



UPDATE ON DOUGHNUT ECONOMICS FRAMEWORK

2021-MAR-08

PURPOSE

To Review and Confirm....

We are here

 What is a Doughnut Model/Portrait?

 Steps to build Nanaimo's Portrait

 Scenario Development

 Next Steps





What is a Doughnut Economics Model?

- What is a Downscaled Doughnut/City Portrait?
- How does it relate to past and current sustainability efforts and Council direction?
- Why is it a useful way of visualizing sustainable development?

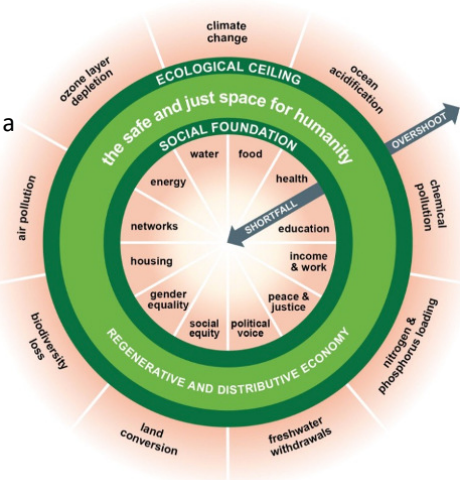


What is a Doughnut Economics Model?

A way to visualize and organize ideas for achieving sustainable development shown in a series of circles with wedges

Combines ideas about achieving social well-being for all humans while respecting ecological limits

Uses United Nations' Measure and Concepts of Sustainable Development





What are the Foundations?

“Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs”

1987 UN Brundtland Report
Our Common Future



What is a Downscaled Doughnut / City Portrait?

A way to explore how our City can support *'thriving people in a thriving place'* (social, economic, environmental, cultural priorities), while also considering our local and global social and ecological responsibility.





How does it fit with Council Direction?

Strategic Plan Vision

To be a community that is livable, environmentally sustainable and full of opportunity for all generations and walks of life



City Planning, Sustainability, and Monitoring Progress....

OCP Adoption Plan Nanaimo (1996)

Progress Nanaimo Report (1998)

Progress Nanaimo (2006)

OCP Update planNanaimo (2008)

RGS Goals and Indicators (2011+)

REIMAGINE NANAIMO (2020-2022)





How does it fit with REIMAGINE?



"THE WHAT"

- ▶ Start a community conversation
- ▶ Understand where we are now
- ▶ Explore community priorities and issues
- ▶ Think long-term – where do we want to go?

"THE HOW" **WE ARE HERE**

- ▶ Develop scenarios for how our community can achieve its shared vision and goals
- ▶ Evaluate how scenarios support our goals
- ▶ Discuss trade-offs and difficult decisions together

"THE TOOLS"

- ▶ Develop policies and actions that will direct change to achieve our community goals
- ▶ Review the draft policies and actions together

"THE PLANS"

- ▶ Draft the plans: OCP Update; Parks, Rec and Culture; Active Transportation; Climate Action;
- ▶ Align with Economic Development Plan and Water Supply Strategic Plan
- ▶ Review together
- ▶ Adopt and implement



What is a Doughnut Model/Portrait?

We are here



Steps to build Nanaimo's Portrait?



Scenario Development



Next Steps



 Steps for Nanaimo's Model & Portrait



**Be Calm
Be Kind
Be Creative!**



You Pick

**Doughnuts/Hubs/ Life Savers
and other round things??**



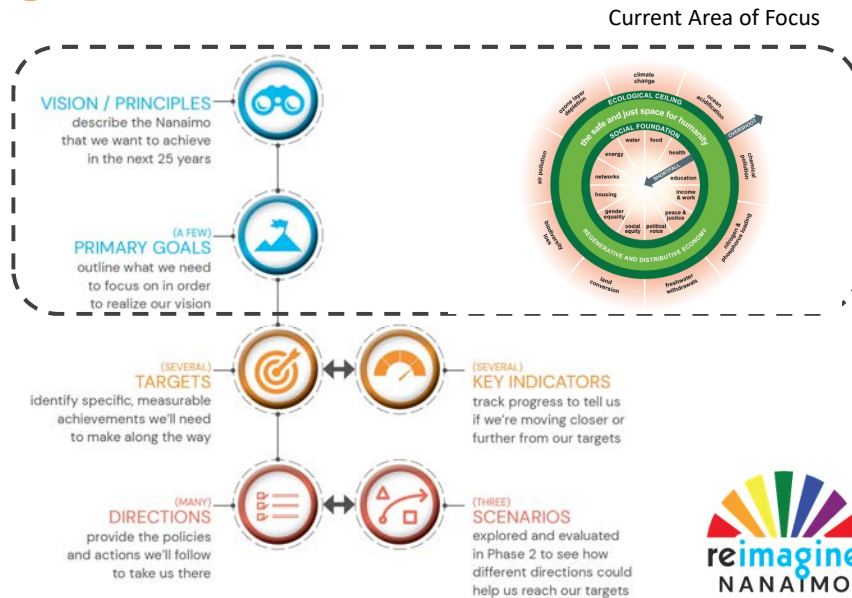
PAINTING NANAIMO'S PORTRAIT...



