2050 REPORT Gold Coast City Futures



A forum about just transitions in a green new world

OCTOBER 25-26 2019 BURLEIGH HEADS

goldcoastcityfutures.com.au

This publication was written, prepared and visually designed by Relative Creative.

CONONIC MINISTERS

Pictured: yarning circle on day one of the Gold Coast City Futures Forum.

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aboutthe forum

The Gold Coast is attracting one of the fastest growing populations in Australia and has been singled out by the Intergovernmental Panel on Climate Change (IPCC) as one of the most vulnerable regions to climate change owing to its geography and settlement patterns.

The Gold Coast Futures Forum facilitated the imagining of an inter and cross-disciplinary post-carbon transition for Gold Coast City Futures. Over 2 days, dialogue and mapping workshops based on information from the IPCC alongside social sciences, urban, technology, energy and agro-food research enabled community speculation about how multiple societal systems can contribute to our transition. We came together and asked, what will need to be designed; envisioned and revisioned, built and unbuilt, coded and created, manufactured and remanufactured, cultivated, employed and deployed, grown and degrown, urbanised and reforested and planned, power struggled and politicised to get to a viable, healthy Gold Coast future?

We, as global citizens and Gold Coast locals, are at a crossroads. It's time to ask, what does a just transition to a green new world look like?

about Relative Creative

Relative Creative is a strategic design practice with a focus on social responsibility, sustainability, critical research and community engagement processes. We design communication, strategies, experiences and events that help people think, talk and mobilise sustainable futures.

We are a passionate, multi-disciplined design studio with expertise in strategic foresight and systemic design theories, methods and practices. We work to advance transitions towards more sustainable and socially responsible ecological, socio-economic, political, policy, governance, cultural & arts paradigms through our intersecting areas of expertise.

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THE GOLD COAST IS THE 6TH LARGEST CITY & ONE OF THE FASTEST DEVELOPING REGIONS IN AUSTRALIA

BY 2031

OUR POPULATION WILL GROW FROM

590,000-800,00

SEA LEVEL R^{1SE} 60CM - 110CM BY 2100

INEREASED SHORT-DURATION EXTREME RAINFALL EVENTS

INCREASE IN THE NUMBER OF HIGH FIRE WEATHER DANGER DAYS & A LONGER FIRE SEASON

LARGE RISKS TO **COASTAL DEVELOPMENT** IN SE QLD BY 2050

GLOBAL WARMING 1.5°C IS LIKELY TO REACH 1.5°C BETWEEN 2030 AND 2052

TRANSPORT TRIPS WILL INCREASE

44% BY 2031

post-forum summary

The inaugural Gold Coast City Futures Forum saw more than 50 locals, with a wide variety of backgrounds and professions gather for the two-day event. From the beginning, with a Welcome to Country by Mark Cora, the day engaged with and valued Indigenous knowledge and voices, this is clear through the content layered onto the eight wall maps as well as in the design briefs, created toward the end of day two. It is clear that there is a yearning for this broader acknowledgment and recognition in the way the city develops, from recognising our shared history, to learning local Aboriginal land management approaches, to engaging with different understandings of community.

Community was a key message throughout the event, general consensus seemed to be that by building stronger local communities we are better equipped for meaningful and just transitions as well as stronger in the face of the impacts of climate change. Overarchingly, there is clear recognition that a just transition needs to be politically bold and that the transformations required are political. The three design fictions and the corresponding design briefs created on day two of the forum provide clear starting points for action:

TOOL LIBRARY

Tool Libraries connected by a network of community based cooperatives.

This idea was already being put into action, prior to the Futures Forum, by attendee David Paynter. Design briefs from the Futures Forum propose action around supporting find a site for the tool library, the creation of a statement of position and how to spread the intentions of the tool library through local media. Embedded through-out was an exploration of how to ensure the tool library is seen as a sharing of and handing over of one generation to a younger generation and how this knowledge can be empowering as well as how to guarantee continued funding.

ZINE

An independent Burleigh-based zine sparks the recreation of civil society and ownership of politics, after which unions adopt a 4-day work week.

The concept for a zine drew out of a conversation that mapped the importance of strengthening civil society and ownership of politics. This in turn would inform actions such as engaging with existing print media, unions and politicians. The zine itself would provide a space for informed, interesting commentary from locals focussing on informing the broader community about topics such as the four-day work week, just transitions and the Green New Deal.

LIFE ZONES

The Fact Pack, a group of high school graduates, forms in the 2020s and prepares a resilience plan for communities to flee to the 'Life Zones' when disaster strikes in 2030.

The life zones concept draws from the very real threat posed by climate change on the Gold Coast including sea level rise and increased risk of bushfires. The creation of the Fack Pack provides guidance for a community level response to the climate crisis as well as community led action to mitigate climate change. A further layer to this proposal is the creation of life zones, safe spaces for the city to evacuate to.

where to next?

Ultimately, the event highlighted that there is a need for more conversations and subsequent action addressing ideas around what a just transition could look like on the Gold Coast. It is clear that there is a ground swell of community members (including experts) who recognise the importance of a just transition and are yearning for spaces where meaningful action can begin and be supported.

Where to next? Relative Creative acknowledges that continuing the conversation at this level is important and that it is ever more urgent that these conversations should lead to meaningful action. Relative Creative is working on what the next Gold Coast City Futures Forum will look like.













program

DAY ONE OF THE FORUM

yarning circle

Welcome to Country

Mark Cora started the day with a Welcome to Country, paying respect to Yugambeh Elders of the past, present and future.

Film Provocation

Following the Welcome to Country we played a short provocation film by Salvador to set the scene for the day.

Yarning Circle and Visual Dialogue

With all 50 attendees sitting in a circle, Tristan (Relative Creative) asked everyone to say who they are and where they were from, before we responded to the question, "What sort of 2050 do you imagine for the Gold Coast?" using blank knowledge cards.

Slowly, the knowledge cards were added to the centre of the yarning circle. Participants were invited to move cards around if they felt like it. Then we all stood up to look at what shape the cards had formed.

