

APPENDIX : DCC 10-Year MILESTONES

Seniors' Climate Action Network (SCAN) SUBMISSION TO DCC 10-year Plan April 2021 – updated version 4/12/22

Social Foundations for Resilient Communities:

Seniors' Climate Action Network presented a goals or aspirations list for the DCC 10YP at the end of 2020. This list was then honed into a more detailed plan of actions from 2021 until 2031. It lays out how the DCC can lead and facilitate the incremental building of a resilient Dunedin and environment that prospers within social contexts, the limits of planetary resources and under Te Tiriti o Waitangi.

The aim is to build a city where individual basic needs are met and we can all prosper within the limits of planetary boundaries.

TRANSPORT:

KOTI PÁPORI

By 2022	By 2025	By 2028	By 2031
Measure citywide/household transport emissions	Reduce transport emissions by 50%	Reduce by 75%	Zero transport emissions
Facilitate/promote emission free transport options: Plan for emission free public transport (buses, trains) With service improvements: <ul style="list-style-type: none"> ▪ Comfortable shelters at all stops ▪ Basic electronic signage at all stops listing upcoming arrival times and any delays ▪ Direct commuter services at peak times from suburb hubs (with park and ride) – rail for Mosgiel-Port Chalmers ▪ Increased frequency of services ▪ Reliability of services – bus only lanes ▪ Organize free hop on/hop off central city bus loop with wheelchair access and own lane ▪ End privatization of service contracts in favour of directly operated services. Serves the public good; better conditions for transport employees – better services. Money currently taken as profit by private bus companies is instead reinvested into the service 	50% citizens use emission free transport 50% of public transport is emission free All service improvements in place (Investigate: DCC to control and directly operate city public transport (not ORC) – one public body for simplicity and integration into local transport system)	75% citizens use emission free transport 75% of public transport is emission free	100% citizens use emission free transport 100% of public transport is emission free

Plan cycleway network linking communities with cycles/cargo cycles/scooters - important that not immediately adjacent to busy thoroughfares (make it a pleasant option) - Plan wider cycleways to facilitate more traffic - Use more existing roads for active transport only - Plan cycle parking/charging stations in all areas - Include signage with times and map panels, also issue maps to all residents. Can be loaded into Google Maps	50% planned cycleway infrastructure in place	75% planned cycleway infrastructure completed	Cycleway arterial network completed
Plan Park & Ride options from strategic points	Set up - car commutes are halved		No inner city car commutes
Reinstate School zoning (20 min city)	Reinforce School zoning to lessen traffic		
Plan arterial walkway network linking communities and areas of cultural and natural significance (avoiding vehicle-heavy routes), can be combined with cycleways	50% of walkways completed	75% of walkways completed	Walkway arterial network in place
Include signage with walking times and map panels, issue maps to all residents. Load into Google Maps - Include information on history (Tangata whenua/ European settlers) and on biodiversity			
Incentivise and promote car sharing initiatives and organisations – (Ride-share App)			
Incentivise electric vehicle hire/lease and cooperative vehicle subscriptions (gives option to mainly use active and public transport coupled with emission free electric vehicles on demand)			Most citizens do not own cars but share them if and when needed
Plan through-traffic and heavy vehicles by-pass around inner city Dunedin	By-pass in place		

**NATURE:
TE TAIAO**

By 2022	By 2025	By 2028	By 2031
Stocktake of land in DCC jurisdiction (public and private), considering: <ul style="list-style-type: none"> - unproductive/marginal land for re-wilding/biodiversity - land important for food production/resilience 			
Begin re-wilding of marginal areas (regeneration or active management) <ul style="list-style-type: none"> • Funding program in place for private landowners to incentivize re-wilding • Large-scale tree planting programs operating 	50% of marginal areas re-wilded	75% marginal areas re-wilded	100% marginal areas re-wilded
Bolster Pest control efforts e.g. consider cat control legislation			Predator-free city
Green Waste Composting – kerbside pickup – Plan composting hubs in all areas Promote slash/wood chips to be left on land for soil enrichment and biodiversity habitat	Community composting hubs set up		Circular green waste process producing fertile soils
Berms – re-wilding and/or planting - food sources for animals and humans, with reduction in mowing	50% berm re-wilding with food sources done	75% berms complete	All berms re-wilded or planted - providing diversity and food
Promote alternatives to use of poisons	Phase out poisons where feasible - no blanket ban eg: 1080 is necessary	Soils/insects regenerating	
Promote “No Waste” policy (to landfills) <ul style="list-style-type: none"> • Plan repurposing centers and repair cafes. Spaces to store and reallocate goods. 	Recycling, repurposing, repair options in place		Zero waste to DCC landfills (with govt regulation and product stewardship schemes)
Plan for appropriate accommodation surcharge on visitor nightly stays to cover costs on environment and upkeep of infrastructure	Surcharge implemented		

