

# Circular Cities and Regions Initiative

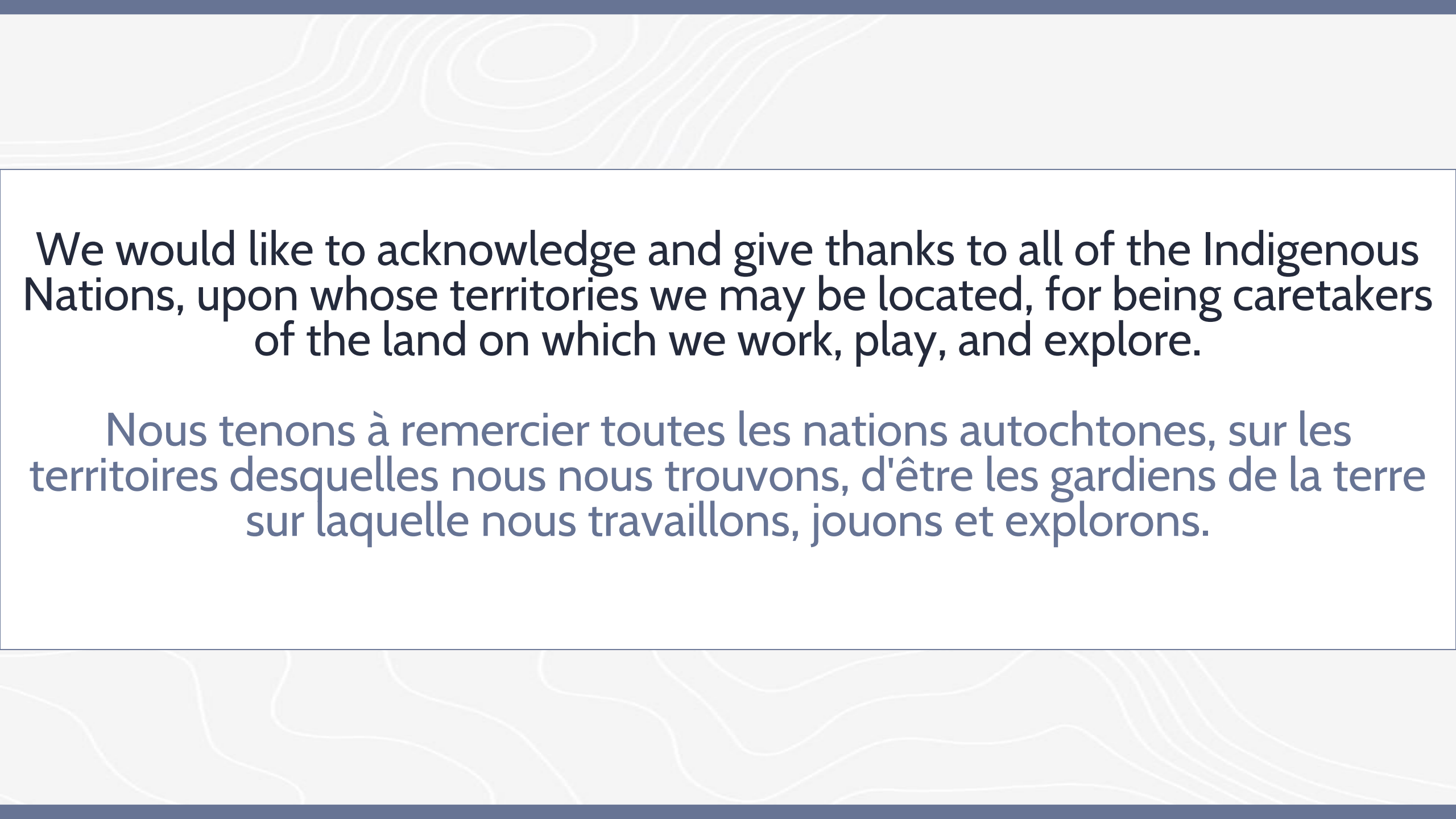
## Projet Villes et régions circulaires

**Doughnut Economics and the Circular Economy: Designing for Thriving Communities**  
**Économie du beigne et économie circulaire : Concevoir des communautés prospères**

May 2, 2023, 8:30 – 9:45 am PDT / 11:30 am – 12:45 pm EDT

2 mai 2023, 8h30 - 9h45 HAP / 11h30 - 12h45 HAE



The background of the slide features a light gray topographic map with white contour lines. The map is centered on the page and extends to the edges. The text is overlaid on this background.

We would like to acknowledge and give thanks to all of the Indigenous Nations, upon whose territories we may be located, for being caretakers of the land on which we work, play, and explore.

Nous tenons à remercier toutes les nations autochtones, sur les territoires desquelles nous nous trouvons, d'être les gardiens de la terre sur laquelle nous travaillons, jouons et explorons.

# Moderators / Animateurs



**Joanne Gauci**

Senior Policy Advisor/  
Conseillère senior

National Zero Waste Council (Metro  
Vancouver) / Conseil National Zéro  
Déchet (Metro Vancouver)



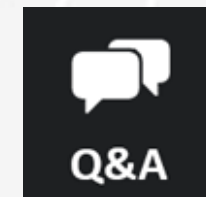
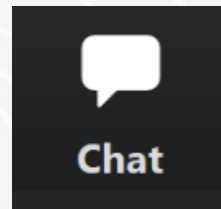
**Etienne Angers**

Team Lead – Circular Economy  
and Waste Prevention /  
Chef d'équipe – économie  
circulaire et réduction à la source

RECYC-QUÉBEC

# Housekeeping / Bienséance

- Reminder: simultaneous interpretation is available to listen in French or English
- Introduce yourself in the Chat box
- Ask questions in the Q & A box

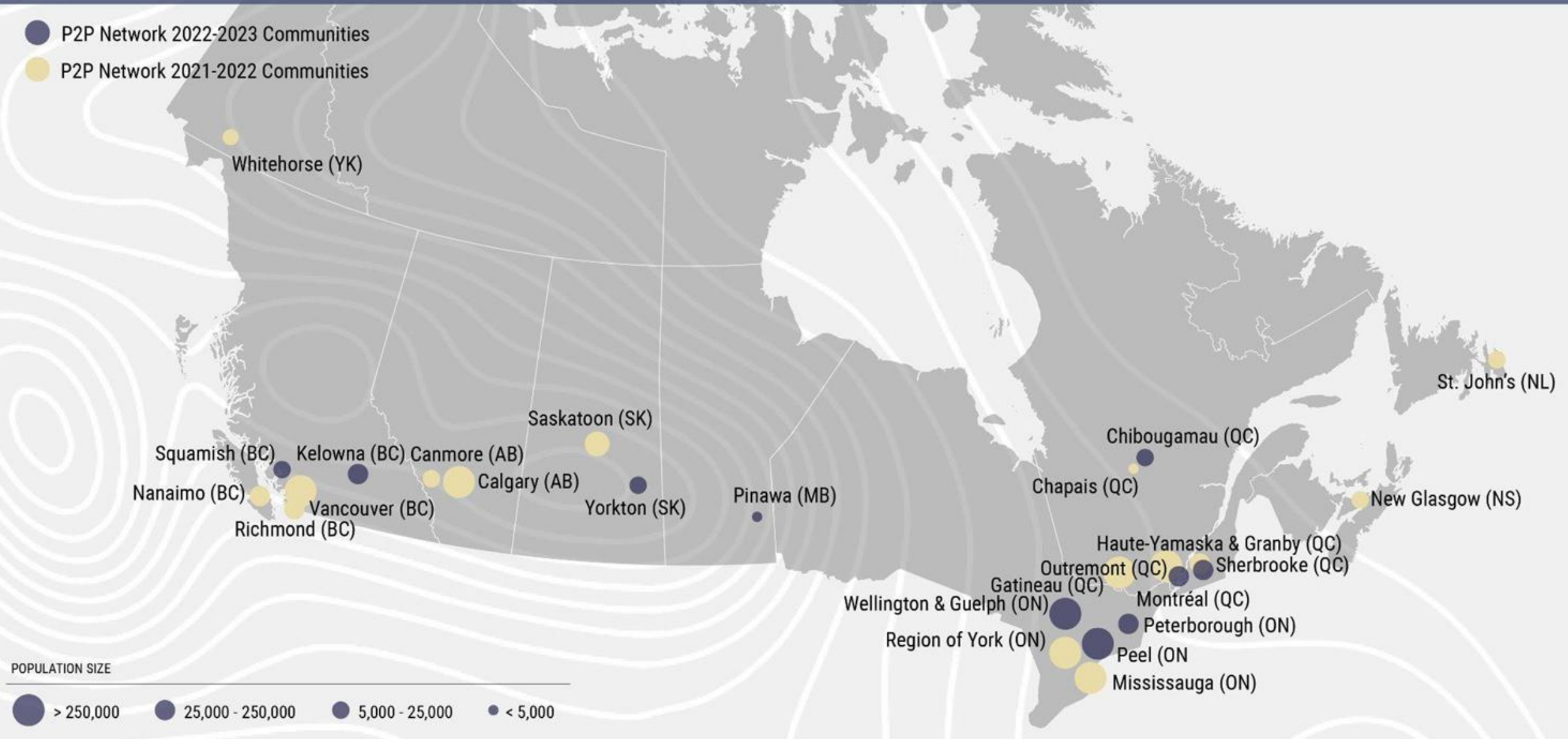


- Rappel : l'interprétation simultanée est disponible pour écouter en français ou en anglais
- Présentez-vous dans la boîte de dialogue
- Posez des questions dans la boîte de discussion OU réactivez le microphone pendant les questions-réponses



# Circular Cities & Regions Initiative

Providing Canadian local governments with the knowledge and tools to accelerate circular economy solutions



# Speakers / Présentateurs



**Leonora Grcheva**

Cities and Regions Lead  
Doughnut Economics Action Lab

Responsable villes et régions  
Laboratoire d'action sur l'économie du  
beigne



**Barbara Trachte**

State Secretary for Economic  
Transition and Scientific Research  
Brussels Capital Region

Secrétaire d'État à la Transition  
économique et à la Recherche  
scientifique  
Région de Bruxelles-Capitale



**Juan-Carlos Goilo**

Innovation and Research and  
Development  
City of Amsterdam

Innovation et recherche et  
développement  
Ville d'Amsterdam



**Ben Geselbracht**

City Councillor  
City of Nanaimo

Conseiller municipal  
Ville de Nanaimo



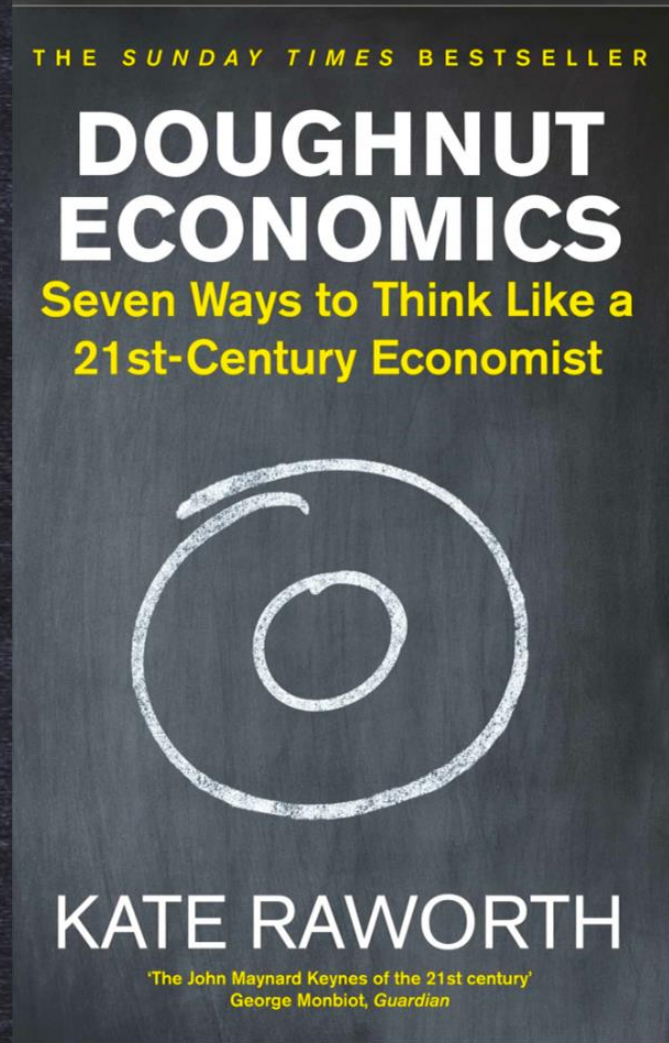
# Transforming cities with Doughnut Economics

Leonora Grcheva, Doughnut Economics Action Lab

@DoughnutEcon | @LGrcheva | [doughnuteconomics.org](https://doughnuteconomics.org)

