

# Doughnut Economics

A Compass for 21st century transformations

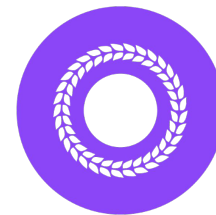
Zohar Ianovici & Merav Cohen

Wexner Summit, March 14th, 2023



# Welcome to keep in touch

קהילת כלכלת הדונאט בישראל  
مجتمع اقتصاد الدونات في إسرائيل  
Israel Doughnut Community



## Merav Cohen

PhD candidate, Technion - Israel Institute of Technology  
MPA, Environmental Science & Policy

LLB (law), energy & infrastructure deals  
EU-China Environmental Governance Programme

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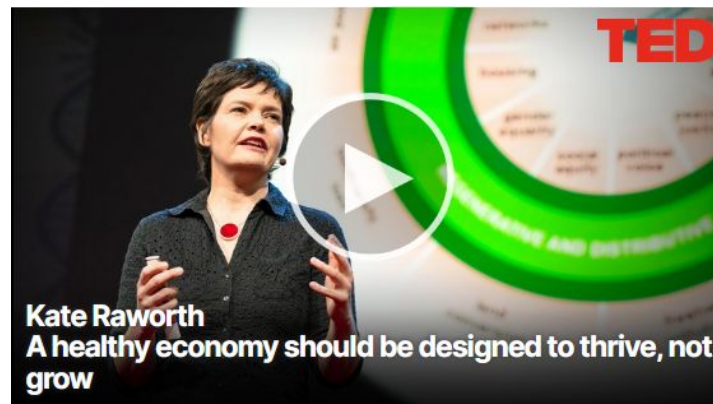
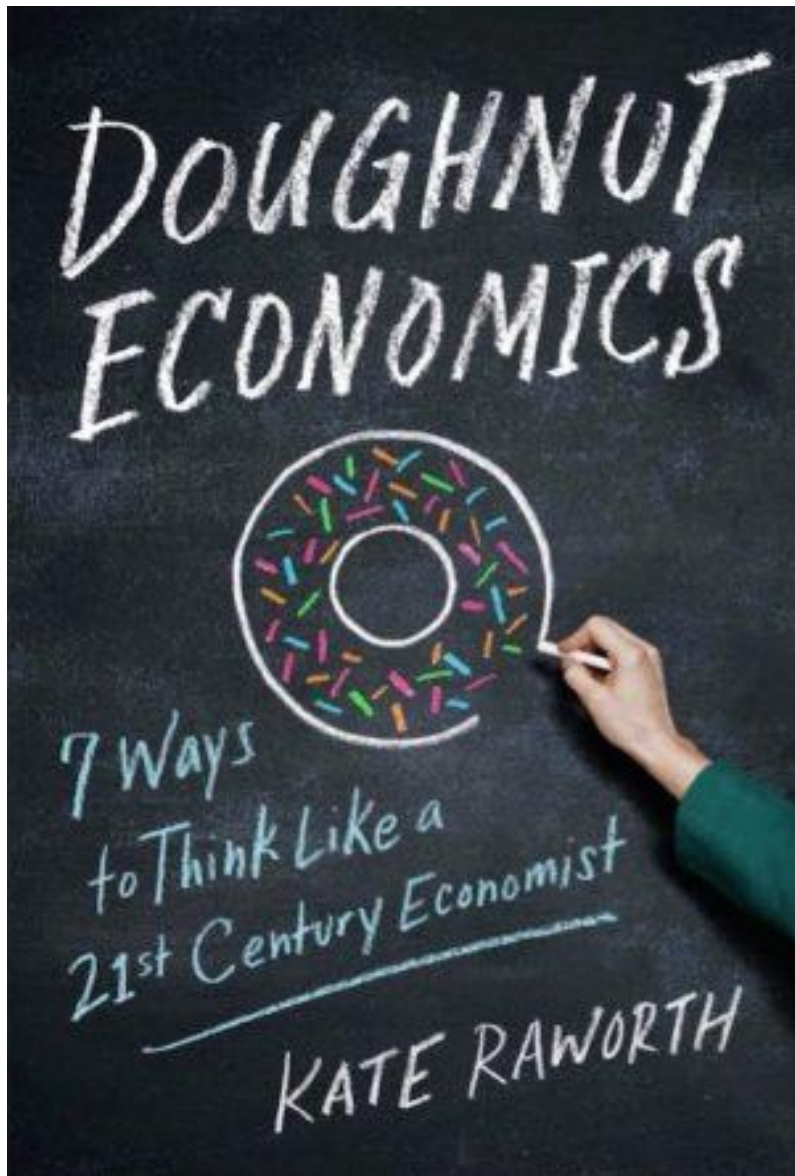
## Zohar Ianovici

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**Oxford University, Environmental Change Institute, Senior Associate**  
**Amsterdam University of Applied Sciences, Professor of Practice**

BA, **Politics, Philosophy and Economics**, Oxford University

MSc, **Economics for Development**, Oxford University

Honorary doctorates: University of York, KU Leuven,  
Business School Lausanne

Zanzibar, working with micro-entrepreneurs

OXFAM, senior researcher

UNDP, co-author of the Human Development Report

Club of Rome

WHO Council on the Economics of Health for All





# How the 21<sup>st</sup> century has begun

## Financial meltdown



New York, US

## Ecological breakdown



European wildfires

## COVID lockdown



Kuala Lumpur, Malaysia



Athens, Greece



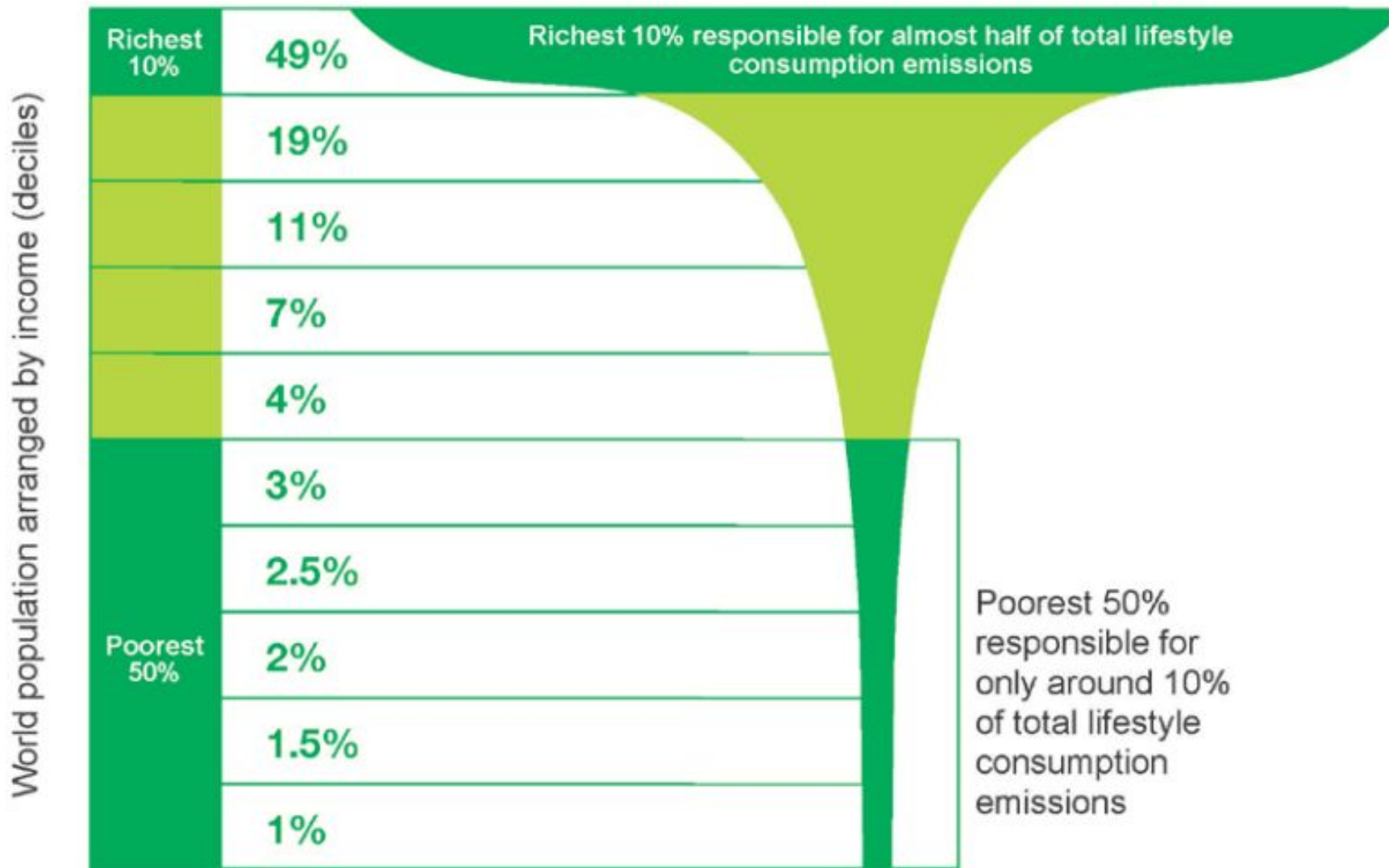
Baluchistan, Pakistan



Bogotá, Colombia



## Percentage of CO<sub>2</sub> emissions by world population



- Richest 10% of global population (>\$33K/year) responsible for almost half of total lifestyle emissions
- Richest global 1% responsible for more than 50 percent of aviation emissions.

Source: Oxfam (2015)

# (Lesson 1) Change the goal

## 20th century economics

Primary goal: Growth

- GDP - Gross Domestic Product
- Total value of goods and services sold in a given period

Defined in the 1930s Simon Kuznets:

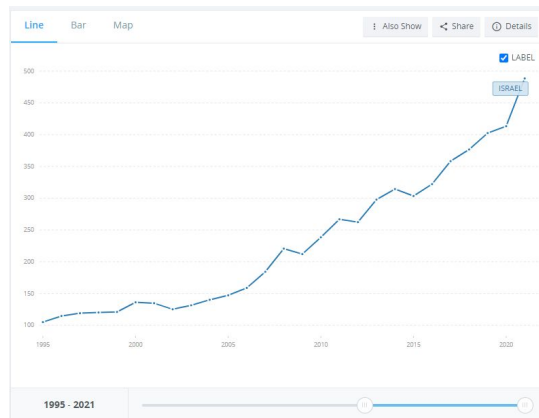
*"The welfare of a nation can, therefore, scarcely be inferred from a measurement of national income as defined above"*

## ISRAEL

1992: \$105b

2021: \$485b

Source: WB Data



## Doughnut Economics



# (Lesson 1) Change the goal

## The Doughnut's dimensions (as of 2017)

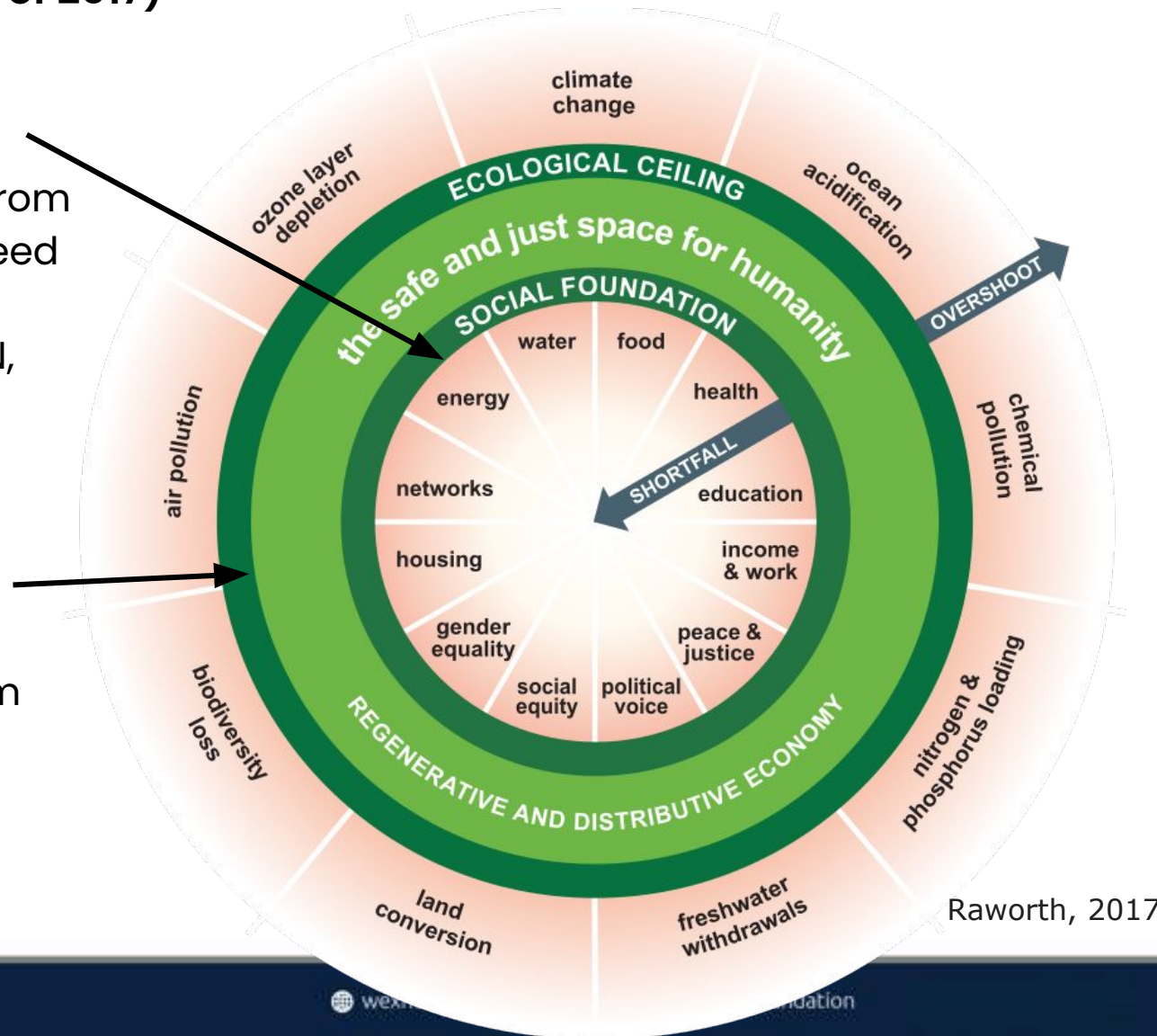
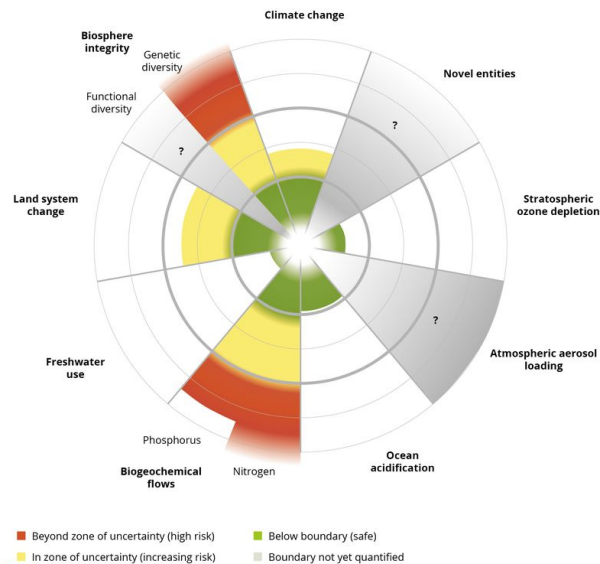