- ① Choosing Our Goals (Focus/Lenses)
- ② Putting Together a Portrait
- ③ Identify Targets and Indicators
- ④ Confirm Targets/Indicators/Portrait
- ⑤ Use Portrait to Evaluate Scenarios



① Choosing our Goals...



① Choosing Our Goals...

FEB 2020, Council endorsed guiding principles for REIMAGINE

1. **Build on success**
2. **Incorporate Council’s strategic themes:**
Environmental Responsibility, Governance Excellence, Livability, and Economic Health
3. **Acknowledge and address climate change, Truth and Reconciliation, and sustainable service delivery**
4. **Robust community engagement**
5. **Monitoring process to measure and track progress**
6. **Provide a clear and coordinated vision to guide community-building for the next 25 years**



① Choosing Our Goals...

Strategic Plan Vision

To be a community that is livable, environmentally sustainable and full of opportunity for all generations and walks of life



1 Choosing Our Goals...

Align Sustainable Development Goals with Council Strategic Plan and Direction

The infographic displays the 17 Sustainable Development Goals (SDGs) in a circular arrangement. The goals are: 1. No Poverty, 2. Zero Hunger, 3. Good Health and Well-being, 4. Quality Education, 5. Gender Equality, 6. Clean Water and Sanitation, 7. Affordable and Clean Energy, 8. Decent Work and Economic Growth, 9. Industry, Innovation and Infrastructure, 10. Reduced Inequalities, 11. Sustainable Cities and Communities, 12. Responsible Consumption and Production, 13. Climate Action, 14. Life Below Water, 15. Life on Land, 16. Peace, Justice and Strong Institutions, and 17. Partnerships for the Goals. The central logo also features the UN Declaration on the Rights of Indigenous Peoples and the Truth and Reconciliation Commission of Canada: Calls to Action.

1 Choosing Our Goals...

Use PHASE 1 REIMAGINE ENGAGEMENT

	HOW WE LIVE Creating safe and well-connected neighbourhoods with easy access to our daily needs (see p.41)		HOW WE MOVE Planning safe routes for all residents, regardless of the modes of travel they choose (see p.83)
	HOW WE CONNECT AND PLAY Providing a range of cultural and recreational opportunities while protecting our natural areas (see p.49)		HOW WE WORK Creating quality, sustainable jobs that encourage economic growth and improve quality of life (see p.93)
	HOW WE ADAPT AND STAY GREEN Reducing impacts to environmentally sensitive areas and addressing climate change impacts (see p.75)		HOW WE CARE Providing diverse and affordable housing opportunities and health services for all (see p.99)



The logo for 'reimagine NANAIMO' features a stylized sunburst or fan shape composed of multiple colored segments (yellow, orange, red, purple, blue, green) above the text 'reimagine' in a lowercase, sans-serif font, with 'NANAIMO' in a smaller, uppercase, sans-serif font below it.

① Choosing Our Goals...

Use the Old Fashioned Doughnut

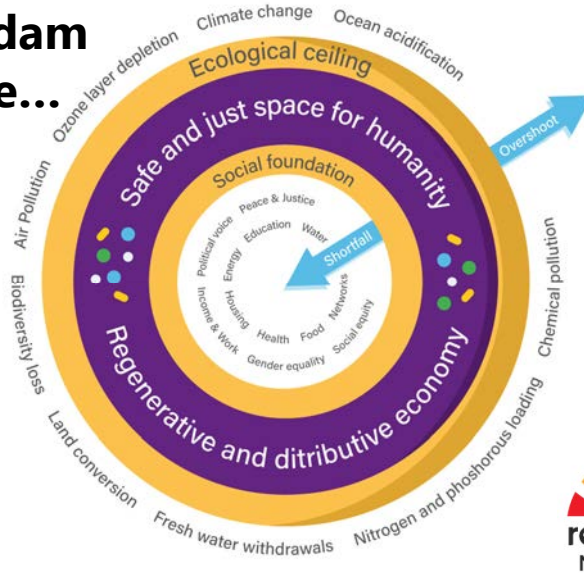
Organize our goals using customized layers of Doughnut Economics :