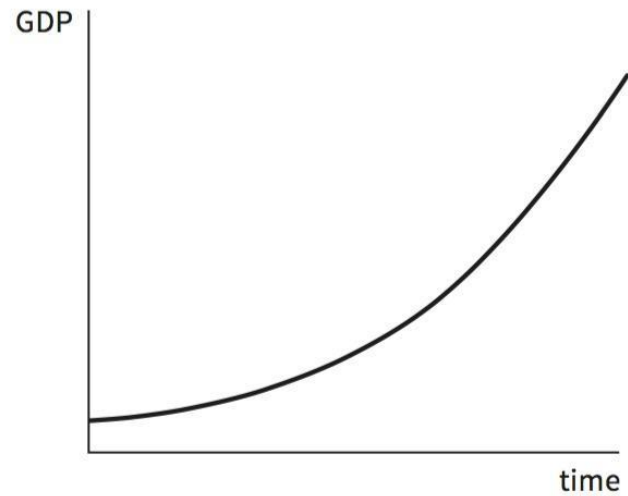


# An invitation for new economic thinking



# The vision for progress

## 20<sup>th</sup> century economics

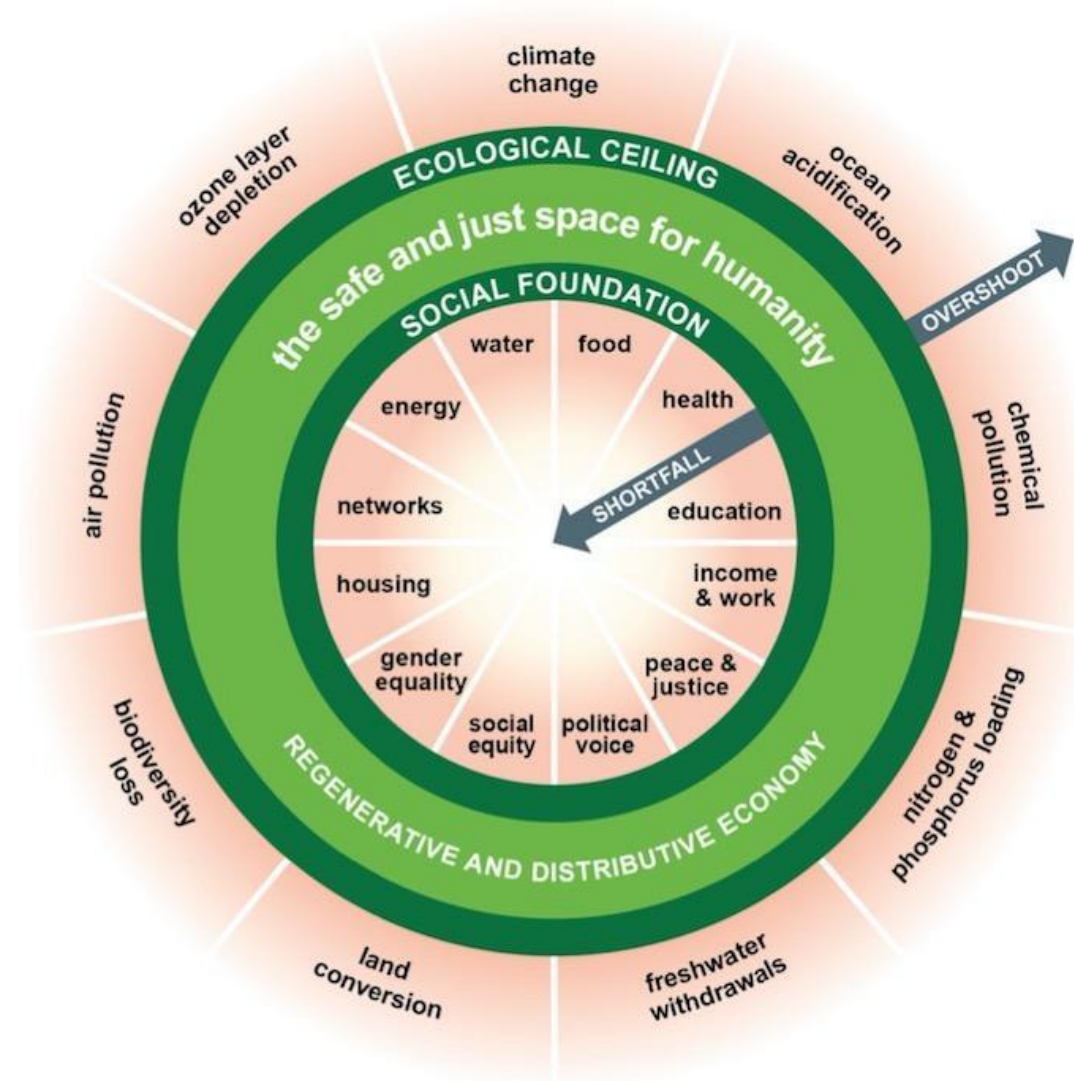


## 21<sup>st</sup> century economics





# The Doughnut: a compass for human prosperity

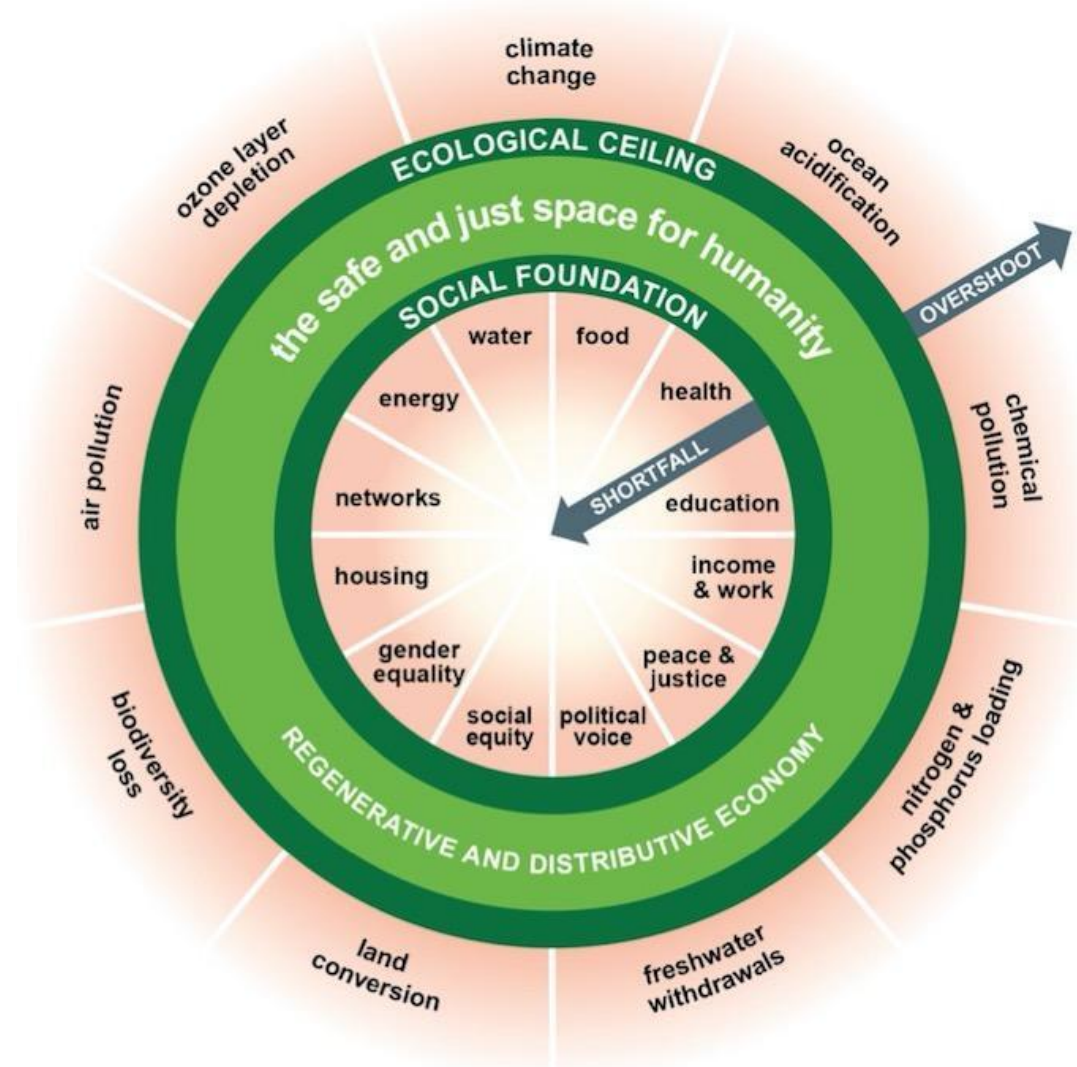




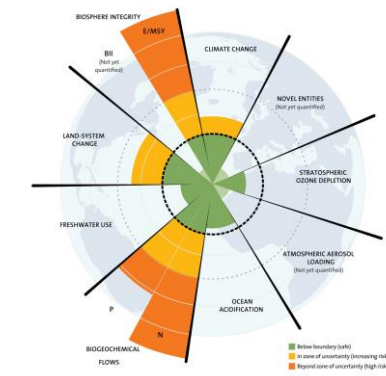
# The Doughnut: a compass for human prosperity

