



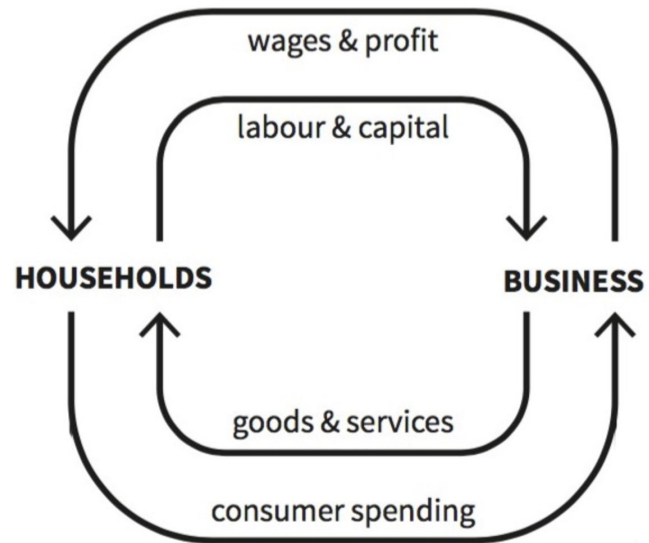
Doughnut Economics **in times of climate change** from theory to practice

Kate Raworth

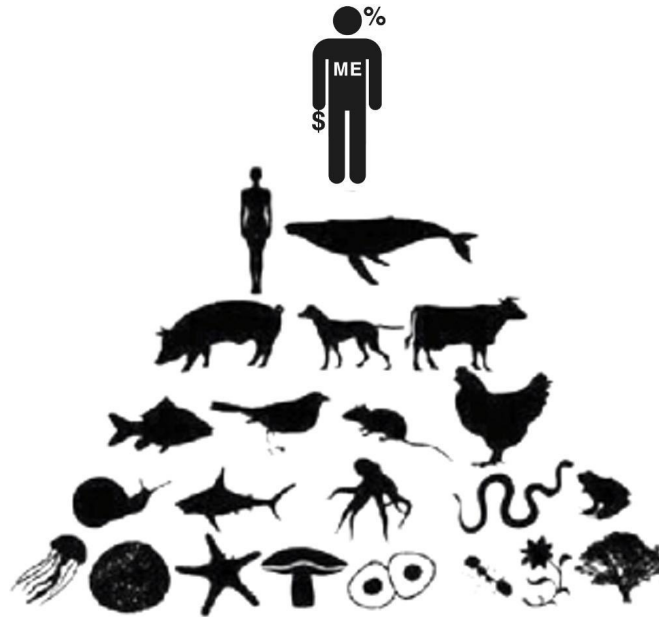
19 December 2024

20th century economics

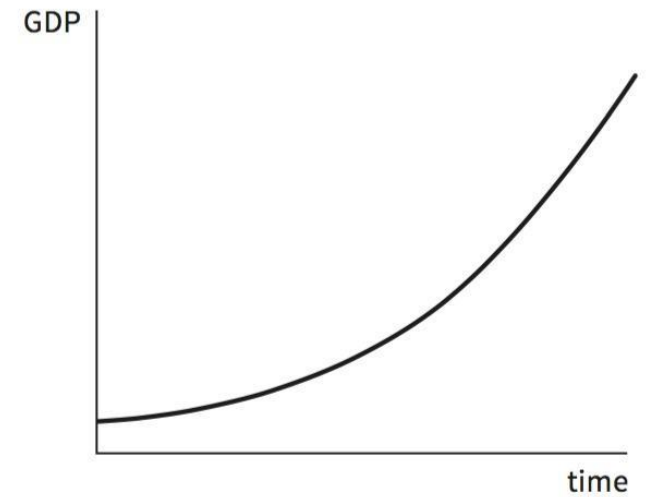
The first image



The selfie



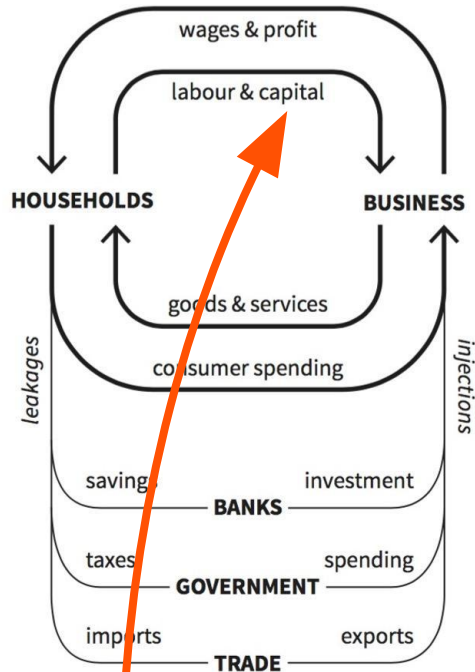
The goal



Depicting environmental issues in neoclassical economics

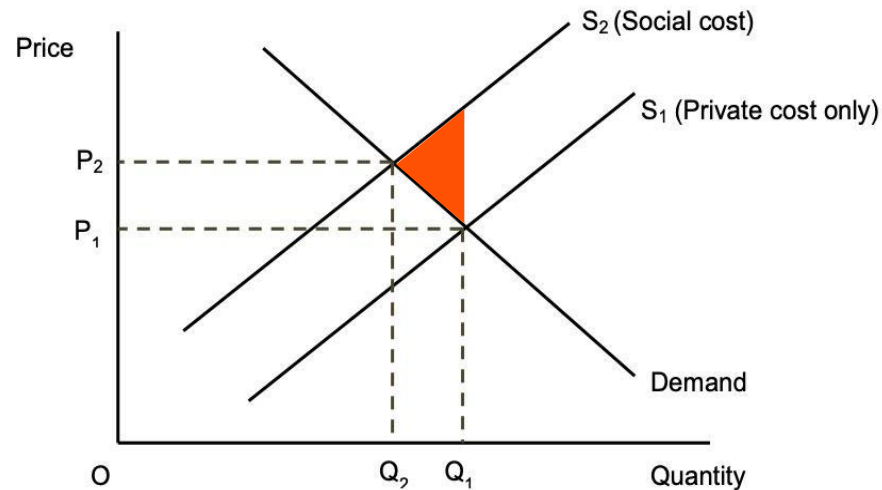


Macro



'Land' as just one among many types of capital

Micro



'Environmental externalities' (the red wedge)

Dear Humans here's a neat way to represent Earth in your economic models...

(Could this actually be an alien plot to destroy life on Earth?...)

How the 21st century began

Financial meltdown



New York, US

Climate breakdown



Sofala, Mozambique

COVID lockdown



Kuala Lumpur, Malaysia



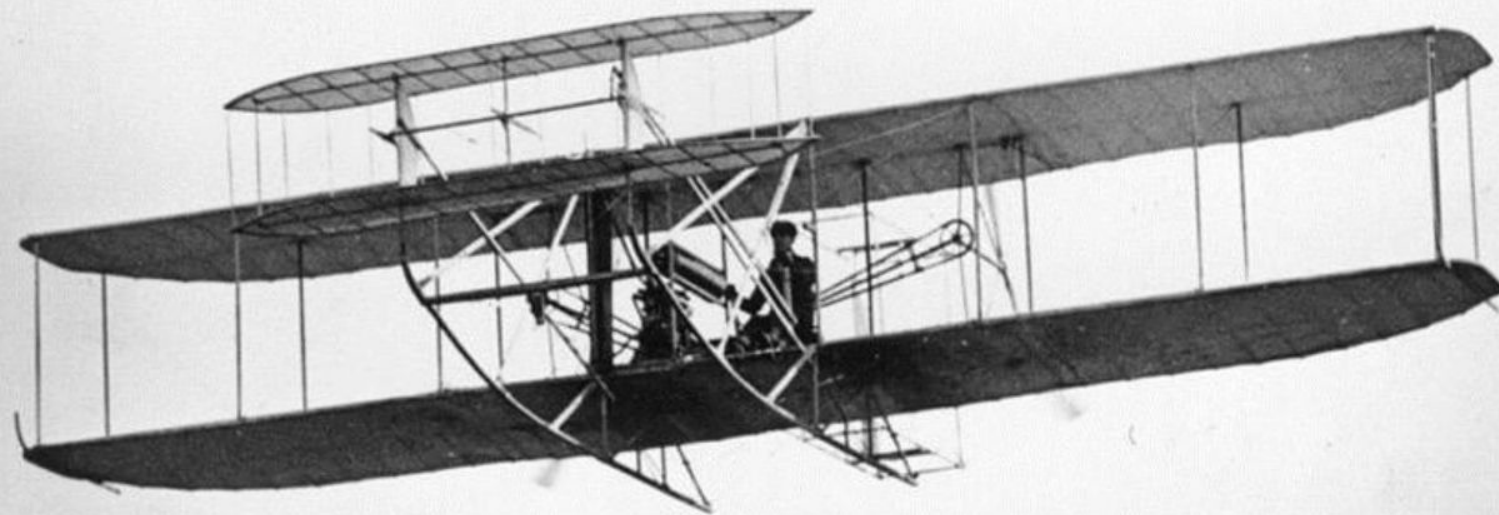
Athens, Greece



Delhi, India



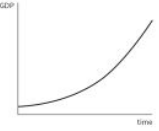





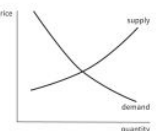
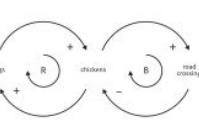
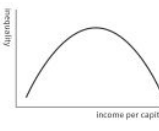
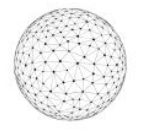


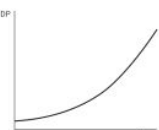

Bogotá, Colombia



**Those attempting to guide the economy and our societies
are like pilots trying to steer without a reliable compass.**

- Joseph Stiglitz & Amartya Sen 2009

Seven ways to think like a 21st century economist

Seven Ways to Think:	From 20th-Century Economics	To 21st-Century Economics
1. Change the Goal	 <p>GDP</p>	 <p>the Doughnut</p>
2. See the Big Picture	 <p>self-contained market</p>	 <p>embedded economy</p>
3. Nurture Human Nature	 <p>rational economic man</p>	 <p>social adaptable humans</p>
4. Get Savvy with Systems	 <p>mechanical equilibrium</p>	 <p>dynamic complexity</p>
5. Design to Distribute	 <p>growth will even it up again</p>	 <p>distributive by design</p>
6. Create to Regenerate	 <p>growth will clean it up again</p>	 <p>regenerative by design</p>
7. Be Agnostic about Growth	 <p>growth addicted</p>	 <p>growth agnostic</p>

THE SUNDAY TIMES BESTSELLER

DOUGHNUT ECONOMICS

Seven Ways to Think Like a 21st-Century Economist



KATE RAWORTH

'The John Maynard Keynes of the 21st century'
George Monbiot, *Guardian*

WITH A NEW AFTERWORD





‘Human development is concerned with advancing the richness of human life, rather than the richness of the economy in which human beings live’