Local Social & Ecological
Global Social & Ecological



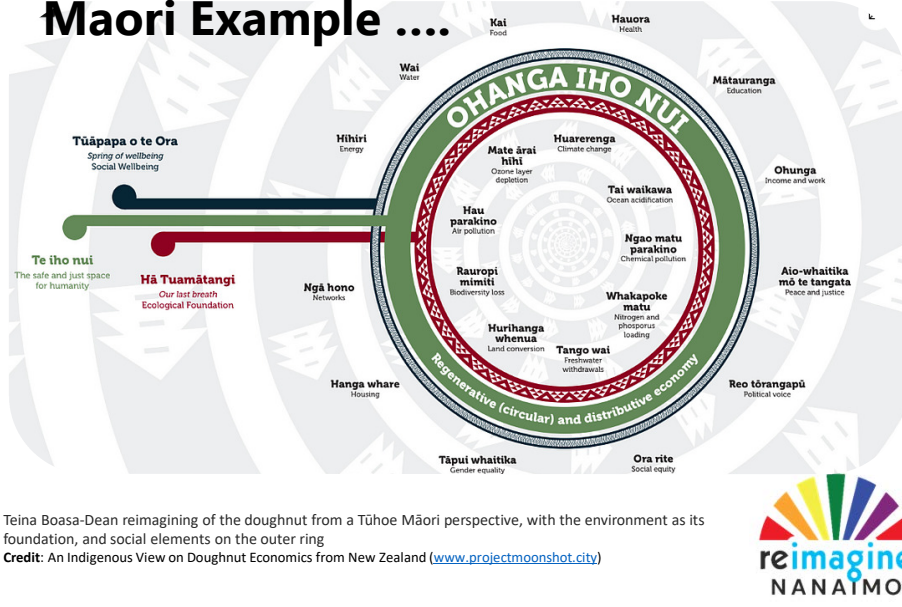
② Putting together a Portrait

Amsterdam Example...



② Putting together a Portrait

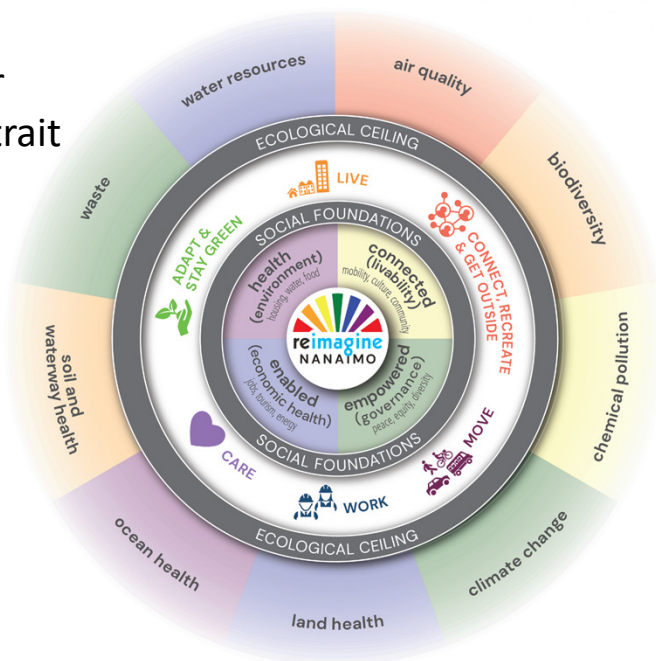
Maori Example



② Putting together Our Portrait

A DRAFT Nanaimo Example...

Based on Council direction in sync with the old-fashioned doughnut



3 How do we use our Portrait?
(Vision/Principles/Goals/Priorities?)

Where have we come from?
(Measuring past progress: better or worse?)

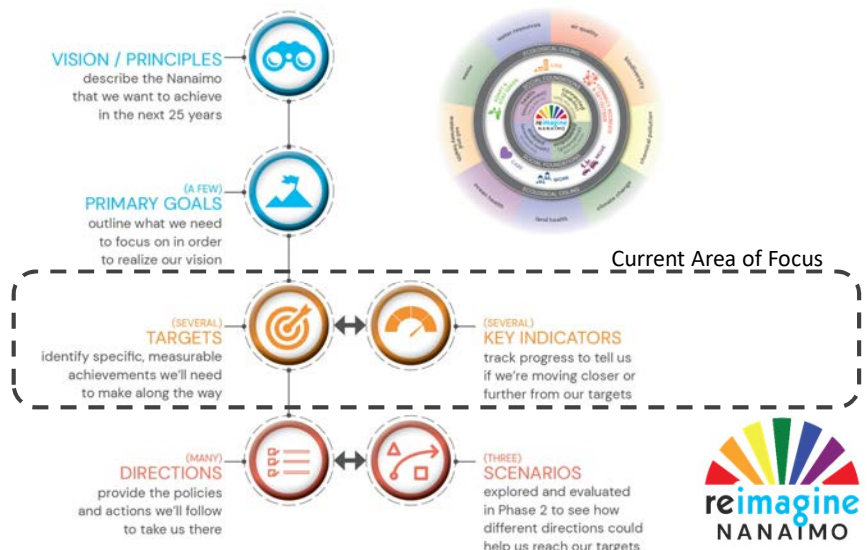
Where are we now?
(Current conditions: Benchmarks)

Where do we want to go?
(Targets)

How will we know we are getting there?
(Indicators)




3 Identify Targets and Indicators to Monitor



VISION / PRINCIPLES
describe the Nanaimo that we want to achieve in the next 25 years

PRIMARY GOALS (A FEW)
outline what we need to focus on in order to realize our vision


TARGETS (SEVERAL)
identify specific, measurable achievements we'll need to make along the way

KEY INDICATORS (SEVERAL)
track progress to tell us if we're moving closer or further from our targets

DIRECTIONS (MANY)
provide the policies and actions we'll follow to take us there

SCENARIOS (THREE)
explored and evaluated in Phase 2 to see how different directions could help us reach our targets

Current Area of Focus



3

Identify Targets and Indicators to Monitor

Where do we want to go?