SDGs

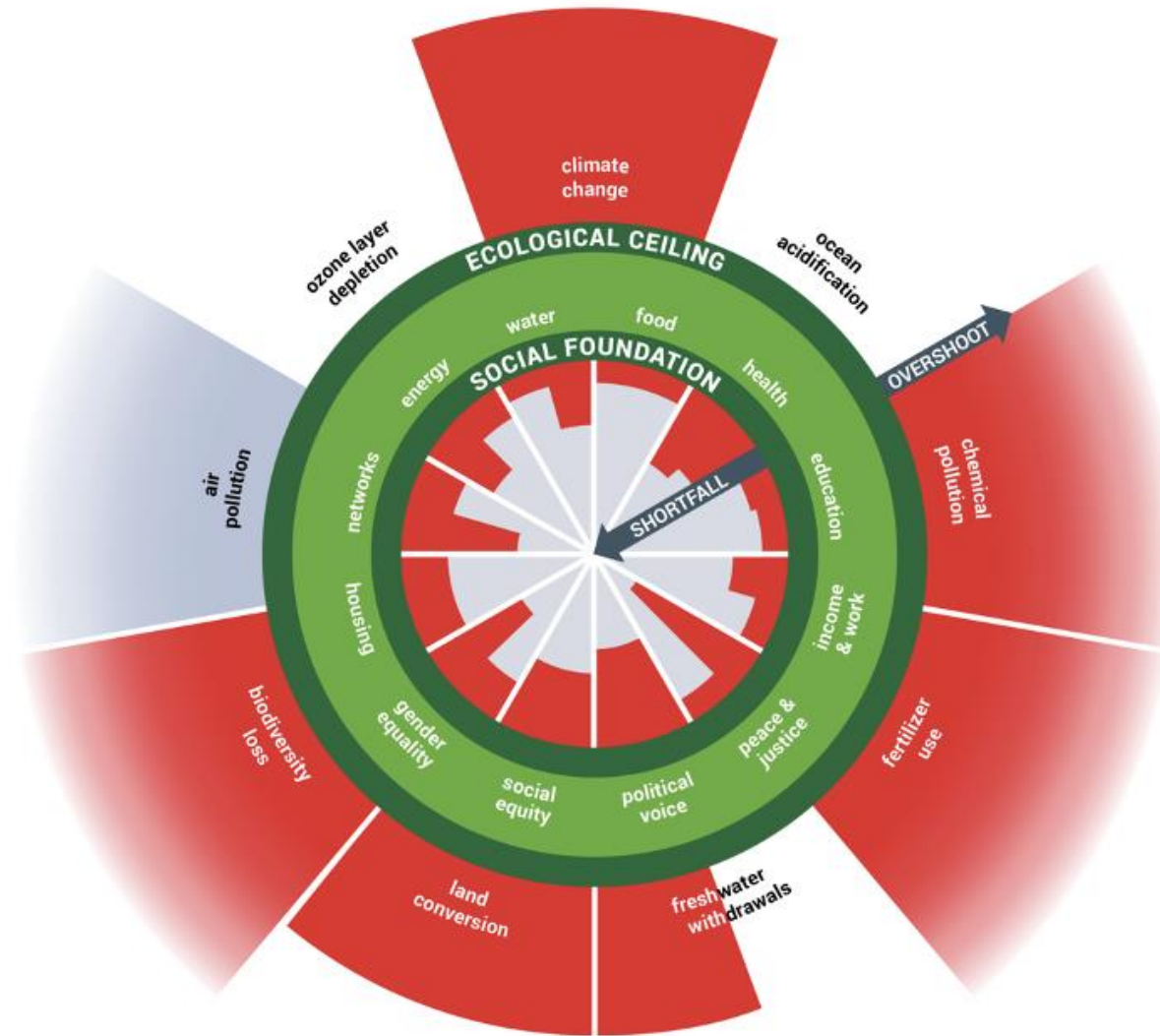
UN Sustainable Development Goals



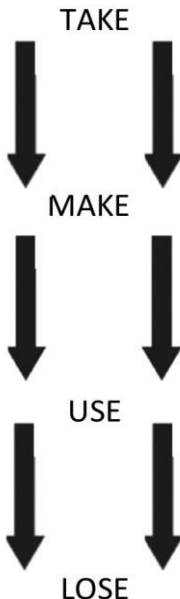
planetary boundaries



# A world dangerously out of balance

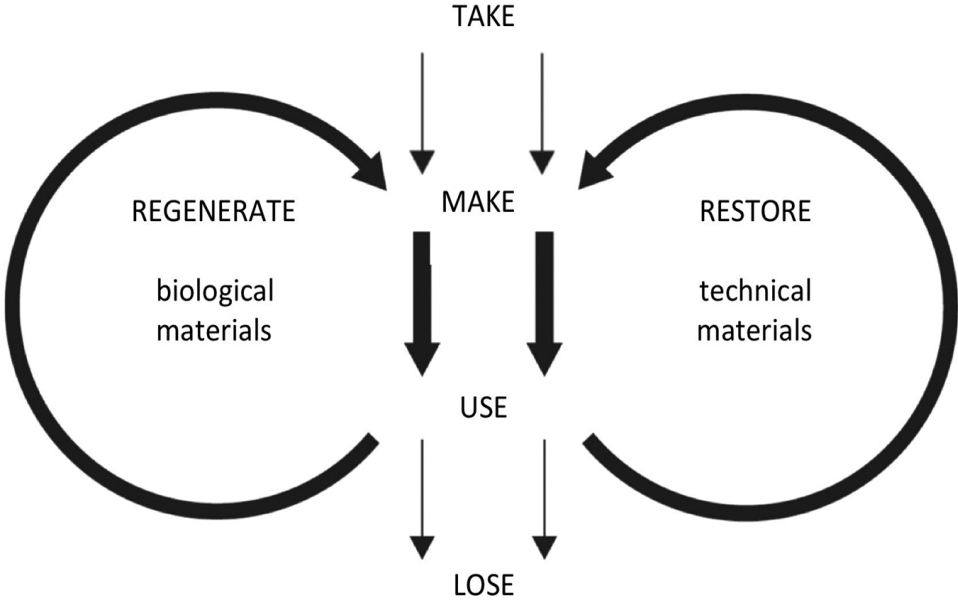


# To change the future, change the dynamics



## Degenerative

running down Earth's life-supporting systems



## Regenerative

working with and within the cycles of the living world

↓ ↓ ↓  
**Degenerative**

Sustainable

↻ ↻  
**Regenerative**



**Built-in obsolescence**



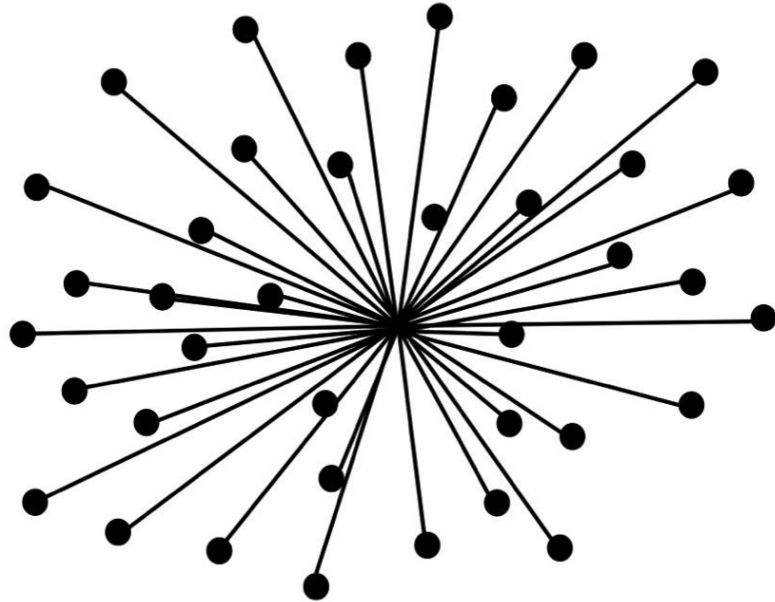
**100% recyclable**



**Repair & modular design**

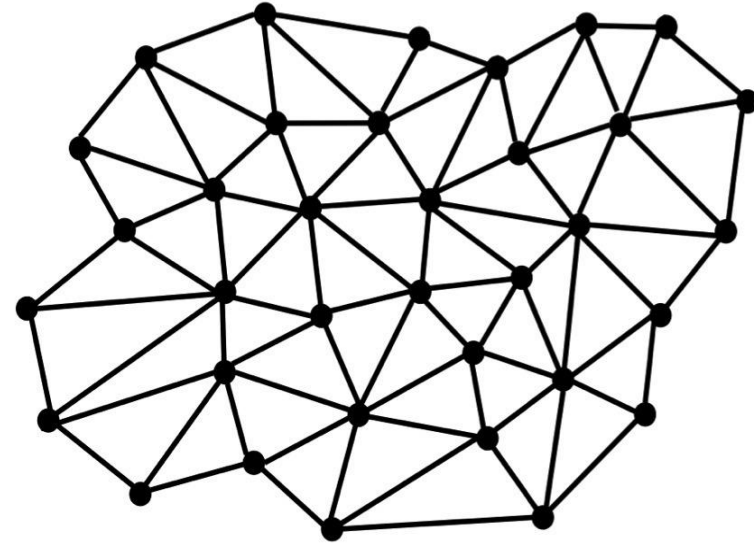


# To change the future, change the dynamics



**Divisive**

capturing opportunity and value  
in the hands of a few



**Distributive**

sharing opportunity and value  
with all who co-create it



Inclusive



**Poverty wage**



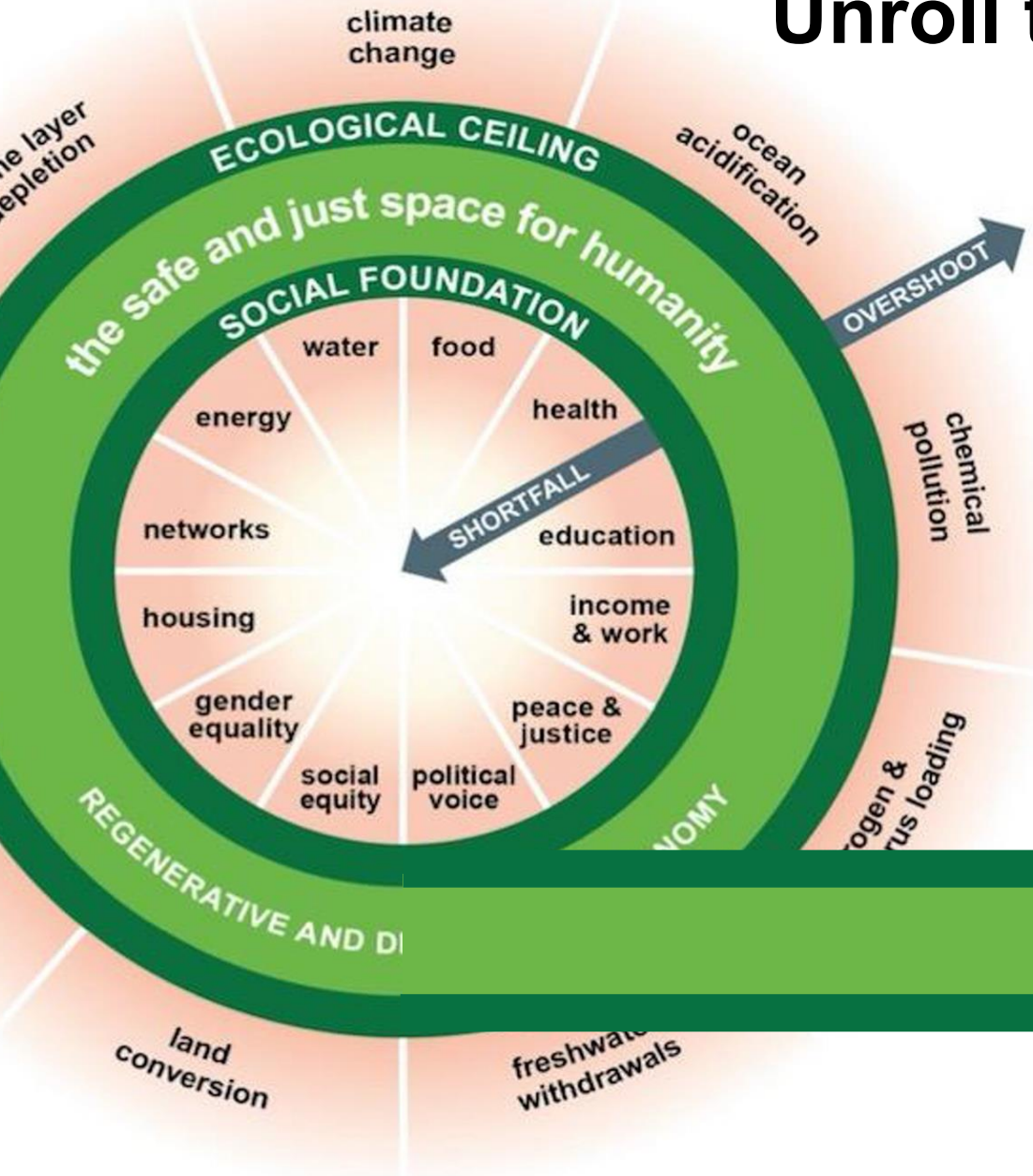
**Living wage**



**Living wage + profit share**



# Unroll the Doughnut....



How can our cities help bring humanity into the Doughnut?

How can our city become  
a home to thriving people in a thriving place,  
while respecting the wellbeing of all people,  
and the health of the whole planet?

ECOLOGICAL CEILING

 **LOCAL-ECOLOGICAL**

How can our city be as generous as nature?

 **GLOBAL-ECOLOGICAL**

How can our city respect the health of the whole planet?

..... **Local aspirations** .....

..... **Global responsibilities** .....

 **LOCAL-SOCIAL**

How can all the people of our city thrive?

 **GLOBAL-SOCIAL**

How can our city respect the wellbeing of all people?

SOCIAL FOUNDATION

ECOLOGICAL CEILING

2 LOCAL-ECOLOGICAL

How can our city be as generous as nature?

3 GLOBAL-ECOLOGICAL

How can our city respect the health of the whole planet?

Local aspirations

Global responsibilities



Food Water Health Education Housing Energy Connectivity Mobility Community Culture Income & work Social equity Equality in diversity Political voice Peace & justice

How can we help all the people of our place thrive?

4 GLOBAL-SOCIAL

How can our city respect the wellbeing of all people?

ECOLOGICAL CEILING

How can we restore and be inspired by local nature?

- Cleanse the air
- House biodiversity
- Store carbon
- Cycle water
- Harvest energy
- Regulate the temperature
- Build & protect soil
- Enhance wellbeing



Local aspirations



- Food
- Water
- Health
- Education
- Housing
- Energy
- Connectivity
- Mobility
- Community
- Culture
- Income & work
- Social equity
- Equality in diversity
- Political voice
- Peace & justice

How can we help all the people of our place thrive?

3 GLOBAL-ECOLOGICAL

How can our city respect the health of the whole planet?

Global responsibilities









4 GLOBAL-SOCIAL

How can our city respect the wellbeing of all people?



ECOLOGICAL CEILING

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How can our city respect the health of the whole planet?

- Climate change 
- Ocean acidification 
- Chemical pollution 
- Excessive fertilizer use 
- Water withdrawals 
- Land conversion 
- Biodiversity loss 
- Air pollution 
- Ozone layer depletion 


















Local aspirations

Global responsibilities



 4 GLOBAL-SOCIAL

How can our city respect the wellbeing of all people?

-  Food
-  Water
-  Health
-  Education
-  Housing
-  Energy
-  Connectivity
-  Mobility
-  Community
-  Culture
-  Income & work
-  Social equity
-  Equality in diversity
-  Political voice
-  Peace & justice

How can we help all the people of our place thrive?



ECOLOGICAL CEILING

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Local aspirations

Global responsibilities



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How can we help all the people of our place thrive?

- Food
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- Education
- Housing
- Energy
- Income & work
- Social equity
- Equality in diversity
- Community & networks
- Political voice
- Peace & justice

How can our city respect the wellbeing of all people?

SOCIAL FOUNDATION

ECOLOGICAL CEILING

**2 LOCAL-ECOLOGICAL**

How can our city be as generous as nature?

**3 GLOBAL-ECOLOGICAL**

How can our city respect the health of the whole planet?

**Data and metrics**  
**Spatial visions**  
**Thematic strategies**  
**Projects**  
**Decisions**

**1 LOCAL-SOCIAL**

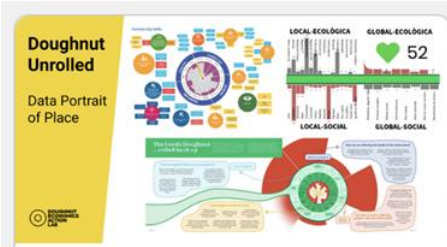
How can all the people of our city thrive?

**4 GLOBAL-SOCIAL**

How can our city respect the wellbeing of all people?

SOCIAL FOUNDATION

# Tools for getting started



**Doughnut Unrolled**  
Data Portrait of Place


52

Local-ecologica, Global-ecologica, Local-social, Global-social

Doughnut Unrolled: Data Portrait of Place

Posted by [the DEAL Team](#)

# portrait # downscale




**Doughnut Unrolled**  
Community Portrait of Place

38

Doughnut Unrolled: Community Portrait of...

Posted by [the DEAL Team](#)

# downscale # fourlenses



**Doughnut Unrolled**  
Introducing the four lenses

Local Ecological Ceiling 58


Local aspirations: How can all the people of our place thrive?  
Global responsibilities: How can our place respect the health of the whole planet?  
Global responsibilities: How can our place respect the wellbeing of all people?

Social Foundation

Doughnut Unrolled: Introducing the four...

Posted by [the DEAL Team](#)

# explainer # downscaling




13

Sparking Connections

Posted by [the DEAL Team](#)

# workshop # activity




12

Ring Rescue

Posted by [the DEAL Team](#)

# activity



**Regenerative business rising:**  
How policy can create an economy led by a different kind of company

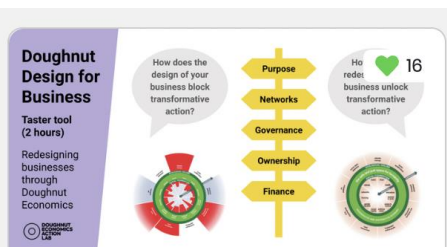
6

BOUGHNUT ECONOMICS ACTION LAB MEDLab

Public policies to foster regenerative businesses

Posted by [the DEAL Team](#)

# explainer



**Doughnut Design for Business**  
Taster tool (2 hours)

16

Purpose, Networks, Governance, Ownership, Finance


How does the design of your business block transformative action?  
How can your business unlock transformative action?

Redesigning businesses through Doughnut Economics

Doughnut Design for Business - Taster Tool

Posted by [the DEAL Team](#)

# workshop

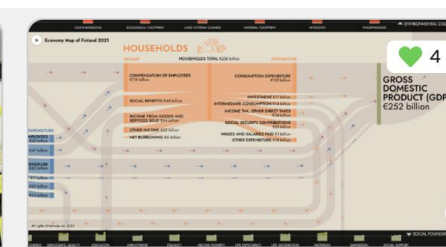


4

Personal Doughnut Canvas

Posted by [CIVIC SQUARE](#)

# activity




4

Economy Map

Posted by [Peter Tattersall](#)

# teaching-tool



5

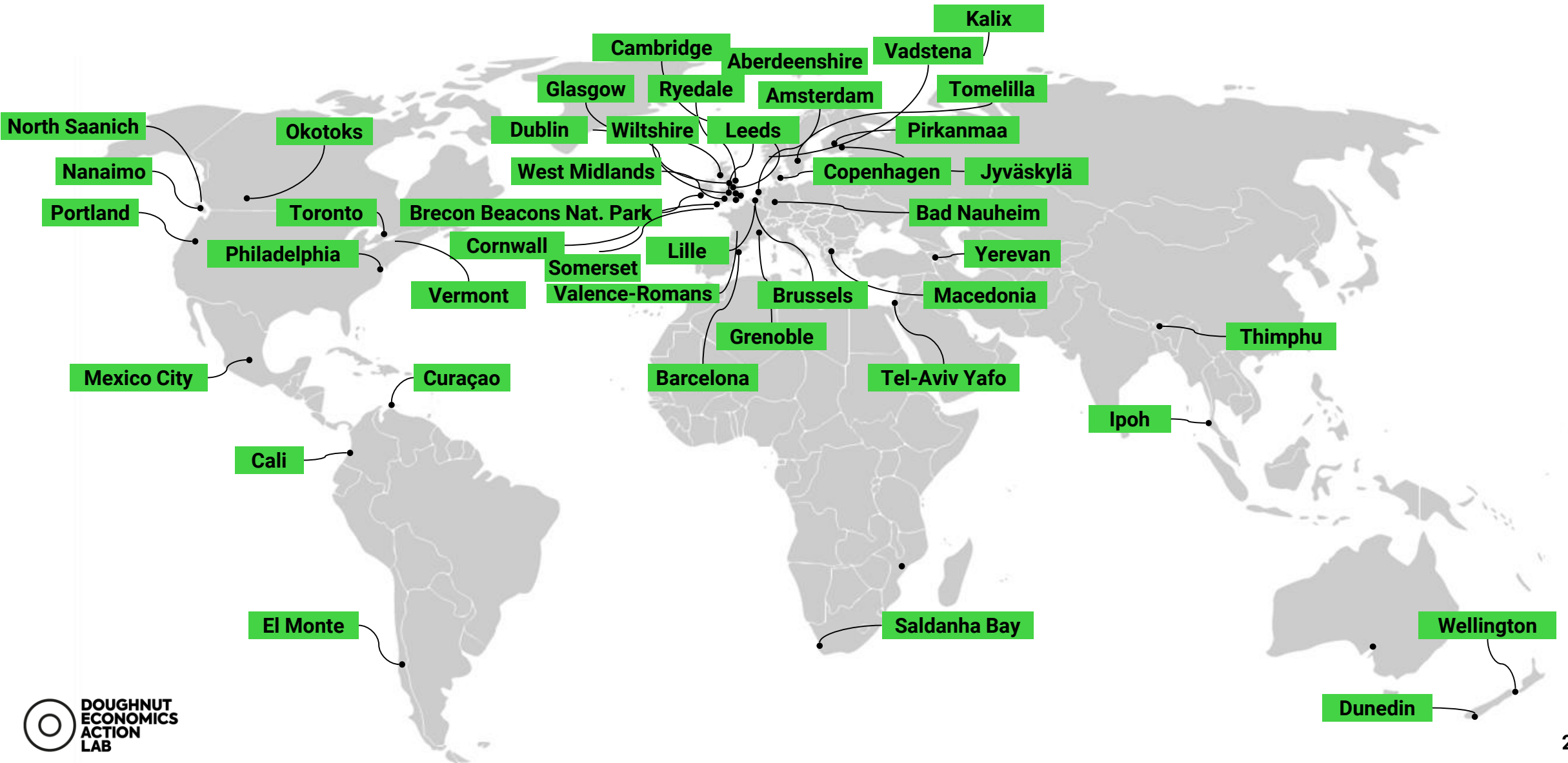
Making the Doughnut Real with a Doughnut Deal!