COMMUNITY : HAPORI

By 2022	By 2025	By 2028	By 2031
Local Currency introduction led by DCC - start investigations and assess interest – with support of community organizations	Local Currency policy initiated – businesses have option to join	Local currency circulating, strengthening local economy	Strong local economy with local currency circulating within local community
Public Forums at DCC meetings - continue			
Establish Citizens’ assemblies blueprint	Citizens’ assemblies underway		
Plan for 20 min city living: <ul style="list-style-type: none"> • Provide amenities in all areas e.g. composting hubs, community gardens, medical care, food and goods markets, parks, playgrounds, meeting places, repair workshops	50% of areas have 20 min accessibility to amenities	75% of areas have 20 min accessibility to amenities	Most citizens have access to main requirements in 20 min from home
Walkable/cyclable city (20 minute city)	(See Transport section)		
Community skill development via subsidies to <ul style="list-style-type: none"> • Repair Cafes • People sheds • Recycling/repurposing organizations • Local education hubs 	Increase in community interest/skills More people in community engaged		
Cultural festival program in place: food, music, dance and theatre emphasizing diversity and inclusion of Dunedin’s diverse groups and cultures - stadium/other indoor/outdoor venues	Upkeep and use of existing venues in all areas		
Promote Tangata Whenua local historical information – signage, pamphlets, films etc.			

**PEACE/JUSTICE/SAFETY:
RANGIMÁRIE, MANATIKA, MARUTAU**

2022	By 2025	By 2028	By 2031
<p>Plan/preparation for measuring and reporting on meeting basic needs of citizens:</p> <ul style="list-style-type: none"> • Food security • Housing – warm, dry and affordable • Clean water • Opportunities for recreation • Green/blue spaces - (re-establish some key streams above ground) • Safety, sense of belonging, esteem, self-actualization/realization through: • Building community • Creation of transition employment • Shared participation (paid or volunteered) • Skill development 	<p>Surveys showing 50% of basic needs meet</p>	<p>75% basic needs met</p>	<p>100 % basic needs met</p>

WATER: KÁTAO

By 2022	By 2025	By 2028	By 2031
FRESH WATER (Wai):			
Plan and promote local fresh water conservation: <ul style="list-style-type: none"> • Create map of lakes, aquifers, rivers, streams to protect • Regulate security of local communal guardianship over fresh water • Re-establish some key streams above ground where feasible • Re-wild/plant for water conservation • Plan phase out of toxic chemical use and nitrogen run-off, incentivise alternative practices 	Mapped fresh water is 100% protected All protected freshwater is under community guardianship and managed by councils 50% of planed areas re-wilded/planted Regular free testing of fresh water 75% Nitrogen run-off absorbed in soils	75% areas re-wilded/planted 100% nitrogen absorbed in soils	100% areas re-wilded for water conservation Fresh water is 100% toxin free
STORMWATER (Pókáká):			
Education and incentives for rainwater harvesting and storing in an increasingly volatile climate.	50% of buildings harvest rainwater	75% of buildings harvest rainwater	100% conservation of rainwater
Plan for employing natural systems instead of piping – swales not gutters - increase in riparian planting for water purifying	50% natural systems in new developments 50% riparian plantings done – paid and community involvement	75% natural systems employed 75% riparian plantings done	“100% natural systems employed 100% riparian plantings
Adapt regulations for storm- and grey water			
SEWAGE: (Paru)			
Education and incentives for grey water retention and usage, adaptations for existing buildings	50% of buildings recycle grey water	75% buildings have grey water recycling	100% buildings recycle grey water
Composting toilets, incentives for new builds in place – reuses waste and builds local soils	50% of new builds have composting toilets	75% new builds have composting toilets in place	100% new builds have composting toilets