In the moving of cards participants felt that the art had transformed from fish to crab to stingray. As Mark Cora reminded us "stingrays can't move backwards, only forward". There was broad consensus about the stingray shape of the cards.

Why?

Starting the day in this way was important for us. The yarning circle breaks down perceived hierarchies and gives everyone the opportunity to speak. Using visual dialogue, an adaptation of connective art shared with us by <u>Uncle Norman Sheehan</u>, helps to start a conversation about relationality and the importance of thinking about things as part of a system.

Rapid Expert Talks

Remaining in the yarning circle we heard from Dan Ware, Research Fellow, Griffith Centre for Coastal Management spoke about the science behind the climate crisis, particularly local impacts, and Alicia Melonie Jones, local artist and Producer of the First Nations program for Arts Ablaze, spoke about the importance of ensuring a voice for First Nations peoples when talking about transition as well as the changing role of art.















Pictured: forum attendees participating in the visual dialogue process used during the yarning circle. Bec (left) and Alicia (top) flipping cards, Tristan (bottom right) and participants listening.

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DAY ONE OF THE FORUM

mapping

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Mapping steps

Over 2 hours attendees chose a topic and held discussions prompted by the information, research, and provocation presented by each map. Mapping topics included:

- Post-Carbon Energy Just Transitions
- Green Urbanism Just Transitions
- Restorative & Regenerative Economic Just Transition
- Agroecology Food Just Transitions
- Politics, Power & Just Transitions
- Transport Just Transitions
- Forced Migration Just Transitions
- Recreational, Civic & Natural Water Just Transitions

The following pages show each of the maps in their: original form, post-event-form, and transcribed form. During the event, attendees were asked to use different coloured pens in three stages:

- 1. Green writing for initial responses and thoughts to the maps.
- 2. Red writing for reponses to the provocation, seen under the map titles on the left.
- 3. Blue writing for responses to the 2050 question seen on the right of the maps.

EXTRACT FROM: OUR POWER PLAN: CHARTING A PATH TO CLIMATE JUSTICE

CLEAN COMMUNITY ENERGY

Developing solar, wind and energy storage capacity on a decentralized grid could create twice the number of jobs maintained by combustion-based and nuclear utilities. We envision community-scale distributed energy programs for both residential and local economy needs, similar to what is being introduced in California...

Extractive energy includes nuclear, coal, oil and gas, waste incinerators, biomass energy and other forms of energy and fuels that pose extreme risk to human and ecosystem health, community resilience, economic certainty, and climate stability. The United Nations Intergovernmental Panel on Climate Change (IPCC) projects that in order to reverse the trend towards abrupt and catastrophic change, deep cuts in carbon emissions by the most industrialized nations are essential - specifically that we must reduce greenhouse gas emissions (ghas) by 80% of 1990 levels by 2050. We believe that meeting this challenge is possible - and we believe that we can only do it by addressing the crisis of economy and creating meaningful work and livelihoods for the millions of unemployed and underemployed people. This will require a radical transforma-tion of the economy. But the solutions can be implemented today...

We know that low-carbon industries cost less to build and maintain when sub-sidies and true impacts are added up. By transitioning from pollution-intensive and capital-intensive industries to local, labor-intensive systems, we can vastly increase the number of jobs that exist today. A recent report by the Labor Network for Sustainability, 350.org and Synapse Energy Economics demonstrates that it is possible for the US to exceed the IPCC target of cutting GHGs by 80% by 2050 and...in the process create a net gain of 550,000 jobs in the sectors of electricity gener-ation, cars and light trucks, space and water heating, fossil fuel supply and waste management.4 According to the 2011 study on the waste sector, More Jobs, Less Pollution, between 10 to 20 times the number of jobs are created through local recycling practices than by burying and burning the same materials in landfills and incinerators.

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2019 EXTRACTIVE RESOURCES, INDUSTRY, COMMUNITY AND INFRASTRUCTURE, WATER CATCHMENT MAP OVERLAYS

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EXTRACT FROM: Living Between Nature and Technology: The Suburban Constitution of Environmentalism in Australia

Though postwar suburbs were an overt driver of economic and technological modernization, they continued to be spaces in which nostalgia for nature and disguiet about modernity were embodied. As the practices of the suburban peasantry were dismantled, suburbs became increasingly significant sites of sentimental encounter with innocent nature --- in the form, for instance, of non-utilitarian gardening and pet keeping and outdoor recreation in suburban parks and beaches. As the 1967 Reader's Digest Complete Book of the Garden explains, the goal of suburban gardeners was now to work "together with nature to develop a landscape of unaffected charm, one that epitomizes natural beauties" (cited in Timms 2006, 66). Backward chicken runs, incinerators, and "dunnies" (privies) gave way to the demands of entertainment and enchantment. Much of the infrastructure now vital to the life of Australian suburbs was buried beneath swathes of lawn, rendering the technological production of the city largely invisible and apparently autonomous.

EXTRACT FROM: Transition Design: The Importance of Everyday Life and Lifestyles as a Leverage Point for Sustainability Transitions

[We] can begin to develop narratives and scenarios of future sustainable societies in which everyday life is structured around nested and networked households, neighbourhoods, cities and regions. These are the context for the integration of multiple socio-technical sectors and for the creation of new practices through which needs can be met in integrated and sustainable ways. We can also begin think about how 'mindset and posture' can change: the design and development of integrated satisfiers, practices and socio-technical systems necessitates a more holistic worldview, a posture of collaboration, and a sensibility that enables contextualised understanding of problems.