Do official Council-endorsed targets exist?

GHG Reduction

Reduce city-wide emissions to 55% below 2010 levels by 2030, and to be carbon neutral (100% below 2010 levels) by 2050

Build a strong & Resilient Economy

Rank #1 in benchmark communities. Or increase to 75% from current 63% of population



Integrate growth and mobility investments to support climate, wellness and social / economic goals

Increase the number of households living within close proximity to places to work, play, learn, and shop

Waste Diversion

The City will work with the Regional District of Nanaimo to keep 90% of our region's waste out of the landfill by 2029

3

Identify Targets and Indicators to Monitor

How will we know we are reaching our targets...?

Identify Existing and Potential Indicators

Which best show past, current, and future performance?

PROPOSED GOALS (PROVIDE TARGET)	INDICATOR (PROVIDE UNIT)	POTENTIAL INDICATOR & DESCRIPTION	ASSESSMENT NOTES	RECOMMENDATION
Reduce GHG emissions Reduce city-wide emissions to 55% below 2010 levels by 2030, and to be carbon neutral (100% below 2010 levels) by 2050	GHG emissions (tCO ₂ e) Annual, 5-year Cumulative	Indicator: Working Age Population Description: Represents the number of residents in the city who are working and actively participating in the economy. This indicator is used to measure the city's economic growth and is a key indicator of the city's economic health.	• Data for this city through our existing GHG emissions data. Not all data is available for every year, and data is not available for some years. • Annual, 5-year • Cumulative	• Key indicator
Build a strong & Resilient Economy Rank #1 in benchmark communities. Or increase to 75% from current 63% of population	Working Age Population Annual, 5-year Cumulative	Indicator: Working Age Population Description: Represents the number of residents in the city who are working and actively participating in the economy. This indicator is used to measure the city's economic growth and is a key indicator of the city's economic health.	• Data for this city through our existing GHG emissions data. Not all data is available for every year, and data is not available for some years. • Annual, 5-year • Cumulative	• Key indicator
Waste Diversion The City will work with the Regional District of Nanaimo to keep 90% of our region's waste out of the landfill by 2029	Waste Diversion Rate Annual, 5-year Cumulative	Indicator: Waste Diversion Rate Description: Represents the percentage of waste that is diverted from landfill. This indicator is used to measure the city's waste management performance and is a key indicator of the city's environmental health.	• Data for this city through our existing GHG emissions data. Not all data is available for every year, and data is not available for some years. • Annual, 5-year • Cumulative	• Key indicator

Staff prepare for MARCH 10 Council Workshop/Charrette



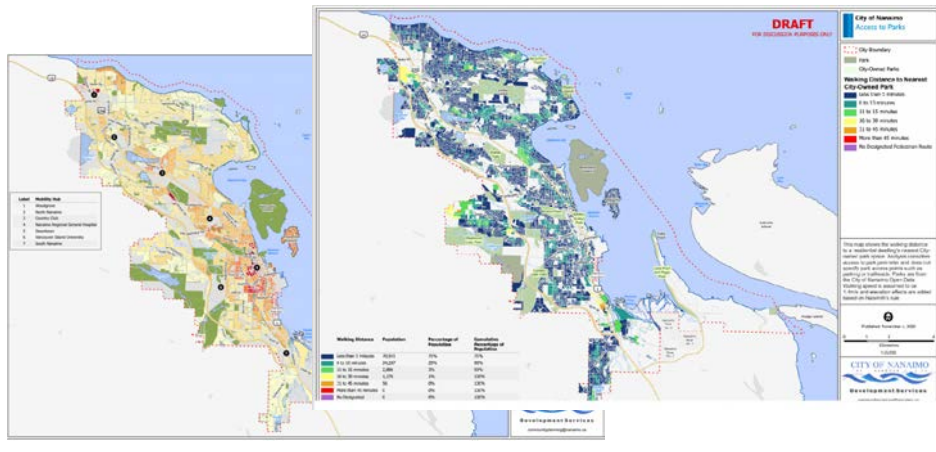
3

Map Nanaimo's social and eco context

Where have we come from?

Where are we now?

What is our ecological and social context?



4

Review Existing and Potential Targets and Indicators,

Aim for 12-20 key indicators

TARGETS...
Should be SMART!
Specific
Measurable
Achievable
Realistic
Timely

MARCH 10 Workshop
Council + Committees

MARCH 22 GPC
Council Confirm
Targets and Indicators

INDICATORS...
Should relate to things City has influence/control over.... and Legislated to do!



4 Using Targets, Indicators and Benchmarks to create a snapshot....

The Polaroid photo shows a report with the following content:

- Title:** Water resources: so everyone has adequate clean water
- Draft indicator:** Supply-demand balance of freshwater
- Supports the SDGs:** SDG 6 (Clean Water and Sanitation)
- Status:** Supply-demand balance of freshwater in Cornwall was 16.2 (M3) (2017/18)

The report includes a map of Cornwall and a circular gauge chart. Next to it is a white Polaroid camera.