- Professor Amartya Sen
Economist and philosopher

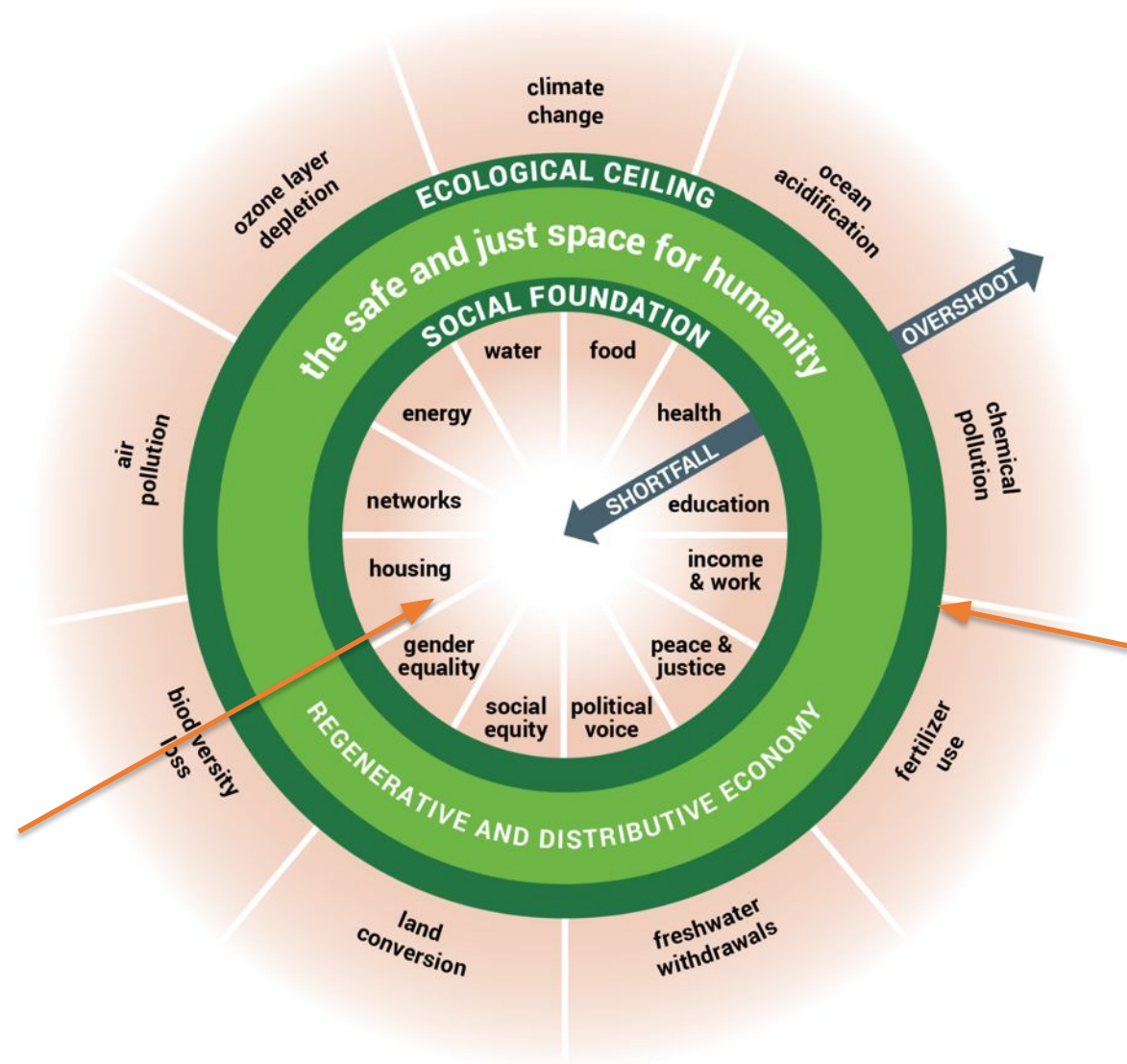


‘Humanity can affect the functioning of its own life-support systems. There are tipping points we are pushing on. How does this change our definition of progress?’

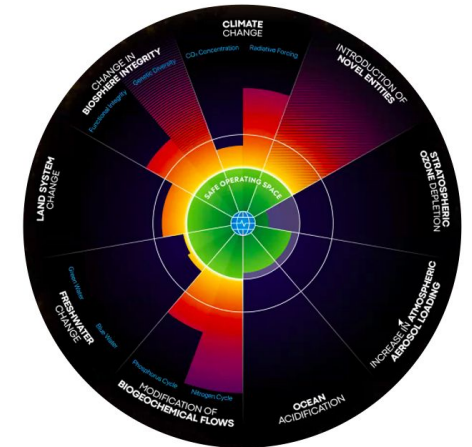
- Professor Katherine Richardson
Oceanographer and sustainability scientist

A compass for human prosperity

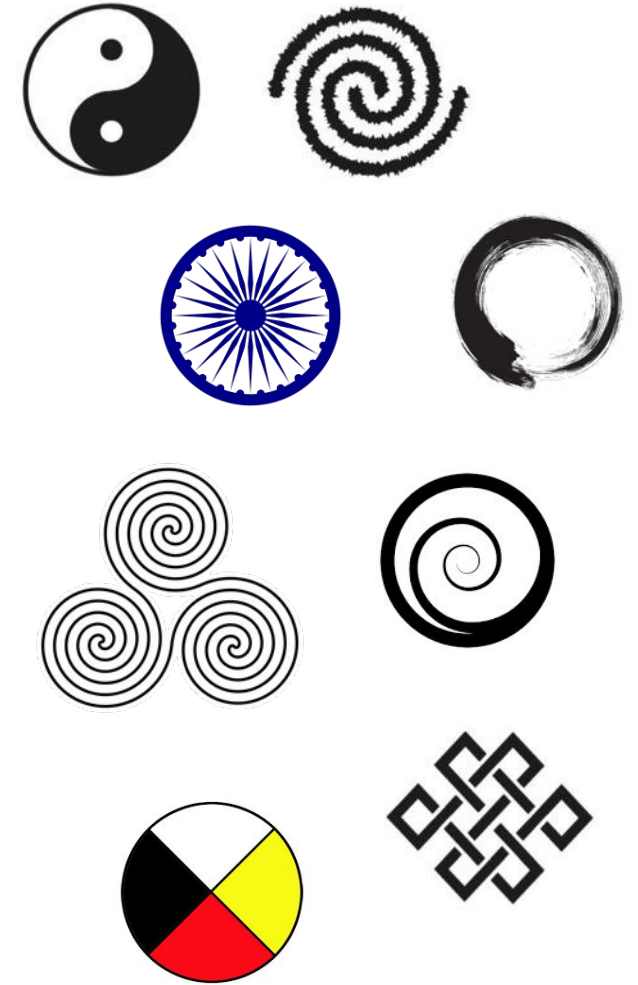
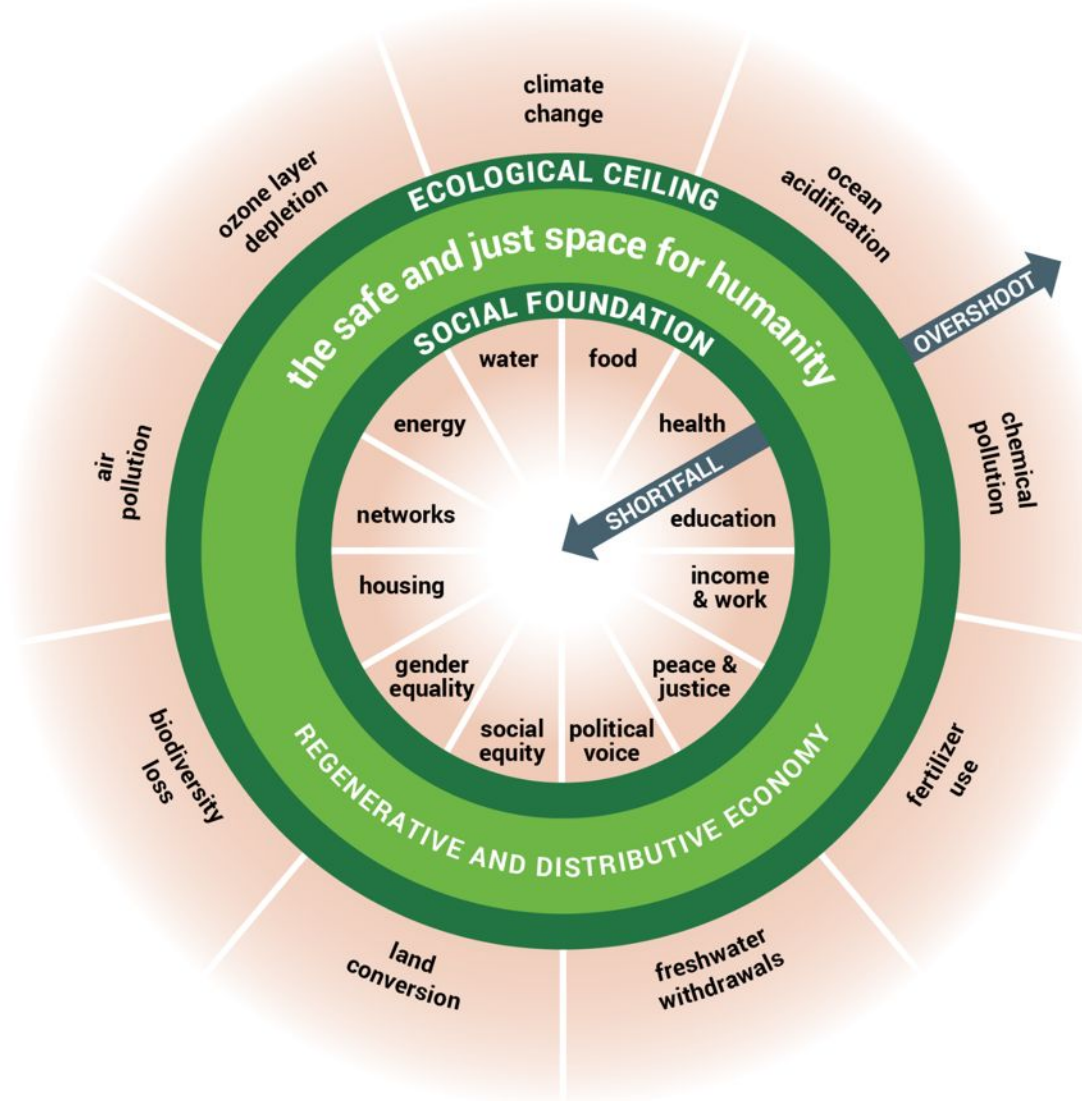
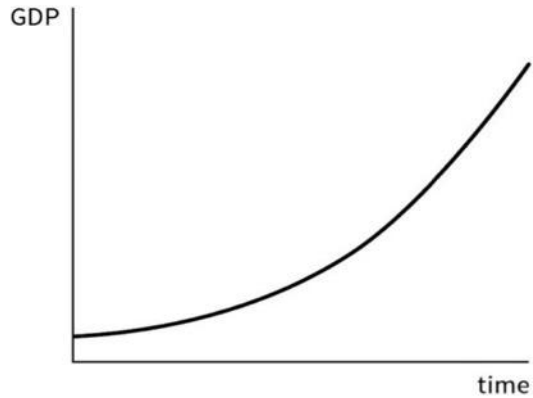
Aiming to meet the needs of all people within the means of the living planet