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EXTRACT FROM: Living Between Nature and Technology The Suburban Constitution of Environmentation in Australia

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1l's 2050

2019 OWELLING HERST AND BUILDING HEIGHTS MAP OVERLANS

Have we created a city scope that grows our natural environment, is resilient to climate change and supports citizens in the

transition towards

zero-carbon living



EXTRACT FROM LIVING, NOT JUST SURVIVING

We can provide a climate plan that improves people's lives in ways they can understand and that they're willing to fight for. That doesn't mean just focusing on workers in the most traditional vestiges of the fossil fuel economy, though, or even on the kinds of green-energy and infrastructure jobs typically offered as replacements. Rather, it means organizing the working class as it exists today — the nurses and teachers, care workers and service workers who are already doing the work that will be foundational to a low-carbon society oriented toward the flourishing of all, and who can lead the way to a future whose glory can last a lot longer than thirty years.

What would that society look like? In general, it will mean less work all around. But the kind of work that we'll need more of in a climate-stable future is work that's oriented toward sustaining and improving human life as well as the lives of other species who share our world. That means teaching, gardening, cooking, and nursing; work that makes people's lives better without consuming vast amounts of resources, generating significant carbon emissions, or producing huge amounts of stuff.

[The] fastest growing sectors of the economy are in industries characterized by "pink collar" labor — nursing, teaching, service work. Green jobs boosters often note that there are more jobs in solar-panel installation than coal mining these days — but there are also more teachers, home health aides, and child-care providers. These jobs are done disproportionately by women, immigrants, and people of color. Organizing these workers would be the way forward for socialists under any circumstances. Under the dire circumstances we face, insisting that the work they do is crucial not only to a just and decent society but an ecologically viable one is the way to win back our future. Labor movements in the nineteenth and twentieth centuries insisted that workers had built the world in the most literal sense. The labor movement of the twenty-first century needs to foreground the workers who will make it possible for us to live in it.

To put it plainly: pink-collar jobs are green jobs.

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CITY OF GOLD COAST AND ECONOMIC PROSPERITY Our city's economy is diverse and innovative

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The Gold Coast is Australia's sixth largest city and one of its fastest proving

Our Gross Region Product (GRP) is estimated to be more than \$35 billion, with a five year average annual growth rate of 44 per cent.

I population of 590.000 people, the Gold Coast is projected to be home to approximately one million people by 2050

ort and enable future growth to create a modern, globally-connected city

The City's Office of Innovation and Economy is leading digital city and business and investment programs to establish the Gold Coast as Australia's fastest growing economy

Dur Economic Development Strategy, Destination Tourism Management Plan and Digital Lity Roadmap set the strategic direction for how we will grow the Gold Coast economy at a faster rate than the State average, and establish us as one of Australia's leading digital cities

nent Straten

The City of Gold Coast Economic Development Strategy 2023 provides the framework for our long-term growth and prosperity

The strategy reflects our commitment to ensuring the local economy continues to thrive in a changing environm

There are six key themes for delivering the strategy



new real

How might alternative ownership forms play a role in advancing the clean-energy investment agenda?





thoughts?



Gold Coas

City Futures

lt's 2050 Have we shifted to renewable Date: 01/10/2019 energy

2019 FLOOD AND COASTAL EROSION MAP OVERLAYS

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EXTRACT FROM A Green New Deal for Agriculture

BEYOND INDUSTRIAL AGRICULTURE

To pay workers well, to grow a polyculture of crops that can help sequester carbon and battle the sixth extinction, to farm without chemicals that poison

workers, air, and water — all are militated against by the arrangements of payments that currently prevail. It's rarely profitable to farm agroecologically when the rules of the game reward ecological devastation, worker exploitation, and monoculture.

Corroborating evidence that the food industry is premised on destruction comes from an unlikely source. A 2012 report by KPMG singled out the food

industry as the most environmentally damaging of any sector, with conservatively calculated externalities equaling 224 percent of the food industry's revenues. This is the kind of result that ought to give defenders of the current food system pause. If this data is correct — and at a conference of donors in 2015 a senior Nestlé executive suggested that these ratios accurately reflected the findings of an internal audit at his corporation — then there's only one conclusion: there's no such thing as a sustainable food industry. Either the industry is profitable by dint of its externalities, or it stops making food and money.

EXTRACT FROM: Dark Emu

One of the most fundamental differences between Aboriginal and nonAboriginal people is the understanding of the relationship between people and land. Earth is the mother. Aboriginal people are born of the earth and individuals within the clan had responsibilities for particular streams. grasslands, trees, crops, animals and even seasons. The life of the clan was devoted to continuance

The intensification of resource use, language development and social organisation were in the curve of great change prior to the colonial period because Aboriginal and Torres Strait Islander people were on the same cognitive trajectory as the rest of the human family, albeit in a different stream and a unique channel in that stream.

CITY OF GOLD COAST FOOD STRATEGY

Department of Agriculture

The Gold Coast region of Queensland is located in the south-east corner of the side. The region comprises the local government areas of Gold Coast and part of Scenic Rim. The region covers a total area of around 1900 square kilometres, or less than 1 per cent of Queensland's total area, and is home to approximately GOS.300 people (ABS 2018).

Agricultural land in the Gold Coast region occupies 600 square kilometres, or 32 per cent of the region. Areas classified as conservation and natural environments (nature conservation protected areas and minimal use) occupy 640 square kilometres, or 35 per cent of the region. The most common land use by area is grazing native vegetation, which occupies 390 square kilometres or 21 per cent of the Gold Coast region [ARARFS 2016]

Despite 32% of the Gold Coast being agricultural land, like many local councils, there is a limited engagement with food as part of the citu's visions and goals.

Fibr of Gold Coast Commercial food waste recurling service

Did you know food waste represents up to 50 per cent of the waste produced in the hospitality industry?

City of Gold Coast has implemented a food waste recycling service to assist our commercial customers to divert as much waste from landfill as possible.