4 EXAMPLE Amsterdam....

WHAT WOULD IT MEAN FOR THE PEOPLE OF AMSTERDAM TO THRIVE?

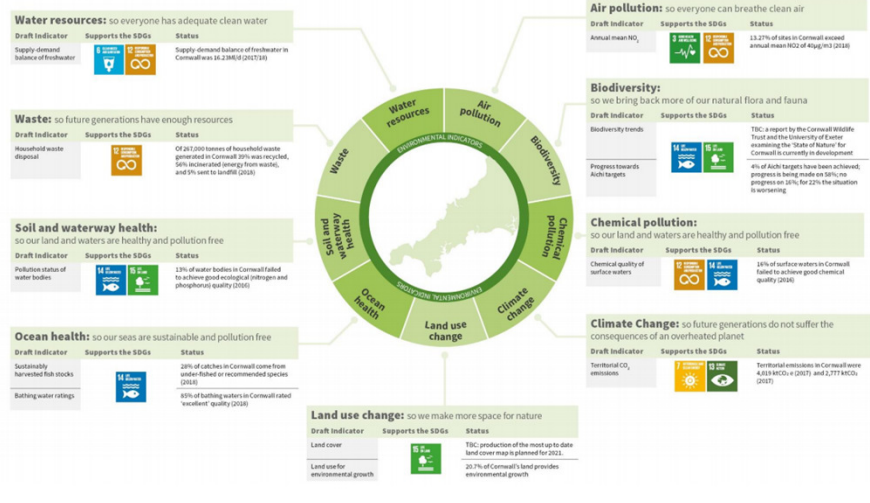
A THRIVING CITY: HEALTHY, CONNECTED, SOCIAL FOUNDATIONS, EMPOWERED, SOCIALLY JUST AND ECOLOGICALLY SAFE, ENABLED

	CITY TARGET	CITY SNAPSHOT
HEALTHY		
HEALTH	All citizens have an equal chance of living a healthy life, regardless of socioeconomic status, or background	Around 40% of citizens are overweight and almost half (49%) have a moderate-to-high risk of depression or anxiety.
HOUSING	There is sufficient availability of affordable and decent homes.	In 2018, almost 60,000 homeowners applied online for social housing, while only 12% were successful. Overall, almost 20% of city tenants are unable to cover their basic needs after paying monthly rent.
WATER	Public water is accessible, attractive, clean and safe for all users.	Tap water quality in 2017 was rated well above the legal standard.
FOOD	A target is currently under development.	In 2018, over 1,200 households made use of the city's food bank.
CONNECTED		
CONNECTIVITY	The digital city is designed in collaboration with citizens, and many other city actors. The municipality's interaction with citizens is accessible, understandable and inclusive.	98% of Dutch households had access to the internet in 2017. 13% of Amsterdamers over 19 years old experience severe loneliness.
COMMUNITY	Amsterdam is an inclusive and connected city.	81% of city residents stated that they felt connected to the city in 2017. Residents' ratings of their neighbourhoods ranged from 6.8/10 in Nieuw-West, to 8.1/10 in Zuid.
MOBILITY	The city is accessible to everyone via public transport, in a safe and sustainable way.	In 2017, citizens made an average of 68,000 journeys by bike every day, and in 2018 they gave the city's public transport a rating of 3.7 out of 10.
CULTURE	All citizens and visitors are provided with a high-quality, innovative and diverse cultural offering, and all Amsterdam children become acquainted with art and culture.	In 2017, the City's Kunststoppen introduced a programme of after-school activities in arts and culture, predominantly for children from low-income households.
EMPOWERED		
PEACE & JUSTICE	Amsterdam is a safe and hospitable city for residents and visitors.	In 2017, 23% of citizens were the victim of a crime, and 3% of citizens said they had experienced domestic violence over the past five years.
SOCIAL EQUITY	Citizens enjoy greater independence and citizen experience inequality of opportunity.	16% of residents in lower-income neighbourhoods feel they lack control over their lives – higher than the national average of 11%.
POLITICAL VOICE	Citizens have an increased say, involvement and role in deciding what happens and how it gets implemented.	Voter turnout for the 2018 city elections was 52%, compared to 79% for the 2017 national election.
EQUALITY IN DIVERSITY	Amsterdam is an inclusive and connected city.	In total, 15% of residents reported experiencing discrimination in 2017. 38% of incidents concerned ethnicity, or skin colour, and 29% concerned nationality.
ENABLED		
JOBS	Citizens are provided with attractive economic facilities throughout Amsterdam, plus entrepreneurs benefit from a good business climate.	Local entrepreneurs gave the city business climate a rating of 6.75 out of 10, in 2017.
INCOME	Financial (income) security is ensured for citizens who cannot (completely) provide for their own households.	Almost 1 in 5 of all households (21%) qualified to apply for the social benefits scheme due to their low income and savings in 2016.
EDUCATION	Every child receives a good education in a high-quality school environment.	In 2019 there were 175 unstaffed teaching posts in city schools.
ENERGY	Made the city natural gas free before 2040.	The City is currently working on making 28 neighbourhoods become natural-gas free.