Posted by [Anne Stijkel](#)

# research # methodology



# Cities and regions engaging with the Doughnut, 2023







# How cities and regions are getting started...

## Taking steps


**#1**   
Starting conversations  
and internal learning

**#2**   
Testing the Doughnut  
on ongoing projects

**#3**   
Empowering local  
change-makers

## On a journey

**#4**   
Data, measuring and  
monitoring

**#5**   
City-wide and sectoral  
policy and strategy

**#6**   
Demonstrator  
projects

## Committing long-term

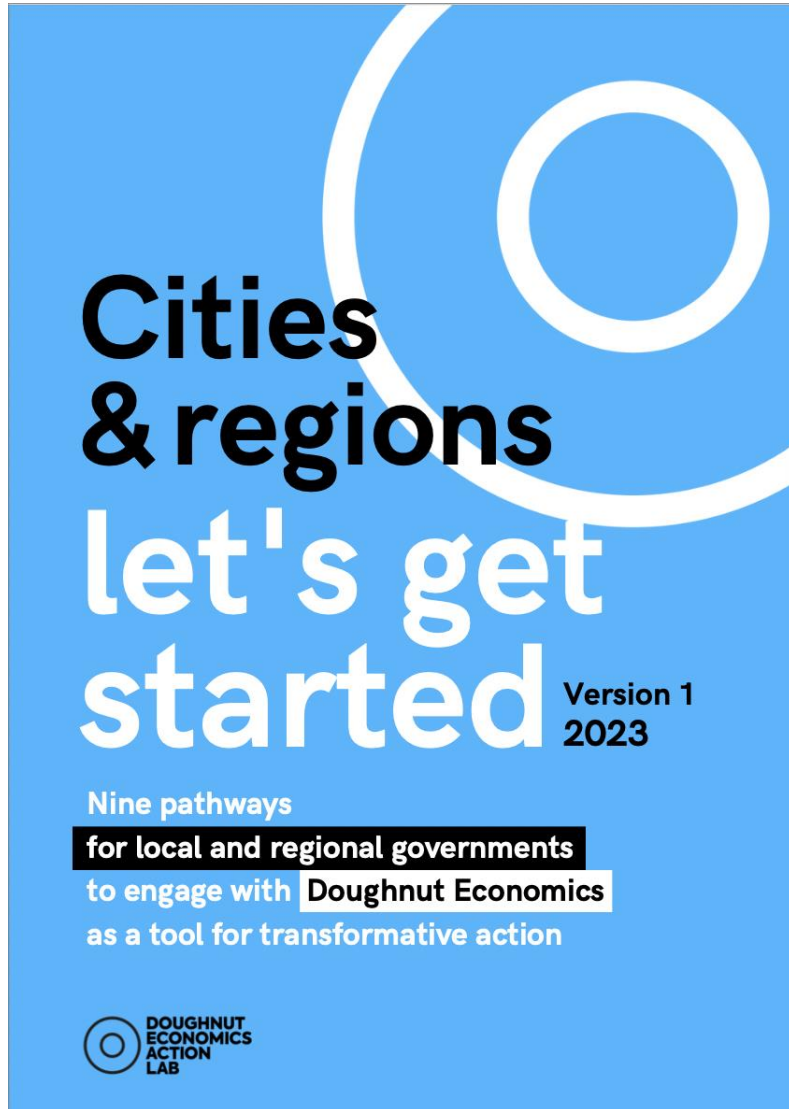
**#7**   
Doughnut Economics  
as a strategic compass

**#8**   
Decision-making and  
project assessment

**#9**   
Identifying levers of  
transformative change



# How cities and regions are getting started...



<https://doughnuteconomics.org/tools/210>



Welcome to DEAL

# Turning the ideas of Doughnut Economics into action

Discover the community

Join the community



Doughnut Workshop with Glasgow City Councillors

Posted by [Petra Baiba Olehno](#)

Glasgow, Scotland, United K...



Doughnut Economics in planning and...

Posted by [the DEAL Team](#)



Between D.E. and Gender Inclusion in Nigeria

Posted by [Michael Adigam](#)

Nigeria



Global South&North: Collaboration on Equal...

Posted by [Nils Michalke](#)



Circular workshops for Holidays and for every...

Posted by [Natalia Kucypere](#)

Poland, Katowice



Neighbourhood Doughnut Portrait Launch

Posted by [CIVIC SQUARE](#)

Ladywood, Birmingham (UK) +...



Boro Doughnut Launch Event Oct 2022

Posted by [Emi Imai](#)

Middlesbrough Institute Of M...



Workshops with Citizens in Tomelilla, Sweden

Posted by [Laura Quast](#)

Tomelilla, Sweden

# BRUSSELS DONUT

**BARBARA TRACHTE**

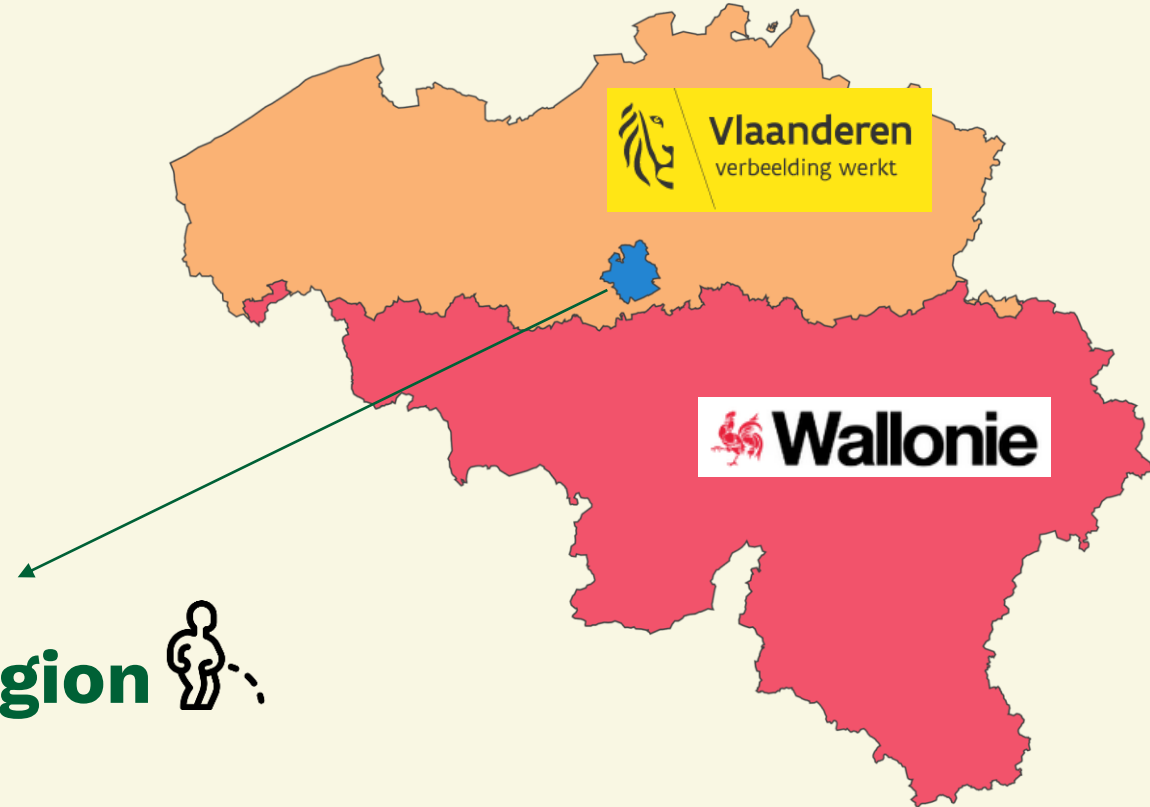
SECRETARY OF STATE OF THE  
BRUSSELS-CAPITAL REGION,  
RESPONSIBLE FOR ECONOMIC  
TRANSITION AND SCIENTIFIC RESEARCH



# 1 FEDERAL STATE: BELGIUM



## ➤ 3 REGIONS



**The Brussels-Capital Region** 





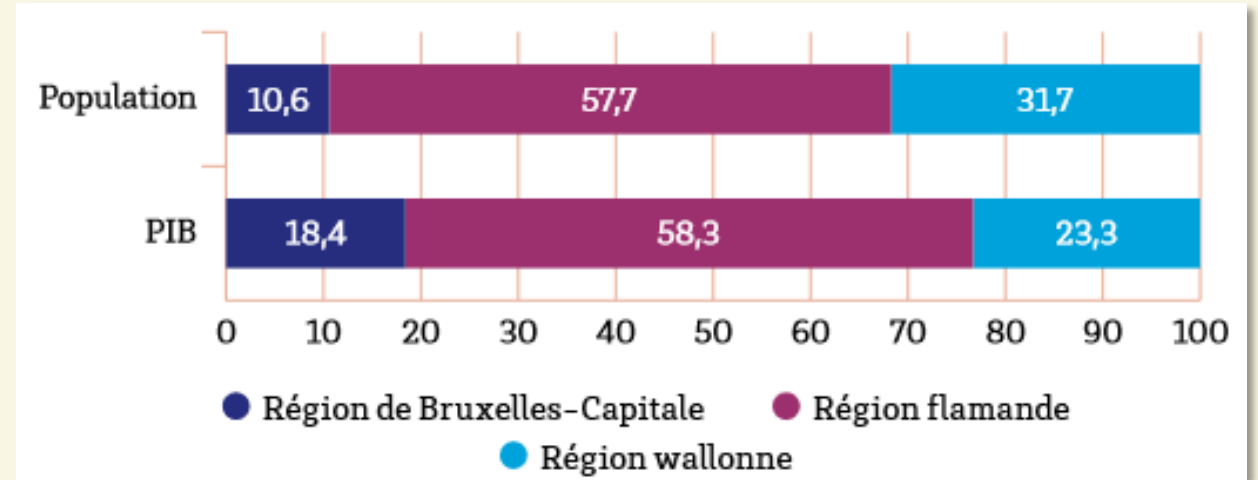
# THE BRUSSELS-CAPITAL REGION



- **Surface area: 162km<sup>2</sup>**
- **1,209 million inhabitants**
- **GDP : 84 billion €**
  - **92% services**
  - **3% industry**
  - **5% other**

# BRUSSELS, PARADOX OF TODAY'S ECONOMY

- GDP per capita : 61.300€ (2019)
- Poverty rate : 31,4% (2018)