PLANETARY BOUNDARIES:
protecting Earth's 9 critical life-supporting systems



A compass for human prosperity



A world deeply out of balance

UN climate report: It's 'now or never' to limit global warming to 1.5 degrees

Ocean acidification to hit levels not seen in 14 million years

NASA: HOLE IN EARTH'S OZONE LAYER FINALLY CLOSING UP BECAUSE HUMANS DID SOMETHING ABOUT IT

90% of world's children are breathing toxic air, WHO study finds

Water And Energy Shortages Are Fueling A Global Food Crisis

Richest 1% own half the world's wealth

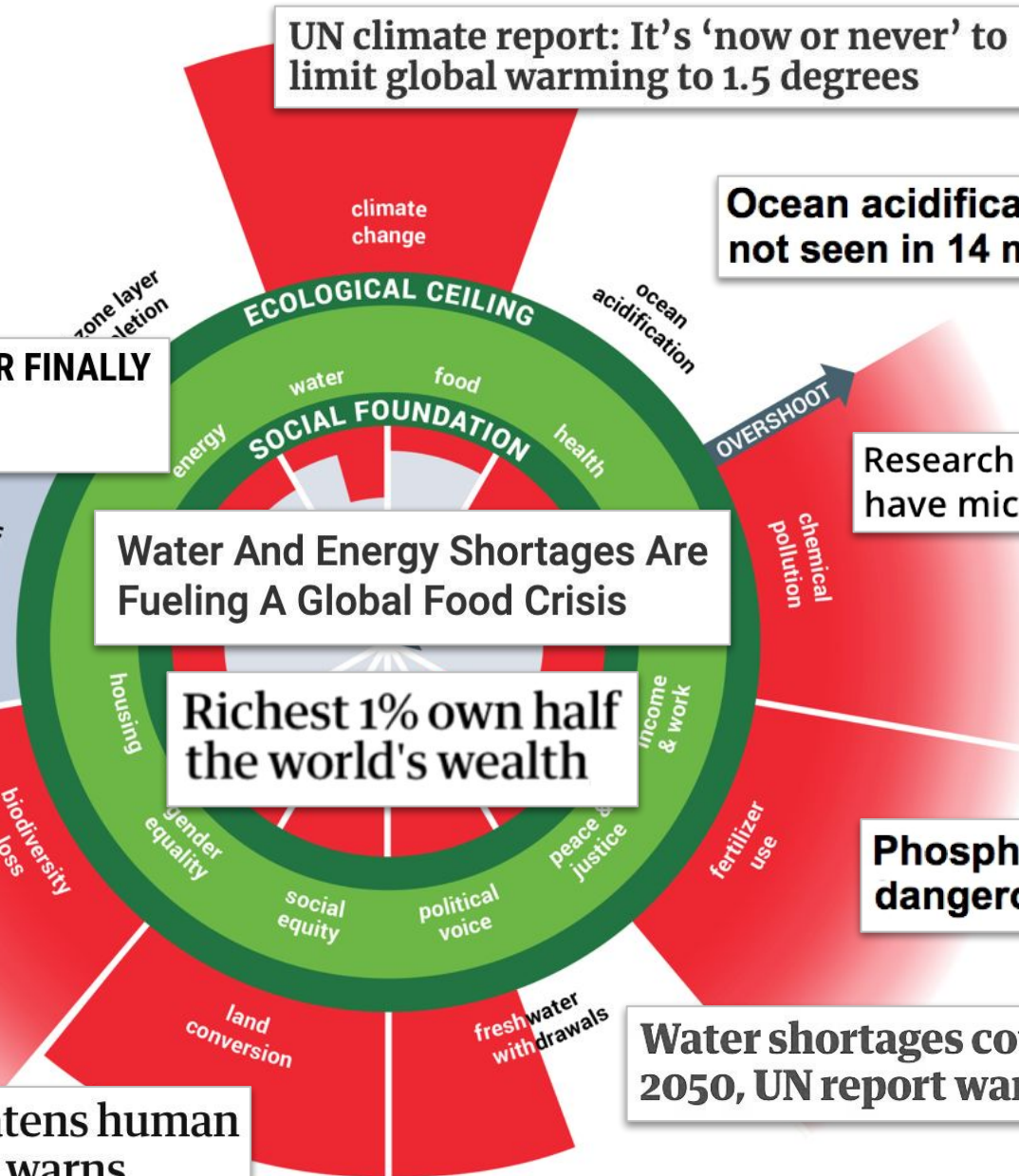
Humans have wiped out 60% of animals since 1970, says WWF

Phosphorus pollution reaching dangerous levels worldwide

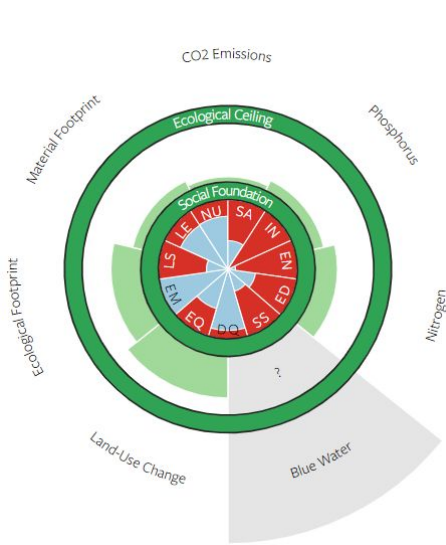
Land degradation threatens human wellbeing, major report warns

Water shortages could affect 5bn people by 2050, UN report warns

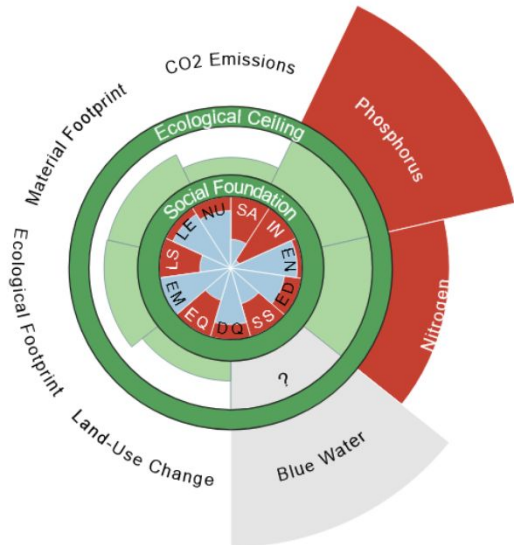
Raworth 2017 with 2022 planetary boundary updates