4 EXAMPLE of a Format to consider....

5 CORNWALL'S ENVIRONMENTAL CEILING

The environmental domains, relevant indicators and their current status based on most recent data available are summarised in Figure 4.

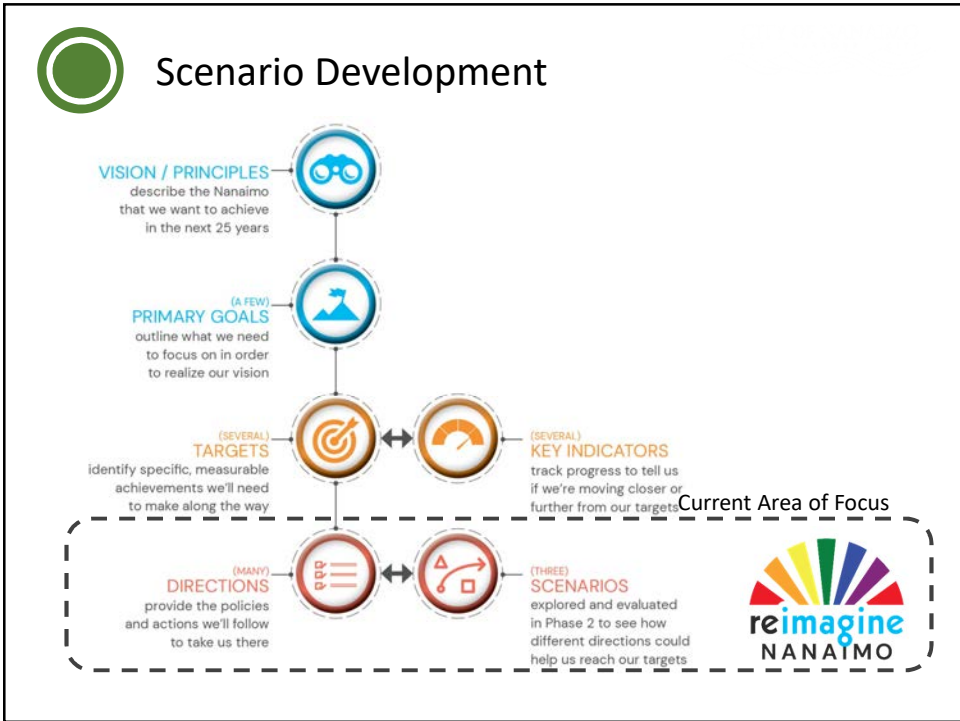
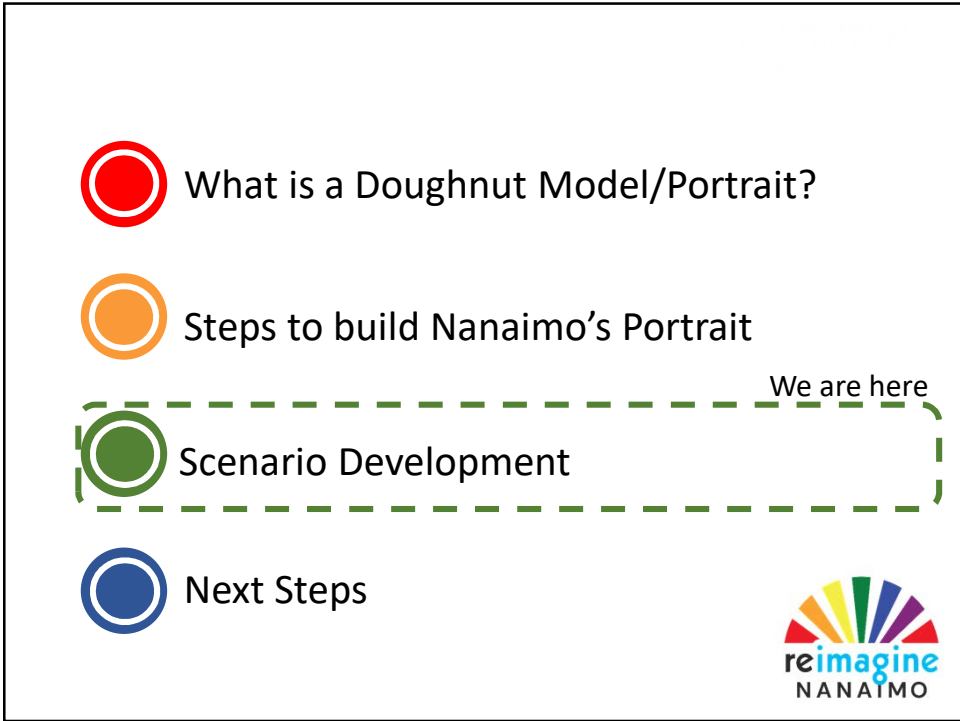


4 Confirm Targets and Indicators....

**MARCH 22 GPC
 Council Confirm**

- **Targets and Indicators**
- **Portrait**
- **Snapshot**





Scenario Development

Use Portrait to Develop and Evaluate Scenarios
COUNCIL WORKSHOP APRIL 29




To Prepare for PHASE 2 Community Engagement



SCENARIO FRAMEWORK (preliminary)

A conceptual basis for REIMAGINE NANAIMO scenarios includes three key options. These will be refined through explorations with City staff and Council.


