31 May 2011
Trafalgar Pavilion, Trafalgar Park
Framing Our Future Community Workshop (7.00pm – 9.30pm)

In our future we will see:

1. We understand our reliance on the health and wellbeing of our environment, so we protect, restore and enhance biodiversity across all ecosystems

This will reflect and / or embrace:
- Biodiversity and natural environment is protected, enhanced and restored
    o Value nature
    o Need to protect environment and habitats – benefit to the community/ biodiversity/ fresh water
    o Natural environment is seen as such an asset we wouldn't ruin it
    o Regeneration of native vegetation – indigenous to local area
    o Control of visual environment e.g. degradation of landscape by forestry
    o Old Man's Beard and Banana Passionfruit totally under control
    o Restoration and enhancement of lost indigenous ecosystems
    o Cooperative efforts between forestry industry / N.C.C. and 'green' volunteers to collect and transplant trees from native understory below pines about to be harvested, in order to re-establish native forest faster in other areas
    o Enhance ecosystems on council land
    o A thriving Brook Sanctuary, with re-introduction of previously lost native species
    o Half of Tasman Bay is a reserve
    o Purchase lowland farms for mixed management – biodiversity / recreation/ commercial
    o N.C.C. leads by example with management of land – minimise use of fossil fuels - retire land in forestry on the edge of Nelson for recreation and biodiversity
    o Eliminate invasive exotic plants e.g. Old Man's Beard
    o No pesticides – no herbicides
    o We live with a clear understanding of our reliance as a community on the wellbeing of our environment

- **Burgeoning biodiversity**
    o No barriers for fish migration
    o Riparian margins protected and restored
    o Restore fish life - freshwater and saltwater
    o Degraded habitats are restored
    o Agapanthus is gone from Council green space
    o Native plantings in private gardens is encouraged

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- o All exotic species are eliminated from 90% of land area
- o 20% of coast is marine reserves
- o Aqua-farming seafood, with strict environmental controls
- o Recognition of all organisms, not just the glamorous ones
- o Healthy populations of native species

- **Pure and plentiful water (quality and quantity)**
  - o Secure water supply
  - o Value the importance of water
  - o Encourage recovery / reuse of roof water – ensure it's not too complex
  - o Less hard surfaces (porous paving)
  - o Clean rivers and streams
  - o No pollution allowed to be released into rivers or streams
  - o We value water and our ocean and do our bit to reduce ocean acidification
  - o Using wet lands and reeds to purify storm water
  - o Constrain N.C.C.'s engineering department regarding inflexibility on 'standards' e.g. freshwater usage rates, composting toilets
  - o Fluoride added to council drinking water to improve dental health in children
  - o Don't add fluoride to water – find alternative ways of medicating the population
  - o Less water pollution from zinc and lead (cars)
  - o Drinking water with no fluoride added – require fluoride in toothpaste, and a higher rate in kids toothpaste

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2. Resource efficient homes and communities

This will reflect and / or embrace:

- **Healthy housing**
  - o Less imports in building materials – locally grown, made and sourced
  - o Every new home must be built with solar hot water panels installed, and in homes with wood fire, wetbacks for heating water as well
  - o Take an active role in housing, especially for older folk – housing brokerage
  - o Cooperative housing for older people – non-commercial, not-for-profit
  - o Land/ house valuation is based on sustainable features rather than 'trends' and huge rambling houses
  - o Builders and commercial building companies must comply with sustainable practices – untreated timber framing, recycling building materials, locally sourced, solar, environmentally friendly materials, maximum insulation

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- o Housing – maximum insulation, double glaze / passive solar design / water reuse, collection and storage / electricity production

- **Sustainable urban design is the norm**
  - o A compact urban area that doesn't spread any further onto available land, or up hills
  - o Don't expand land available for housing any further – need to think of better ways to design urban housing developments
  - o No high rise buildings (maximum 3-storeys)
  - o Built environment is higher density – better infrastructure etc (many Euro cities good examples)
  - o Trees scale
  - o Suds design – grey water systems in all houses - rain water tanks – solar hot water
  - o Use less energy – insulate homes and businesses
  - o Living near your work
  - o Legislation for sustainable housing – insulation/ solar hot water/ low carbon/ light roofing/ almost no heating required
  - o Households use water efficiently e.g. rainwater
  - o Old notions of cemeteries are seen as a vanity
  - o Make it more attractive to stay in the local area – less need to travel
  - o Design guidelines for our future built heritage