Introduced in September 2018, the Commercial Food Waste Recycling Service enables businesses to remove their food scraps from the general waste collection. We collect this food waste and recycle it into compost, which is then used on our local and/e advance

By the end of its first quarter, we had successfully diverted 100 tonnes of food waste away from landfill – a significant achievement

AGROECOLOGY FOOD JUST TRANSITIONS

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A Green New Deal for Agriculture

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Gold Coas City Futures

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Date: 01/10/2019

2019 BUSHFIRE HAZARD AND AGRICULTURE LAND MAP OVERLAYS

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EXTRACT FROM A Green New Tool for Asymptoty

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EXTRACT FROM

Each movement rises against colonial and corporate extractive projects. But what's often downplayed is the revolutionary potency of what Indigenous resistance stands for caretaking and creating just relations between human and nonhuman worlds on a planet thoroughly devastated by capitalism.

After all, the image of the Water Protector and the slogan "water is life," which were popularized at Standing Rock, are icons of this generation's climate justice movement. And both are political positions not exclusively Indigenous, but grounded in decolonization. If Indigenous movements are foundational to climate justice, then why isn't decolonization as well?

The Green New Deal (GND), which looks and sounds like eco-socialism, offers a real chance at galvanizing popular support for both. While anti-capitalist in spirit and paying lip service to decolonization, it must go further — and so too must the movements that support it.

That's why the Red Nation, a Native resistance organization, founded in 2014, recently drafted a skeleton outline of what we're calling the Red Deal, focusing on Indigenous treaty rights, land restoration, sovereignly, self-determination, decolonization, and liberation. We don't envision it as a counter program to the GND but rather going beyond it — "Red' because it prioritizes Indigenous liberation, on one hand, and a revolutionary left position on the other"

The GND has the potential to connect every social justice struggle — free housing, free health care, free education, green jobs — to climate change.

Likewise, the Red Deal places anti-capitalism and decolonization as central to each social justice struggle as well as climate change. The necessity of such a program is grounded in both the history and future of this land, and it entails the radical transformation of all social relations between humans and the earth.

ls this enough?

Our city is safe We feel secure and confident in our communities.

We are proud of our city We are engaged citizens who advocate for our citu.

Support the development of a strong culture of volunteering in the city through capitalising on the 6/2018 Volunteering Program. Implement an annual Community Engagement Program, which provides the apportunity for the community to provide views and feedback, which inform city direction and decision making

Facilitade Gold Coast City's junior Council, which provides students with the opportunity to learn and participate in local government and community issues Develop and implement a collaborative program that celebrates pride in the city and builds a strong and supportive community.

including

- delivering a program of major civic events featuring local, Australian and international content
 supporting Bleach as the Gold Coast's signature festival
- supporting preach as the dora coasts signature restrict
 building a cultural legacy, through the continued support of local arts and culture organisations.

Deliver the "Who We Are" Program which enables residents to celebrate the city's diversity through online engagement.

Our community is inclusive and supportive We are a diverse community where everyone is welcome, families thrive and people know their neighbours.

Our city embraces culture every day We are a creative community

Our city provides a wide range of job opportunities We are a highly skilled and educated community.

We are an active and healthy community We enjoy our city and its enviable climate

POLITICS, POWER & JUST TRANSITIONS

Who should we take the lead on managing the transition?





Gold Coas

City Futures

lts 2050

: 01/10/2019

Have we maximised the potential in transition to shift power balances away from lobby groups and big business and back into the hands of the people



2019 HERITAGE MAP OVERLAS

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POLITICS, POWER & JUST TRANSITIONS

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2019 HERRIE WAR STREAM

It's 2050

Have we maximised the potential in transition to shift power balances away from lobby groups and big business and back into the hands of the people

EXTRACT FROM STAY GROUNDED

1 A JUST TRANSITION

We must end over-reliance on the most polluting, climate-harming forms of transport driven by a globalised corporate economy. This requires negotiations and collaborative planning for a transition that will not be made at the expense of workers in the relevant sectors – although it does include changes in what we do and how we work. It needs replacement of failed privatisations with climate-friendly local initiatives, good working conditions, public ownership and democratic accountability. To achieve this in the face of a growth-oriented aviation industry also requires overcoming corporate power. We need a transport system that is democratically regulated and planned, promotes and supports the common good and that is integrated and ecological.

2 A SHIFT TO OTHER MODES OF TRANSPORT

We must shift from harmful modes of transport to more environmentally sound ones. Short-haul and some medium-distance freights can be shifted to trains in regions where relevant railway infrastructure exists, or otherwise onto buses/coaches. Trains don't necessarily need to be high-speed but daytime and night services should be attractive, affordable and powered by renewable energy [7]. Also ships and ferries can be an alternative, if their energy source is "carbon free" (wind, battery-electric, hydrogen or ammonial

3. AN ECONOMY OF SHORT DISTANCES

Freight transport accounts for a significant share of carbon emissions. Instead of aiming to triple the volume of transport by 2050 [8], we need to reduce the demand for goods from far away and develop localised economies. The aim here is climate protection, not nationalist-style protectionism. This can and needs to happen alongside maintaining multi-cultural and open minded societies.

Is this enough?

CITY OF GOLD COAST TRANSPORT STRATEGY 2031

The Gold Good Dily Pressport Stretage 2031 arms to change the way we move around our chy by 2031 we aim for-pablic transport to the 'D per cent of all disky trips cross that chy lap from 35% in 2011 cycling to be 8 per cent of all disky trips cross that chy lap from 35% in 2011 welling to be 8 per cent of all disky trips cross that chy lap from 75% in 2011 cert teert to be 9 per cent of all disky trips cross that chy lap from 17% in 2011

Huge growth in trips The number of trips mode on the Gold Coast will increase by 44 per cent be demands on our transport palwork

A balanced transport system is the key

ips, 15,000 doily welking trips and 175,000 doily cycle trips in 2031 To move his services and improve the frequency and consciluted the following the foll