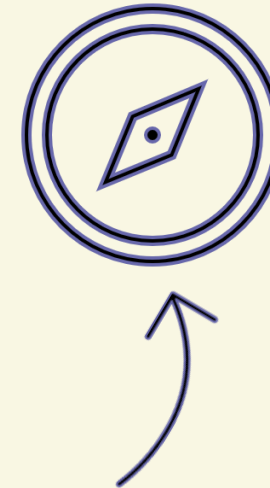


# PUT THE ECONOMY AT THE RIGHT PLACE

**Elections 2019: Ecolo célèbre sa victoire:  
«Le travail commence aujourd’hui»**



**A new compass,  
different from GDP**



**Secrétaire d'État bruxelloise de la Transition  
Économique et de la Recherche Scientifique**

# THE DONUT FRAME



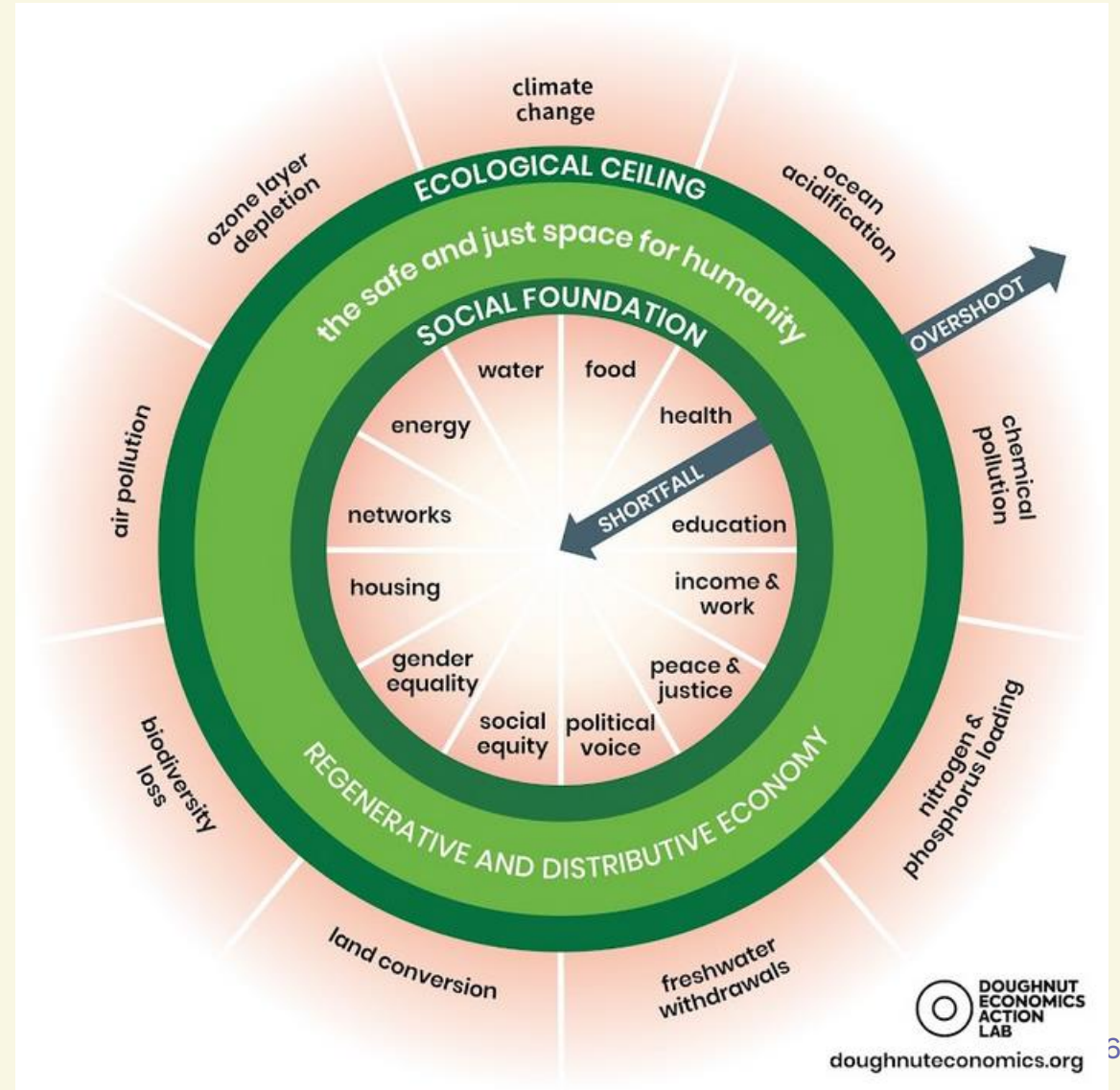
New vision of progress



New goal of prosperity and balance



Compass



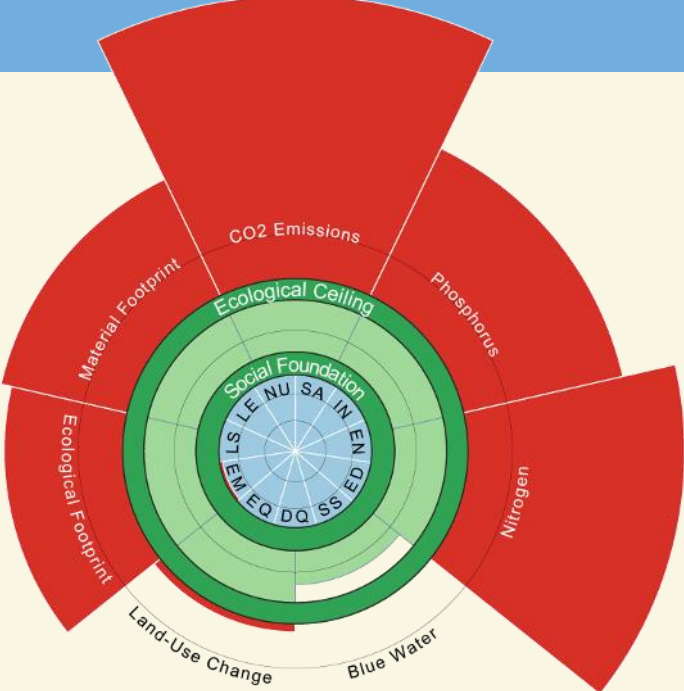
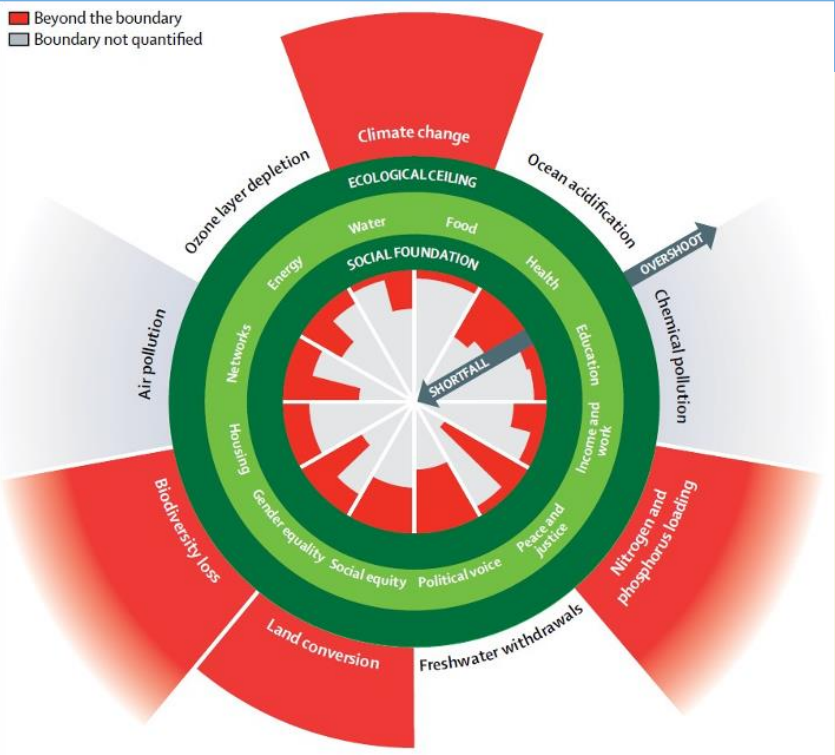


# APPLICATION & DOWNSCALING

From the global level, ...

To the national's, ...

and the regional's.



**BRUSSELSDONUT**



# ICHEC

BRUSSELS MANAGEMENT SCHOOL

## CONFLUENCES





be.brussels 

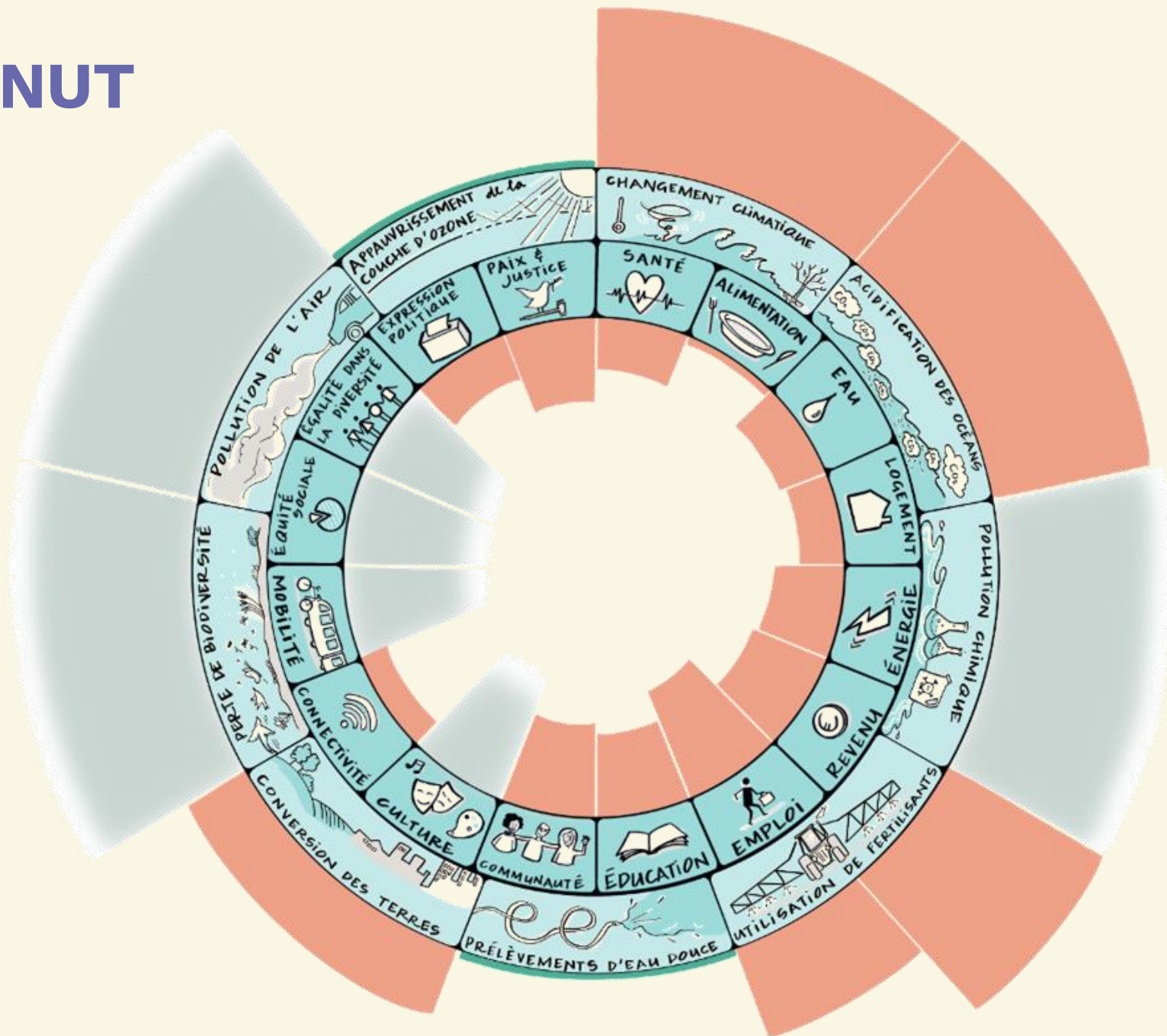


# BRUSSELS DONUT PORTRAIT

## LÉGENDE :

 LA TAÎLE DU SECTEUR ROUGE REPRÉSENTE L'ÉLOIGNEMENT DE LA SITUATION ACTUELLE PAR RAPPORT À LA CIBLE

 UN SECTEUR GRISÉ REPRÉSENTE L'ABSENCE DE DONNÉES, OU DES DONNÉES NE PERMETTANT PAS D'EXPRIMER LA SITUATION PAR RAPPORT À UNE CIBLE



# BRUSSELS DONUT



GUIDE 1  
**SUMMARY  
OF THE RESULTS**

# BRUSSELS DONUT



GUIDE 2  
**THE LESSONS  
FOR THE BRUSSELS  
REGION**

# BRUSSELS DONUT



GUIDE 3  
**THE METHODOLOGICAL  
TOOLS TO IMPLEMENT  
THE DOUGHNUT**





# shifting economy .brussels

ENSEMBLE, VERS L'ÉCONOMIE DE DEMAIN  
SAMEN OP WEG NAAR DE ECONOMIE VAN MORGEN



**THANK YOU FOR  
YOUR ATTENTI🍩N!**







# **The NANAIMO DOUGHNUT ECONOMICS FRAMEWORK**

# Municipal Challenges

- Lack of Vision
- Lack of Coherence
- Misguided Frameworks
- Poor Communication



# Coherence: The quality of forming a unified whole

*“Just as an equalizing tuning system permitted twenty-four different musical scales to integrate and to influence one another for the first time—so cities need a framework to unify their many disparate programs, departments, and aspirations...When a community has a vision, and a plan for how to carry it out, and is able to coherently integrate its disparate elements, then it begins to be well tempered. Coherence is essential for cities to thrive.”*

-Jonathan F.P. Rose (The Well Tempered City)

# Effectively coordinating: Action to achieve shared goals

## Frameworks:

- Communicate a clear vision, purpose and direction;
- They are aspirational, organized around objectives; and
- They include key performance indicators to assess progress.

# Creating City Portraits

A methodological guide from  
The Thriving Cities Initiative



DOUGHNUT  
ECONOMICS  
ACTION  
LAB



BIOMIMICRY 3.8



CIRCLE  
ECONOMY



foundation



## Breakout Room Links

**ROOM 1: ENABLED** →  
(Economic Health)  
jobs, income, tourism, energy  
*How We Work*

**ROOM 2: HEALTHY & EMPOWERED** →  
(Environment)  
housing, water, food  
(Governance)  
peace, equity, diversity  
*How We Care*

**ROOM 3: CONNECTED** →  
(Livability)  
mobility, community,  
neighbourhoods  
*How We Live & Move*

**ROOM 4: CONNECTED** →  
(Livability)  
well-being, culture  
*How we Connect, Recreate & Get Outside*

**ROOM 5a:** →  
**ECOLOGICAL CEILING**  
air quality, biodiversity,  
chemical pollution,  
climate change  
*How We Adapt & Stay Green*

**ROOM 5b:** →  
**ECOLOGICAL CEILING**  
land health, ocean health,  
soil and waterway health,  
waste, water resources  
*How We Adapt & Stay Green*

## LAND HEALTH / LAND USE

preliminary goal: so our lands and waters are healthy and cared for / managed sustainably

### COMMENTS / QUESTIONS ON THIS GOAL

Useful, but there are to

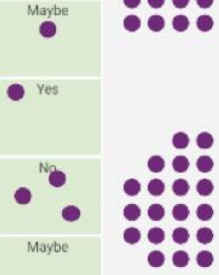
stormwater generated /

### Background

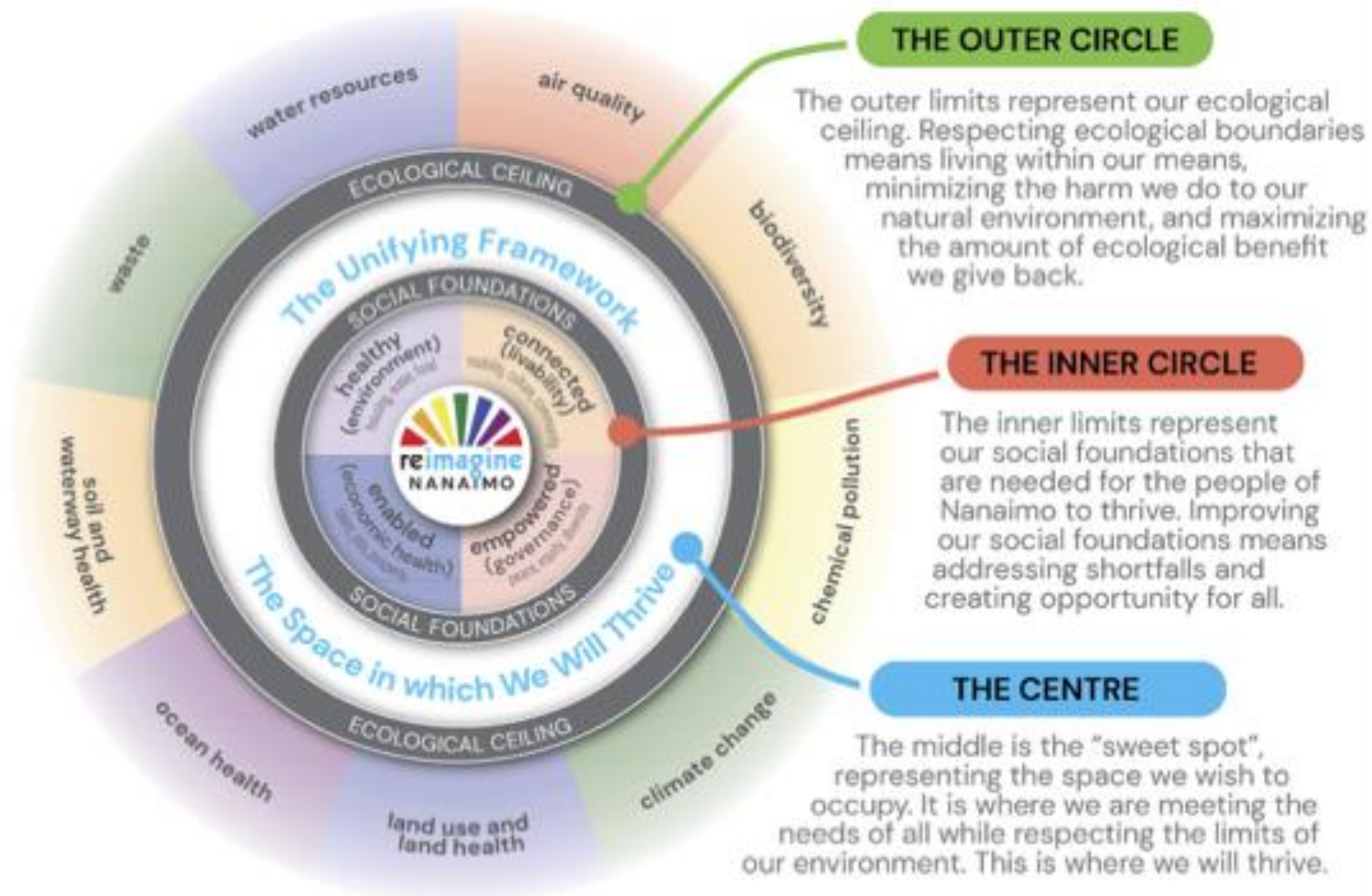
- RDN Regional Growth Strategy measures:
  - amount of land in protected areas
  - diversity of land use (ratio) inside the Growth Containment Boundary
  - Number of new lots / units created through subdivision inside and outside the Growth Containment Boundary
  - Number of parcels with Farm Status
  - Amount of land classified as Private Managed Forest Land
- 1998 / 2006 Progress Nanaimo measured:
  - land area inside and outside the UCB to review adjustments to the urban containment boundary
  - population inside and outside the UCB
  - Total area of Rural Resource Land designation
  - Land uses in Rural Resource Land designation