- **Home unit is self-reliant – mandatory standards of energy generation/ resource capture and storage**
  - o Personal energy production e.g. wind, solar, photovoltaic
  - o Local energy generation
  - o Private sustainability e.g. water collection/ solar collection
  - o No mention of cheap oil availability on a global scale
  - o Make Nelson a pleasant safe place in the absence of cheap energy
  - o Produce your own energy in home unit
  - o Water catchment
  - o Need sustainable heating source

- **Fresh water is captured and stored**
  - o All homes using community based 'BioLytix' waste water treatment systems – grey and black water recycling - 8-10 houses per unit
  - o High water quality in our streams and waters
  - o Encouraging large stores (NW, Mitre10 Mega etc) to collect/ use rain water for own facilities
  - o Domestic households water farming
  - o All houses have their own rainwater tanks – filtered into homes – drinkable and safe – first flush system on roof
  - o Incentives to collect rainwater
  - o Rain water harvesting and grey water recycling to reduce demand for treated water
  - o Gray water reuse

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- Grey water irrigation funded by N.C.C. – composting toilets N.C.C. requirements
- Water reuse
- Water smart – grey water recycling systems – can redirect from hand basins, washing machines etc into garden
- Restrictions on sale of perfumes, whiteners and petroleum based detergents

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3. We are a happy, inclusive, resilient community

This will reflect and / or embrace:
- **Sharing and caring societal social structure**
  - System to share knowledge and skills about living issues
  - Multi-family nursing i.e. eco housing - community shared properties with individual housing and common room/ kitchen / dining
  - Plan for an economy as a subset of the environment - respect equitable limits to growth
  - Reduce culture of alcohol glorification
  - Time bank that includes council services
  - Freedom from underground economy or 'mafia-control'
  - Resilience for new issues & knowledge / sudden events e.g. Christchurch earthquake/ not just the systems covered in Cawthron Stocktake Report
  - Major commitment to Futures Research with eco-sustainable focus - say 10% of GDP and tax free
  - Economic resilience via local currency – how we 'share'
  - Local tertiary education

- **Enhance social equity**
  - No areas with a Deprivation Index greater than 7
  - Improve the city's Deprivation Index to better than 5 – a key deliverable of Long term Council Community Plan
  - Policies for social equity to reduce differences/ progressive rating system

- **Safe, happy, connected communities**
  - Technology used to connect communities
  - Safe
  - Supportive neighbourhoods and families
  - Older people respected and seen as part of the community resource
  - Everyone happy, joyful, at peace with self and the universe etc

- **Resilient, engaged youth**
  - Static population

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- o Mentoring 'at risk' youth – elderly retried people/ parents – more structure than Big Brother:Big Sister, but same idea
- o Periodic detention is gardening more than scrub cutting
- o Drink drivers etc do community learning – gardening and self-sufficient training, instead of institutionalising them

- **We are a caring and happy community**
  - o Caring and supportive community – people enjoying their lives, homes, work, families
  - o Limit corporate power and prepay environmental clean-ups
  - o Safe

- **Pride in community – education, honesty, morals, values**
  - o Respect for historic heritage structures and places – less destruction
  - o Restrict family and population growth – population should not exceed resources
  - o Community spirit
  - o Generate civic pride
  - o From polytechnic to university – a diversity of ages
  - o Egalitarian society – equitable sharing of resources
  - o Centre for green technologies via polytechnic
  - o Quality public ethos – honesty about costs consequences and intergenerational effects – control value boundaries

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4. Transport – We have local and regional transport choices, with an emphasis on cycling, walking and public transport that are time- and cost-efficient, carbon-neutral, safe and healthy

This will reflect and / or embrace:
- **Efficient, sustainable, regional and local transport choices**
  - o Better public transport systems
  - o Good public transport throughout our region
  - o Plenty of public transport - electric and solar driven – no new roads – less cars and more public transport
  - o More energy efficient transport
  - o Keep kids on bikes – make it harder to get driver licences
  - o Children walk or cycle to school
  - o Encourage and reward private businesses that provide better and more visible facilities for cyclists
  - o Shorter working days in winter – safer for biking
  - o Most people move about by walking, cycling or public transport
  - o Link cycle ways – link walkways – cycle crossing right-of-ways
  - o Continue to develop walkways, cycle ways and public transport
  - o Giant land wakas where all passengers cycle as a group – human powered transport

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- No private cars in 50 years time
- Reduce road speed on open roads to 80km (saves fuel and reduces noise)
- Reduce air pollution from car/ truck emissions
- Car parking, sharing vehicles and ride to minimise the amount of fuel used
- Constrain of 'hard' coverage – concrete and roads
- Less hard surfaces
- No more roads, upgrades or expansion
- Stop investment in roading – invest in active transport and public transport
- No more road widening (more roads = more cars)
- Fewer domestic flights from the airport – reduce carbon emissions
- Train connections to Picton-Wakefield-Christchurch
- Small common usage light rail vehicle (mini rail)
- More coastal shipping – freight and passenger