What are our key actio

sport, walking and cycling, with a focus on light rail and b Limiting expension of road capacity along the coastal strip, but upgrading Southport-Burleigh Road to provide a viable alternative route for cars. Under this plut traffic while the Gold Coast Bouleverd will be for people Tailoring parking policies to reflect local conditions Deliver a rapid bus network. Extend the light reli network across the city with support from the private s Extend the light reli network across the city with support from the private s Extend the heavy neil line to Elanore and build new stations. Beliver flexible rublic transport services in areas of low demand Complete coastal cycle and pedestrian routes Build green bridges in key locations. Implement 'community bouleverds' and pedestrian priority zones in key location Revelan and implement a curle plan for the city Develop and implement a cycle pain for the chy. Develop and implement a postariar join for the chy. Deliver as independent torffic massgament centre. Develop and implement a read network mester plani, including a 'pinch peints' upprode program, turn left on r Inicia and remove of instificiant toreal based. Build the Intra-Regional Transport Corridor in stages from Coomere to Carrare Upgrade the Pacific Motorway, including widening from Mudgeerebs to Elanon Upgrade Southport-Burleigh Road. Expand the Active School Travel progr Deliver a travel behaviour change program for workplaces and introduce 'workplace travel plan Develop a cycling economy Support cer-shering scheme

TRANSPORT JUST TRANSITIONS

Abri

How have

e-bike, car sharing,

high-speed rail

and successful

public transport

Finding effective pathways to sustainable mobility: bridging the science–policy gap





congested

commutes

2

2019 LIGHT RAIL, RAIL, STATE AND PACIFIC ROAD MAP OVERLAYS
EXTERCIPACION. MIN LOCKNING

1 A JUST TRANSITION

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TRANSPORT JUST TRANSITIONS



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2019 LILST BATL DATL, STRIL AND PALITIC BEAR MAD BETREAU

Have we been able to make the transition to active and public trensport, leaving behind our congested commutes

STREET FROM STREE GROSSERED

1 A JUST TRANSITION

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We must shift from hermful modes of learsport to more environmentally sound ones. Short-head and some mediate-distance heights can be shifted to home in neglow, where environment mitigations without we shall be advected bases/coaches. These dant recrearily, need to be high-speed but degrine and night services should be attractive, effortable and powered by renewable energy [2]. Also ships and derries can be an elemative. If their energy source is "carbon line" beind, belleng-electric, hydrogen an emposed

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TRANSPORT JUST TRANSITIONS



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2019 LILST ANTL. Dell., STREE AND PALIFIC BEAR MAP COURLESS

EXTRACT FROM: The Case for Retrea

Government officials who resist retreat share core political, social, and economic concerns. Retreat is distinct from other kinds of climate-related migration in that it entails not just relocating a group of people but also unbuilding land and returning it to nature in perpetuity. Relocation on its own is a politically and socially fraught process, though this has not stopped governments from forcing people to move for countless development and regeneration projects in the name of economic and social progress. With retreat, it is thus the latter act of unbuilding that stirs special fears, even as evidence suggests that those fears are misquided. Local officials in the United States, for instance, fear lost income from property taxes on top of the added costs of maintaining acquired land as open space. But residential development is itself an expense that easily outweighs its presumed economic benefits, because the cost of providing services for more people is greater than the additional taxes they pay. Restoring open space, meanwhile, increases adjacent property values and provides numerous other economic, social, and health benefits, particularly in otherwise dense urban areas (Active Living Research 2010), not to mention the extensive savings that result from mitigating flood damage.

For governments, buying people out once is a far more effective and less expensive means of flood protection than building and maintaining structural defenses, such as levees and seawalls, that will become obsolete as floods worsen and sea levels rise.1 Hard defenses, moreover, have been shown to increase rather than decrease the costs of flooding, since the sense of safety they provide works to attract further development (the so-called levee effect), ultimately placing more people and property at risk. These defenses also have negative impacts on the environment and on neighboring areas to which they displace water (Tobin 1995). Despite these costs, many officials treat unbuilding land and removing it from the market as the greater risk, though the profits to be gained from remaining in dangerous places are more uncertain and short-lived than the rewards of retreating from them are (Jacob 2015; Polefka 2013). Is this enough?

CITY OF GOLD COAST

Our city is resilient to natural hazards We can adapt to change

Implement the Bushfire Hazard Reduction Program to minimise bushfire risk throughout the citu

Deliver a flood resilient Gold Coast through the Sustainable Flood Management Program Implement recommendations from the Shoreline Management Plan to support coastal protection

Manage natural hazard exposure across the city including, slope instability, heatwave, bushfire. flood and storm tide through strategic land-use planning Deliver a new flood map for the city that supports the City's management of flood hazards into the future

Enhance the City's flood emergency decision support system. Develop innovative computer modelling tools for the management of natural hazards. Use innovative urban design and city planning to promote city resilience.

FORCED MIGRATION JUST TRANSITIONS

Facts About For

Will displaced coastal populations relocate into the parts of coastal communities unaffected by sea-level rise? Migration induced by sea-level rise could reshape the US population landscape

thoughts?





Cold Coas

City Futures

ll's 2050

2019 AT 5 METRES OR BELOW MEAN SEA LEVEL MAP OVERLAYS

Have we learnt from and welcomed people forced to migrate away from their homes in the Pacific. Torres Strait and further afield

Land at or below

EXTERCT FROM The Errie for Balance

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FORCED MIGRATION JUST TRANSITIONS

Will displaced coastal populations relocate into the parts of coastal communities unaffected by sea-level rise?