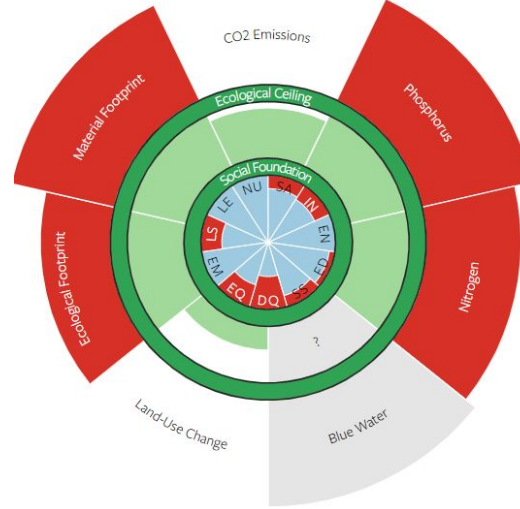
Every nation must transform



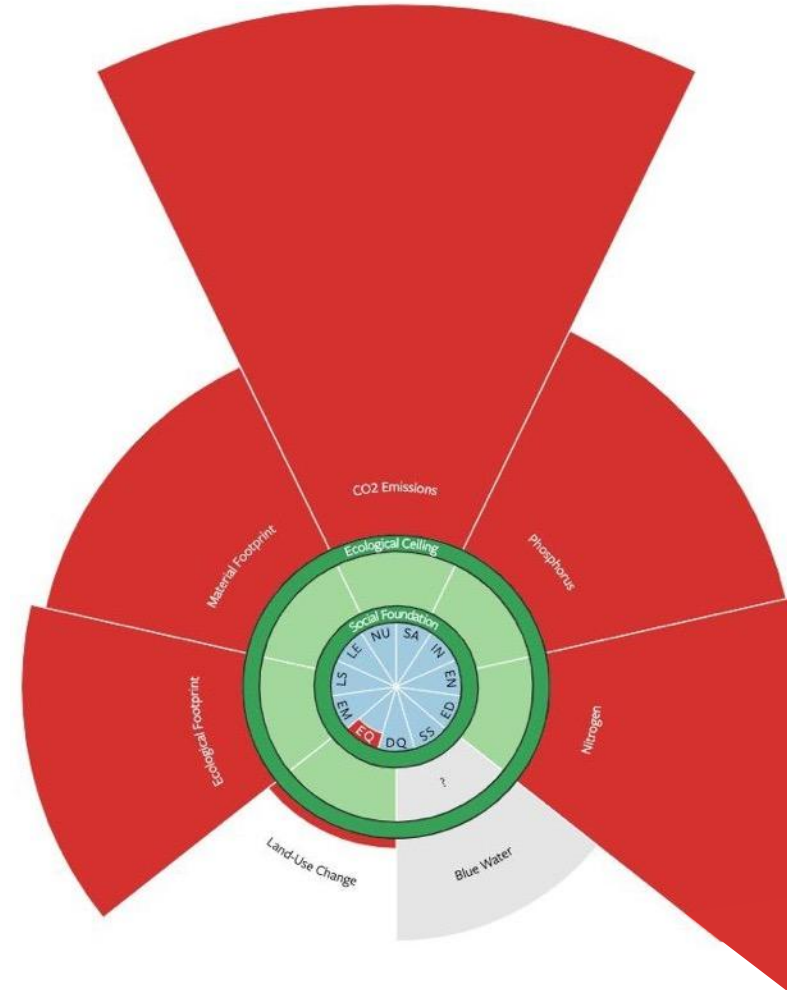
Malawi
\$1,800 pc



India
\$9,000 pc



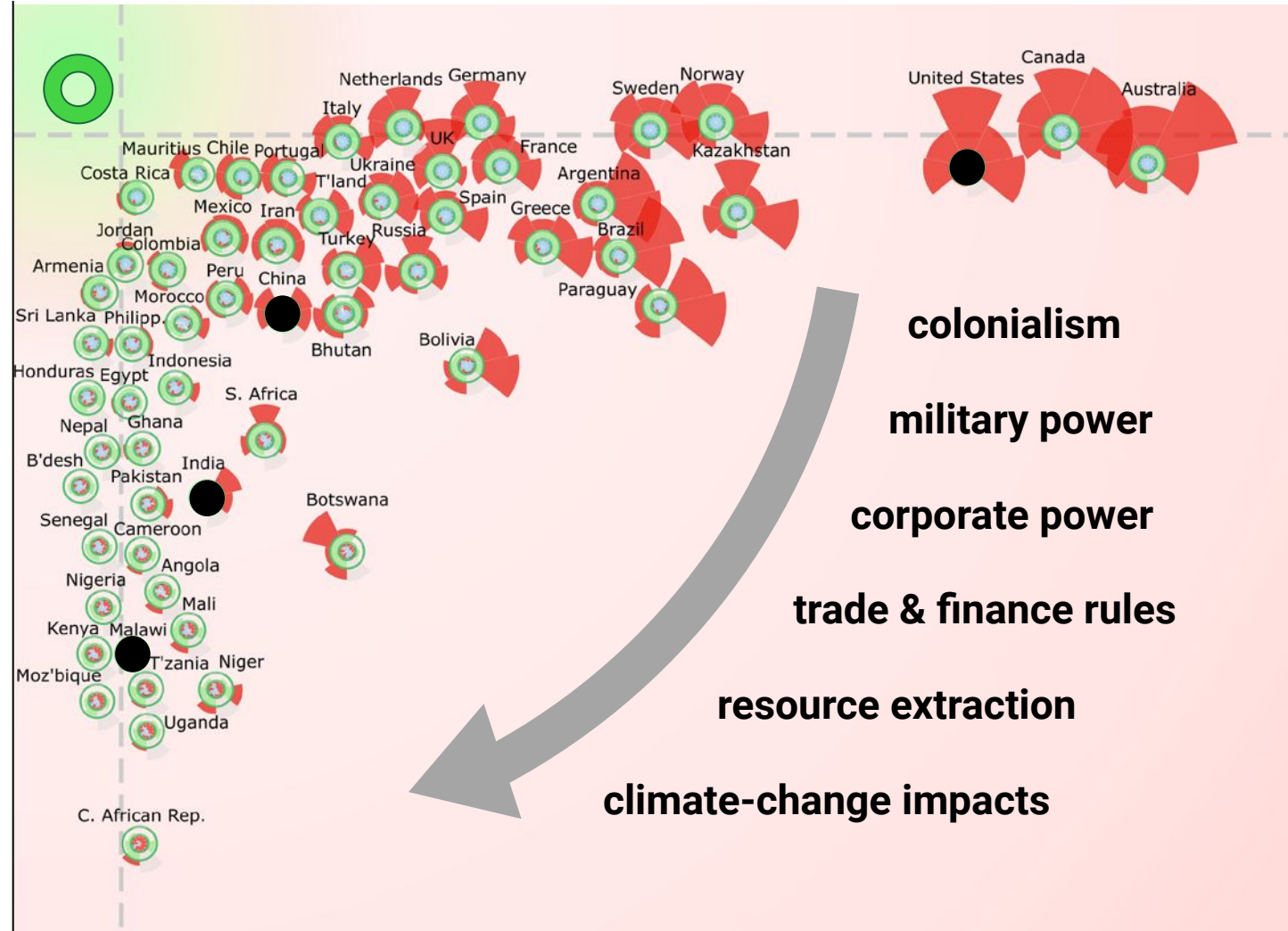
China
\$21,000 pc



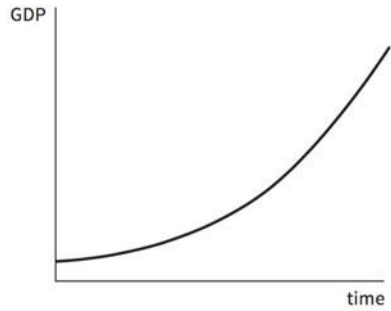
United States
\$73,000 pc

No nation is living in the Doughnut

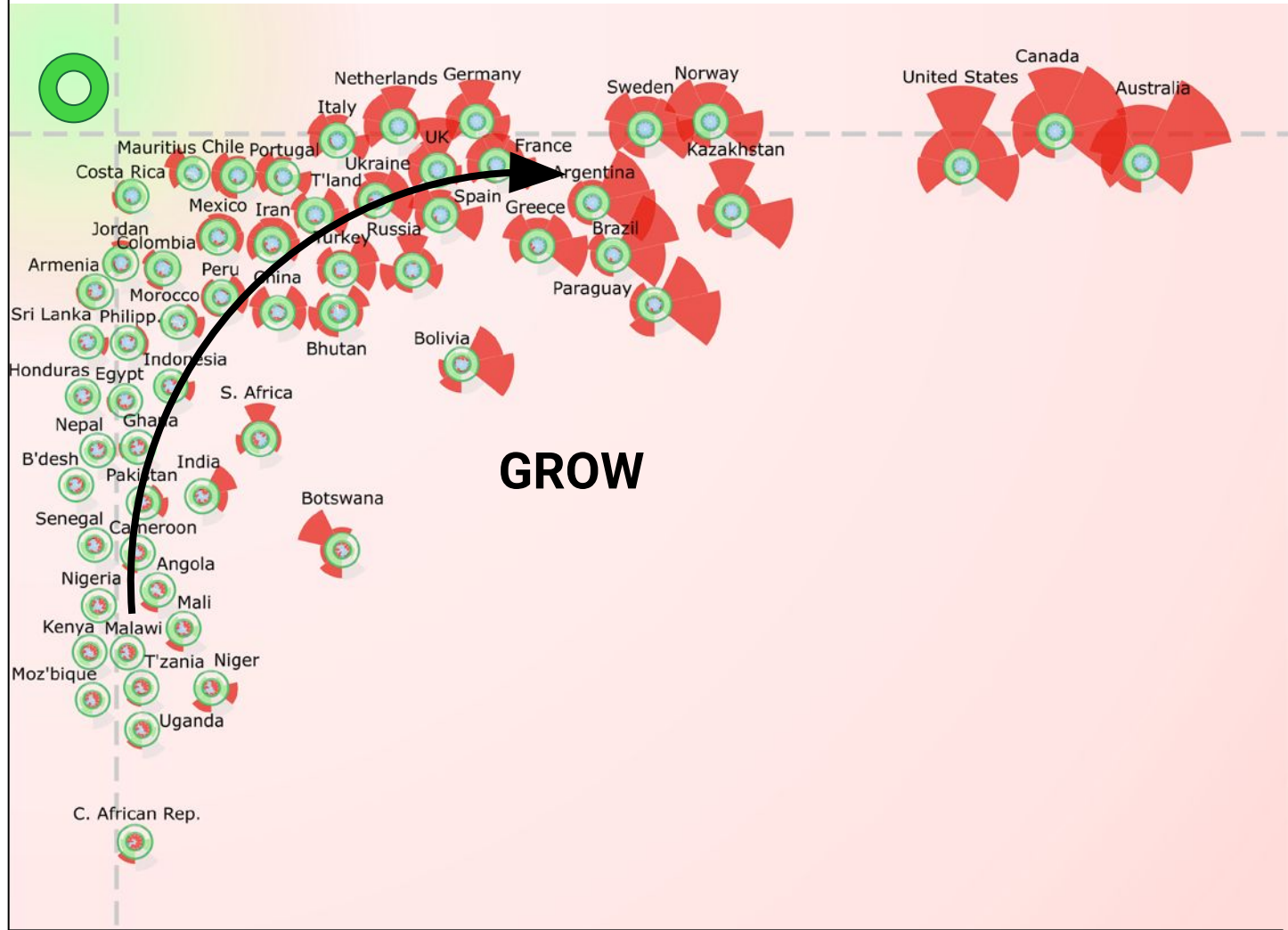
↑ Meeting the needs of all people



The history of GDP growth

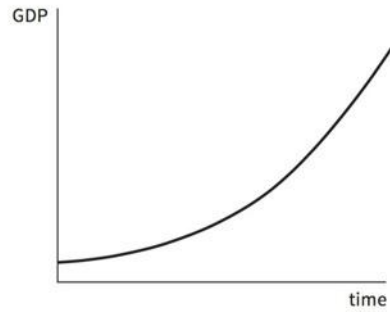


Meeting the needs of all people

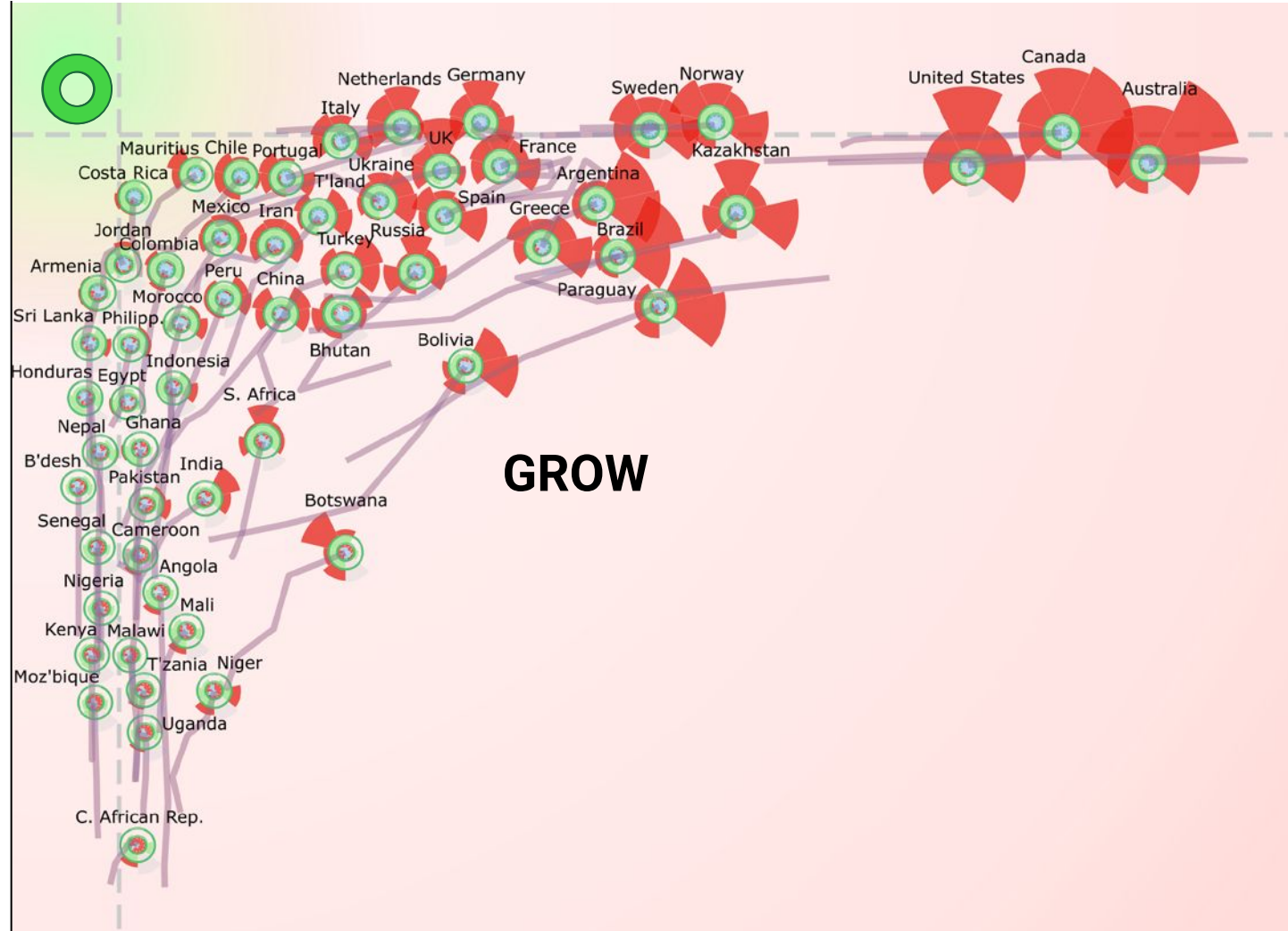


← Within the means of the living planet