- **People friendly inner city hubs and towns**
  - Less emphasis on oil - better public transport needs change of mindset
  - Roads are built for cycling and walking – only out-of-town roads are designed for cars
  - Only pedestrians and cyclists on inner city town (apart from e.g. in the mornings)
  - Remove private petrol powered vehicles from inner city
  - Vibrant human-scale walk able city – medium density housing – a city for people not cars

- **Transport – paying real cost – safety**
  - Less reliance on private motor cars – natural encouragement to walk/ cycle
  - Prepare for cycling/ walking – land take and planning
  - Small buses for regional transport
  - Accessible, affordable public transport
  - Better cycling access needed – is still dangerous
  - Safety – cycling / walking
  - Cycle transport by hill cable

- **Personal transport – most people choose to travel by public transport, bikes or on foot, or solutions that have a low carbon footprint**
  - Green bus links from airport to city centre
  - Better public transport – trains/ buses/ bikes
  - More public transport – switch to electric bikes
  - Nelson is safe for kids to bike to school – and they do
  - More bikes than cars

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- **Smaller, lighter and less transport**
    - o Flexible working hours to reduce peak-hour traffic flows
    - o Improved road safety
    - o Passenger/ car ferry to Auckland/ Manukau Harbour
    - o Sustain local activities to discourage travel away
    - o Better public transport
    - o Reduce traffic noise
    - o Networks of walkways and cycle ways linking residential and commercial areas
    - o Public transport – "cycling and walking OK" faint praise – public transport

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5.   **S – Secure**
        L – Local
        E – Energy
        E – Efficiency
        Z – Zero
        E – Emissions
        R - Renewable

   This will reflect and / or embrace:
- **We are regionally self-sufficient**
    - o All new homes are built sustainability e.g. solar panels for hot water
    - o We have an excellent coastal shipping service running on renewable energy
    - o Energy self-sufficiency – wood waste for fired thermal power station (combined heat and power) with the surplus heat replacing coal burning in greenhouses in Appleby
    - o We have thriving renewable energy industry, based on algae and other innovative products
    - o Moved away from reliance on oil – diminishing hydro power production across to wind/ solar
    - o Renewable energy
    - o Possibilities to harness storm water systems run-off to local storage tanks, then used as feed source for micro hydro power
    - o Households responsible for power – solar – wind
    - o Community wood lots for firewood – managed, harvested and monitored so that is can also be controlled and dried properly before burning
    - o Self sufficient in energy from renewable sources, but not any more major dams
    - o Backyard solar cooking/ BBQ competition sponsored by N.C.C.

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- **Energy Security – independent Nelson off the grid**
    - A centre for solar technologies
    - Energy efficient households and economy
    - Large percentage of local energy generation – photovoltaic, digesters, bio fuel, clean wood burners
    - Building code requires high level of energy efficiency – triple glazing, insulation
    - Need to generate our own power and fuel in Nelson – bio fuel from pine forests and algae, and wind farms so we're not reliant on the grid
    - Off the national grid, with local energy generation
    - More incentives for solar energy/ double glazing/ insulation
    - Primary industries - less reliance on fossil fuels

- **Meet energy needs through local renewable solutions that respect the environment**
    - Solar hot water needs to expand, and other uses of solar energy
    - Better energy sources – improving air quality in a sustainable way without being reliant on electric appliances
    - We have local renewable energy solutions
    - Reduced dependency on fossil fuels
    - Nelson being self-sustainable in electricity and diesel; electricity because we are at the end of a long supply line, and diesel because the fishing industry is dependent on it

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6. Climate change – Welcome the challenge of moving from a size 10 eco footprint to a size 4
  - **Need for an attitude change to recognise that there are natural limits and that the economy is a subset of our society, which is in turn a subset of our planet**
  - **Need to move away from worshipping the 'growth model'**
  - **Need to move to being carbon-negative**
  - **Sea level mitigation and response**
  - **Slower lifestyle**

This will reflect and / or embrace:
- **We plan for climate change**
    - By 2060 there is likely to be sea level change and we are responding to it
    - We have designed excellent house boats to house families in low-lying areas
    - We have successful programme to integrate environmental refugees from the Pacific
    - We have initiated a carbon diet for all of us to be aware of – so that carbon emission are at a healthy level

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- **Carbon emission neutrality**
  - Nelson 2060 is carbon negative – net absorption of carbon
  - Our lifestyles have to be slower and use less energy
  - Carbon emission of the five sectors are trending slightly down or mildly up, except transport; council has a proposal to meet our target