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City Futures

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Have we learn from and welcomed people forced to migrale away from their homes in the Pacific. Torres Strait and further afield 2

COTRACT FROM The Case for Retroet

Government officials who resist getreet where core political, social, and economic concerns. Retreat is distinct from other kinds of climate-related migration in that it entails not just relocating a group of people but also unbuilding land and returning it to nature in perpetuity Relocation on its own is a politically and socially frought process though this has not stopped governments from forcing people to move for countless development and regeneration projects in the name of economic and social progress. With retreat, it is thus the latter act of unbuilding that stirs special fears, even as evidence suggests that those feers are misquided. Local officials in the United States, for instance, feer lost income from property taxes on top of the added costs of maintaining acquired land as open space. But residential development is itself on expense that easily outweight its presumed economic benefits, because the cost of providing services for more people is greater than the additional taxes they pay Restaring open space, meanwhile, increases adjacent property values and provides numerous other economic, social, and health benefits, particularly in otherwise dense urban areas (Active Living Research 2010), not to mention the gatezaive sevings that result from mitigating flood damage THE SAFIE TENE

HE DEOUGHT ST- OUTS? For governments, buying people out once is a far more effective and less expensive means of flood protection than building and maintaining structural defenses, such as levers and seewells, that will become obsolete as floods worsen and see levels rise! Hard defenses, moreover, have been shown to increase rother than decrease the costs of flooding since The sense of safely they provide works to attract further development (the so-celled level effect), ultimately placing more people and property at risk. These delenses also have negative impacts on the environment and on neighboring areas to which they displace water (Tobin 1995). Despite these costs, many officials treat unbuilding land and removing it from the market as the greater risk, though the profits to be gained from remaining in designrous places are more uncertain and short-lived than the rewards of retreating from them are [lecob 20% Palefke 20%]

Is this enough?

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CITY OF GELD COAST PLANS? Our city is resilient to natural housed We can adapt to change Implement the Bushfre Hazard Reduction Program to minimise bushfre risk throughout the city pibeliver a flood resilient Gold Coast through the Sustainable Flood Management Program. Implement recommendations from the Shoreline Management Plan to support coastal protection

Who will Manage natural hozard exposure across the city including slope instability, healwa bushles flood and shorm hide through shalepic land-use planning How Deliver a new feed may for the city that supports the City's management of Bood hapants into the future

Enhance the City's flood emergency decision support system.

Develop innovative computer modelling loads for the management of natural hexards.



FORCED MIGRATION JUST TRANSITIONS

Facts About Ferriad Migra

resilience

Will displaced coastal populations relocate into the parts of coastal communities unaffected by sea-level rise?

Not much space on the coast Will displaced inabove sea level.

Vinus Populations

(drought) move to

Many in land regions increasingly bushfire prone. Are we caught literally between fire + water?

Compare flood map to fire risk map.

Climate change migration not covered by UN refugees convention. Australian terrified by small numbers of refugees. How will be react to millions? Whole G.C. business model under threat. New sense of community -

031

Gold Coatl **City Futures**

localisation greeting needs locally Instill values as connectedness. What does How do we build

resilience sound like and look like? It's 2050

Have we learn! from and welcomed people forced to migrate away from their homes in the Pacific, Torres Strait and further afield

Highly vulnerable population to sea level rise

2019

WE & METRES OR BELOW NEAR SEA LEVEL MAP OVERLAND

EXTRACT FROM Long Bongs Burleigh Barrels

It's 2065. Burleigh is now a place of reciprocal respect, with an Indigenous name change "Burleigh Heads-Jullurgal" kisses the ocean in new ways. The endless interesting change from the implications of a 1m to 4m storm surge sea-rise transforms the Point. Much like in 1965 there are many less people around. The dense populations of low-lying areas around Burleigh Waters long retreated to higher ground.

On the Point, there has been decades of discovering new value. Experiencing Burleigh Heads as a natural place now means something much deeper; not a nostalgic experience, but a living, caring experience in which we, with the rest of the city, learn to live ephemerally at the edge of the sea.

The brackish water of Tally creek, always in storm surge flux, plays host to the mighty battle between the midgies and Irukandiis—the kings of the turbulent place where the freshwater meets the sea. The battle pales in significance to the real estate war between Hybrid GM prawn farming and the semi-artificial wave playgrounds scattered up the creek. It takes quite a few to accommodate the Gold Coast population bulging at 8 million.

Sure, we have a few too many wave pools, but we do have systems in place for care. The Burleigh Boardriders president in 2065 recalls her grandfather speaking of Burleigh in his early years. He spoke of the cultural shift needed for the Gold Coast to adapt to its dramatically transformed climatic future and sustain the local people and their stories that had been there. Her grandfather predicted a global wave of surfing related initiatives that led by example as catalysts for social and ecological change, just as the global surf community had begun in various ways in the past. Her grandfather, back in 2040 told his granddaughter we're on a wave towards an ethics of care where we desire only those things that sustain our human stories and places. No longer will we desire increased quantities of stuff. Burleigh Boardriders are local manifestations of this custodial care, having understood long ago that it's less about surfing and more about creating the structures out of which the joy of riding waves can continue to emerge.

522

20,000

140 km

23 ML

60

260 km

40 PATROLLED REACHES

6

ONE INTERNATIONALLY PROTECTED

2500 km STORMINATE PIPES

3200 km

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CITY OF GOLD COAST WATER STRATEGY 2019-2024 What is a Water Sensitive (ibs (WSC)2

A WSC represents an aspirational concept in which water has a central role in all aspects of A WEX prepares an expenditure concept in which were here a centred role in all appects of dought as chy advance abounds period the concentration of the concept and all shape. The meet have a characteristic concept and the concept and the concept and the concept and the meet have characteristic by treatments the second second second and second and meet have the characteristic by treatments the second second second and and and the characteristic concept and the conceptance of which class are used at the conceptance of the conceptance o

WE MANAGE OUR RESOURCES FOR A SUSTAINABLE FUTURE

The Water Strategy provides an aspirational pathway to guide us as we transition toward a water sensitive Gold Coast, where issues around water management play a central role in were restriction Gala's Gala. Neuers source arrange water messagement plays a certain in relation planning and development. The strateging base barrange hardware the strateging of the strateging of the strateging base barrange a reliable varies arrange maniformation of the strateging base barrange a reliable varies arrange maniformation relation of the strateging base barrange outcomes. It will also be a city where infrestructure solutions are integrated, multifunctional and adaptive. This may include integration of nature-based infrastructure into the landscape to provide hydraulic and weler treatment function and amenity banefits such as a greener environment and mitigation of the urban heal island effects.

mportantly, the stretegy will also encourse active community engagement in the care and protection of our water and natural resources. It is anticipated that this engagement will footer increased cohesion between members of the community as which resource of the care of cohesion identity, is nutrured through their connection with water (inally, the stategy encourses). Indeed and connection between querement, indefining and common the substructures. management of resources and wellsr sansitive decision making and to uncomes to achieve these goals, there will need to be changes to the way services have traditionally been delivered Conventionally, weller supply, sevence and stormwater have each been managed appendels through larger-scale, carterialised infestivatives. These separate functions will continu separate intrody intro-scale, centralises intrastructure inters separate functions will contin to operate this way, however innovation and adaptation is needed to address key social and environmental vulnerabilities such as degraded welseways, uncertain and extreme rainfall patterns and growing community expectations for improved liveability.