The history of GDP growth

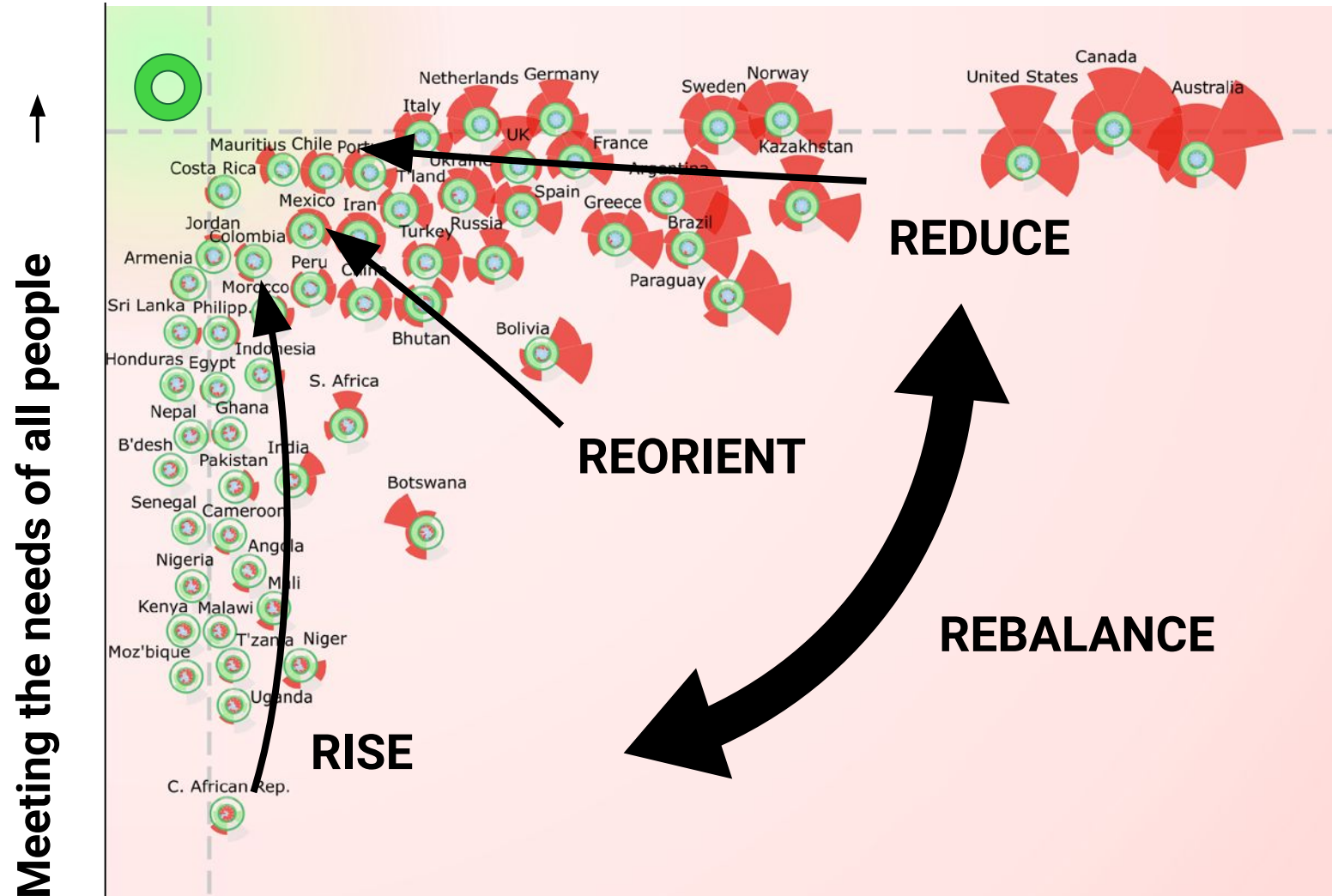


Meeting the needs of all people



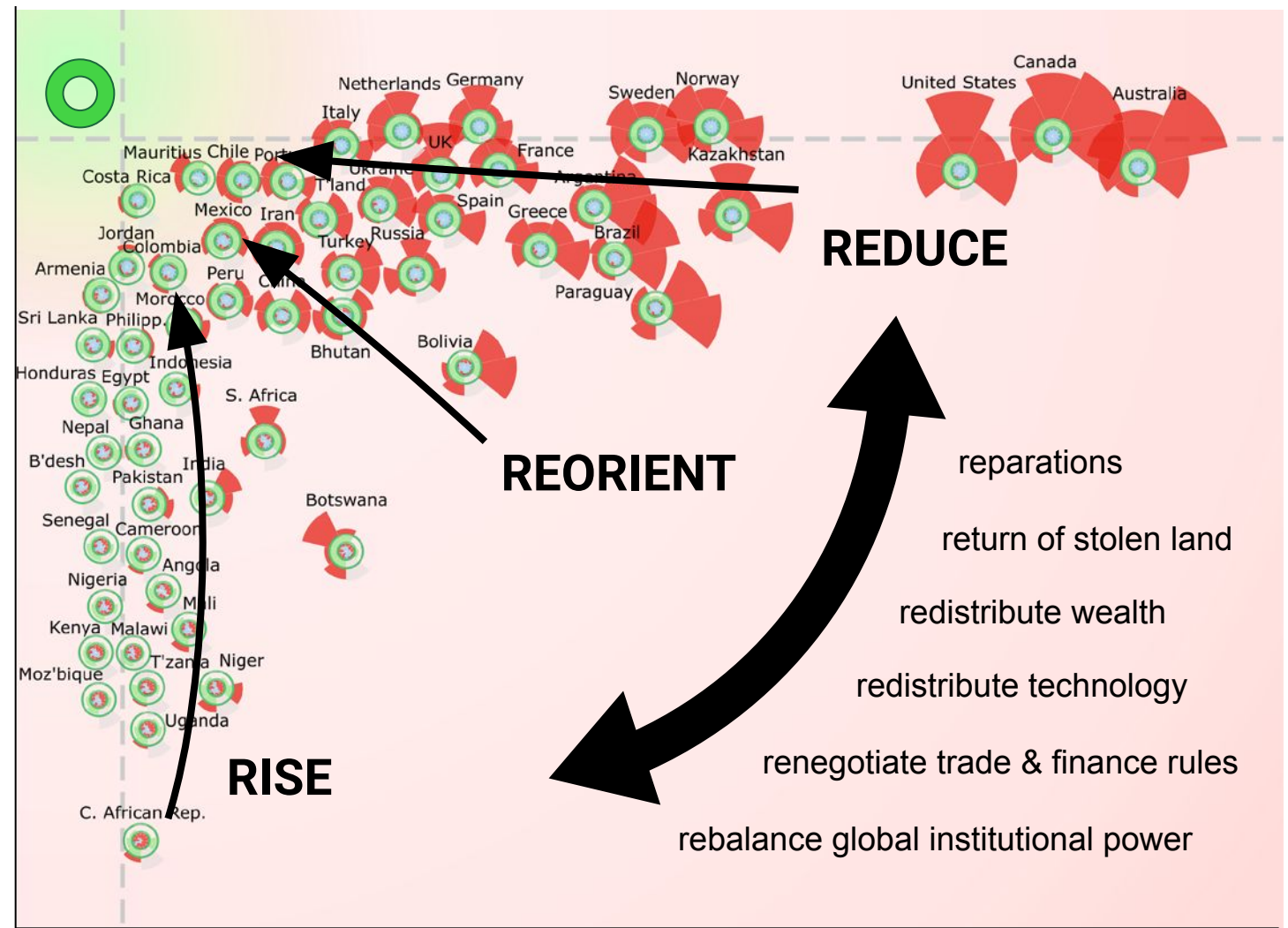
← Within the means of the living planet

Aiming for thriving futures



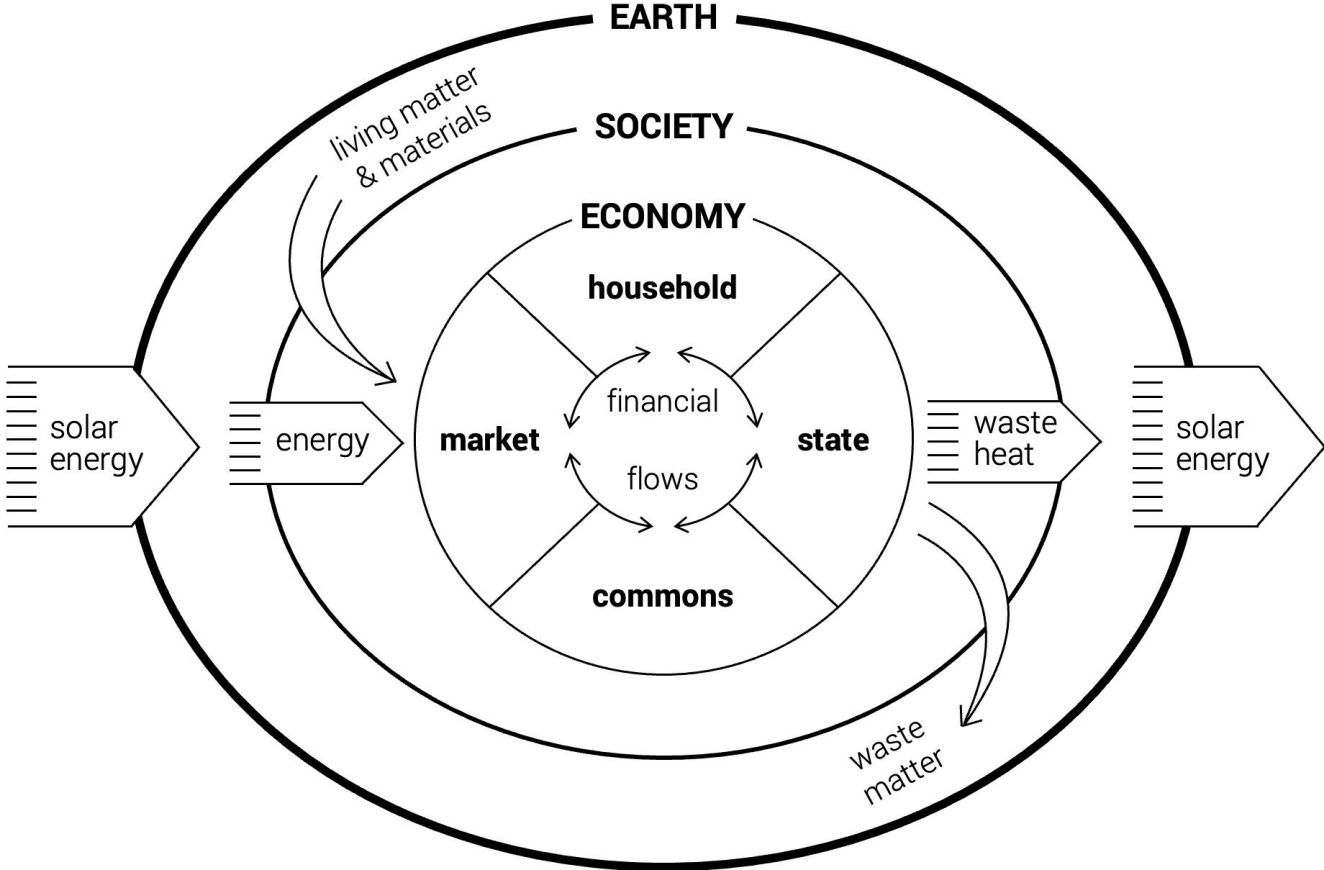
Aiming for thriving futures

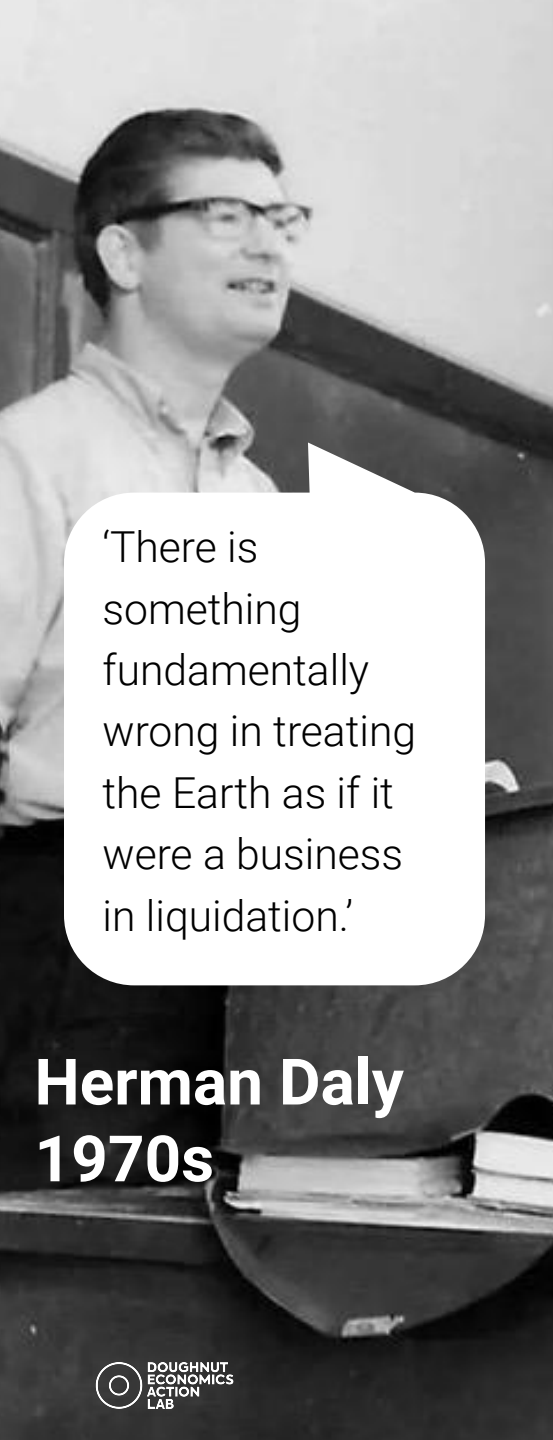
↑
Meeting the needs of all people



← Within the means of the living planet

The Embedded Economy





'There is something fundamentally wrong in treating the Earth as if it were a business in liquidation.'

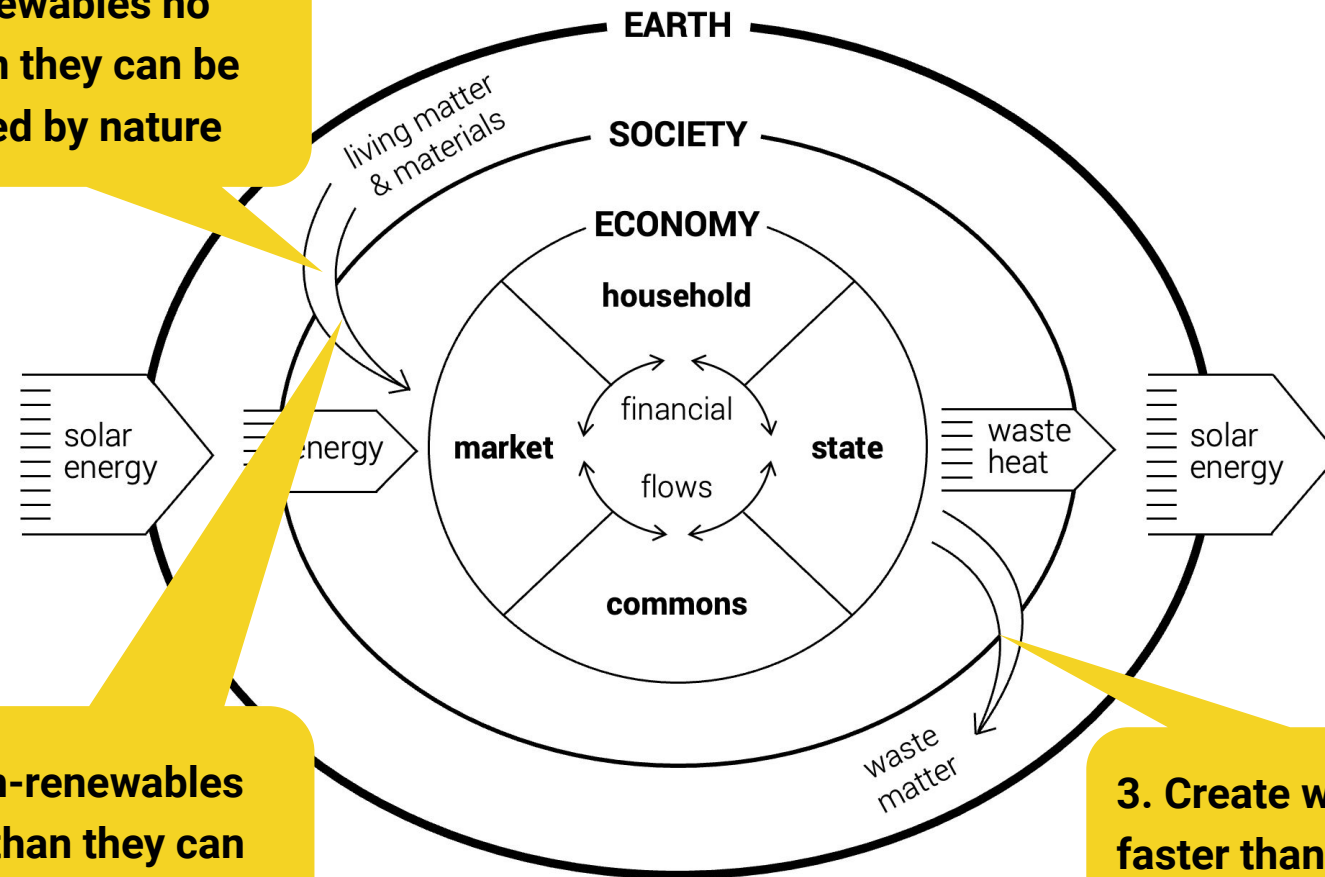
Herman Daly
1970s