### Social Foundation

12 dimensions derived from the social priorities agreed in the Sustainable Development Goals (UN, 2015)

### Ecological Ceiling

9 dimensions: the nine planetary boundaries defined by Earth-system scientists (Steffen et al., 2015)



Raworth, 2017



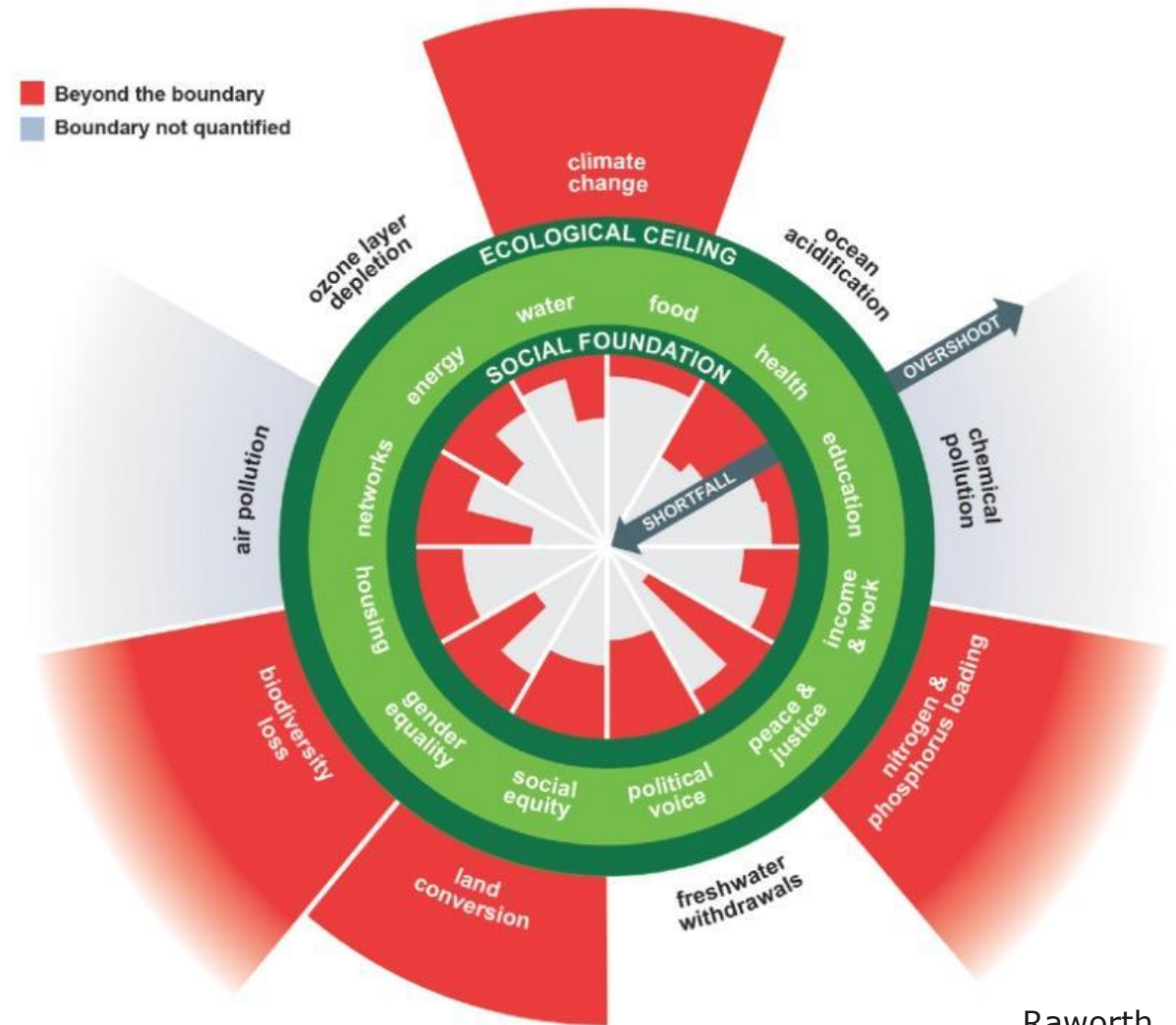
# Humanity is living far out of balance

## Latest planetary boundaries study (2022):

5th transgressed planetary boundary -  
Novel entities (chemical pollution).

## Latest UN SDG [report \(2022\)](#):

- >700M below \$2.5/day
- 1/10 hungry
- 150M children severely malnourished
- Covid: Life expectancy dropped (1st time since 1950s)



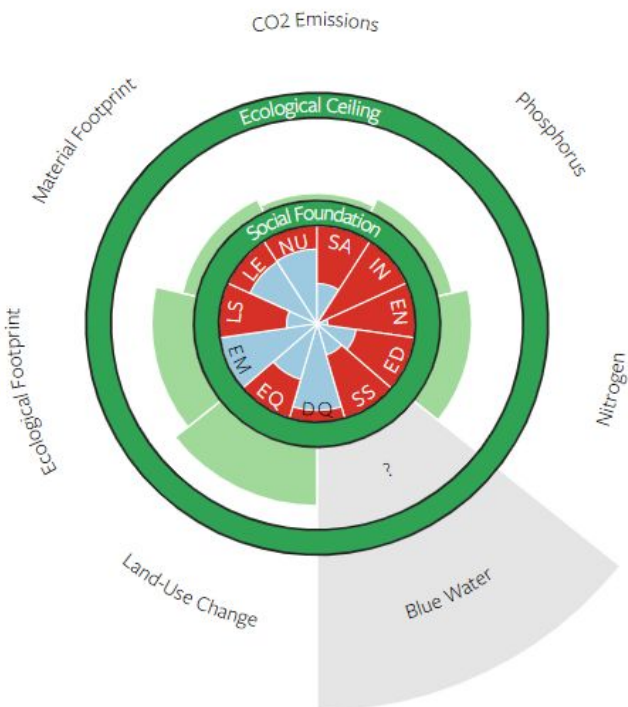
Raworth, 2017

We are all developing countries

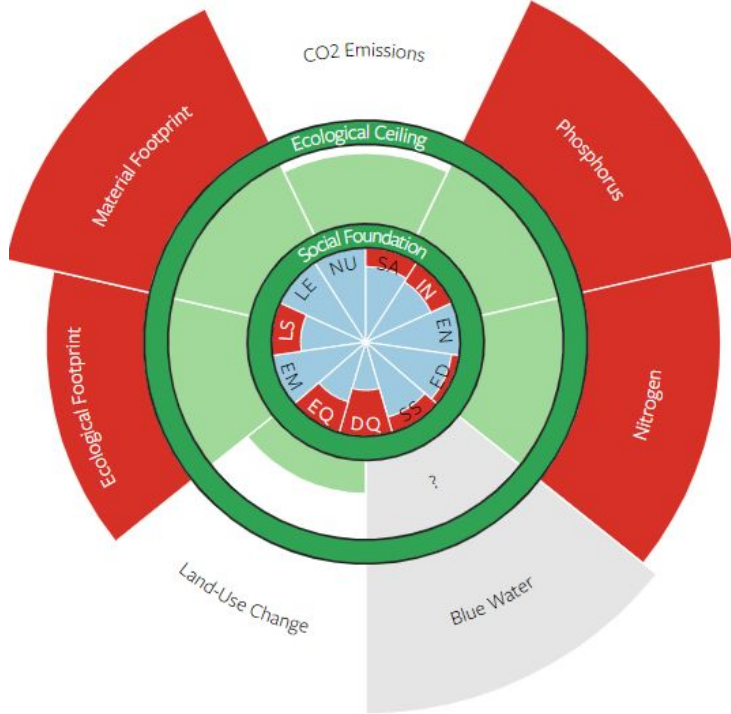


Source: [Fanning et al, 2022](#)

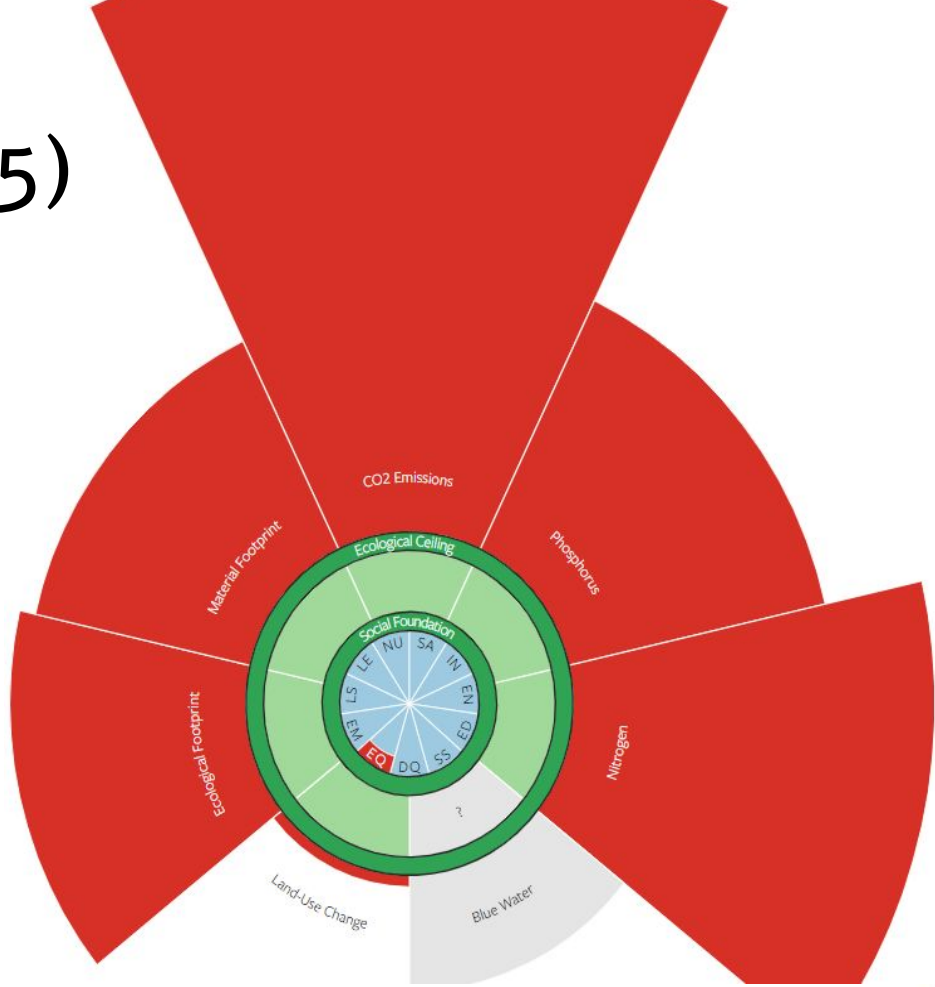
# National doughnuts & GDP PC (2015)



**Malawi**  
\$376 pc



**China**  
\$8,016 pc



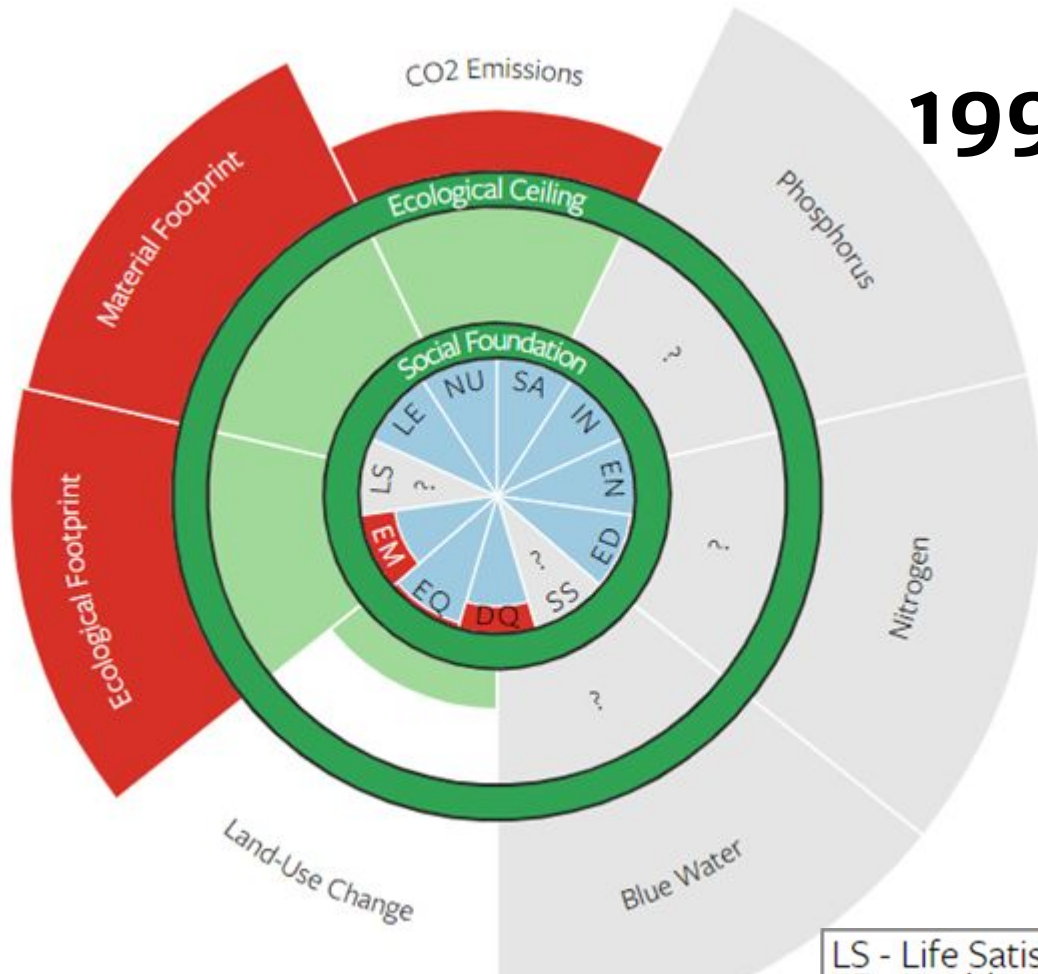
**United States**  
\$56,762

Source: [Fanning et al, 2022](#)