1l's 2050

2019 AT 5 METRES OR BELOW MEAN SEA LEVEL MAP OVERLAYS

Have we managed to protect and regenerate our coastal ecosystems while finding a balance between our water usage and the amount of rainfall we receive

Land at or below tim AHD

EXCOLUTION. my Roop, Scrietyt Reveals

on 2066. Burbergh to new a place of net proced rangest, with an Independent some charge "But read-"many-hittergal" kinner the otean in new many. The methods interesting change from the implications of a limbs for shares single see rise basedones the Point which the in 765 have are trong loss people ersend. The Annie populations of low lights arises eracted Earliegh Maters long intended in leafer grand.

In the Food, there they been decades of discovering new value. Experiencing Raticip: Heads ex. a salard place how means sarreibles such deeper and a tradalog assurance, but a listing cartery aujorisation in which we with the real of the city, want to give enhancements at the adup of the sea.

The brack/id-water of July creak, always in store samp first pings-heat to the reights better telease he budgies out budandin- the kings of the tarbalent place where the trephesiter much the use. The before poles in superiornee to the real exists was between Hybrid DH press. terring and the semi-artificial wave playprounds softward up the steek. It takes, puls a few to

hart we have a low has many wave posts but we do have supports to place for card the Barleson Roordenders president in 2061, receipt her grandfather speeking 27 Martings 10 Mix early genry, the spoke of the sultural skill needed for the Gold Centh to edept to its iterratically trensherred. climatic febure and sustain the local people and their station that had been they. Her people the predicted a global wave of surfing related initiatives that lod by awaropie as calelysis for social and scalage al sharps pull at the glubal surf community had begut to vertices ways in the past For grandfaller, back in 2040 loid his grandbachter were st a wese lowerts or place of party where we desire and, these these that such an an human cluster and place. No funger will we being intraceed parentings of shaft flatings Searchiders are fixed membraded one of Nis coulded date, having understand long ups that it's tess wheel survive and more about conting the simultanes out of which the jog of rising wows can cardinae to emerge

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Recreational. WATER **Civic And Natural** JUST TRANSITIONS

What kinds of urban futures would we envision if we took seriously both the biophysical and political-ecological aspects of changing states of urban water? then extincients for home walks of



thoughts?

Cold Coat!

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It's 2050

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EXTRACT FROM-Long Bongs Burleigh Bornels

Its 2045. Borleigh is new a place of reciprocal respect, with an indigenous name change "burleigh reacts-Auliange" kisses the ocean in new ways. The endless interesting change from the implications of a two to two starm surge see-rise teachtrms the Point. Much like in 1965 there are many less people around. The dense populations of low-kging areas around Burleigh Waters long retrained to higher growed.

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Sure, we have a few too many wave pools, bit we do here applants in place for card, the Burleigh Boardriders president in 2065 receils her quantifiater speaking of Burleigh in his early quers. He spike of the cultural shift needed for the Cold Ceast to edept to its demedically transformed climatic tubure and suchain the local people and their stories that had been there. Her quantifiater predicted a global wave of suring related initiatives that lot by example as catalogis for the point in vertices were to suring related initiatives that led by example as catalogis to be point for quantifiather predicted a global wave of suring related initiatives that led by example as catalogis to be point for quantifiather back in 2010 told his spendeougher write as a wave Toward as difficult of cargo, where we desire only these things that scalars our normal stories and places. No longer will we desire increased quantities of stori. Burleigh Boardriders evel local meanifeaters of this costoried care, hereing understood long opt that its less about suring and more about creating the durators out of which the jog of riding waves out catility to the point.

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DAY TWO OF THE FORUM

design fictions



Design Briefs

The following pages provide a summary of the design briefs that were the final outcomes of the forum. All of these actions can be started by anyone (whether they attended or not) and Relative Creative is happy to support where we can.





Pictured: Tristan (top) facilitating the design fiction mapping process.



tool library

Tool Libraries connected by a network of community based cooperatives.

Design Brief

What immediate actions are needed to bring this part of the design fiction into reality?

STATEMENT OF POSITION Write a paper statement of position that describes 'culture of repair' philosophy for - idea

Call out on Facebook Store in a storage shed Contact SLQ EDGE

ARTICLE ABOUT KEN'S HANDING DOWN KNOWLEDGE

Approach media to run the story

Design Brief

What immediate actions are needed to bring this part of the design fiction into reality?

SITE FOR TOOL LIBRARY EXPLORE

Subsidised by philanthropist property SWOT analysis of precedence (boomerang bags) SWOT of discussed building

Who can help?

Pop-ups Benchon doco Natural business Subsidised lease from property developers

Design Brief

What immediate actions are needed to bring this part of the design fiction into reality?

YOUNG PERSON LOBBY'S COUNCIL

Funding streams – local + state Attends as many forums to talk to people / potential funders Receive funding seed / piloting "proof of concept funding"

Design Brief

What immediate actions are needed to bring this part of the design fiction into reality?

COMMITTEE FORMS MAKES A MODEL

In the funding the people receive a few thousand to sit and strategically build the framework

THINGS TO GO IN GRANT APPLICATION

Lobby for a site available on the highway – discuss train line stops Council tram stop tool library

tool library

LED

and the second

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tool library



zine

An independent Burleigh-based zine sparks the recreation of civil society and ownership of politics, after which unions adopt a 4-day work week.

