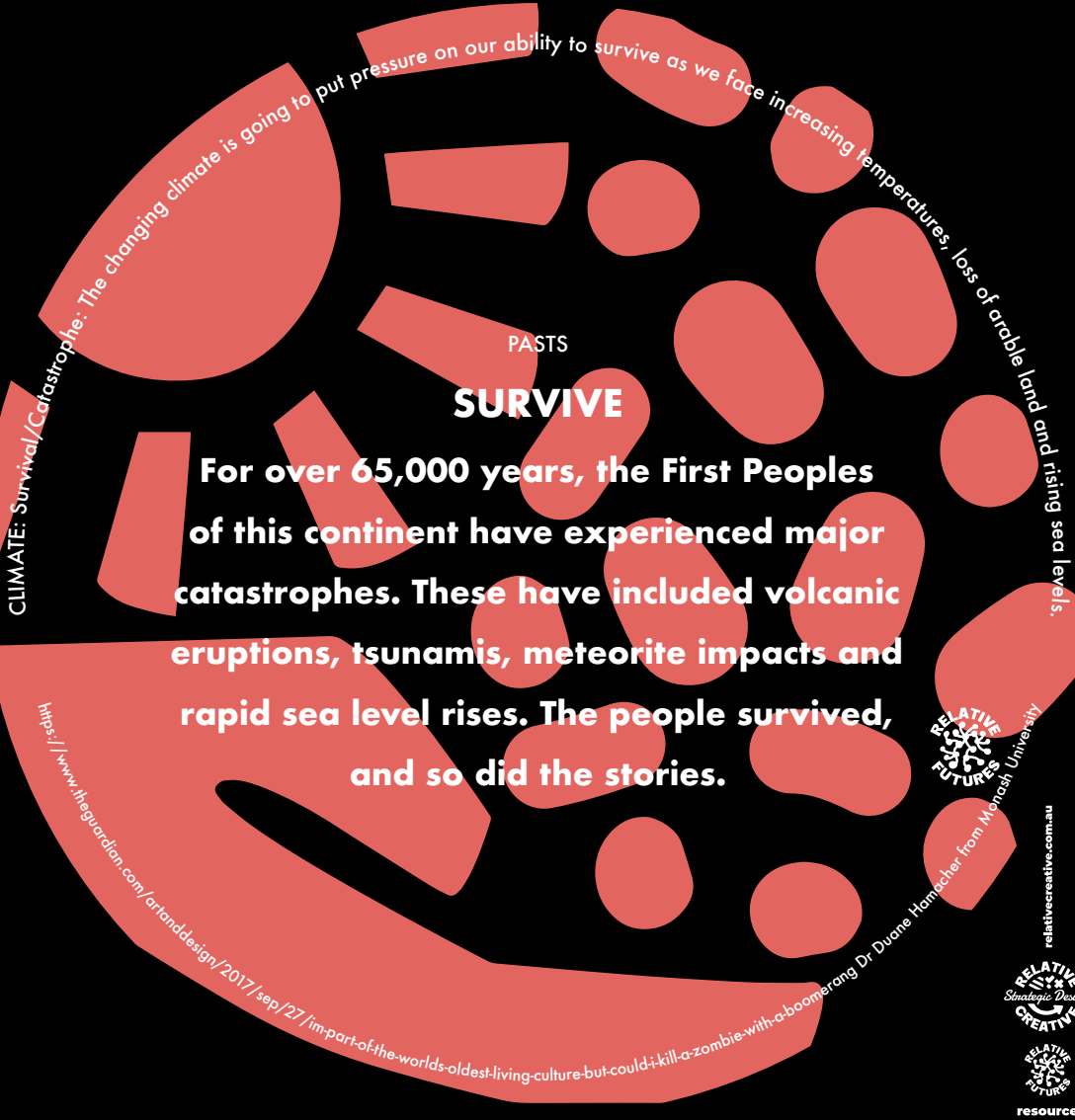
http://mashable.com/2010/03/20/hyper-reality-keiichi-matsuda/?utm_content=buffer0c611&utm_medium=social&utm_source=twitter.com&utm_campaign=buffer#0k410cfla9n



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CLIMATE: Survival/Catastrophe: The changing climate is going to put pressure on our ability to survive as we face increasing temperatures, loss of arable land and rising sea levels.

PASTS

SURVIVE

For over 65,000 years, the First Peoples of this continent have experienced major catastrophes. These have included volcanic eruptions, tsunamis, meteorite impacts and rapid sea level rises. The people survived, and so did the stories.

<https://www.theguardian.com/artanddesign/2017/sep/27/im-part-of-the-worlds-oldest-living-culture-but-could-i-kill-a-zombie-with-a-boomerang>



Dr Duane Hamacher from Monash University

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