- **Size 4 Eco Footprint**
  - Aim for high quality of life + living in harmony with the environment
  - Tend to be too anthropocentric – children's children / wellbeing etc
  - Maximum target population – eco footprint - not opened ended growth
  - Main goal is to change our thinking from the weak to the strong sustainability model
  - Develop robust baselines and avoidance of 'shifting baseline' trap e.g. "today's environment is how it should"
  - Attitude change – less consumption – big is not best – we are responsible for our surrounds - not growth focused
  - Council should not be planning on a growth model
  - Progress, not growth
  - Managing environment without poisons or sprays
  - No non-reusables re recycled packaging – plastic bag free
  - No more plastic shopping bags or throw-away coffee cups
  - Houses designed to meet heat requirements

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7. Food –
  - **Education – growing/ nurturing/ seasonal produce/ standards/ technology**
  - **Local scale production**
  - **Resource protection**
  - **Community markets**
  - **Environmental protection**

This will reflect and / or embrace:
- Self-sufficient food sources – eat local
  - Become self-sufficient in food for our region – less grapes and more grains
  - Food production on public land
  - Lots of fruit and nut trees in community parks and gardens
  - Food production on council land
  - Community gardens – organic allotments for people in flats with no garden space – all ages involved, sharing wisdom
  - Eat locally sourced seasonal food
  - Vast majority of food consumed is locally produced
  - Thriving farmer markets and community assisted agricultural systems
  - Food and milk grown in the region will be available locally

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- o Edible trees are in all roadside plantings – available for all – used by schools for education – organic

- **Food supply 2060 is meeting local needs with local food**
  - o We grow most of our food locally
  - o Local products are more self-sufficient – value put on local foods / fair trade
  - o Food suppliers and local production meets local needs – more vegetarians
  - o Grow more of Nelson's food needs locally
  - o Food production is totally organic – BioGrow or equivalent standards
  - o Reduced incidences of lifestyle related diseases

- **Lots of people love to interact with nature**
  - o Funding of organised sports has been hugely funded compared to arts and cultural funding – more equitable distribution of funds between sports and arts
  - o More informal recreation opportunities instead of just rugby, netball and hockey – make it appealing and easy to go out on nice walks and bike rides
  - o Sport and recreation – get more people out into the outdoors – easy 'gateway' options – education making it fun
  - o Drinking fountains along walkways
  - o Recreation – decentralised structure e.g. not all at Saxton Field
  - o Increase unstructured recreation e.g. cycling walking Stop investing in sport – invest in recreation instead

- **Funky arts scene**
  - o Well resourced community arts groups and facilities
  - o Reputation as a funky arts centre, with a thriving arts community
  - o Op-shops scattered all over the community – styled and modern where second-hand is 'normal'
  - o Local TV station – grass roots positive news – government funded
  - o Craft markets in clusters – well established throughout the region
  - o Cash-free trading – people swapping goods and services without using money
  - o We still have the Saturday market

- **Zero Waste**
  - o Biodegradable food packaging
  - o The recycling:waste ratio is turned around to 9/10th recycled:1/10th waste

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- o Less producer resource in packaged products
- o No waste in Nelson – waste volumes are reducing nationally
- o All homes have bins to reuse/ compost vegetable/ recycled materials
- o Green waste bins for separation of biomass – wheelie recycling bins for greater acceptance
- o Zero-waste households
- o Integrated waste / resource management economies of scale – local markets (NZ) – socially responsible
- o Zero-waste target by design – resource efficiency
- o Concentrate on composting
- o Educate about recycling and reusing etc – no refuse – refuse burnt to create heat/ energy
- o 'Waste' is a word of the past – all waste is considered resource
- o More education about recycling reuse etc
- o Change language from 'recycle' to Reduce then Reuse then Recycle

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- • **Economy is driven by sustainable values (social cultural and environmental)**
    - o Act local – think global
    - o Nelson's economy is based on local strengths
    - o Education system is not based on economic growth model
    - o Society driven by environment rather than growth – reduced consumption
    - o Economy means management of the system (as it should)
    - o General understanding on what a satisfactory living standard actually is
    - o Age profile – good employment opportunities – diversity of ages

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- • **Air quality is healthy**
    - o Removal of wood burners has consequences for use of electricity
    - o Using wood as source of home heating is carbon neutral and sustainable – cleaner wood burners for 2060
    - o Monitor PM2.5 (particulate matter) – source apportionment for fine particulate PM2.5
    - o Major improvement in air quality – more monitoring of fine particulates – health and wellbeing

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