Design Brief

What immediate actions are needed to bring this part of the design fiction into reality?

CREATION OF A ZINE Burleigh based with a print run and digital. Stories, art and graphics with a focus on discussion important topics e.g. the 4 day work week. With the goal to recreate civil society and ownership of politics.

Who can help?

Relative Creative Matt Ross (wider contacts) Local writers, editors, artists and designers

Design Brief

What immediate actions are needed to bring this part of the design fiction into reality?

SPACE TO DISCUSS IDEAS

This could be: physical digital podcasts online With the goal to recreate civil society and ownership of politics.

Who can help?

Relative Creative Bleached Arts

Design Brief

What immediate actions are needed to bring this part of the design fiction into reality?

UNIONS TO ADOPT A 4-DAY WORK WEEK

Major social changes have been supported by unions. The four day work week could be the next one. Consideration needs to be made in terms of how this is pitched and further research done on how it benefits workers as well as the environment.

Who can help?

Relationships with local unions need to be sought and conversations opened.

Design Brief

What immediate actions are needed to bring this part of the design fiction into reality?

ENGAGE EXISTING PRINT MEDIA WITH OUR STORIES

While the Liverpuddlian boycott of The Sun newspaper has been successful, finding ways to engage with The Bulletin could be more effective for a Gold Coast audience.

Who can help?

Everyone, writing letters to the editor and sharing stories that we feel are important.





life zones

The Fact Pack, a group of high school graduates, forms in the 2020s and prepares a resilience plan for communities to flee to the 'Life Zones' when disaster strikes in 2030.

Design Brief

What immediate actions are needed to bring this part of the design fiction into reality?

FACT PACK

Funding for the group. Funding for the consultation + planning phase. GOLD COAST VISION GROUP > FUTURE VISION

Sustainability invites for FACT PACK Giving power back to the everyday citizen by creating a chain of connections and holding a decentralised participation picnic. Begin activating the in between ecologies in the life zones. Key nodes return micro design briefs on their local knowledge.

Design Brief

What immediate actions are needed to bring this part of the design fiction into reality?

GOLD COAST CLIMATE ACTION RESILIENCE PLAN

Put a call out for community interest and consultation to join the GC Future Vision Group via digital campaign Festival created to gather momentum in all pockets around the GC. Every Sunday weekly In-kind Indigenous centres leading the way

Who can help?

Action group of community members People of influence / representatives

life zones



life zones

finishes high school and Gold Coast 'Climate Resilience Plan' -ommunity created and nplemented. Honest + helps develop the Gold ous transparency al ntial impacts of clim



in the bottom Thomas by-Song to Vall

recommendations



The design briefs that developed out of the Gold Coast City Futures Forum provide some great places to start action, or in the case of the Tool Library support David Paynter who already has this underway. While these briefs predominantly offer steps for community action we believe that there is also need for action from the City of Gold Coast.

City of Gold Coast should begin to consider what a just transition would look like on the Gold Coast, this could be done through a range of workshops, including adaptations of the City Futures Forum on a larger scale. It is clear from exploring the interactive planning maps that there is a disjuncture between increasing risk of bushfires and rising sea levels, that restricts safe space for city residence, likewise there is clear action that could be taken in improving the public and active transport systems.

Our key recommendations to community and local government are as follows:

1. Work as a community

- The forum showcased a key desired to strengthen existing community relationships and create new ones as a response to the climate crisis.
- Many of the design briefs either speak directly to actions to strengthen communities, such as providing space to talk and stay in touch, media to engage with people and plans to work together to create safe spaces for retreat.

2. City Leadership on the Climate Crisis

- Cities and councils around the world (and locally) are responding to the climate crisis by calling a climate emergency, others are taking direct action to increase mode share of public and active transport, green city streets through planting vegetation and becoming water sensitive cities. While the City of Gold Coast is taking steps to become a water sensitive city more action can be taken.
- The forum highlighted the importance of properly (with selfdetermination and an Indigenous-led approach) engaging with Indigenous voices in establishing a pathway for a just transition.

3. Take action

- It is clear that there is a groundswell of people who want action to be taken and have many great ideas for how this can be started.
- Inaction is not due to a lack of ideas around the future we want and how to get there, all of this can be worked out using a whole range of techniques, including those we worked on during the Futures Forum, the biggest gap is finding ways and support to take this action.
- City of Gold Coast needs to take responses to forums like this, the research of our local universities and broader global scientific consensus seriously and begin to provide communities support to take action against the climate crisis, this could be in the space of adaptation or mitigation.

FORUM CLOSING CONVERSATION

climate crisis creatives

climate crisis creatives



Listen to the podcast Climate Crisis Creatives Colloquia Sundays







The call for climate justice is lingering through our city streets louder than ever. Around the world, industries are making moves to reduce unsustainable practices. In what ways is the creative industry transitioning to a green new world?

Four local creative practitioners joined the Gold Coast community in a conversation about the role of creatives in the climate crisis and the skills need for a just transition. The panel and audience engaged in a discussion on how creatives can navigate the climate crisis. Some of the key suggestions included:

- Develop your politics and a broader understanding of how your practice is embedded in destructive systems.
- Change may not be possible immediately, but happens incrementally.
- If you are in the position to, take a risk in making people feel uncomfortable by calling bullshit out where you see it. (This is a privileged position).
- Having a 'seat at the table' in projects that may not align with your politics can result in the opportunity to redirect processes toward responsible outcomes.
- Creatives possess the power to visualise alternative and desirable visions of the future for people to see.
- Dig where you stand/gräv där du står. Wherever you stand, get started with what you've got. People will eventually recognise your politics and appreciate that your practice aligns with it.
- To embrace interdisciplinarity and break down the silos of the creative industries, don't limit your inspiration to your discipline, look outwards to other fields and environment.

Panel members included Yen Trinh, Michael Angus, Bec Barnett and Annique Goldenberg, moderated by Paula Hardie.

Pictured: community attending the Climate Crisis Creatives panel discussion on day two of the forum.

appendix

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