Current Path 2008 OCP & Policies Complete Corridors & Nodes	Scenario A Boost	Scenario B Big Moves
<ul style="list-style-type: none"> ↑ Continue with current OCP and related policies ↑ Based on projections with similar growth patterns that we've seen in recent years to 2046 ↑ Continues to concentrate and infill growth in urban nodes/town centres and corridors and improve efficient services ↑ Resulting in greater walkability and diversity and amenities in town centres and corridors, and more efficient service provision since 1990s 	<ul style="list-style-type: none"> ↑ Most existing policies remain to support continued concentration of growth in town centres and corridors ↑ New policies to support anticipated population changes by diversifying and densifying neighbourhoods to meet needs of residents within walking distance ↑ Aims to accelerate rate of improved walkability and diversity of housing and amenities in town centres and corridors, and more efficient service provision 	<ul style="list-style-type: none"> ↑ Most existing policies remain to support continued concentration of growth in town centres and corridors ↑ New policies to strongly direct increased diversity of land uses and future development into priority areas to achieve key City sustainability goals and meet growth projections ↑ Aims to radically shift local and global social and environmental goals



SCENARIO EVALUATION SUMMARY (EXAMPLE) - LOCAL LENSES

Note: Illustrative evaluation table only – selection of criteria, key indicators, and modelling / calculations to support the comparisons are to be determined through the process in Phase 2


LOCAL LENS: SOCIAL	Current Path Existing Policies	Scenario A Boost	Scenario B Big Moves
Healthy People & Society Social / health sustainability indicator	↓↑?	↓↑?	↓↑?
Employment & Economy Sustained employment and tax base	↓↑?	↓↑?	↓↑?
Recreation & Culture Accessible programs and facilities	↓↑?	↓↑?	↓↑?
LOCAL LENS: ENVIRONMENT			
Climate /Environment Achieved GHG / adaptation / ecology / hazard targets adaptation	↓↑?	↓↑?	↓↑?
Managed Growth Housing / job spectrum to match demographics	↓↑?	↓↑?	↓↑?
Balanced Mobility Active / EV adoption / vehicle km travelled (VKT)	↓↑?	↓↑?	↓↑?
Natural and Built Infrastructure Sustainable drainage / watersheds / utility assets	↓↑?	↓↑?	↓↑?





SCENARIO EVALUATION SUMMARY (MOCK-UP EXAMPLE) -GLOBAL LENSES & FINANCIAL CRITERIA


Note: illustrative only – selection of criteria, key indicators, and modelling / calculations to support the comparisons are to be determined through the process in Phase 2.

GLOBAL LENSES	Current Path Existing Policies	Scenario A Boost	Scenario B Big Moves
Global Social Lens Nanaimo purchasing policy and advocacy	↓/↑	↓↑	↓/↑
Global Ecological Lens Nanaimo purchasing policy and eco management	↓/↑	↓/↑	↓/↑
FINANCIAL CRITERIA			
Capital Cost to Taxpayers	\$ ↓/↑	\$ ↓/↑	\$ ↓/↑
Nanaimo Operations and Maintenance Effort	\$ ↓/↑	\$ ↓/↑	\$ ↓/↑
Cost/Inconvenience to Private Sector	\$ ↓/↑	\$ ↓/↑	\$ ↓/↑
Partnership Potential (Co-fund)	\$ ↓/↑	\$ ↓/↑	\$ ↓/↑
Future <u>Longterm</u> Asset / Adaptation Cost	\$ ↓/↑	\$ ↓/↑	\$ ↓/↑


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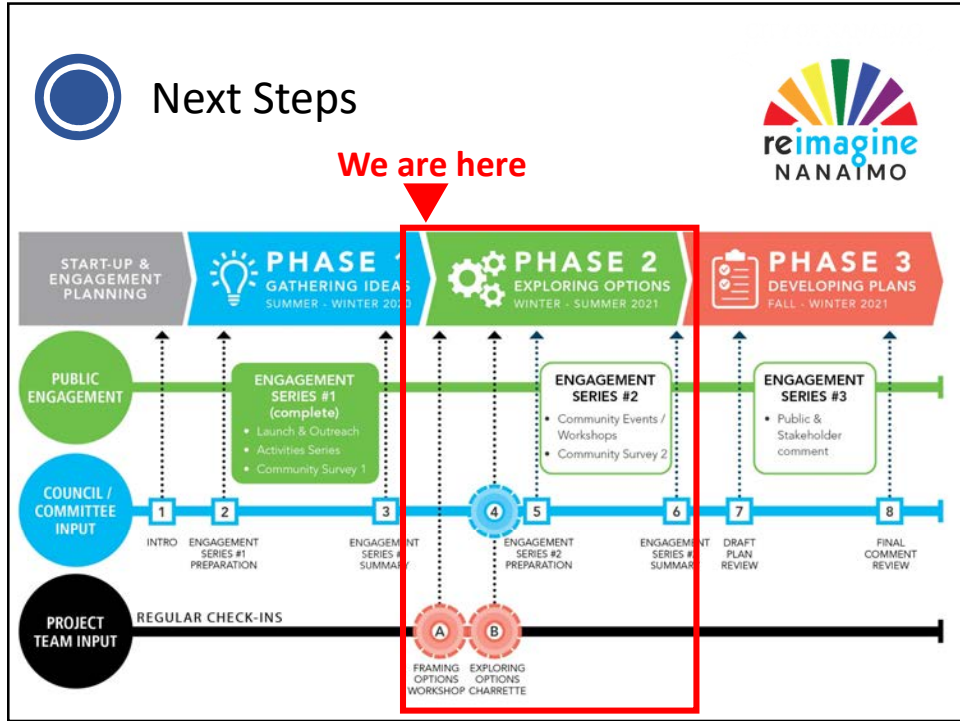
We are here