Daly's 3 rules for setting economic scale

1. Use renewables no faster than they can be regenerated by nature

2. Use non-renewables no faster than they can be substituted for

3. Create waste no faster than it can be assimilated by nature



Recognise
the whole
economy



parent
partner
relative
child



consumer
producer
labour
capital



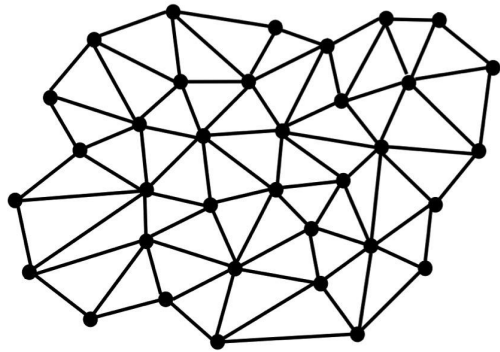
public servant
resident
voter
protester



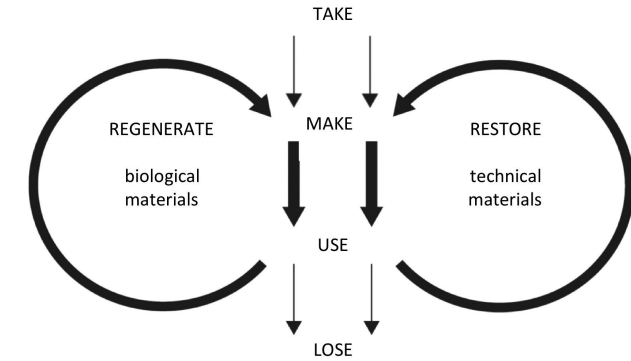
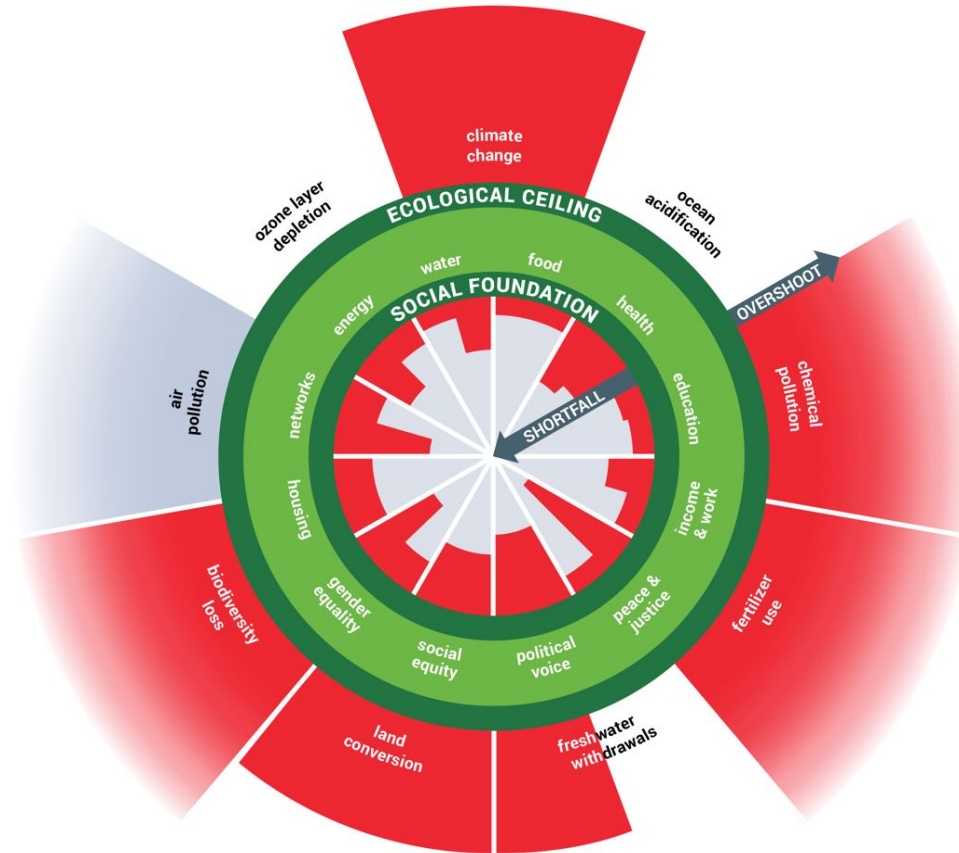
volunteer
sharer
co-creator
steward



How can humanity get into the Doughnut?