### Proposed REIMAGINE NANAIMO Indicators

INDICATOR	WHAT IT TELLS US	HOW IT'S MEASURED	DISCUSSION SUGGESTED
<p><b>1</b> Proportion of ESAs with Protection</p> <p>% of identified Environmentally Sensitive Areas that have existing protection measures</p> <p>Desired trend: maintain / increase <small>(no existing target)</small></p>	<ul style="list-style-type: none"> <li>identifies the proportion of identified ESAs that are / are not protected</li> <li>ESA include:                             <ul style="list-style-type: none"> <li>Coastal Bluff</li> <li>Wetlands</li> <li>Watercourse / Riparian</li> <li>Terrestrial herbaceous</li> <li>Older second growth forest</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>% of protected ESAs</li> <li>through GIS analysis</li> <li>may consider different levels of protection (e.g., parks vs. private lands protection)</li> <li>some baseline data from 1998 / 2006 available</li> </ul>	<p>Cultural component hand in hand with environmental</p>
<p><b>2</b> Area of Protected Lands</p> <p>total ha of lands that are protected</p> <p>Desired trend: maintain / increase <small>(no existing target)</small></p>	<ul style="list-style-type: none"> <li>tells us how much land in total is within a protected area designated by the federal, provincial, or local government</li> </ul>	<ul style="list-style-type: none"> <li>% of protected ESAs</li> <li>through GIS analysis</li> <li>With limited undeveloped land in the City, indicator is unlikely to shift much more. City's role in land protection at the regional level may be more critical</li> <li>Baseline: 1,785 ha (2019) an increase from 1,687 ha (2018)</li> </ul>	<p>Reclaim concrete and gray areas regenerate land</p>
<p><b>3</b> Land Inside / Outside UCB</p> <p>Proportion of land area and population inside and outside the urban containment boundary</p> <p>Desired trend: growth focused inside UCB <small>(2008 plan/Nanaimo / RDC)</small></p>	<ul style="list-style-type: none"> <li>helps to track where new growth and population is occurring with respect to the urban containment boundary</li> </ul>	<ul style="list-style-type: none"> <li>ha inside / outside UCB</li> <li>population inside / outside UCB</li> <li>already being monitored for RDN Regional Growth Strategy</li> </ul>	<p>Municipal boundaries are already mapped UCB, 200-UGS, which are and use to track growth so it gets reported as a measure of urban resource management</p>
<p><b>4</b> Diversity of Land Use in UCB</p> <p>Diversity of land use per square km inside the Urban Containment Boundary</p> <p>Desired trend: increasing diversity <small>(2008 plan/Nanaimo)</small></p>	<ul style="list-style-type: none"> <li>helps to understand the mix of land uses being developed within the urban containment boundary</li> </ul>	<ul style="list-style-type: none"> <li>ratio of land uses</li> <li>through GIS analysis</li> <li>no baseline identified</li> </ul>	<p>Maybe a useful item: Land outside the UCB that can support local agricultural production for food security. Flip this one around a bit.</p> <p>e.g. preserve rural/forest/natural areas outside UCB</p>







**THE OUTER CIRCLE**

The outer limits represent our ecological ceiling. Respecting ecological boundaries means living within our means, minimizing the harm we do to our natural environment, and maximizing the amount of ecological benefit we give back.

**THE INNER CIRCLE**

The inner limits represent our social foundations that are needed for the people of Nanaimo to thrive. Improving our social foundations means addressing shortfalls and creating opportunity for all.

**THE CENTRE**

The middle is the "sweet spot", representing the space we wish to occupy. It is where we are meeting the needs of all while respecting the limits of our environment. This is where we will thrive.



**Water Resources:** so everyone has access to clean drinking water and we preserve this resource for future generations

Draft Indicator	Draft Target	Baseline (if known)
Water Consumption by Residents	<ul style="list-style-type: none"> <li>New target to be set as previous target was exceeded</li> </ul>	206 litres / capita / day (2019)

**Waste:** so we use our resources sustainably

Draft Indicator	Draft Target	Baseline (if known)
Household Waste Sent to the Landfill	<ul style="list-style-type: none"> <li>By 2030 150 kg / household / yr</li> <li>By 2040 120 kg / household / yr</li> <li>By 2050 100 kg / household / yr</li> </ul>	191 kg / household / year (2019)

**Soil and waterway health:** so our lands and waters are healthy and cared for / managed sustainably

Draft Indicator	Draft Target	Baseline (if known)
Number of Water Samples at Monitored Sites Meeting BC Water Quality Guidelines	<ul style="list-style-type: none"> <li>Reduced number of samples that fail to meet guidelines</li> </ul>	TBD

**Ocean health:** so our lands and waters are healthy and cared for / managed sustainably

Draft Indicator	Draft Target	Baseline (if known)
Number of Water Samples at Monitored Sites Meeting BC Water Quality Guidelines	<ul style="list-style-type: none"> <li>Reduced number of samples that fail to meet guidelines</li> </ul>	TBD

**Air quality:** so everyone has good quality air to breathe

Monitored hourly at the provincial level.

**Biodiversity:** so our ecosystems are healthy and cared for

Draft Indicator	Draft Target	Baseline (if known)
Area of Lands Dedicated for Natural Area Protection (PRCI-Zoning)	<ul style="list-style-type: none"> <li>General: increase</li> <li>Specific target TBD</li> </ul>	2,152 ha

**Chemical Pollution:** so our lands and waters are healthy and cared for / managed sustainably

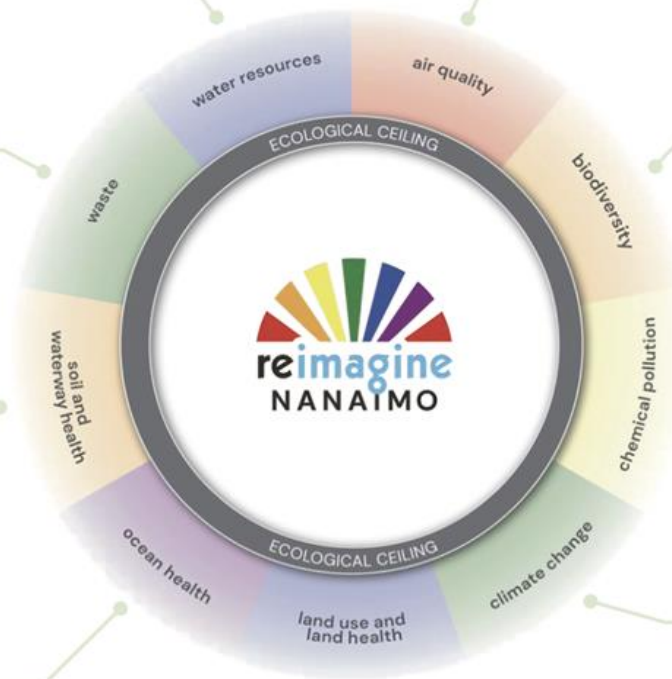
Draft Indicator	Draft Target	Baseline (if known)
Number of Water Samples at Monitored Sites Meeting BC Water Quality Guidelines	<ul style="list-style-type: none"> <li>Reduced number of samples that fail to meet guidelines</li> </ul>	TBD

**Climate change:** so the impacts of climate change are minimized for present and future generations

Draft Indicator	Draft Target	Baseline (if known)
Community greenhouse gas emissions (tCO <sub>2</sub> e)	<ul style="list-style-type: none"> <li>By 2030 reduce to 50%-58% below 2010</li> <li>By 2050 reduce to 94%-107% below 2010</li> </ul>	465,000 tCO <sub>2</sub> e (2010)

**Land use and land health:** so our lands and waters are healthy and cared for / managed sustainably

Draft Indicator	Draft Target	Baseline (if known)
Area of Lands Dedicated for Natural Area Protection (PRCI-Zoning)	<ul style="list-style-type: none"> <li>General: increase</li> <li>Specific target TBD</li> </ul>	2,152 ha







**A HEALTHY NANAIMO:  
COMMUNITY WELL-BEING & LIVABILITY**

so everyone has opportunity to have a healthy, safe, and affordable home

Element	Draft Indicator	Draft Target	Baseline (if known)
Chronic / Episodic Homelessness	Point-in-time count of people experiencing homelessness	» Elimination of homelessness by 2025	433 (2020)
Rental Housing Affordability	Average rent of a 2-Bedroom Apartment	» TBD	\$1,263 (2020)
Vacancy Rate	Percent of vacancies in rental accommodation	» 3%-5%	1% (2020)
Mix of Housing Types	Proportion of single-family, ground-oriented, and apartment housing types	» TBD	» 60% single-family » 18% ground-oriented » 22% apartment (2020)



**AN ENABLED NANAIMO:  
ECONOMIC PROSPERITY**

so everyone has opportunity to find good employment and businesses can thrive

Element	Draft Indicator	Draft Target	Baseline (if known)
Working Age Population	Percent of population that are of an age likely to be in the workforce (15-64)	» 67% of total population	63% (2020)
Non-Residential Building Permits	Value of commercial and public building permits issued	» General: increase » Specific target TBD	\$37.5 million (2020)
Ample & Diverse Business Opportunities	Number of total businesses and businesses with employees	» General: increase » Specific target TBD	6,281 businesses with 1+ employees (2020)



**A CONNECTED NANAIMO:  
EQUITABLE ACCESS & MOBILITY**

so everyone has safe, affordable, and sustainable options to move and to access their daily needs

Element	Draft Indicator	Draft Target	Baseline (if known)
Transportation by Mode	Trips made by different modes of transportation	Modal split by 2041: » 12% walking » 4% cycling » 8% transit » 76% vehicle	2016 Modal split: » 6% walking » 2% cycling » 4% transit » 86% vehicle
Distance Driven	Average distance driven per person per day	» 10 km per day / person by 2041	14 km per day / person (2011)
Access to Daily Needs	Number of households within a 400 m walk to employment lands, essential services, schools, transit, recreation services, parks, and healthcare	» TBD	» Employment lands: TBD » Essential Services: 8% » Elementary Schools: 4% » Transit: TBD » Recreation Facilities: TBD » Parks: 71% » Healthcare: 5%
Growth in Nodes & Corridors	Proportion of growth occurring in designated growth areas - urban nodes and corridors	» TBD	TBD
Traffic Injury Rate	Number of reported crashes throughout the City	» Vision zero	TBD



**AN EMPOWERED NANAIMO:  
DIVERSITY, CULTURE, AND SOCIAL INTEGRITY**

so everyone can thrive and have opportunities to connect and participate in a way that fulfills them




































Element	Draft Indicator	Draft Target	Baseline (if known)
Inclusion & Diversity	TBD	» TBD	TBD
Investment in Arts, Culture and Heritage	Dollars being invested into arts, culture, and heritage	» General: increase » Specific target TBD	TBD
Participation in PRC Programs and Services	Number of people participating in PRC programs and services	» General: increase » Specific target TBD	TBD
Public Waterfront Access	Length of waterfront with public access and number of publicly accessible waterfront features	» Increase	TBD



# 5 CITY GOALS



## 35 CITY PLAN POLICY TOPIC AREAS

- |   |   |  |   |   |
|---|---|--|---|---|
| <ul style="list-style-type: none"> <li> <b>C1.1</b><br/>Greenhouse Gas Emissions Reduction<br/><i>City Plan p. 28</i></li> <li> <b>C1.2</b><br/>Climate Adaptation &amp; Hazard Mitigation<br/><i>City Plan p. 34</i></li> <li> <b>C1.3</b><br/>Urban Tree Canopy, Natural Areas, &amp; Greenways<br/><i>City Plan p. 36</i></li> <li> <b>C1.4</b><br/>Healthy Watersheds<br/><i>City Plan p. 39</i></li> <li> <b>C1.5</b><br/>Water, Sewer, &amp; Stormwater Services<br/><i>City Plan p. 41</i></li> <li> <b>C1.6</b><br/>Solid Waste Management<br/><i>City Plan p. 44</i></li> <li> <b>C1.7</b><br/>Brownfield Sites<br/><i>City Plan p. 46</i></li> <li> <b>C1.8</b><br/>Artificial Lighting &amp; Dark Skies<br/><i>City Plan p. 47</i></li> </ul> | <ul style="list-style-type: none"> <li> <b>C2.1</b><br/>Connected Communities<br/><i>City Plan p. 56</i></li> <li> <b>C2.2</b><br/>Integrated Walk, Roll, Cycle, &amp; Transit Network<br/><i>City Plan p. 58</i></li> <li> <b>C2.3</b><br/>Recreational Trails<br/><i>City Plan p. 61</i></li> <li> <b>C2.4</b><br/>Safe Mobility (Vision Zero)<br/><i>City Plan p. 63</i></li> <li> <b>C2.5</b><br/>Complete Streets<br/><i>City Plan p. 64</i></li> </ul> | <ul style="list-style-type: none"> <li> <b>C3.1</b><br/>Community Safety &amp; Security<br/><i>City Plan p. 72</i></li> <li> <b>C3.2</b><br/>Affordable Housing<br/><i>City Plan p. 75</i></li> <li> <b>C3.3</b><br/>Intergenerational Living<br/><i>City Plan p. 79</i></li> <li> <b>C3.4</b><br/>Food Security<br/><i>City Plan p. 81</i></li> <li> <b>C3.5</b><br/>Emergency Management<br/><i>City Plan p. 83</i></li> <li> <b>C3.6</b><br/>Recreation, Culture, &amp; Wellness<br/><i>City Plan p. 85</i></li> </ul> | <ul style="list-style-type: none"> <li> <b>C4.1</b><br/>Truth &amp; Reconciliation<br/><i>City Plan p. 97</i></li> <li> <b>C4.2</b><br/>Equity &amp; Inclusivity<br/><i>City Plan p. 101</i></li> <li> <b>C4.3</b><br/>Access for All<br/><i>City Plan p. 103</i></li> <li> <b>C4.4</b><br/>Political Voice &amp; Engagement<br/><i>City Plan p. 106</i></li> <li> <b>C4.5</b><br/>Culture<br/><i>City Plan p. 108</i></li> <li> <b>C4.6</b><br/>Archaeology &amp; Heritage<br/><i>City Plan p. 110</i></li> <li> <b>C4.7</b><br/>Public Art Projects &amp; Programs<br/><i>City Plan p. 113</i></li> <li> <b>C4.8</b><br/>Community Events, Festivals, Tournaments, &amp; Gatherings<br/><i>City Plan p. 115</i></li> <li> <b>C4.9</b><br/>Parkland &amp; Park Amenity Management<br/><i>City Plan p. 117</i></li> <li> <b>C4.10</b><br/>Waterfront Use &amp; Protection<br/><i>City Plan p. 121</i></li> </ul> | <ul style="list-style-type: none"> <li> <b>C5.1</b><br/>Economic Capital<br/><i>City Plan p. 130</i></li> <li> <b>C5.2</b><br/>Human, Social, &amp; Environmental Capital<br/><i>City Plan p. 132</i></li> <li> <b>C5.3</b><br/>Business Development<br/><i>City Plan p. 133</i></li> <li> <b>C5.4</b><br/>Innovation &amp; Technology<br/><i>City Plan p. 134</i></li> <li> <b>C5.5</b><br/>Place Making &amp; Investment Attraction<br/><i>City Plan p. 135</i></li> <li> <b>C5.6</b><br/>Tourism<br/><i>City Plan p. 137</i></li> </ul> |
|---|---|--|---|---|