 Next Steps

- Data Organization
- Confirm Targets/Indicators/Portrait
- Scenario Development
- Phase 2 Engagement













KEY DATES



DRAFT REIMAGINE NANAIMO – 2021-22 MILESTONE CALENDAR

		PHASE 2 MILESTONES									
		January	February	March	April	May	June	July	August	Sept	
 Council Updates  Council Decisions  OCP Official Community Plan  CAP Climate Action Plan  ATP Active Transportation Plan  PRC Parks Rec & Culture Master Plan  WSS Water Supply Strategy  EDS Economic Development Strategy	INTEGRATED PLANNING	Phase 1 Public Engagement Summary Finalized Base Maps Finalized Staff begin review of indicators for Doughnut Economics City Portrait Feedback from Environment Committee	Feb 8 GPC Phase 1 Engagement Summary Presented Feb 22 GPC Staff discuss milestones and potential project outcomes Ongoing staff review of indicators for Doughnut Economics City Portrait	Mar 8 GPC Preliminary City Portrait & Indicators Mar 10 Targets & Indicators Workshop/Charrette Mar 22 GPC Council to confirm Targets & Indicators to Evaluate Scenarios Preliminary land use scenario analysis/modelling Staff workshop on exploring options/scenarios	Further modelling of options/scenarios Prepare Phase 2 engagement materials Committees Feedback April 26 GPC Council review of preliminary options/scenarios & Plan Framework April 29 Council workshop/Charrette on exploring options/scenarios to use for Phase 2 engagement	May 10 GPC Prepare & finalize Phase 2 engagement materials Phase 2 online questionnaire launched Phase 2 Statistical Survey mailed out Virtual workshops / at-home activities Ongoing Events & Promotions May 31 GPC Updates on Phase 2 engagement	Jun 14 GPC Updates on Phase 2 engagement Committees Feedback Ongoing Events & Promotions Virtual workshops conclude Questionnaire closes end of June Drafting Plans	Summary and analysis of Phase 2 Findings July 12 GPC Update on Phase 2 engagement numbers/ demographics July 26 GPC Phase 2 Engagement Summary presented Draft Plans: internal staff review Drafting Plans	No GPC Mitgs Preferred scenarios confirmed Draft Plans refined & reviewed with internal team and Committees Update Climate modelling Preparation of summary of key plan directions and rationale Refining Plans	Sept 27 GPC Council review of key plan directions and rationale summary Committees Feedback External Agency Referrals Refining Plans	
	WSS development synced with land use scenario analysis/modelling, options development, engagement and Council meetings										
			Prepare communication and engagement materials Jan 19 - EDS Task Force recommend Council endorse COMPLETE EDS Endorsed	Establish Advisory Group List Stakeholders	EDS priorities inform development of plan scenarios In house team starts EDS implementation Creation of External Economic Development Corporation	Advisory Mtg #1 Introduce WSS & discuss priorities Advisory Mtg #2 Upgrades Roadmap Virtual Stakeholder meetings	Advisory Mtg #3 Virtual Stakeholder meetings Drafting WSS	Summary and analysis of WWS engagement Drafting & Refining WSS	Summary and analysis of WWS engagement Drafting & Refining WSS	Summary and analysis of WWS engagement Drafting & Refining WSS	Summary and analysis of WWS engagement Drafting & Refining WSS
	EDS and WWS, along with other documents like the Trail Implementation Plan, Culture Plan for a Creative Nanaimo, Various Park Master Plans, Food Security Plan, Health and Housing Action Plan, Age Friendly Plan etc. will inform scenario development/ options for drafting land use and policy directions in integrated plans										



Next Steps

Mar 10 Workshop (Charrette): Targets and Indicators

FOCUS ON WHAT WE'RE ALREADY DOING AND BUILD FROM THERE

- Council
- Advisory Committee on Accessibility and Inclusion
- Environment Committee
- Economic, Health and Housing Representatives



REIMAGINE Steering Committee feedback

- **What are your thoughts on the steps?**
- **Other comments?**



REIMAGINE



Hay ch q'a