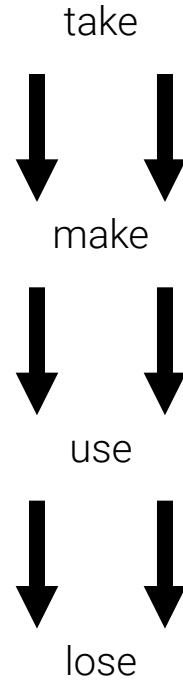


**Be distributive
by design**



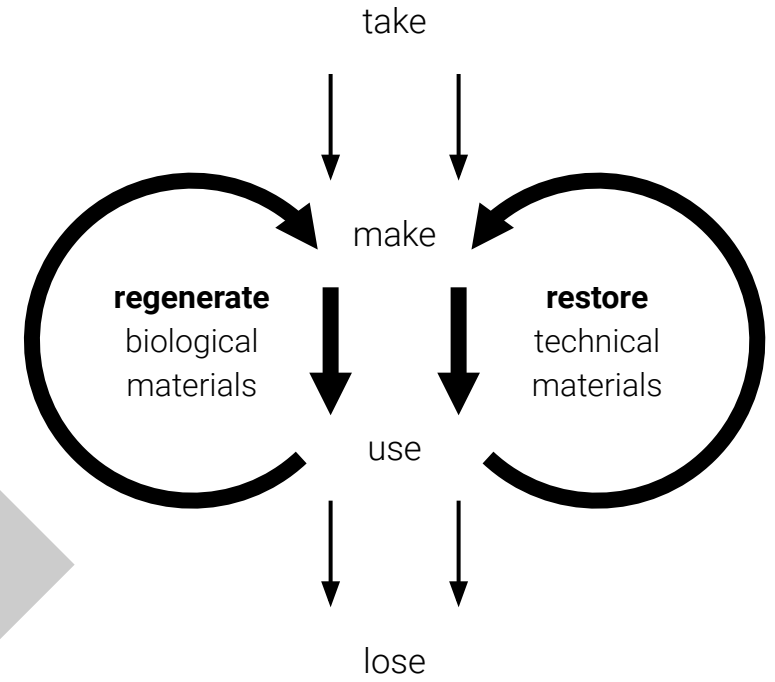
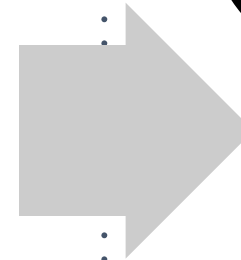
**Be regenerative
by design**

**To change
the future,
change the
dynamics**



Degenerative

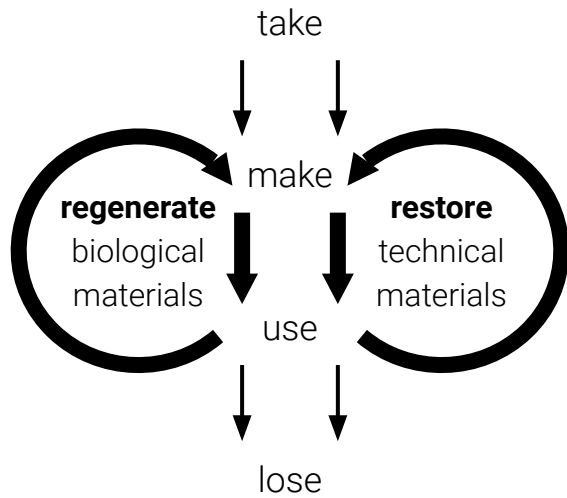
Running down Earth's
life-supporting system



Regenerative

Working with and within the
cycles of the living world

Towards regenerative urban design



Eco-construction - Uttarakhand



Circular construction - Amsterdam

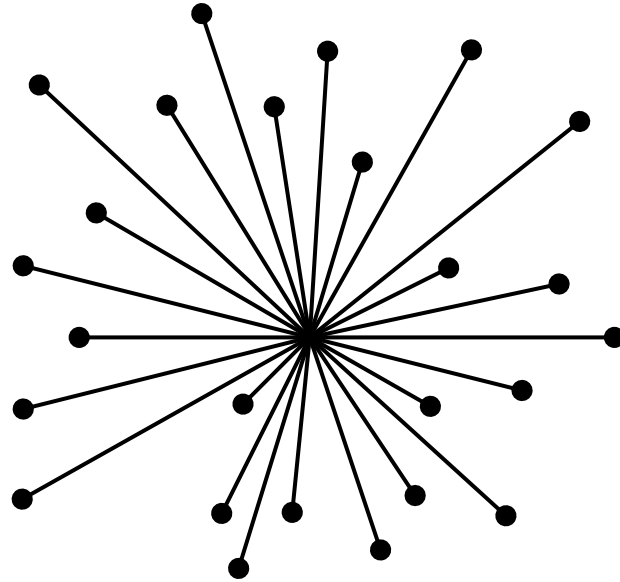


Retrofit & renovation – Baltimore



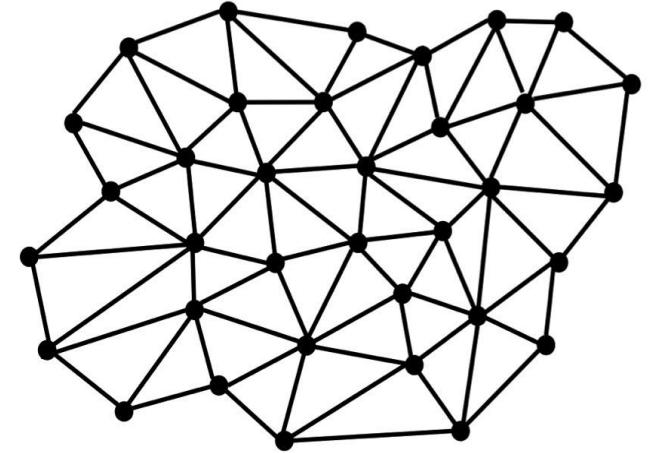
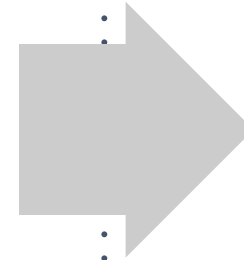
Sponge city - Jinhua

**To change
the future,
change the
dynamics**



Divisive

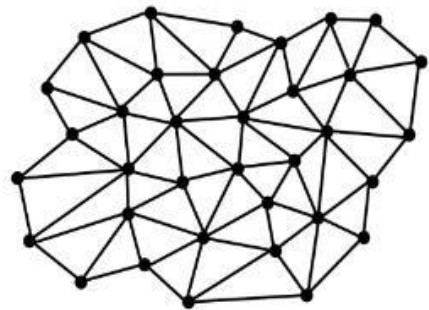
Capturing opportunity and value
in the hands of a few



Distributive

Sharing opportunity and value
with all who co-create it

Towards distributive urban design



Half houses – Chile



Community-led redevelopment - Bangkok



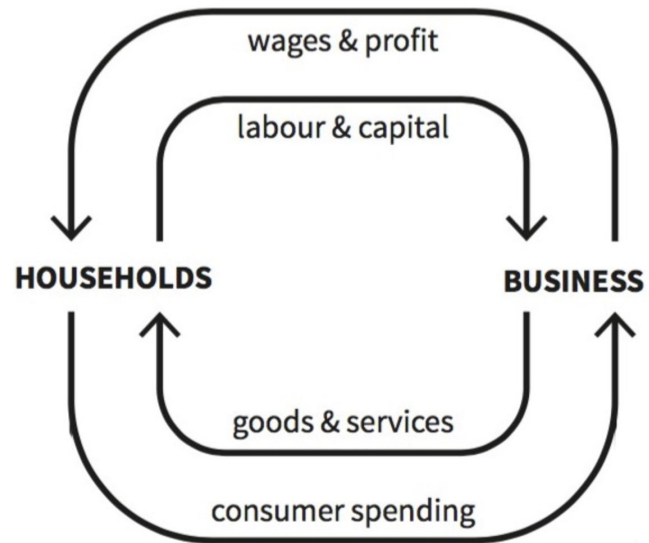
Rapid transit – Curitiba, Brazil



Solar cooperatives – Cleveland, US

20th century economics

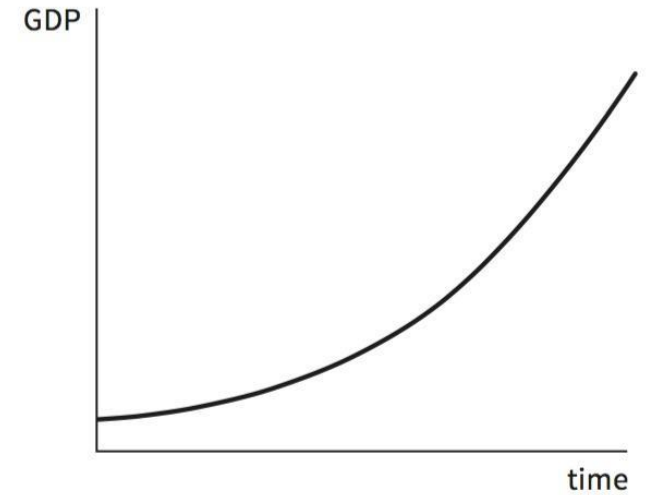
The first image



The selfie

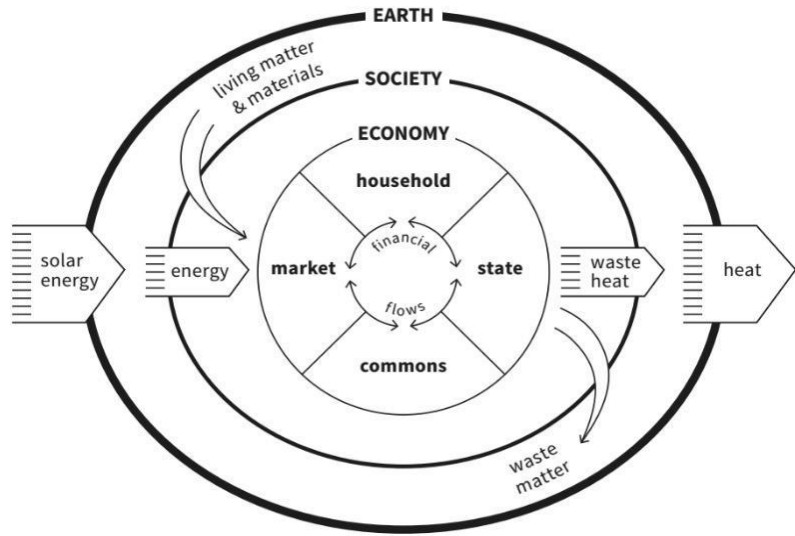


The goal



21st century economics

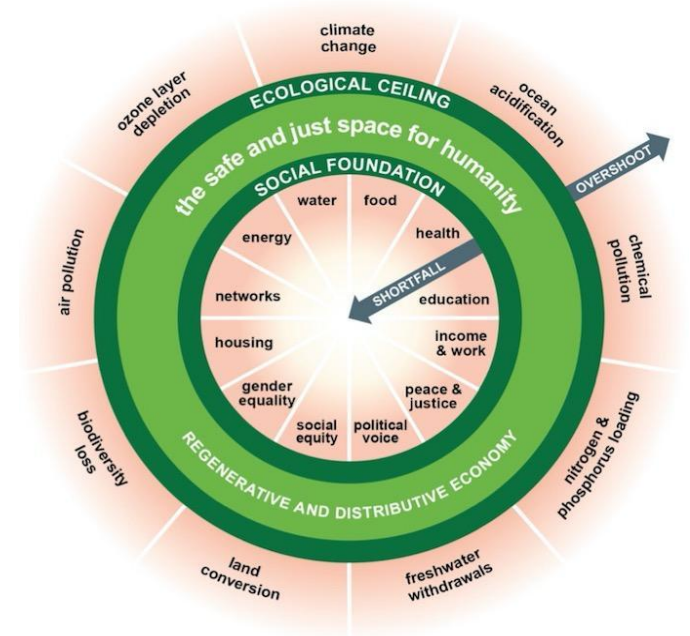
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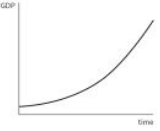