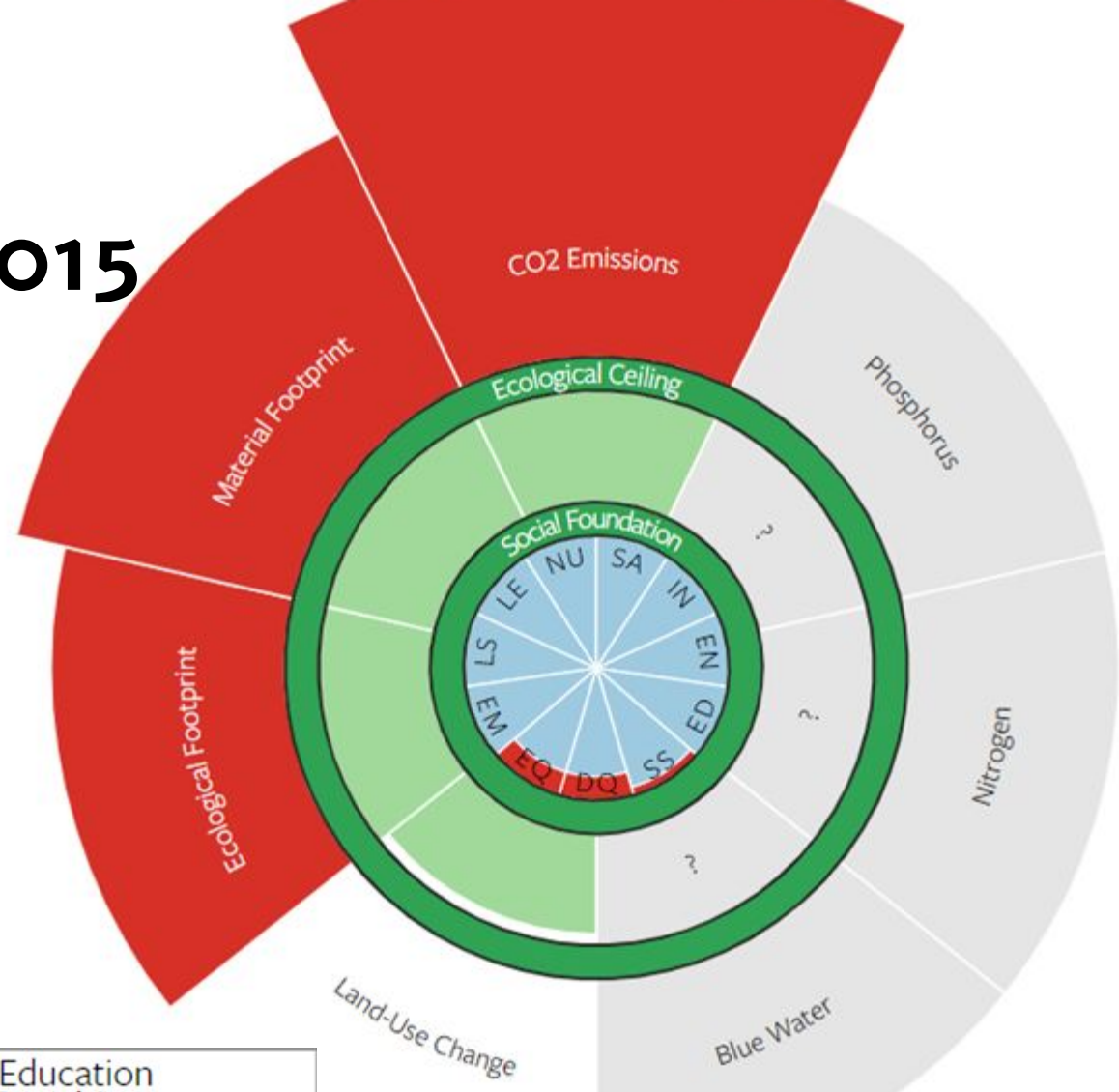
# Israel

1992 → 2015



**GDP \$15,021 pc**

- LS - Life Satisfaction
- LE - Healthy Life Expect.
- NU - Nutrition
- SA - Sanitation
- IN - Income
- EN - Access to Energy
- ED - Education
- SS - Social Support
- DQ - Democratic Quality
- EQ - Equality
- EM - Employment



**GDP \$36,206 pc**

Source: [Fanning et al, 2022](https://doi.org/10.1016/j.ecolecon.2022.102700)



## A Good Life For All Within Planetary Boundaries

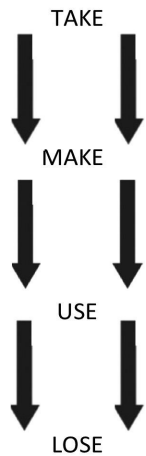
For at least the last 30 years, no country has met the basic needs of its residents at a globally sustainable level of resource use. How does your country compare with others on achieving the goal of a safe and just future for all? How many social goals does it achieve? How many planetary boundaries does it transgress?

### National Trends (New!)

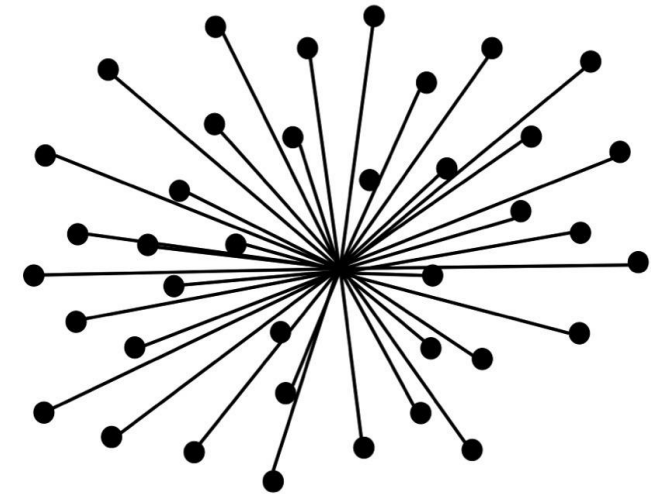
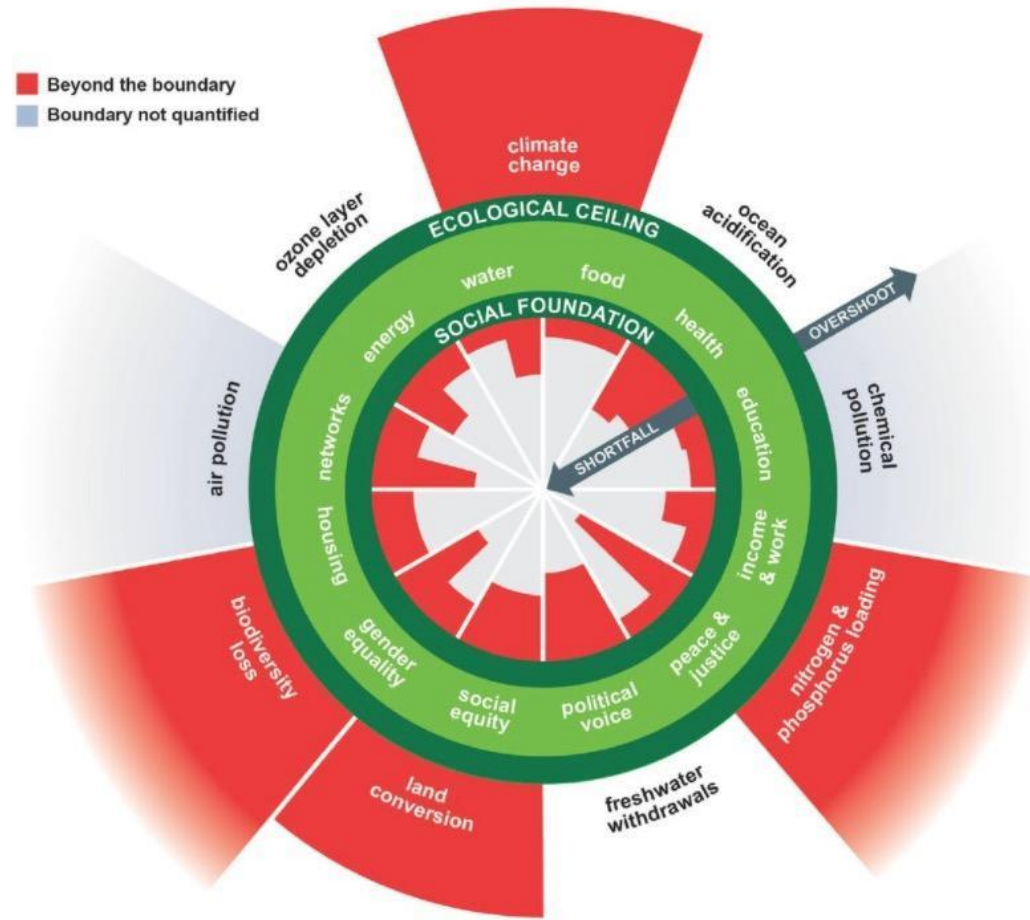
Countries have been transgressing planetary boundaries faster than they have been meeting the basic needs of their residents. Explore the progress of nearly 150 countries over time using interactive charts and doughnut plots from our recent 2021 study, [The Social Shortfall and Ecological Overshoot of Nations](#), published in *Nature Sustainability* (available to read open-access [here](#), and summarised in [Our Blog](#)).

<https://goodlife.leeds.ac.uk/>

# How can humanity get into the Doughnut?



Degenerative

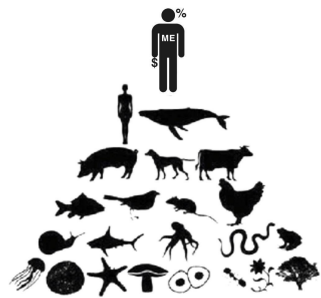
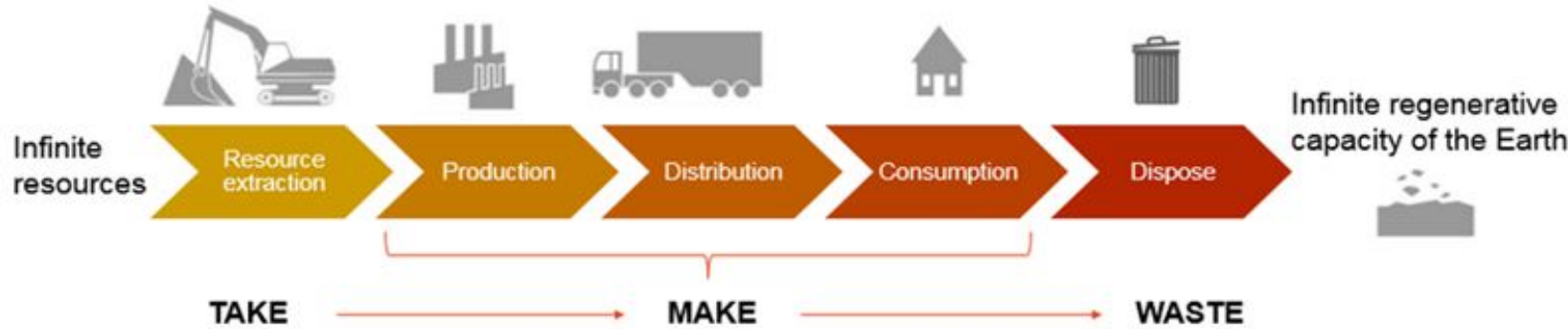