**SOIL:
ONE**

By 2022	By 2025	By 2028	By 2031
<p>Protection of all soils from erosion and depletion</p> <ul style="list-style-type: none"> • Plan native plantings on unproductive and/or eroding land <p>Protection of all prime food growing soils</p> <p>Education and promotion of soil regeneration with attention to overall soil health, specific soil deficits and increase of biodiversity:</p> <ul style="list-style-type: none"> • Incentivise regenerative growing practices • Plan free soil health workshops • Adopt scientific soil health scoring system • Plan free community soil health analysis service with incentives to increase scores • Decrease intensive monocultures • Incentivise increase in diversity • Decrease of unnecessary poisons • Re-evaluation of the use of artificial fertilizers with view to reduce its use 	<p>50% of unproductive land planted</p> <p>All prime food growing soils are under protection</p> <p>Soil health scores improved by 50%</p> <p>50% increase in diversity</p> <p>Substantial reduction in artificial fertilizer use</p>	<p>75% unproductive land planted</p> <p>Soil health scores improved by 75%</p> <p>75% increase in diversity</p>	<p>100% unproductive land planted</p> <p>100% increase in biodiversity and health of soils</p> <p>Soil health scores improved by 100%</p> <p>100% increase in diversity</p>
<p>Plan to utilize all community food/green waste to build soils</p> <ul style="list-style-type: none"> • Incentivise separation of food/green waste from general waste • Incentivise local composting of food/green waste on site – rates rebate/free compost • Plan composting hubs in all areas (attached to community gardens) • Free regular composting workshops • Incentives to use green waste on site • Free community mobile chipping service 	<p>100% of food and green waste is utilized for building soils</p> <p>Composting hubs set up in all areas</p>		

**AIR:
ÁNGI**

By 2022	By 2025	By 2028	By 2031
Measure and record pollution of local sources e.g. transport, industry, heating Set targets for reduction: Incentivise elimination of pollution	50% pollution reduction	75% pollution reduction	100% pollution reduction
<ul style="list-style-type: none"> • Set up regulations to decrease pollution – carbon, odours, industrial toxins • Pollution levy • Public loans to replace boilers/burners/heaters • Plan to incentivize carbon reduction of businesses and citizens. • Incentives through nominations of people who have achieved reductions 	50% heating, industry and private transport is free of pollution Citizens and businesses have 50% carbon reduction	75% heating, industry and private transport is free of pollution Citizens and businesses have 75% carbon reduction	Industry, transport, heating is free of pollution Citizens and businesses have 100% carbon reduction
Plan increase of clean transport/walk/cycle/bus/train	50% public transport is pollution free	75% public transport is pollution free	100% public transport is pollution free
Plan increase in plantings – reserves, forests, berms, wild areas etc to increase clean air	50% increase in areas devoted to reserves, forests, berms and wild areas	75% increase in areas devoted to reserves, forests, berms and wild areas	100% increase in areas devoted to reserves, forests, berms and wild areas

ENERGY: PÚNGAO

By 2022	By 2025	By 2028	By 2031	
Measure and monitor fossil fuel use of industries, businesses and households Public education/promotion/workshops on how to prosper while using much less energy Planning for: Energy conservation -Incentives for industries, businesses and households to reduce fossil fuels and overall energy use <ul style="list-style-type: none"> • Put new high energy efficiency laws in place <ul style="list-style-type: none"> - energy efficient housing regulated at level suitable for local conditions - solar hot water, solar panels on all new builds -incentives for older builds to have solar hot water, solar panels and insulation • Local community energy production sites (wind, solar, hydro, wave) • Incentives for private small scale renewable energy production • Citizen loans for energy generation (via rates?) • Re-evaluate biofuel use – (plant material is vital for replenishment of soils, carbon storage, biodiversity, fertility and food) <ul style="list-style-type: none"> • Emission free public transport 	50% less fossil fuel use	75% less fossil fuel use	Fossil fuel use phased out	
	100% of new builds are built to high energy efficiency standards			
	50% old builds have solar panels, solar hot water and insulation	75% old builds energy efficient	100% old builds energy efficient	
	50% of local energy comes from solar, wind, hydro, tidal	75% of local energy comes from solar, wind, hydro, tidal	100% of local energy comes from solar, wind, hydro, tidal	
	50% emission free public transport	75% emission free public transport	100% emission free public transport	