# ONE UNIFYING FRAMEWORK FIVE DRAFT STRATEGIC GOALS



A GREEN NANAIMO:  
RESILIENT & REGENERATIVE  
ECOSYSTEMS



A HEALTHY NANAIMO:  
COMMUNITY WELL-BEING &  
LIVABILITY



A CONNECTED NANAIMO:  
EQUITABLE ACCESS &  
MOBILITY



AN EMPOWERED NANAIMO:  
DIVERSITY, CULTURE, AND  
SOCIAL INTEGRITY



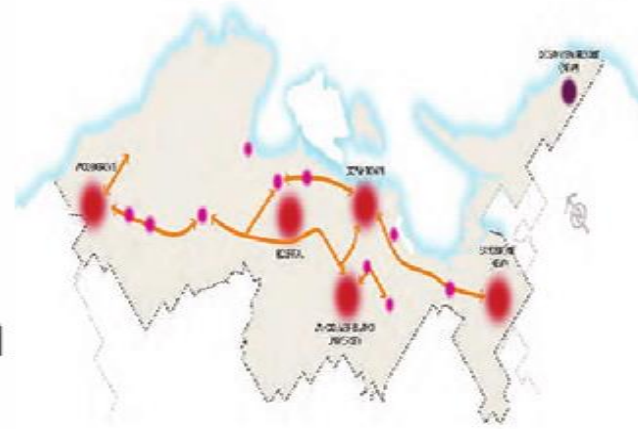
AN ENABLED NANAIMO:  
ECONOMIC PROSPERITY



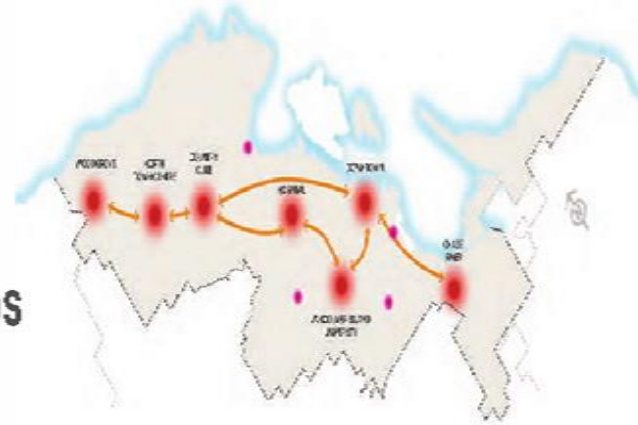
# Three Preliminary Scenarios



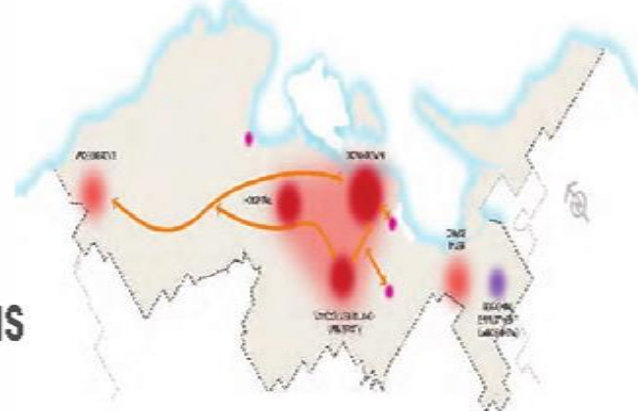
Scenario 1:  
**Current Path**











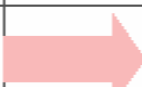
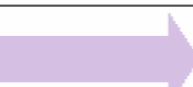

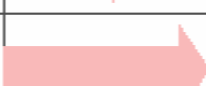






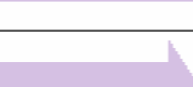

















Scenario 2:  
**Mobility Hubs**



Scenario 3:  
**Central Focus**



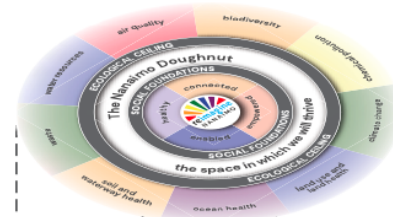
COMPARING THE SCENARIOS		CURRENT PATH	MOBILITY HUBS	CENTRAL FOCUS
GREEN	Reduced GHG Emissions			
	Protecting Open Space & Natural Areas			
HEALTHY	Housing Diversity			
	Housing Affordability			
	Supportive Social Services			
CONNECTED	Housing Near Daily Needs			
	Walk, Bike & Transit Supportive Neighbourhoods			
EMPOWERED	Living Close to Parks			
	Living Close to Recreation Facilities			
ENABLED	Living Close to Employment Centres			
	Industrial Lands			
	Financial Resilience			

# HOW IT FITS TOGETHER

*City Plan – Nanaimo Reimagined* combines existing policies and actions, incorporates new information, and lays a groundwork for a future of ongoing integration. Below are the elements that form *City Plan*.

The **Nanaimo Doughnut** is our framework. It articulates the interconnectivity between all aspects of our city and defines the space in which Nanaimo will thrive.

*City Plan Section B1.1, page 14*

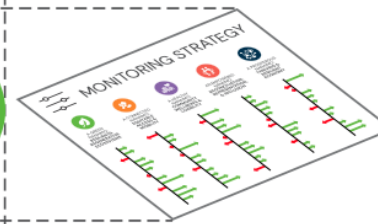
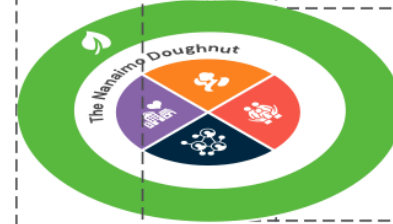


**Monitoring**, located in a separate *Monitoring Strategy* document, will identify indicators that will be tracked to see progress towards the goals of *City Plan*.

*Monitoring Strategy*

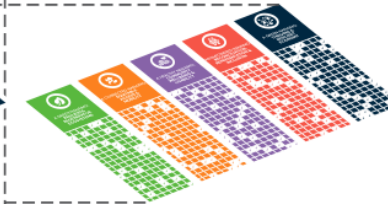
The **Five City Goals** represent the five areas of focus for our city's future and how we organize our policies.

*City Plan Section B2.1, page 16*



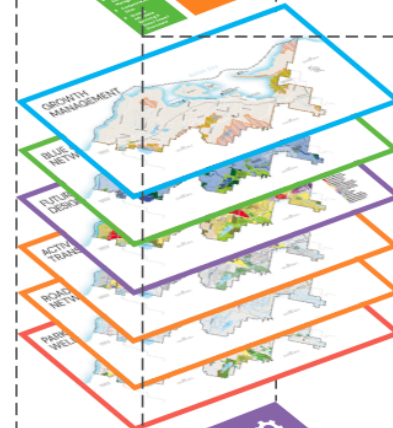
Our **Policies** translate Nanaimo's goals into strategic directions that communicate our intentions and commitments for guiding future choices.

*City Plan Part C, page 19*



Our **City Structure** is our physical growth plan that puts our framework and goals into action. It outlines how and where things will change and where they will stay the same in the future.

*City Plan Part D, page 139*



Our **Actions**, located in a separate *Integrated Action Plan* document, will provide specific projects and programs to implement *City Plan*.

*Integrated Action Plan*

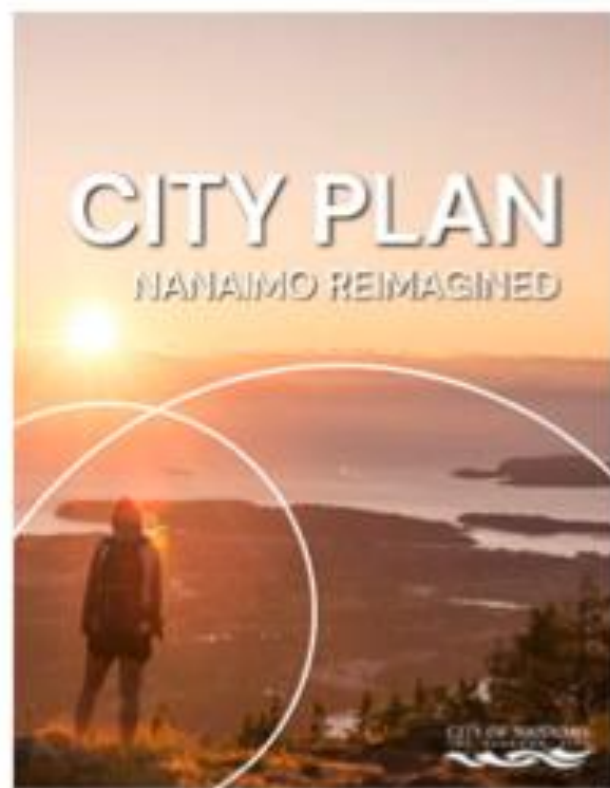
**Taking Action** outlines details on development permit areas, building relationships, financial considerations, and what comes next.

*City Plan Part E, page 221*

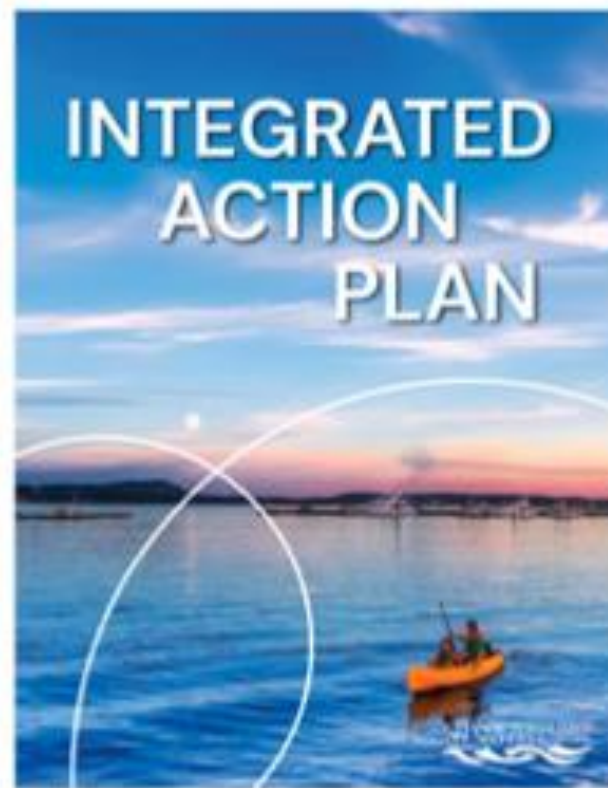




Adopted July 4, 2022



Spring 2023



Summer 2023



A GREEN NANAIMO		
Ref.	Programs & Projects	Connected City Plan Policies
<b>GREENHOUSE GAS EMISSION REDUCTION</b>		
<b>ONGOING (Ongoing &amp; Repeated)</b>		
1	Update corporate policies for City owned facilities to reflect current and future energy and Greenhouse Gas emissions reduction requirements and other green building practices.	▶ C1.5
<b>IMMEDIATE (0 - 4 Years)</b>		
2 ★	Advocate to the Province of BC for a moratorium on all new natural gas connections and discourage fuel switching.	▶ C1.7
3 \$ ★	Confirm final steps with respect to Nanaimo's Step Code implementation strategy, to ensure higher step code compliance requirements come into effect before the Provincial mandated implementation timelines.	▶ C1.8
4 \$	Complete an inventory of energy use and Greenhouse Gas emissions of all community buildings, to identify building energy upgrade opportunities and challenges by building type. Depending on results, develop a financing program for home energy upgrades.	▶ C1.5
5	Update development permit requirements to include energy, climate, and water efficiency from a site and building design perspective. Develop guidelines that may include passive design techniques, shading, rainwater management, green roofs, building orientation, Water Wise landscape, building energy systems and renewable power generation, among other topics.	▶ C1.8
6 \$	Conduct a City fleet electrification study.	▶ C1.9
<b>CLIMATE ADAPTATION &amp; HAZARD MANAGEMENT</b>		
<b>IMMEDIATE (0 - 4 Years)</b>		
7	Use a climate risk and vulnerability assessment method to be used for reviewing large capital infrastructure investments in the city (e.g., a Public Infrastructure Engineering Vulnerability Committee (PIEVC)).	▶ C1.2.7
8	Develop a Green Shores strategy to help naturalize the shoreline to protect waterfront properties from flood risk and landslide, while also protecting and restoring habitats.	▶ C1.2.6

# Plan Integration







**THANK YOU**



# CIRCULAR ECONOMY IN AMSTERDAM

Juan-Carlos Goilo  
Circular Innovation Lead  
Municipality of Amsterdam

CCRI Webinar, Vancouver  
May 2nd 2023



A thriving,  
regenerative and  
inclusive city  
for all citizens,  
while respecting  
the planetary  
boundaries.