Divisive

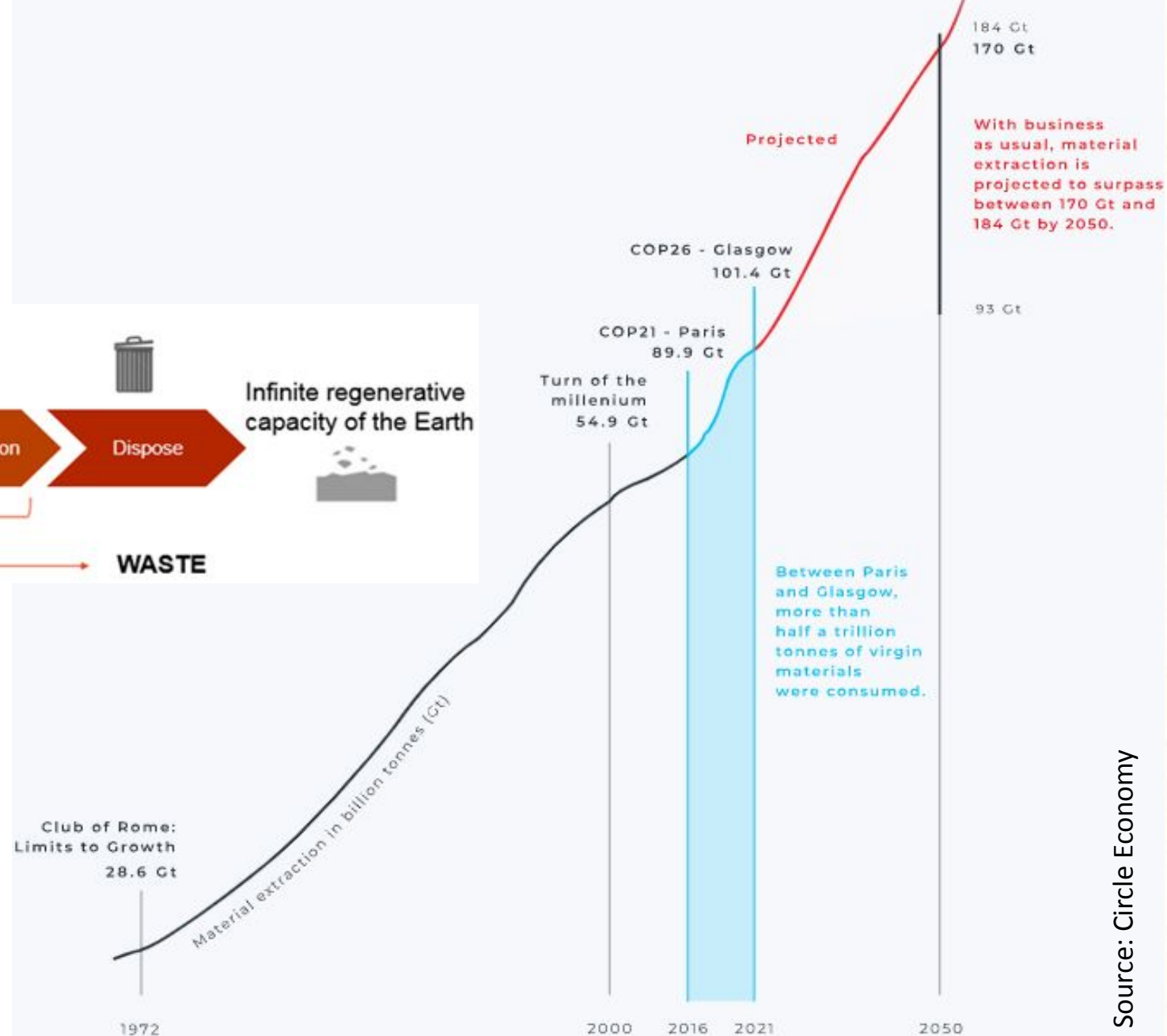
Raworth, 2017



# (Lesson 2) Create to regenerate

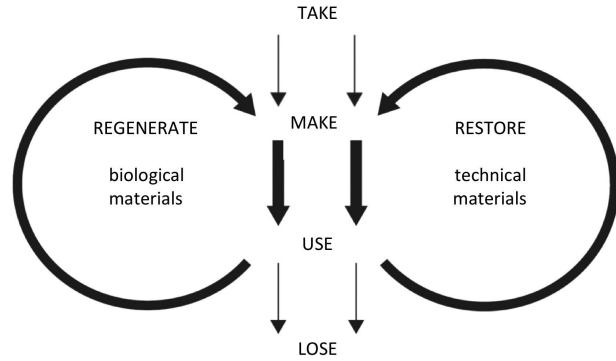


20th century economics

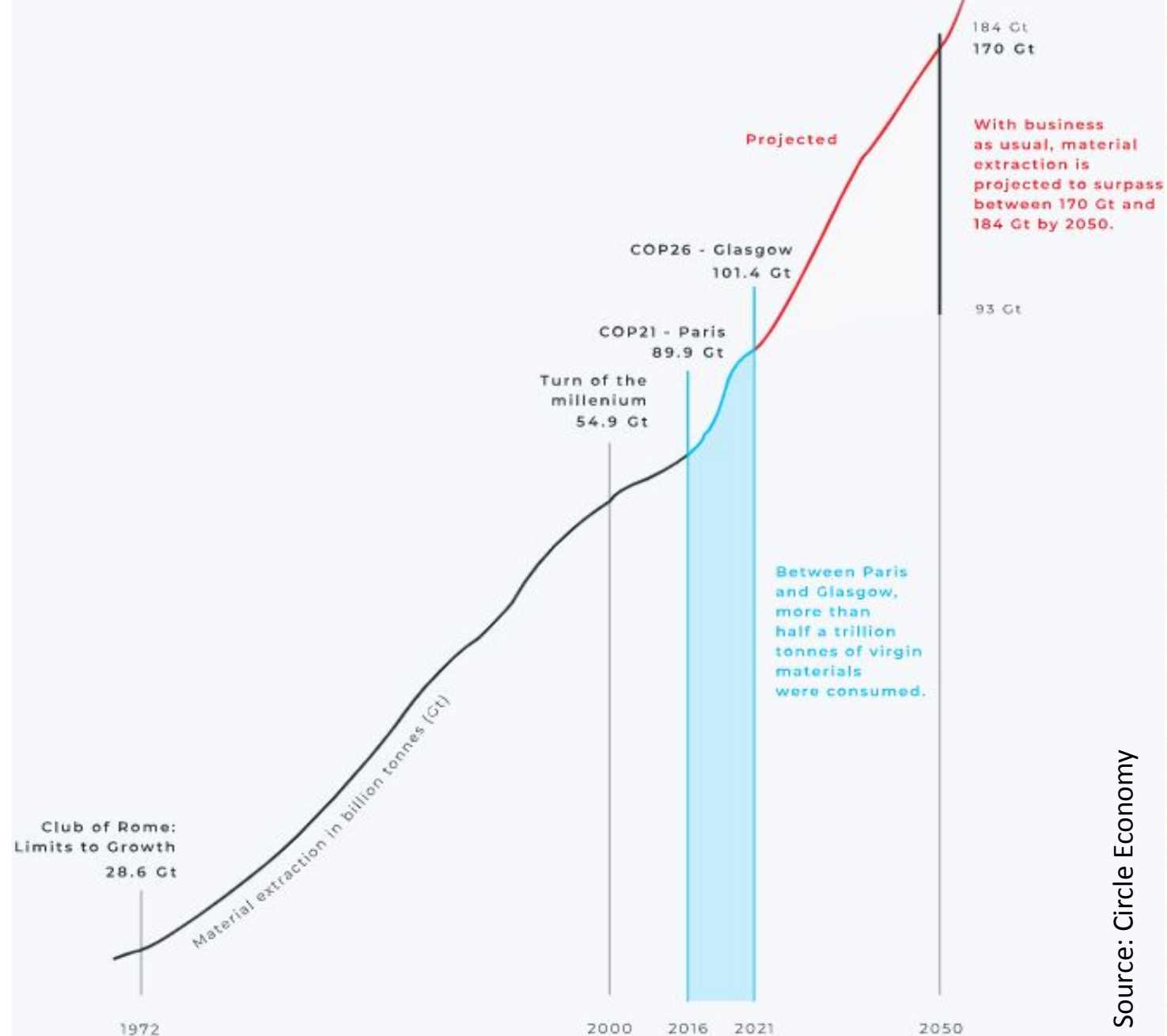


Source: Circle Economy

# (Lesson 2) Create to regenerate



**Be regenerative  
by design**



Source: Circle Economy





## Degenerative

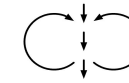


**Landscape degradation**

## Sustainable



**Zero deforestation**



## Regenerative



**Landscape restoration**



**Built-in obsolescence**



**100% recyclable**



**Repair & modular design**



# Towards regenerative design



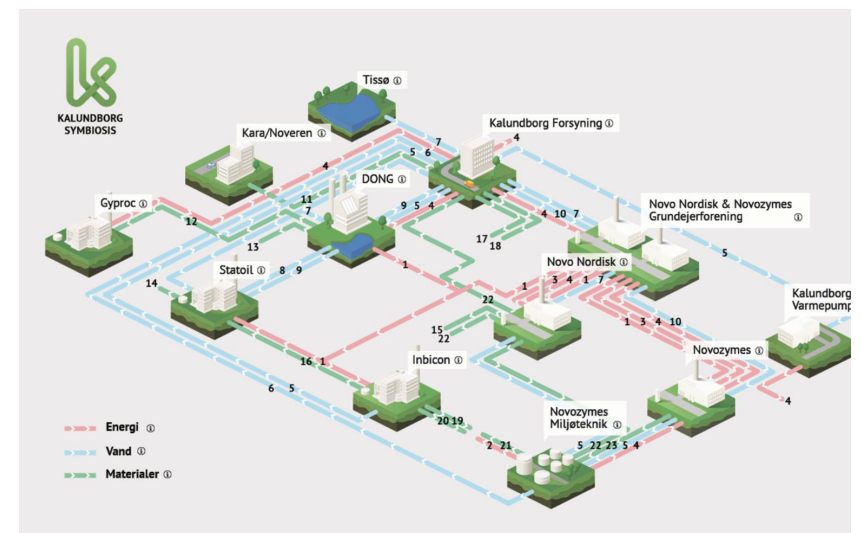
**Urban reforestation - Freetown**



**Sponge city - Qunli**



**Circular construction - Amsterdam**



**Circular partnership – Denmark**



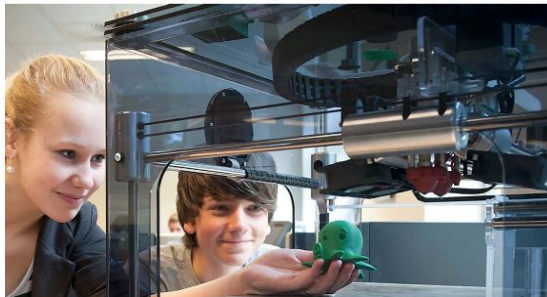
# Create to regenerate - Policy level



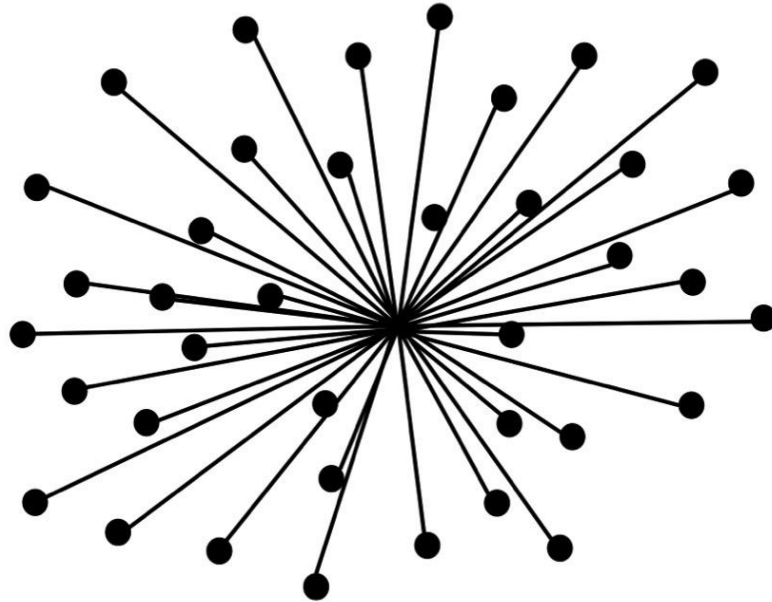
A Circular Economy  
in the Netherlands  
by 2050



Bundesministerium  
für Klimaschutz, Umwelt,  
Energie, Mobilität,  
Innovation und Technologie

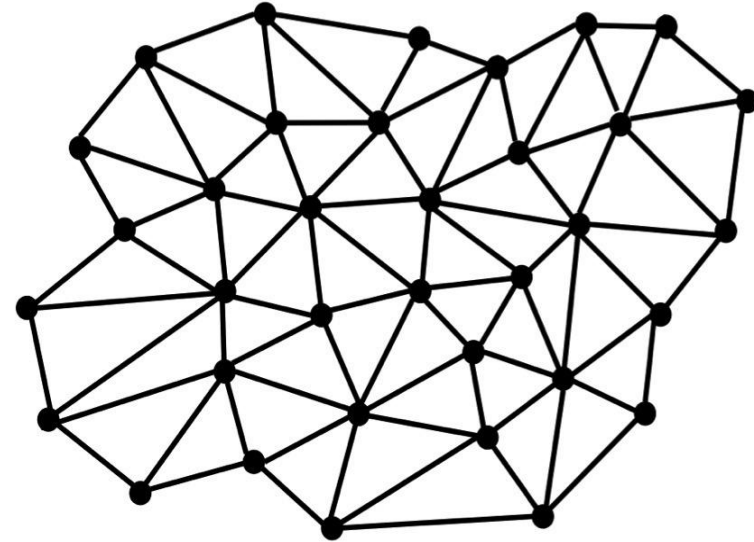


# (Lesson 3) Design to distribute



**Divisive**

capturing opportunity and value  
in the hands of a few



**Distributive**

sharing opportunity and value  
with all who co-create it



 **Divisive**



**Poverty wages**

**Inclusive**



**Living wage**

 **Distributive**



**Living wage and profit share**



**Aggressively enforced patents**



**Technology partnerships**



**Open source design**

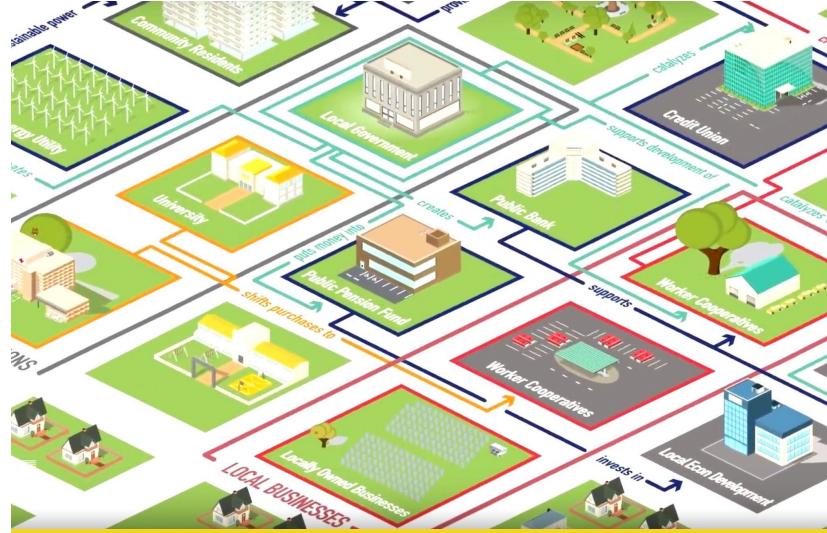




# Towards distributive design



**Cycling network – Xiamen**



**Community Wealth Building – Preston**



**Affordable housing – Vienna**



**Solar micro-grids - Kenya**



**Community Land Trust housing - London**



**Half houses - Chile**



# From Theory to Practice

The screenshot shows the homepage of the Doughnut Economics Action Lab. The background is a vibrant yellow. In the top left corner is the logo for Doughnut Economics Action Lab, which consists of a stylized doughnut icon and the text 'DOUGHNUT ECONOMICS ACTION LAB'. In the top right corner, there is a circular profile picture of a woman and a hamburger menu icon. The main heading is 'Doughnut Economics Action Lab' in a large, bold, black font. Below this is a sub-heading: 'Turning Doughnut Economics from a radical idea into transformative action'. Three black buttons with white text are arranged horizontally: 'Doughnut Economics', 'Discover the Community', and 'About DEAL'. Below these buttons are four white cards, each featuring a different article. The first card is titled 'Doughnut Economics enters the textbooks' and includes a small image of a textbook cover. The second card is titled 'Responding to the Climate Emergency' and features a circular diagram. The third card is titled 'Women's Equality Party adopts Doughnut Economics' and shows a collage of people. The fourth card is titled 'David Attenborough Doughnut' and includes a small photo of David Attenborough. Each card has a 'Read more' link with a right-pointing arrow icon.

**DOUGHNUT ECONOMICS ACTION LAB**

## Doughnut Economics Action Lab

Turning Doughnut Economics from a radical idea into transformative action

[Doughnut Economics](#) [Discover the Community](#) [About DEAL](#)

**Doughnut Economics enters the textbooks**  
The syllabus for the International Baccalaureate now includes an introduction to Doughnut Economics  
[Read more](#)

**Responding to the Climate Emergency**  
Learn how Cornwall Council and others are using doughnut economics to improve decision making  
[Read more](#)

**Women's Equality Party adopts Doughnut Economics**  
The UK's Women's Equality Party is the first political party to make Doughnut Economics their official policy  
[Read more](#)