FOOD SECURITY:

By 2022	By 2025	By 2028	By 2031
Education on sustainable food consumption - focus on local and seasonal produce - free workshops/promotion/programs <ul style="list-style-type: none"> • Measure and report on carbon foot prints of local and imported foods • Inventory/map of existing prime soils for intensive food growing. Protect prime soils 	50% food consumed has low or no carbon footprint	75% of food consumed has low or no carbon footprint	100% food has low or no carbon footprint
<ul style="list-style-type: none"> • Plan for increasing and diversifying local food crops 	50% share of food is locally grown	75% share of food is locally grown	
<ul style="list-style-type: none"> • Map of areas for extension in regenerative food production - farms, parks, berms • Set up grants for growers to access land and training - Protection for local growers 	50% of designated areas in diverse food production - farms, parks, berms	75% of designated areas in diverse food production - farms, parks, berms	100% of designated areas in diverse food production - farms, parks, berms
<ul style="list-style-type: none"> • Plan urban farms in all areas • Initiatives in place to share private growing spaces - homes/neighbours 	50% of urban farms set up	75% of urban farms set up	100% of urban farms working in all areas
<ul style="list-style-type: none"> • Plan for community gardens with composting hubs in all areas 	50% of community gardens with composting hubs in place	75% of community gardens with composting hubs in place	100% of community gardens with composting hubs in place
<ul style="list-style-type: none"> • Food security 	50% of residents report food security	75% residents report food security	100% residents report food security

HOUSING:

By 2022	By 2025	By 2028	By 2031
Assessment of existing housing stock/dwellings mostly unoccupied Incentives to make these available for citizens to live in	100% of empty dwellings occupied		
Plan for increased density of homes/apartments within existing residential areas, while reserving enough, and the most fertile land for local food farming within the city periphery, to feed the local population (see Food section)	50% of existing housing areas adapted to higher density living, with food farming areas to feed local population	75% of existing housing areas adapted to higher density living and enough local food farming	100% of existing housing areas adapted to higher density living
Plan for energy efficient housing for all by 2031 Set up regulations on climate safe construction - high energy efficiency rating system (add to LIM) Use of emission calculators for all project planning	50% of all dwellings are energy efficient 100% new builds built to high energy efficiency	75% of all dwellings are energy efficient	100% of community live in energy or high energy efficient housing
Plan for use of locally sourced and produced building materials Plan for training and retaining experienced maintenance and construction workers Set up regulations for easy mobile/tiny/communal house building	50% of materials locally sourced and/or produced	75% of materials locally sourced and/or produced	100% of building materials are locally sourced and/or produced
Plan for repurposing existing buildings suitable for conversion into safe/functional/warm housing Plan for recycling deconstruction materials	All suitable older buildings are being repurposed Deconstruction materials are recycled as much as possible		
Plan for good access to sun light, natural spaces, amenities and public transport (20 min city). (See Health section below)	50% of housing has good access to light, natural spaces and amenities (20 min city)	75% of housing has good access to light, natural spaces and amenities	100% of housing has good access to light, natural spaces etc.

HEALTH:

By 2022	By 2025	By 2028	By 2031
Set up regulations for citizen/civic ownership of water – not for sale.	50% of people have medical facilities within 20 min reach	75% of people have medical facilities within 20 min reach	100% of people have medical facilities within 20 min reach
Plan for:	50% residents report food security	75% residents report food security	100% residents report food security
<ul style="list-style-type: none"> • Access for all to medical facilities, dentists, Plunket, physiotherapy etc (20 min city) • Local food security • Local materials and skills for making clothing, shoes - wool, hemp, leather • Warm, dry, energy efficient homes for all • Clean water - maintenance of infrastructure and plantings • Assessment and elimination of pollution at source • Managing sewage - maintenance of infrastructure, composting toilets • Emissions-free public transport for all • Free/cheap access to healthy pursuits: swimming, walking, biking etc. • Increased accessibility to natural green environments • Involvement of all citizens in community/employment • Introduction of school zoning - walking and cycling to school and after-school activities – building up safe walk/cycleways. 	50% of maintenance of infrastructure and plantings for clean water done	75% of maintenance of infrastructure and plantings for clean water done	100% of maintenance of infrastructure and plantings for clean water done
	50% (air water soil) pollution reduction according to current measures	75% pollution reduction according to current measures	100% pollution reduction
	50% emissions free public and private transport in city	75% emissions-free public and private transport	100% emissions-free public and private transport
	50% increase in accessible natural green spaces (within walking/cycling distance)	75% increase in accessible natural green spaces within walking/cycling distance	100% increase in accessible natural green spaces within walking/cycling distance
	100% of citizens involved in community/employment		