## Amsterdam introduction

- 746 years old
- Inhabitants: 872.497
- Houses: 449.982
- Budget: 6,9 billion euro

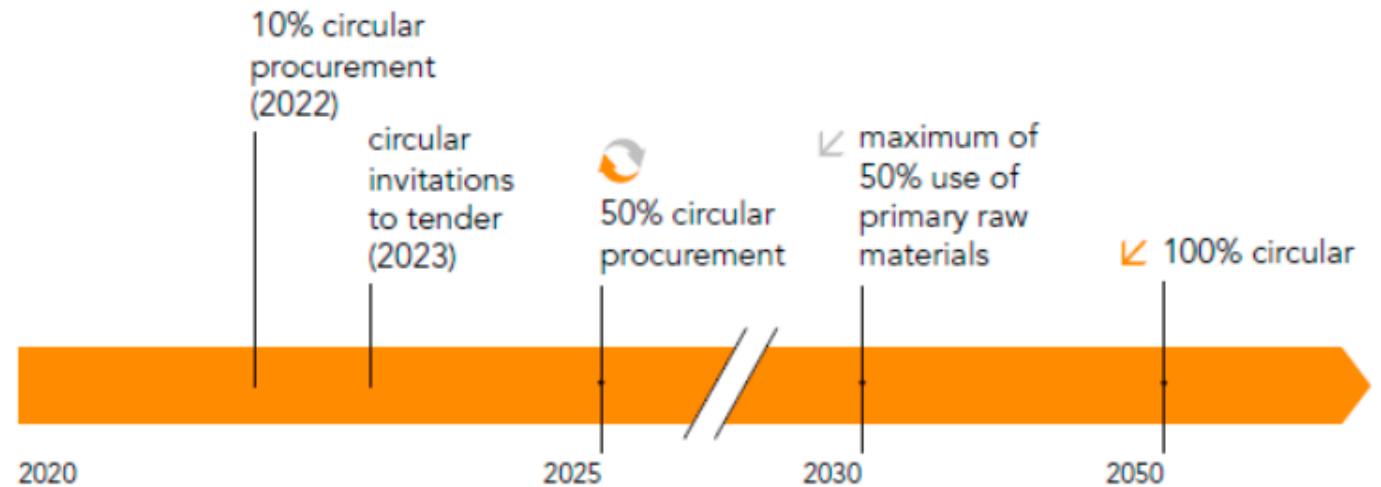






## Amsterdam sustainability goals

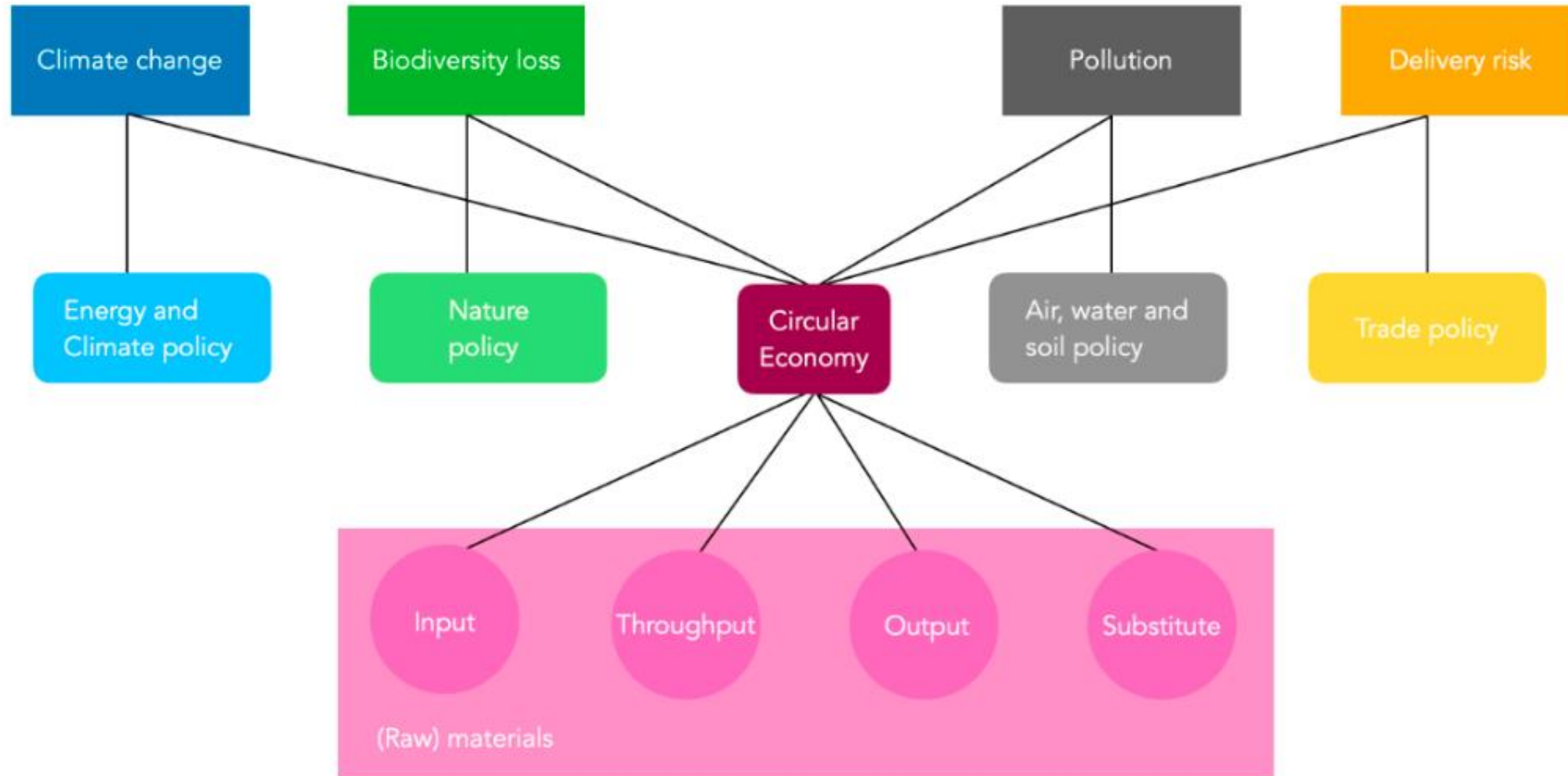
- CO<sub>2</sub> reduction goals compared tot 1990: 55% in 2030, 95% in 2050
- Circular goals: 50% less raw materials in 2030, circular in 2050



Important medium and long-term circular milestones for Amsterdam.



## But circular economy is embedded in every aspect of society





## Learning by doing







# CIRCULAR STRATEGY FIRST TO BE BASED ON THE DOUGHNUT





## Our approach: We learn by doing.

We follow two approaches in implementing our ambitions:

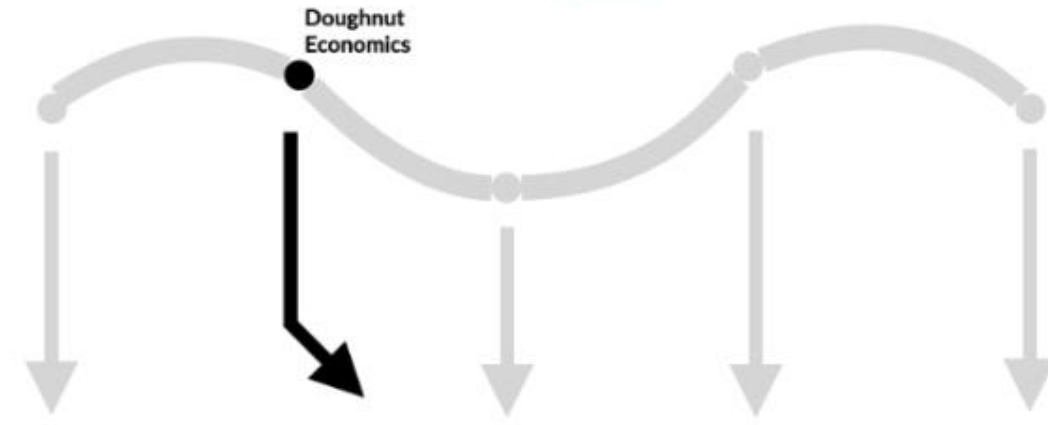
- Top-down: as a municipality, we indicate what we want to achieve and how we want to get there.
- Bottom-up: we give room to circular projects and initiatives to accelerate and scale up.





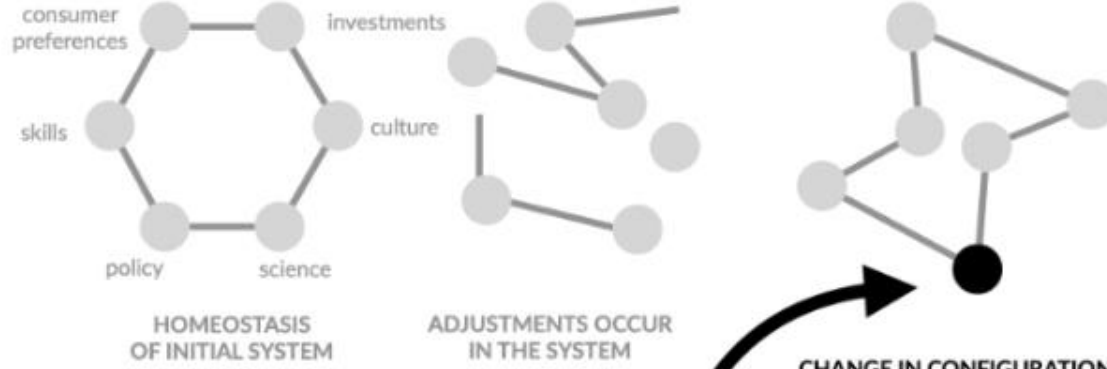
Landscape

Increasing coherence in local practices



CHANGES IN THE NARRATIVE LANDSCAPE PUT PRESSURE ON THE EXISTING SYSTEM

Regime



CHANGE IN CONFIGURATIONS  
IN THE SYSTEM CREATED  
BY INFORMATION FROM THE  
MONITOR

Niches



MONITOR AS LEARNING AND  
EXPERIMENTAL ACTIVITY:  
SMALL NETWORKS OF ACTORS  
SUPPORT INNOVATION ON THE  
BASIS OF EXPECTATIONS AND VISIONS.

Time





# Regenerative by design – examples in the built environment

Circular district Buiksloterham



Circular artificial grass



Circular gym floor







## Distributive by design (examples)

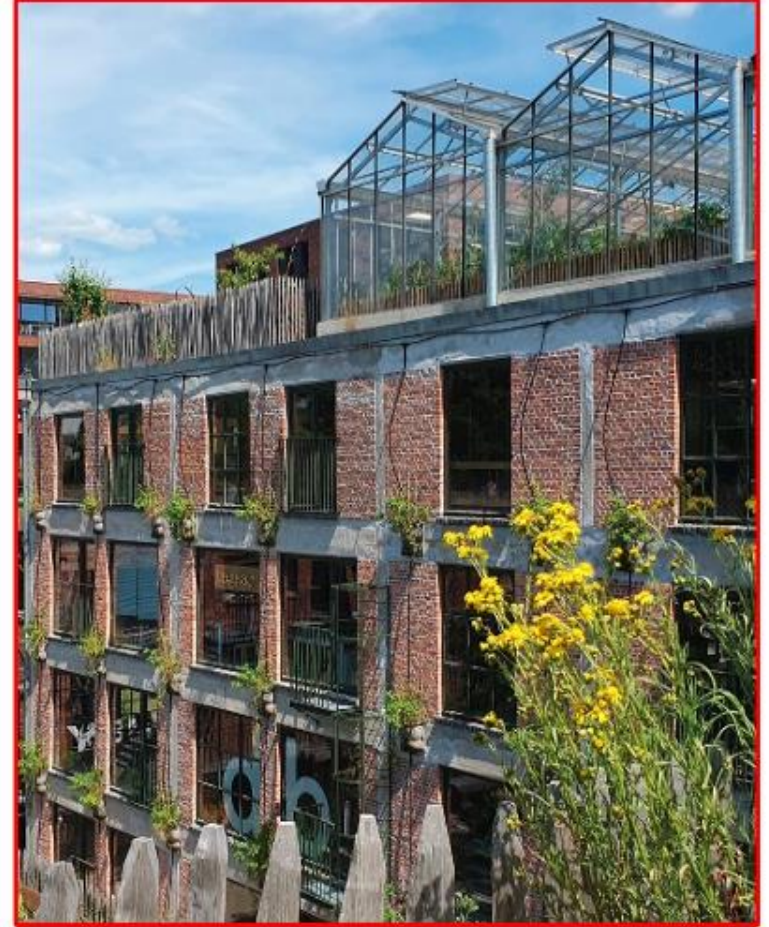
Farmers for Neighbors



Community Land Trust



Circular housing corporations





# Fair and circular clothing







## Challenges beyond our circle of influence

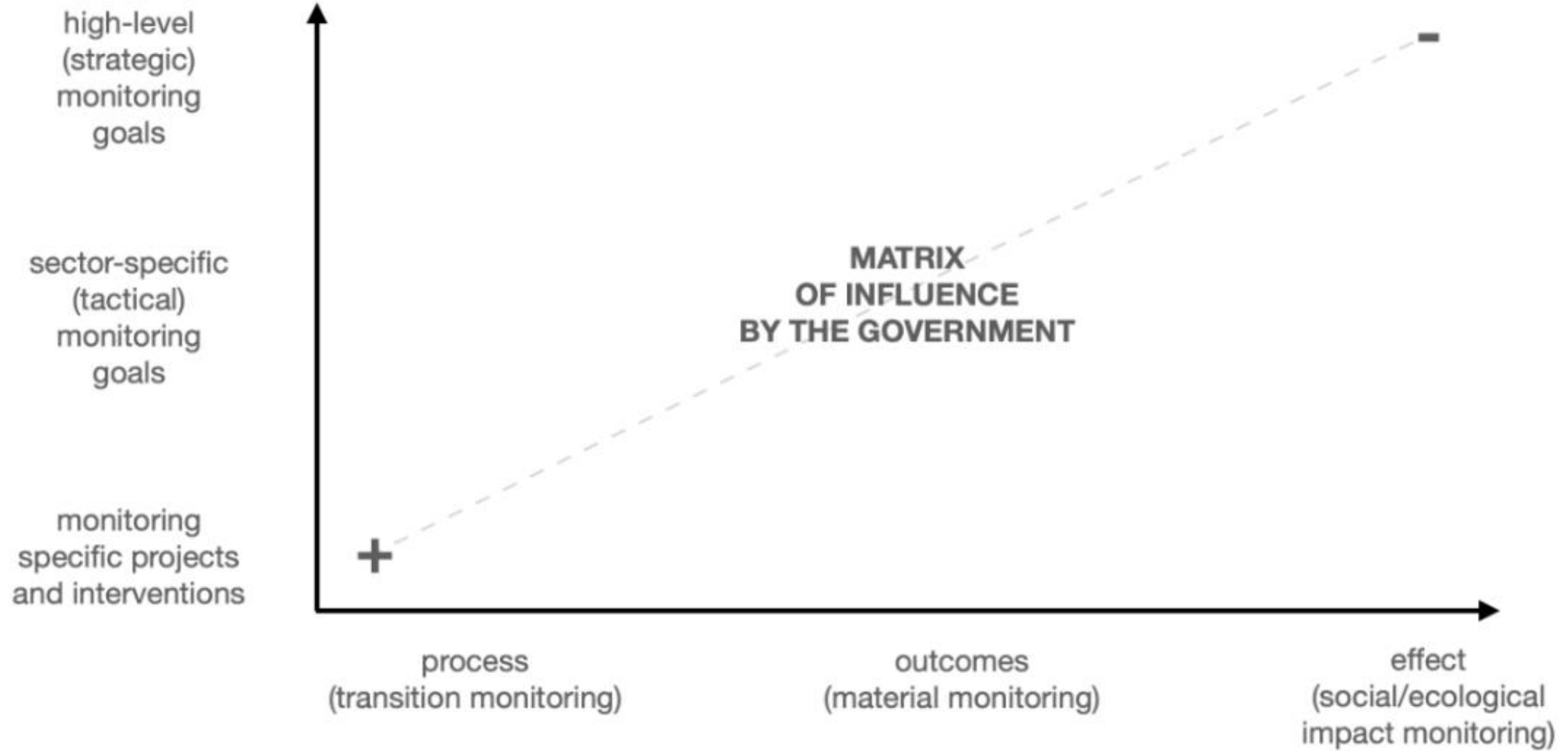
- Legislation on value streams like textile and construction materials
- Extended producer responsibility
- Green tax shift





# Types of monitoring

**ABSTRACTION LEVELS OF MONITORING**



**TYPES OF MONITORING**



**Thank you**





# THANK YOU / MERCI !

Reach out to explore opportunities to get involved with the CCRI:

[info@canadiancircularcities.ca](mailto:info@canadiancircularcities.ca)

Contactez-nous pour explorer les possibilités de vous impliquer dans le projet VRC:

[info@villesetregionscirculaires.ca](mailto:info@villesetregionscirculaires.ca)

[www.canadiancircularcities.ca](http://www.canadiancircularcities.ca) / [www.villesetregionscirculaires.ca](http://www.villesetregionscirculaires.ca)