**David Attenborough Doughnut**  
Attenborough's new Doughnut as the co...  
[Read more](#)

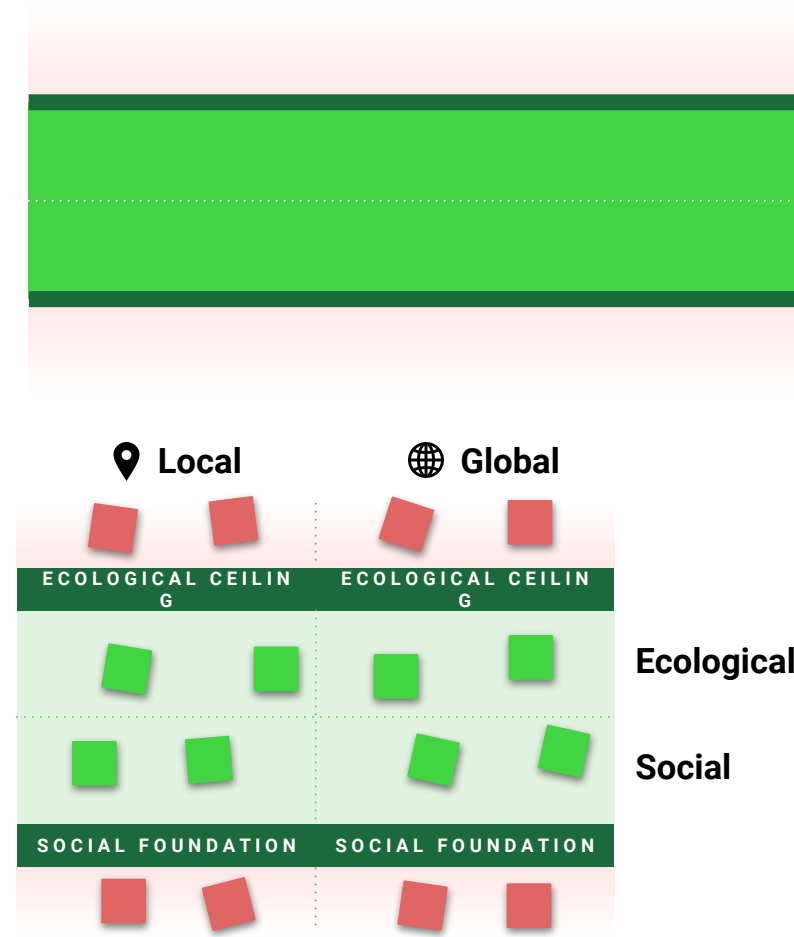
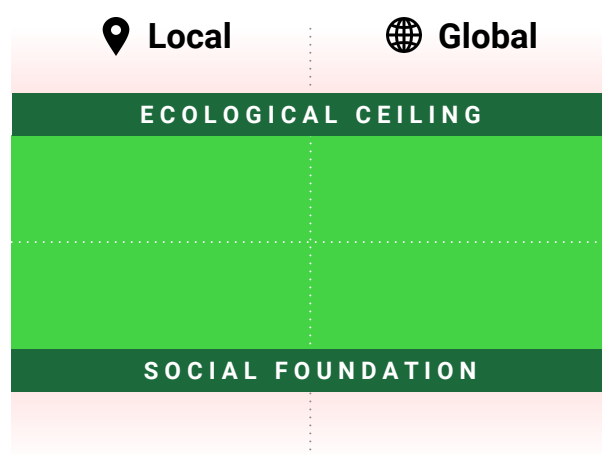
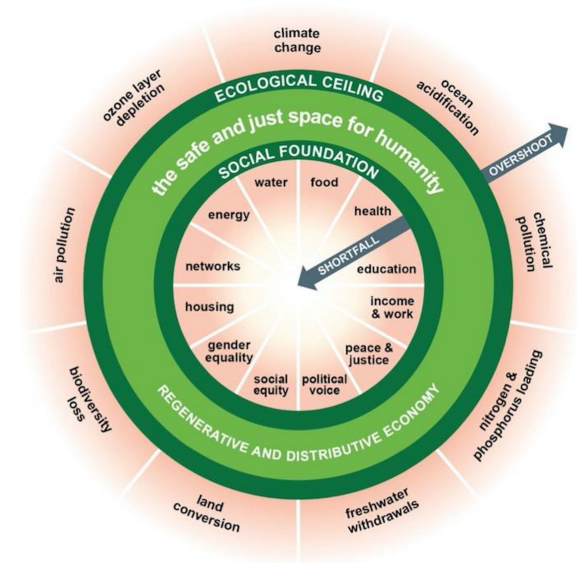
<https://doughnuteconomics.org/>



# Downscaling the doughnut

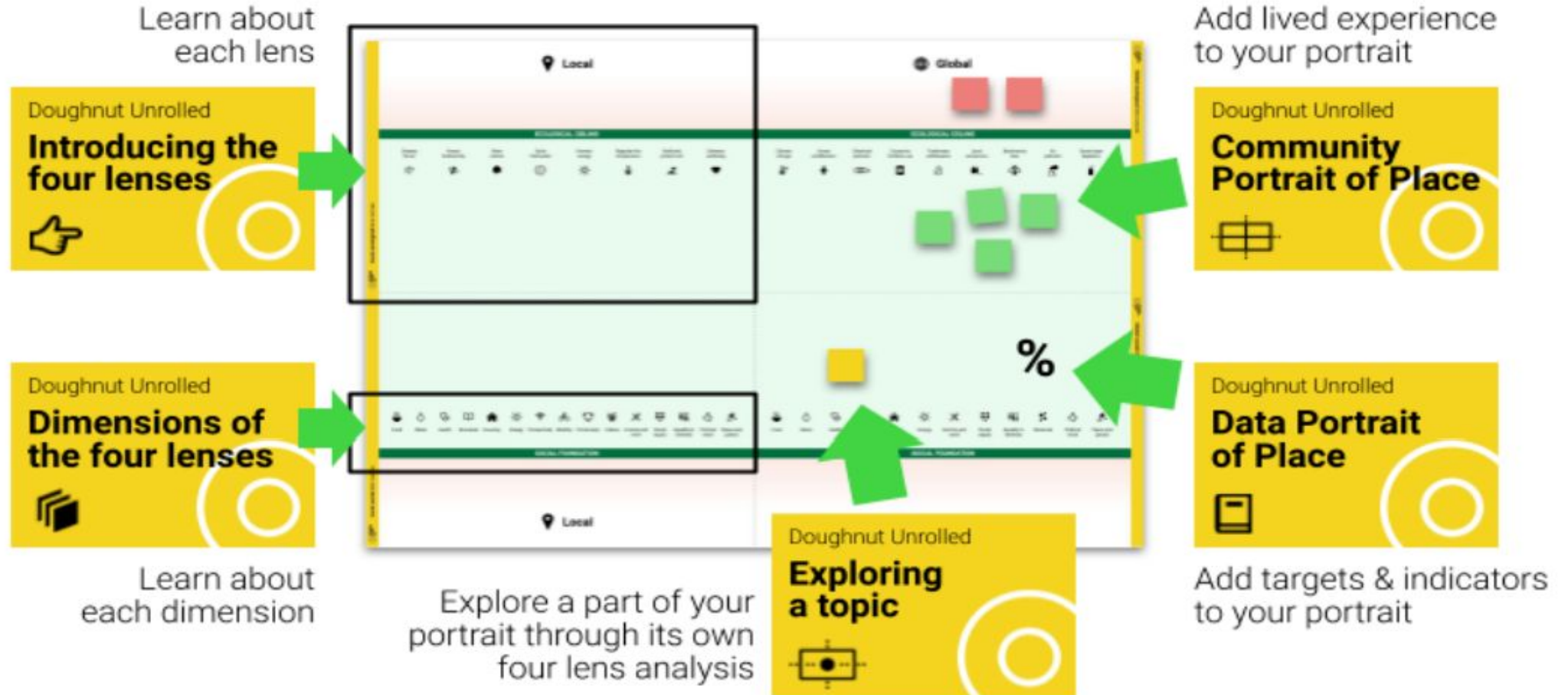
## How can communities help bring humanity into the Doughnut?

Unrolling the doughnut allows communities to explore possible futures they want, and assess the impact of policies through four lenses



# How the tools work together

See the  
"Doughnut Unrolled"  
set of tools [HERE](#)



Derived from DEAL  
doughnuteconomics.org

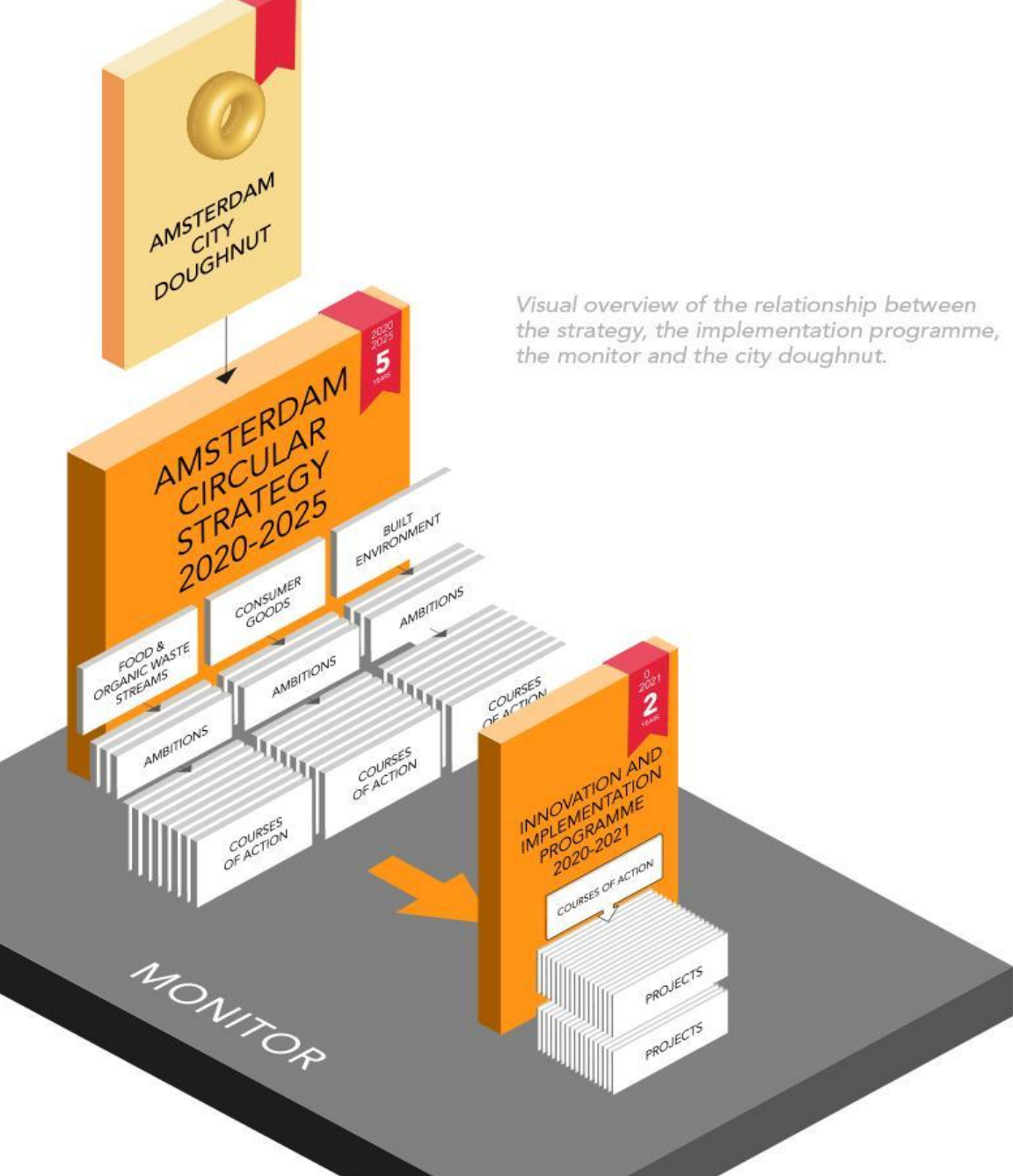




## Doughnut Workshops in Portland, Philadelphia and Amsterdam 2019





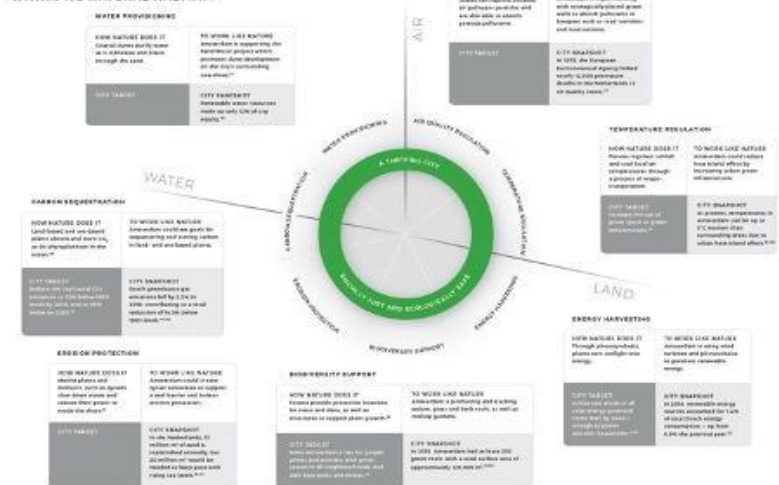


Visual overview of the relationship between the strategy, the implementation programme, the monitor and the city doughnut.



*Click the image to learn more!*

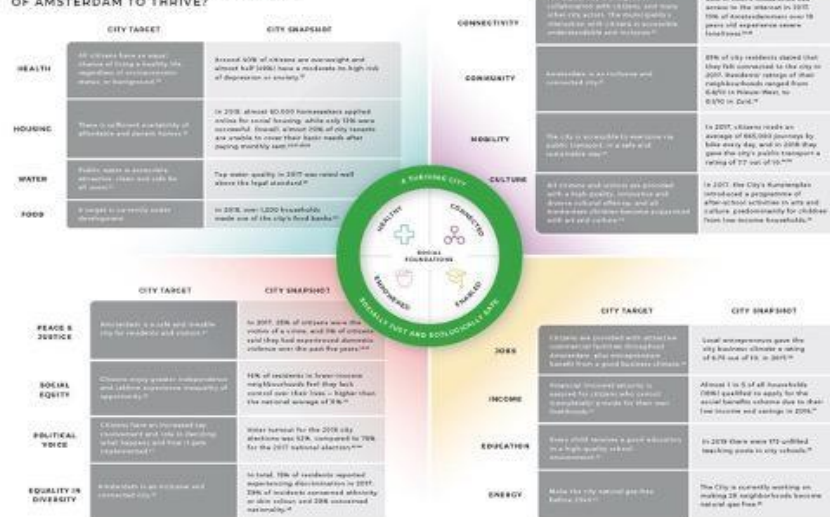
### WHAT WOULD IT MEAN FOR AMSTERDAM TO THRIVE WITHIN ITS NATURAL HABITAT?



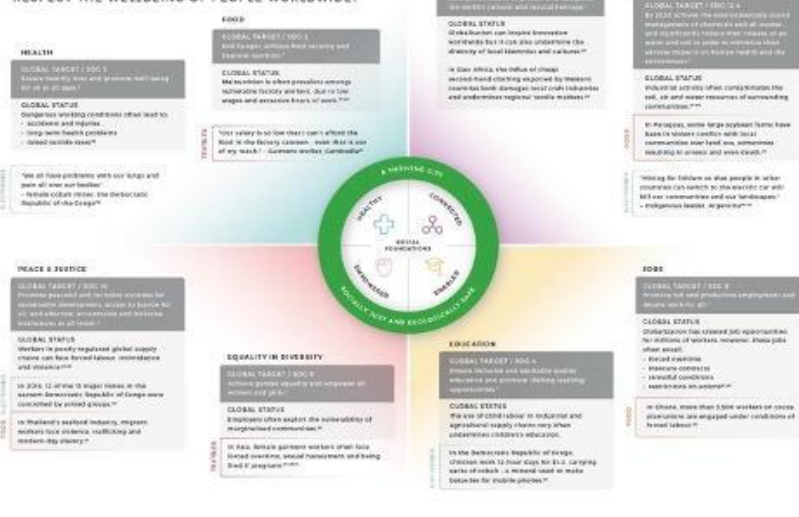
### WHAT WOULD IT MEAN FOR AMSTERDAM TO RESPECT THE HEALTH OF THE WHOLE PLANET?



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



### WHAT WOULD IT MEAN FOR AMSTERDAM TO RESPECT THE WELLBEING OF PEOPLE WORLDWIDE?





**WHAT WOULD IT MEAN FOR AMSTERDAM TO THRIVE WITHIN ITS NATURAL HABITAT?**

**WATER RESOURCES**

**HOW NATURE DOES IT:** Coastal areas that receive an abundance of rain through the sea.

**HOW NATURE DOES IT:** Amsterdam is supporting the international project which promotes blue infrastructure as the long-term solution to drought.