TRADE:

By 2022	By 2025	By 2028	By 2031
<ul style="list-style-type: none"> • Plan to report on source and carbon footprint of all local and imported goods and services • Introduce carbon foot print calculators to households and businesses • Plan incentives for reduction of carbon footprint of goods and services traded locally • Plan to incentivize investments into local carbon neutral projects and products • Public and business education drives • Regulations for packaging to be non existent or minimal/reusable/degradable 	<p>50% of goods and services are chosen on base of low carbon foot print</p>	<p>75% of goods and services are chosen on base of low carbon foot print</p>	<p>100% of goods and services are chosen on base of low carbon foot print</p>
<p>Retention of money within, and benefitting community:</p> <ul style="list-style-type: none"> • Plan for local community markets in all areas (20 min city) • Development of Time Banking, ‘green dollars’, bartering systems • Introduction of local currency for parallel means of exchange 	<p>50% of local markets set up dispersed in areas</p> <p>50% of local trade uses alternative systems of exchange eg Time Banking, bartering</p> <p>50% of local trade is in local currency</p>	<p>75% of local markets set up dispersed in areas</p> <p>50% of local trade uses alternative systems of exchange eg Time Banking, bartering</p> <p>75% of local trade is in local currency</p>	<p>100% of local markets set up dispersed in areas</p> <p>50% of local trade uses alternative systems of exchange eg Time Banking, bartering</p> <p>100% of local trade is in local currency</p>

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ORGANIZATION AND CIVIL STRUCTURES

By 2022	By 2025	By 2028	By 2031
<p>Recognition of the interconnectedness of all aspects of council decision making</p> <p>Plan for including and tapping into expert knowledge of citizens</p> <ul style="list-style-type: none"> • Plan for citizen assemblies to guide/support local government • Hold regular events for exchanges of knowledge 	<p>Citizens assemblies meeting regularly</p>		

CENTRAL GOVERNMENT RESPONSIBILITIES

Council, citizens groups and individuals lobby Government for:

By 2022
Education campaign (e.g. team of 5 million creating a carbon neutral, fair society together)
Plan to ration NZ emissions nation-wide to reach carbon neutrality by 2031 <ul style="list-style-type: none">• Plan to report on carbon footprint of local and imported goods and services• Introduce carbon foot print calculators to government, businesses and households
Incentives for nationwide carbon reduction in products and activities <ul style="list-style-type: none">• Regulations for reduction of carbon footprint of goods and services traded locally, nationally and internationally e.g. aviation, shipping etc.• Incentives for investments in carbon neutral projects and products• Incentives for investment in emission free public transport and energy production• Incentives and compensation for planting on unproductive farm land• Incentives to change to regenerative, diversified food growing practices• Incentives to increase biodiversity in all areas
New regulations for high energy efficiency in building industry and industry pollutants

<p>Protection laws in place for prime fertile soils and wild areas</p> <p>Protection of water, waterways, lakes rivers, streams, aquifers as common good</p> <p>Ban on artificial fertilizers -introduction of alternative methods</p>
<p>Denser housing for all with access to amenities and active/public transport (20 minute city)</p> <p>Prevent urban sprawl</p> <p>Reduction of wealth gap -Tax on sale of property and inheritance</p>
<p>Active involvement in community/employment</p>
<p>Waste regulations for all packaging - plastic and excess – incentives for use of alternatives e.g. glass/wood/fibre</p> <ul style="list-style-type: none">• Mandatory product stewardship schemes -Producer extension of responsibility
<p>Fair Trade agreements attached to all trade</p>