**CITY TARGET:** Sustainable water resources made up only 10% of city needs.

**WATER**

**WATER RESOURCES**

**HOW NATURE DOES IT:** Landfills and untreated urban effluent and rain can be an environmental disaster.

**HOW NATURE DOES IT:** Amsterdam is supporting the international project which promotes blue infrastructure as the long-term solution to drought.

**CITY TARGET:** Sustainable water resources made up only 10% of city needs.

**ENVIRONMENT PROTECTION**

**HOW NATURE DOES IT:** Healthy plants and animals, such as forests, clean clean water and ensure their genetic make the planet.

**HOW NATURE DOES IT:** Amsterdam could be one of the most nature-rich cities in the world, with a high level of biodiversity.

**CITY TARGET:** To be the most nature-rich city in the world, with a high level of biodiversity.

**BIODIVERSITY LOSS**

**HOW NATURE DOES IT:** Biodiversity is essential for a healthy planet and for the well-being of people.

**HOW NATURE DOES IT:** Amsterdam is supporting the international project which promotes blue infrastructure as the long-term solution to drought.

**CITY TARGET:** Sustainable water resources made up only 10% of city needs.

**WHAT WOULD IT MEAN FOR AMSTERDAM TO RESPECT THE HEALTH OF THE WHOLE PLANET?**

**CLIMATE CHANGE**

**CITY TARGET:** To be the first city to be 100% powered by renewable energy by 2025, and to be carbon neutral by 2030.

**IN 2017:** Amsterdam is reducing CO<sub>2</sub> emissions and 37% above 1990 levels. To the extent, 62% of the city's total CO<sub>2</sub> emissions are generated beyond city boundaries, embedded in the building materials, food and consumer products that the city imports.

**AIR POLLUTION**

**THE STATE OF AIR POLLUTION:** Cities are associated with pollution and emissions that are reported to other countries, including the Netherlands.

**OZONE LAYER DEPLETION**

**Since 1988:** global use of ozone-depleting substances has declined by over 90%.

**WASTE GENERATION**

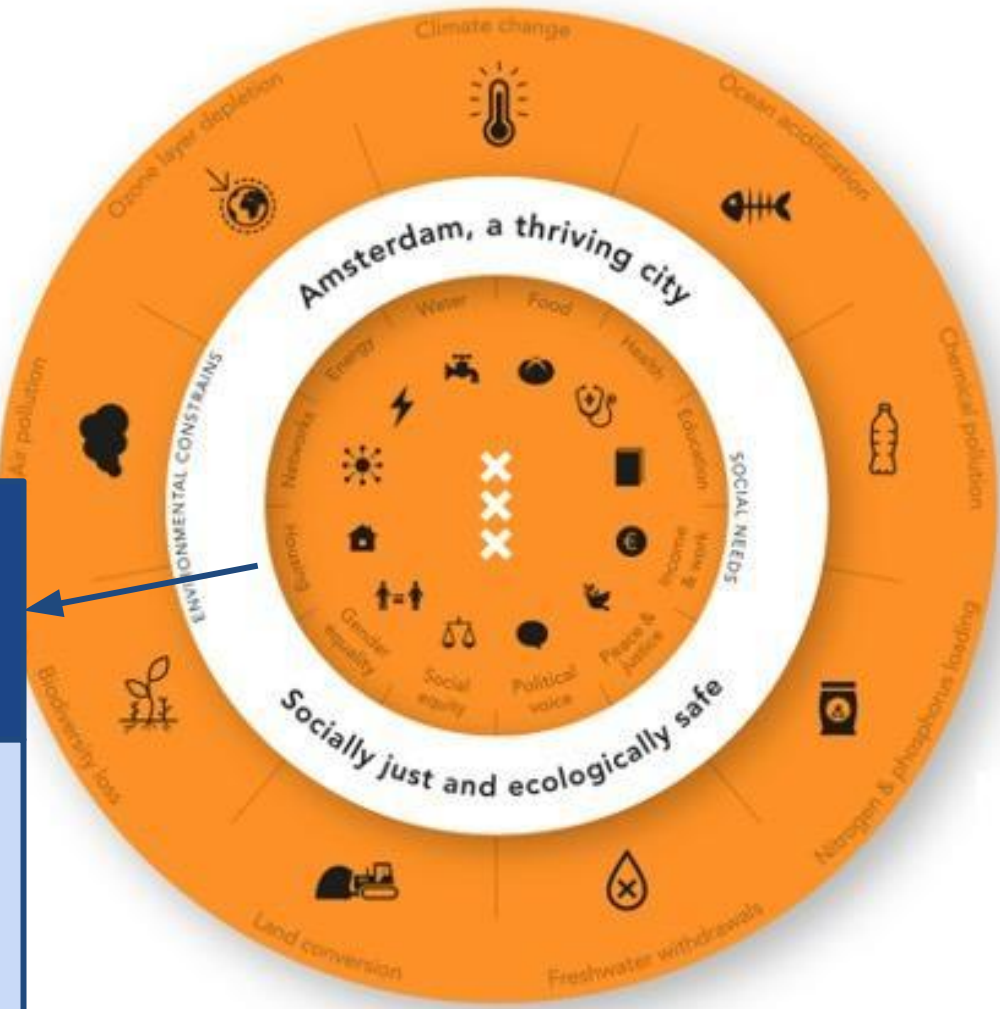
**Amsterdam:** Amsterdam aims to have a 50% reduction in the use of primary raw materials by 2025, and to be a zero-waste city by 2030.

**IN 2018:** The Amsterdam for Amsterdam Act has prevented 3.5 million of residential and commercial waste from 1.5 million households. Amsterdam is one of a half-dozen European cities.

**CESSIVE LAND USE**

**Amsterdam:** Amsterdam aims to have a 50% reduction in the use of primary raw materials by 2025, and to be a zero-waste city by 2030.

**IN 2018:** The Amsterdam for Amsterdam Act has prevented 3.5 million of residential and commercial waste from 1.5 million households. Amsterdam is one of a half-dozen European cities.



**Housing**

**Goal:** Sufficient supply of quality affordable housing

**Reality (2018):**

- only 12% of requests for public housing approved
- 20% of residents struggle to afford basic necessities

The city is currently working on making 28 neighborhoods become natural gas free.

**CULTURE**

**GLOBAL TARGET / SDG 11:** Amsterdam aims to be the most livable and sustainable city in the world by 2030.

**GLOBAL STATUS:** Amsterdam is a world leader in sustainable urban development.

**IN 2018:** Amsterdam has been named the most livable city in the world for the 10th year.

**COMMUNITY**

**GLOBAL TARGET / SDG 11:** Amsterdam aims to be the most livable and sustainable city in the world by 2030.

**GLOBAL STATUS:** Amsterdam is a world leader in sustainable urban development.

**IN 2018:** Amsterdam has been named the most livable city in the world for the 10th year.

**EDUCATION**

**GLOBAL TARGET / SDG 4:** Amsterdam aims to be the most educated city in the world by 2030.

**GLOBAL STATUS:** Amsterdam is a world leader in education.

**IN 2018:** Amsterdam has the highest percentage of university graduates in Europe.

**JOBS**

**GLOBAL TARGET / SDG 8:** Amsterdam aims to be the most job-rich city in the world by 2030.

**GLOBAL STATUS:** Amsterdam is a world leader in job creation.

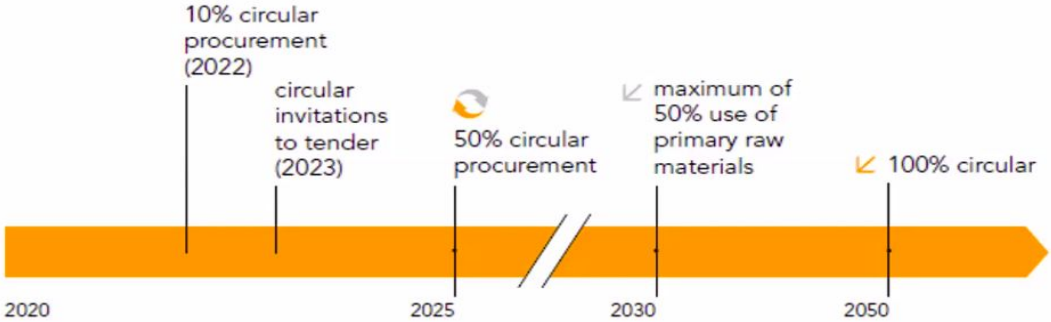
**IN 2018:** Amsterdam has the highest number of jobs per capita in Europe.



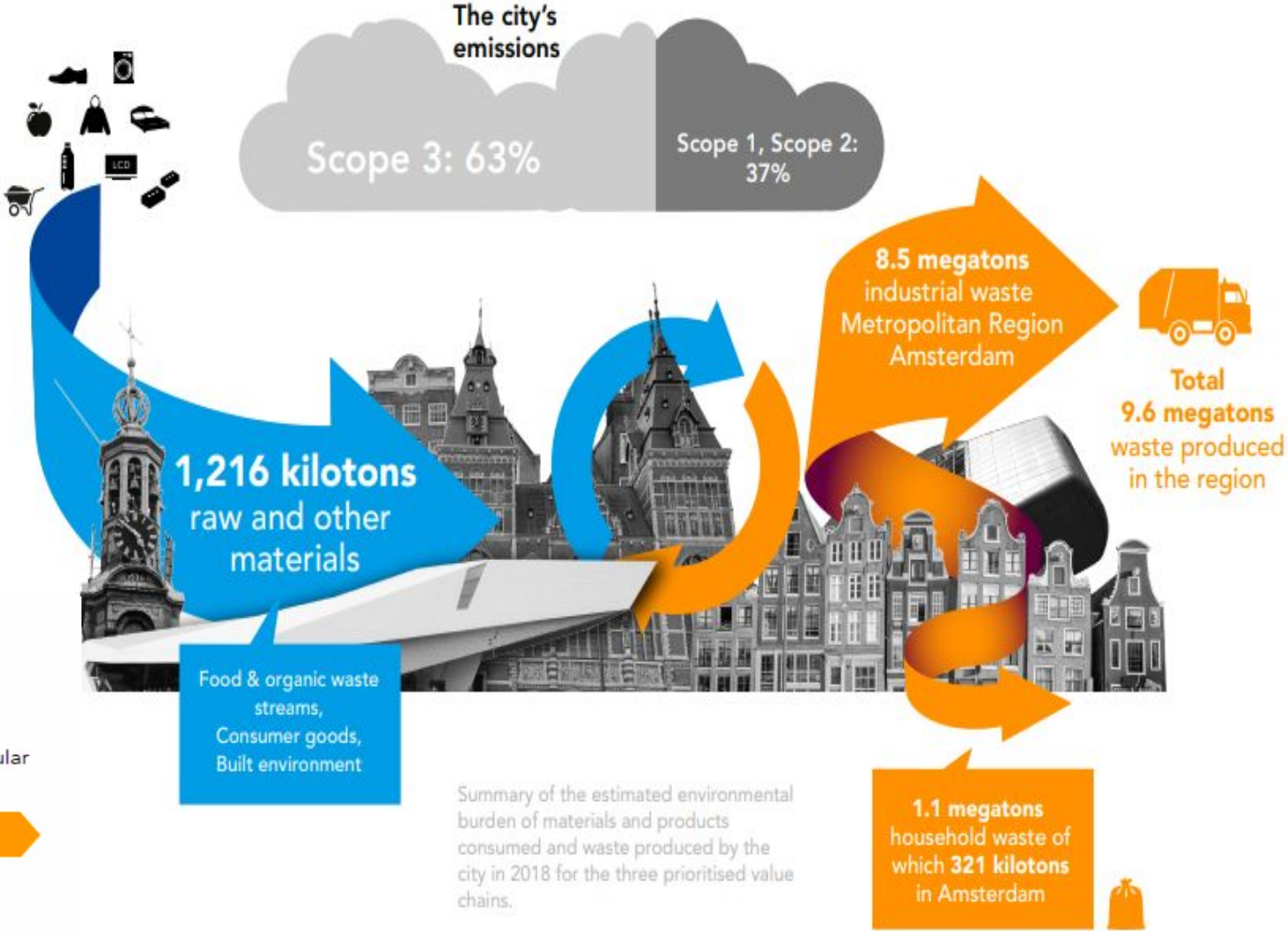
# Amsterdam City portrait and circular strategy

## As of 2022:

- All construction material require a 'passport'
- No new fast food restaurants
- Electric transportation incentives



Important medium and long-term circular milestones for Amsterdam.

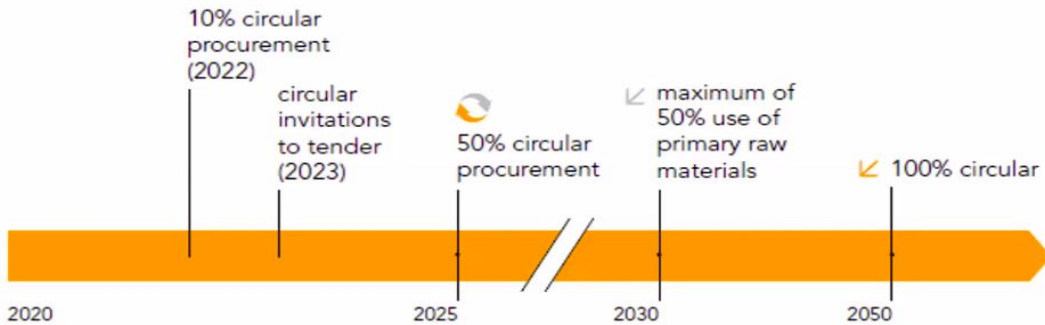
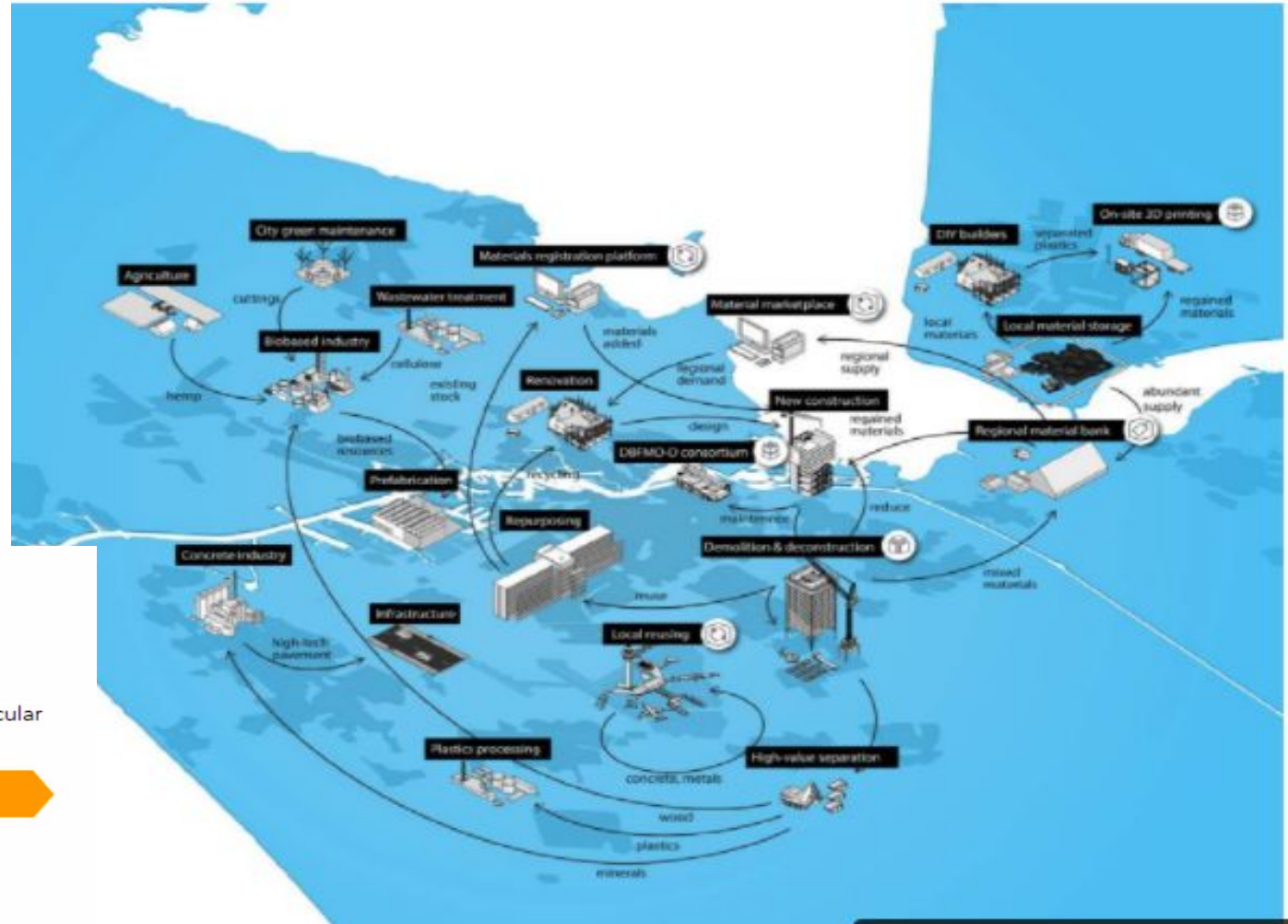


# Amsterdam City portrait and circular strategy

As of 2022:

- All construction material require a 'passport'
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## VISION OF A CIRCULAR CONSTRUCTION CHAIN



Important medium and long-term circular milestones for Amsterdam.

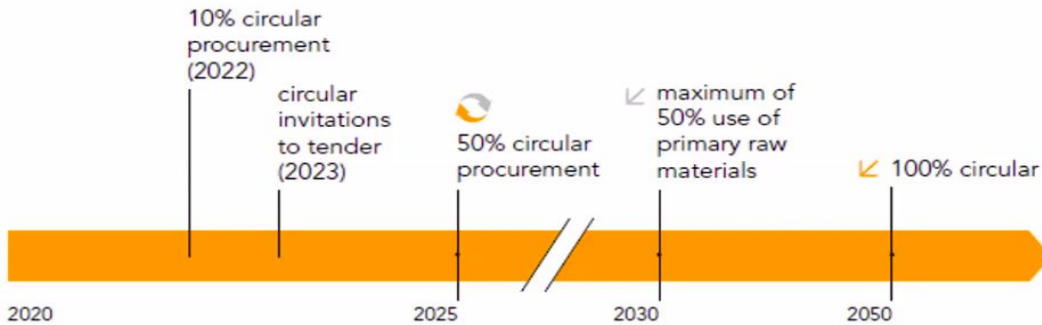


# Amsterdam City portrait and circular strategy

As of 2022:

- All construction material require a 'passport'
- No new fast food restaurants
- Electric transportation incentives

## VISION OF ORGANIC RESIDUAL STREAMS



Important medium and long-term circular milestones for Amsterdam.



# Amsterdam Doughnut Coalition



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## Network of change agents

The donut economy is an important source of inspiration for more and more people, organizations and cities that are working towards a society with a fair, social basis for everyone, within safe ecological limits.

The mission of the Amsterdam Donut Coalition is to connect local change agents, to make joint efforts visible and thus help the region 'in the donut'.

**188**

COMMUNITY MEMBERS

**103**

PROJECTS ONLINE

**25**

ARTICLES IN THE PRESS

**90**

DONUT EVENTS IN THE REGION

**Sluit je aan bij de coalitie**

Of je nu een donut-newby bent, donut-pro, je iets wilt doen voor je buurt, je organisatie, bedrijf of voor de regio, iedereen is welkom!

DOE MEE

---

## HIGHLIGHTS

Project **ECODAM** 46w

Ecodam will become an iconic place where children learn about and build their own circular economy. †

Project **THE KASKANTINE** 2y

De Kaskantine is a neighborhood farm run by and for Amsterdammers, intended to experiment...

Project **HOUSING COOPERATIVE DE WARREN** 3y

The group uses its knowledge and experience to realize a housing cooperative for the Amsterdammers of...

<https://amsterdamdonutcoalitie.nl/>



# Powers to Act: Deep Design of Cities and Places

Workshop tool inviting local governments to reflect on the deep design of their organisation

Posted by [DEAL Team](#)  July, 27, 2022  13 likes



**Amsterdam Donut Action, September 2022**

# Doughnuts made local..



- Amsterdam, Netherlands
- Bad Naheim, Germany
- Barcelona, Spain
- Brussels, Belgium
- Cali, Colombia
- Cambridge, England
- Copenhagen, Denmark
- Cornwall, England
- Curacao
- El Monte, Chile
- Glasgow, Scotland
- Malaysia, Ipoh
- Finland, Jyvaskyla
- Leeds, England
- Manila, Philippines
- Mexico City, Mexico
- Canada, Nanaimo
- North Macedonia
- South Korean cities
- Tel Aviv Israel**
- Tumalia, Sweden
- Toronto, Canada
- Yerevan, Armenia

and many others



**21,5% DES PERSONNES SE DECLARENT EN MAUVAISE SANTE SUBJECTIVE**

**32.2% DES 15 ANS ET + ONT UN NIVEAU D'INSTRUCTION BAS**

**39% DE LA VOIRIE EST RESERVEE AUX PIÉTONS et AUX VÉLOS**

**LES 10% LES PLUS RICHES GAGNENT 9 FOIS LE REVENU DES 10% LES PLUS PAUVRES**

**32.000 PERSONNES DEPENDENT DE L'AIDE ALIMENTAIRE**

**54% DES PERSONNES EN ÂGE DE TRAVAILER-DISPOSENT D'UN EMPLOI**

**170 000 PERSONNES N'ONT AUCUNE COMPÉTENCE NUMÉRIQUE. ET 475 000 DES COMPÉTENCES FAIBLES**

**L'ÉCART DE REVENU ENTRE HOMMES ET FEMMES EST DE : ± 5130€ PAR AN**

**14,8% DE LA POPULATION S'ENGAGE COMME BÉNÉVOLE ASSOCIATIF**

**20,9% DE LA POPULATION EST EN SITUATION DE PRÉCARITÉ HYDRIQUE**

**31,4% DE LA POPULATION EST À RISQUE DE PAUVRETÉ**

**28,3% DES MÉNAGES SONT EN SITUATION DE PRÉCARITÉ ÉNERGÉTIQUE**

**17,7% DES MÉNAGES ONT UN LOGEMENT DE MAUVAISE QUALITÉ**

**89% DE LA POPULATION EST FIÈRE D'ÊTRE BRUXELLOISE**

**LOCAL SOCIAL A**

**LES 1° DE L'AIR SONT EN MOYENNE 3°C PLUS ÉLEVÉES AU CENTRE DE LA R.B.C. QU'À SES ALENTOURS RURAUX EN ÉTÉ**

**LA PRODUCTION LOCALE D'ÉNERGIE RENOUVELABLE REPRÉSENTE 1,4% DE L'ÉNERGIE CONSOMMÉE**

**PRÈS DE 90% DES RESSOURCES ÉNERGÉTIQUES DE LA RÉGION SONT IMPORTÉES**

**LA QUALITÉ ÉCOLOGIQUE DES COURS D'EAU & ÉTANGS EST DE 1,2 SUR 3**

**3% DE L'EAU CONSOMMÉE EN RBC EST CAPTÉE EN RBC**

**29% DE LA POPULATION D'AMPHIBIENS EST SUR LISTE ROUGE.**

**LA POPULATION DE MOINEAUX DOMESTIQUES A DIMINUÉ DE 95% DEPUIS 1992**

**LA RBC PRODUIT 1,5 à 2 MILLIONS DE TONNES DE DÉCHETS PAR AN**

**35% SONT DESTINÉS AUX FILIÈRES DU RECYCLAGE ET DU RÉEMPLOI**

**L'AIR DE LA RBC EST DE QUALITÉ SAINE 7 JOURS SUR 10**

**LOCAL ÉCOLOGIQUE**

**LE PORTRAIT DONUT de la RÉGION de BRUXELLES CAPITALE**

**30% DE LA SURFACE DE LA RBC DEMEURÉ NON BÂTIE**

**LES ESPACES VERTS ACCESSIBLES AU PUBLIC REPRÉSENTENT 19% DE LA SURFACE**

**ON COMPTE 78,9 ha DE POTAGERS COLLECTIFS ET FAMILIAUX**

**LOCAL SOCIAL A**

**LE CAS du CHOCOLAT**

**LA MARGE QUI RESTE AUX PRODUCTEURS REPRÉSENTE 0,06% DE LA VALEUR TOTALE GÉNÉRÉE PAR LA FILIÈRE CHOCOLAT.**

**LA MAJORITÉ DES PRODUCTEURS NE PEUT SATISFAIRE SES BESOINS D'ALIMENTATION, LOGEMENT, ÉDUCATION.**

**PLUS DE 2 MILLIONS D'ENFANTS TRAVAILLENT DANS LA FILIÈRE CACAO**

**LES TRAVAILLEURS SONT EXPOSÉS À DES PESTICIDES NÉFASTES POUR LA SANTÉ**

**AU GHANA, PLUS DE 3.500 PERSONNES SONT VICTIMES DE TRAVAIL FORCÉ DANS LES PLANTATIONS DE CACAO**

**GLOBAL SOCIAL A**

**LE CAS DE L'ÉLECTRONIQUE**

**2,6 MILLIONS DE SMARTPHONES VENDUS EN BELGIQUE EN 2019, DONT LA DURÉE MOYENNE DE VIE NE DÉPASSE PAS 3 ANS**

**54 MILLIONS DE TONNES DE DÉCHETS ÉLECTRONIQUES. 74 MILLIONS DE TONNES MÉTRIQUES D'ICI 2030**

**UN QUART DES DÉCHETS ÉLECTRONIQUES PRODUITS PAR LES PAYS INDUSTRIALISÉS FINISSENT LEUR VIE EN AFRIQUE & EN ASIE DANS DES CENTRES DE RECYCLAGE INFORMEL**

**EN 2016, 12 DES 13 PRINCIPALES MINES DE LA RÉPUBLIQUE DÉMOCRATIQUE DU CONGO ÉTAIENT CONTRÔLÉES PAR DES GROUPES ARMÉS**

**PENDANT CERTAINES PHASES DU PROGRAMME DE PRODUCTION LES TRAVAILLEURS SONT EXPOSÉS À DES FUMÉES QUI PEUVENT AVOIR DES EFFETS NÉCHES À LONG TERME SUR LEUR SANTÉ**

**GLOBAL SOCIAL A**

**GLOBAL ÉCOLOGIQUE**

**LA CONSOMMATION EN RBC ÉMET 7 FOIS SON BUDGET CARBONE**

**CONTRIBUE AINSI AU CHANGEMENT CLIMATIQUE**

**ET PARTICIPE À L'ACIDIFICATION DES Océans**

**LES PRODUITS CONSOMMÉS EN RBC ENTRAÎNENT UNE CONSOMMATION 4 FOIS TROP IMPORTANTE DE SURFACES DE TERRES**

**LES DENRÉES CONSOMMÉES EN RBC ENTRAÎNENT UNE CONSOMMATION, 5 FOIS TROP IMPORTANTE D'AZOTE & 8 FOIS TROP IMPORTANTE DE PHOSPHORE**

**LA RBC CONSOMME 30% DE SA PART D'EAU MONDIALE**

**DES SUBSTANCES APPAUVRISSENT LA COUCHE D'OZONE ONT ÉTÉ BANNIES & NE SONT NORMALEMENT PLUS UTILISÉES**

**GLOBAL SOCIAL A**

Ceci est une version simplifiée du portrait Donut de la RBC, qui ne se veut ni exhaustif ni définitif, mais est à faire vivre et développer avec les acteurs.rice.s de la Région.

Cette visualisation est basée sur les indicateurs existants jugés les plus pertinents par les acteurs.rice.s impliqu.e.s dans le travail de co-construction du portrait.

Les participant.e.s ont émis des propositions pour que d'autres indicateurs soient développés et pris en compte.

De nombreuses initiatives plus en phase avec le Donut existent mais le portrait se base sur les pratiques et les produits plus largement répandus actuellement.

Les détails de la démarche, les données utilisées, celles encore insuffisantes, et l'ensemble des propositions de nouveaux indicateurs sont sur « <https://donut.brussels/> »

SYNTHÈSE VISUELLE JURTHEM DE KANX © BF-MC-SA

## Decision making wheel

Case study: The Saints Trail





# Yerevan City Selfie



# ¿CÓMO EL MONTE AFECTA LA SALUD DE TODO EL PLANETA?

## USO EXCESIVO DE FERTILIZANTES

### RADIOGRAFÍA DE LA CIUDAD

#### Datos del contexto:

Según University of Leeds\*, en Chile y el mundo, los límites del nitrógeno en el agua (derivado principalmente del uso de fertilizantes en actividades agrícolas) se ven sobrepasados. En el periodo 2014/2015 el consumo de fertilizantes a nivel mundial fue de 181,9 millones de toneladas (t), correspondiente a 102,5 millones de t de nitrógeno; 45,9 millones de t de fósforo y 33,5 millones de t de potasio. En Chile el consumo para mismo periodo fue de 169.000 (t) de nitrógeno, 130.000 (t) de fósforo y 99.000 (t) de potasio.

\*En A Good Life For All Within Planetary Boundaries.

### ASPIRACIONES DE LA CIUDAD

#### De la comunidad:

Promover la actividad agrícola sustentable.

#### Del municipio:

Incentivar el uso de productos y fertilizantes naturales en agricultura a través de los programas del SAG e INDAP (PRODESAL).

## USO EXCESIVO DEL SUELO

### RADIOGRAFÍA DE LA CIUDAD

#### Datos del contexto:

-Del total de 75,6 millones de hectáreas que conforman Chile continental, 31,6 millones de hectáreas potenciales están bajo uso agrícola, pecuario y forestal, incluyendo la superficie de bosque nativo. Una de las presiones para generar un cambio de uso de suelo es la expansión territorial. Según el Instituto Nacional de Estadísticas se estima que desde el año 2017 al 2020 la comuna tendrá un crecimiento poblacional de un 11,39%.

### ASPIRACIONES DE LA CIUDAD

#### De la comunidad:

- Incluir en plan regulador capacidad de carga del suelo.
- Fiscalización de inmobiliarias e incorporación de límites en el plan regulador.
- Levantar estudios del patrimonio natural local y promover su protección.
- Recuperar, conservar y restaurar el medio natural ecológico.

#### Del municipio:

Generar laboratorios naturales de regeneración.

## CAMBIO CLIMÁTICO

### RADIOGRAFÍA DE LA CIUDAD

#### Datos del contexto:

En Chile, actualmente se lleva a cabo el Proyecto de Ley Marco de Cambio Climático, el cual busca entre otras materias, una meta de carbono neutralidad para el año 2050.

### ASPIRACIONES DE LA CIUDAD

#### De la comunidad:

Aumentar la educación y conciencia ambiental en la comuna.

#### Del municipio:



## CONTAMINACIÓN DEL AIRE

### RADIOGRAFÍA DE LA CIUDAD

#### Datos del contexto:

La contaminación atmosférica es una problemática a nivel país. 13 de 16 Regiones en Chile, incluyendo la Región Metropolitana cuentan con Planes de Prevención y/o Descontaminación Atmosférica (PPDA), Planes de Prevención Atmosférica (PPA) o Plan de Descontaminación Atmosférica (PDA).

### ASPIRACIONES DE LA CIUDAD

De la comunidad: Gestionar servicios de transporte público intercomunales eficaces.

#### Del municipio:

- Concretar el servicio de flota de vehículos eléctricos para uso municipal.
- Incentivar el "Programa de recambio" (de leña a electricidad)

## GENERACIÓN DE RESIDUOS

### RADIOGRAFÍA DE LA CIUDAD

#### Datos del contexto:

La cantidad de nuevas materias primas para la fabricación de nuevos productos, así como todo el proceso de extracción, transporte, elaboración y gasto energético disminuye al reutilizar los residuos que generamos. En Chile se generan casi 17 millones de toneladas de residuos al año, pero sólo el 10% se recicla. A nivel mundial se producen más de 2.100 millones de toneladas de desechos cada año y tan sólo un 16% se recicla.

### ASPIRACIONES DE LA CIUDAD

#### De la comunidad:

-Mejorar la gestión de aguas servidas para su aprovechamiento.

#### Del municipio:

Aumentar el porcentaje de reciclaje industrial y doméstico.

## EXTRACCIONES DE AGUA DULCE

### RADIOGRAFÍA DE LA CIUDAD

#### Datos del contexto:

Chile posee la tercera reserva de agua dulce del mundo, con más de mil 200 ríos y 3 mil 500 glaciares repartidos desde Arica a la Antártica, aun así, un 76% de la superficie chilena está afectada por sequía y suelo degradado, además es el único país que consagra de manera explícita la propiedad privada sobre los derechos de aprovechamiento de aguas.

### ASPIRACIONES DE LA CIUDAD

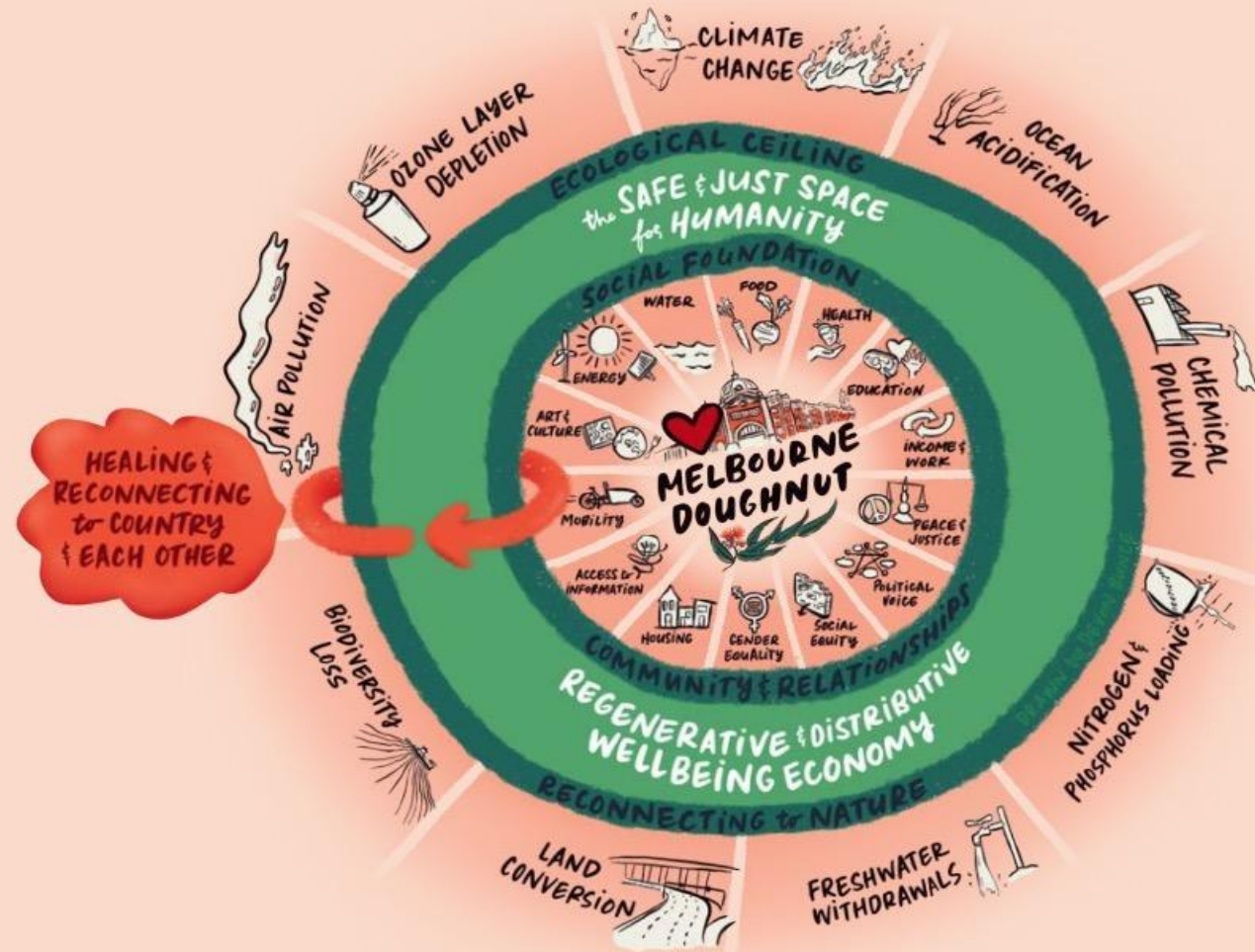
#### De la comunidad:

#### Del municipio:

# e Global-Ecológico



# a REGENERATIVE MELBOURNE is:



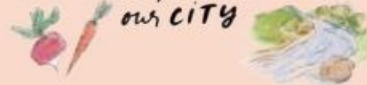
## KNOWLEDGEABLE

EVERYONE has ACCESS to KNOWLEDGE as CUSTODIANS of the ENVIRONMENT and SOCIETY



## FULL of LIFE

A NETWORK of NEIGHBOURHOODS that SUPPORT THRIVING COMMUNITIES & NATURAL SYSTEMS. WE can SWIM in our RIVERS, PLAY & LEARN in NATURE, GROW FOOD in our CITY



## COLLABORATIVE

WHERE we DO what WE LOVE for our LIVELIHOODS and WE are VALUED for our CONTRIBUTION



## CONNECTED through CULTURE

WE are PROUD of our DIVERSITY of CULTURE as DRIVERS of CONNECTION and CREATIVITY & we LIVE as MUCH a PART of the LAND as the LAND US



## AFFORDABLE

EVERYONE has SECURE, SAFE, COMFORTABLE HOUSING POWERED by CLEAN ENERGY and QUALITY LOCALLY GROWN FOOD



## ENABLED

OUR ECONOMIC & GOVERNANCE SYSTEMS ENABLE these VISIONS to COME to LIFE

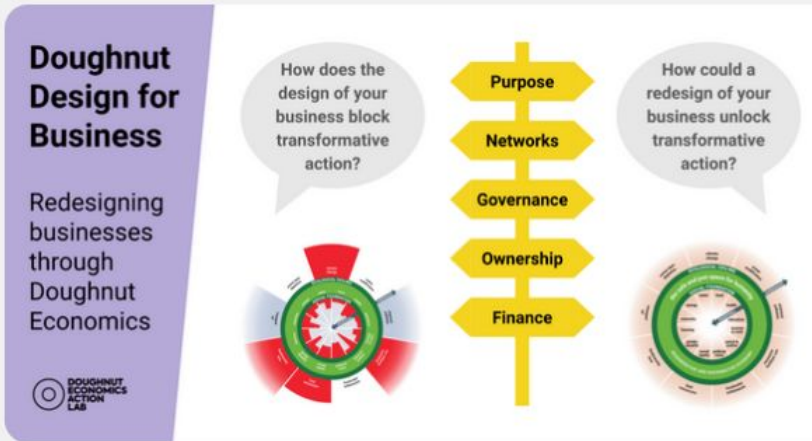


# Doughnut Design for Business

DEAL's guide to redesigning businesses through Doughnut Economics – Core workshop

**Doughnut Design for Business**

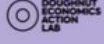
Redesigning businesses through Doughnut Economics



The graphic features a central vertical yellow arrow pointing upwards, labeled with five business components: Purpose, Networks, Governance, Ownership, and Finance. To the left is a red and green doughnut chart with a white star in the center, and to the right is a green and white doughnut chart with a white star. Two speech bubbles are positioned above the charts, each containing a question about business redesign.

How does the design of your business block transformative action?

How could a redesign of your business unlock transformative action?

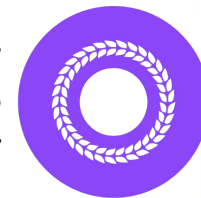
 DOUGHNUT  
ECONOMICS  
ACTION  
LAB

 Add to Toolbox

Posted by [the DEAL Team](#)  November, 02, 2022  83 likes

**Click the image to learn more, or check out the introduction video for this tool [here!](#)**





מודל כלכלת הדונאט כמצפן לשגשוג  
במאה ה-21  
מה זה אומר עבור תושבי ישראל?

# Israel 2023

## THE JERUSALEM POST

1 in 5 Israelis lived below the poverty line in 2021 - report

Israel's poverty rate ranks second-worst in the developed world.

## GLOBES

World Inequality Report: Israel among most unequal countries

## Cabinet extends secrecy for state-owned oil infrastructure firms, despite objections

Decision, if approved by Knesset, will keep public in dark about the activities of three companies originally linked to deal with Iranian shah

## THE TIMES OF ISRAEL

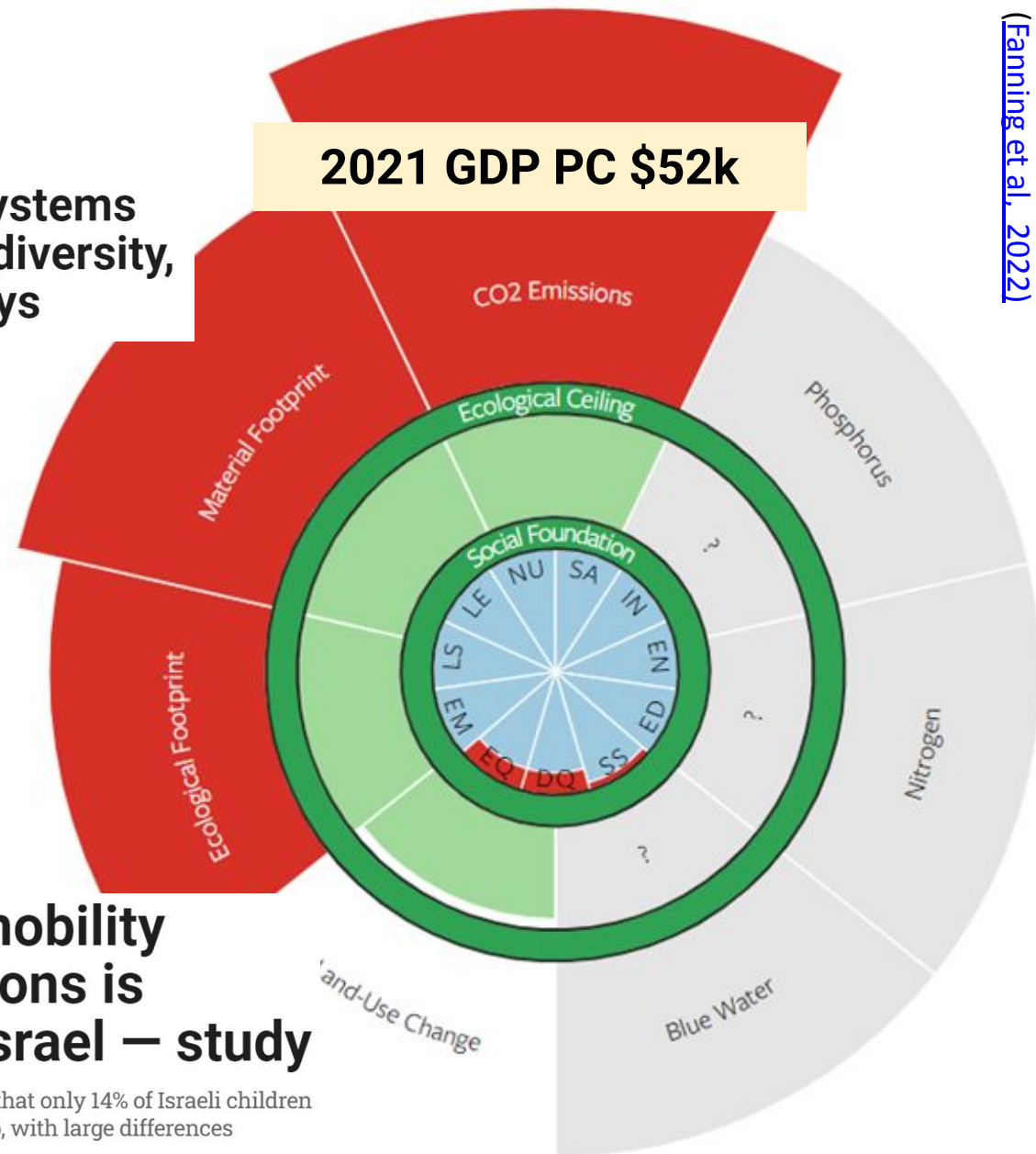
89% of Israel's ecosystems have declined in biodiversity, state comptroller says

## THE TIMES OF ISRAEL

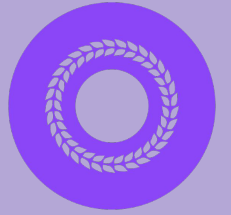
Socioeconomic mobility between generations is relatively low in Israel – study

Israel Democracy Institute research finds that only 14% of Israeli children in lowest income category climb to the top, with large differences between population groups

2021 GDP PC \$52k







Thank you kindly  
for your attention

Questions?