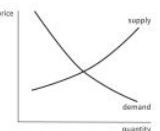
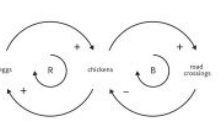
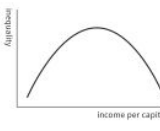
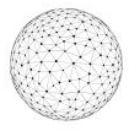

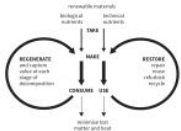
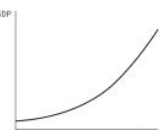

The selfie



The goal



Seven ways to think like a 21st century economist

Seven Ways to Think:	From 20th-Century Economics	To 21st-Century Economics
1. Change the Goal	 <p>GDP</p>	 <p>the Doughnut</p>
2. See the Big Picture	 <p>self-contained market</p>	 <p>embedded economy</p>
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in business



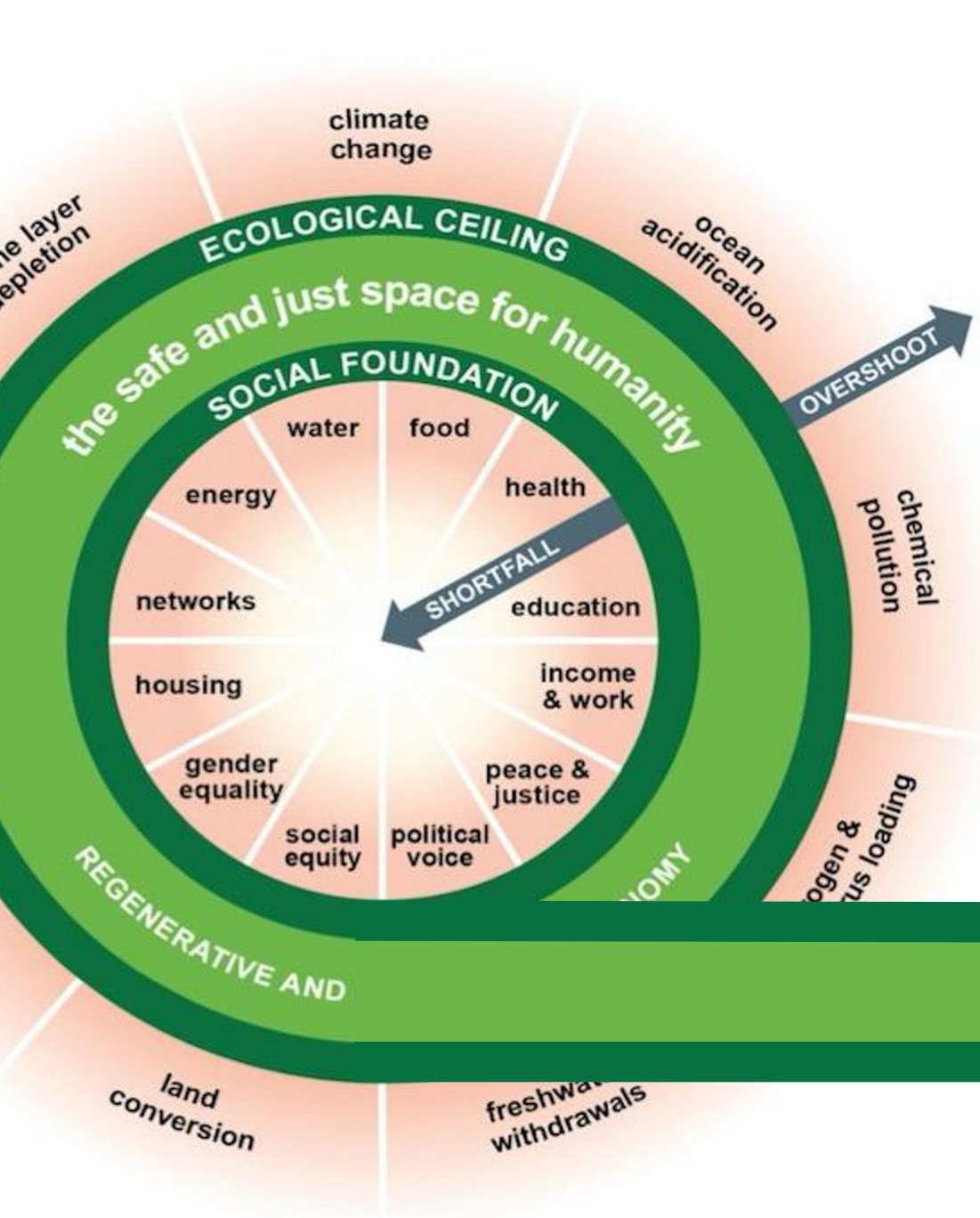
in government



in communities



in our own lives



“What would it mean for our city to live in the Doughnut?”

ECOLOGICAL CEILING

How can this 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?

SOCIAL FOUNDATION

**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

2.
How can our city be
as generous as the wildland nextdoor?

3.
How can our city respect
the health of the whole planet?

Local aspirations

Global connections

1.
How can everyone in
our city thrive?

4.
How can our city respect
the wellbeing of people worldwide?



How can everyone in our city thrive?



Food



Water



Health



Education



Housing



Energy



Connectivity



Mobility



Community



Culture



Income
& work



Social
equity



Equality in
diversity



Political
voice



Peace &
justice



ECOLOGICAL CEILING

How can our city be as generous as the wildland next door?

Cleanse the air



House biodiversity



Store carbon



Cycle water



Harvest energy



Regulate the temperature



Build & protect soil



Enhance wellbeing



Generosity of the wildland next door



Stores carbon



Welcomes wildlife



Cycles water



Harvests energy











Enhances wellbeing

Ways we can aim to match that here



ECOLOGICAL CEILING

How can our city be as generous as the wildland nextdoor?

- 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 everyone in our city thrive?

3.

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

Global connections

4.

How can our city respect the wellbeing of people worldwide?



ECOLOGICAL CEILING

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



Products purchased here



Food



Clothing



Electronics



Household products



Construction

Impacts worldwide





How can our city respect the wellbeing of all people?

Actions and decisions taken here



Global supply chains



Lifestyle patterns



Cultural connections



Welcome to migrants



Policy regimes

Implications for people worldwide



Food



Water



Health



Education



Housing



Energy



Income & work



Social equity



Equality in diversity



Community & networks











Political voice



Peace & justice

ECOLOGICAL CEILING


How can our city be as generous as the wildland nextdoor?

- 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 everyone in our city thrive?


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 



Global connections



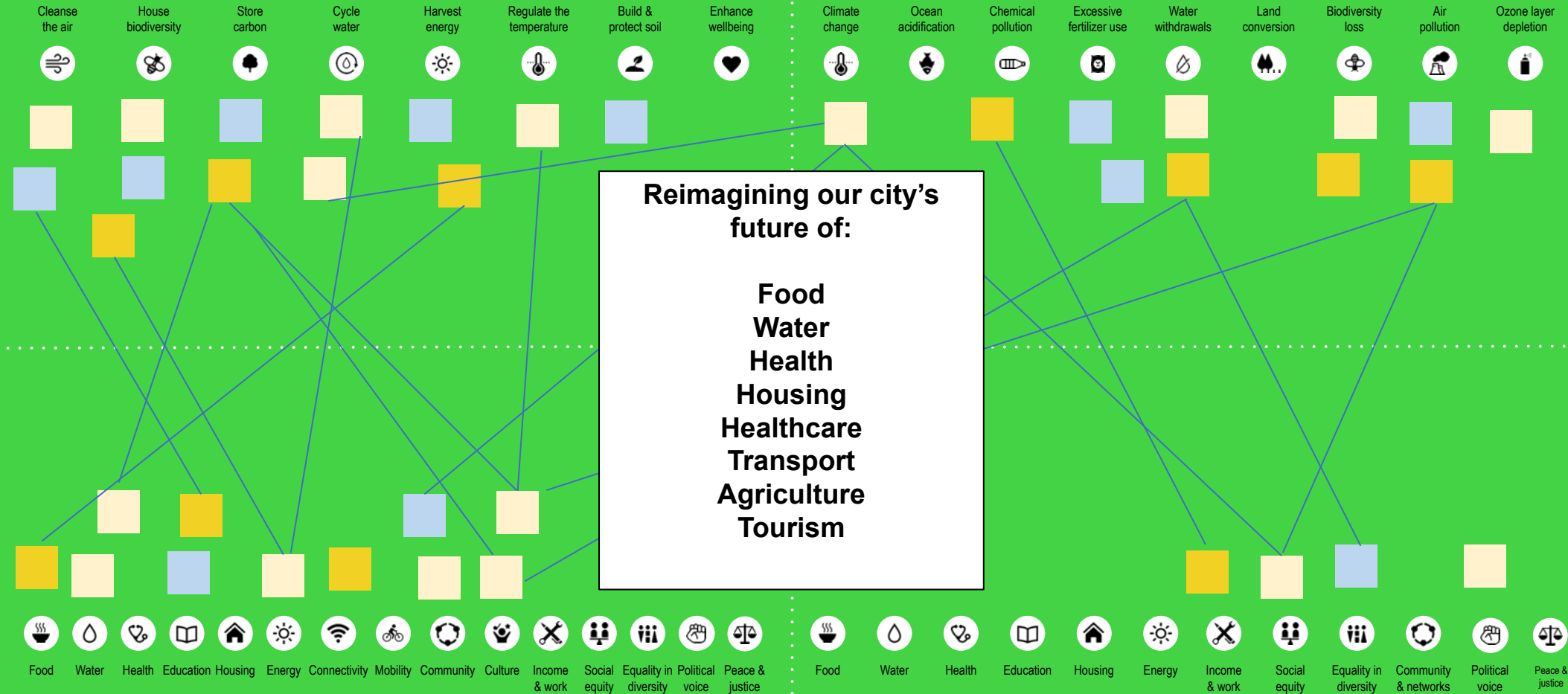
-  Food
-  Water
-  Health
-  Education
-  Housing
-  Energy
-  Income & work
-  Social equity
-  Equality in diversity
-  Community & networks
-  Political voice
-  Peace & justice

How can our city respect the wellbeing of people worldwide?

ECOLOGICAL CEILING

How can our city be as generous as the wildland nextdoor?

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



How can all the people of our city thrive?

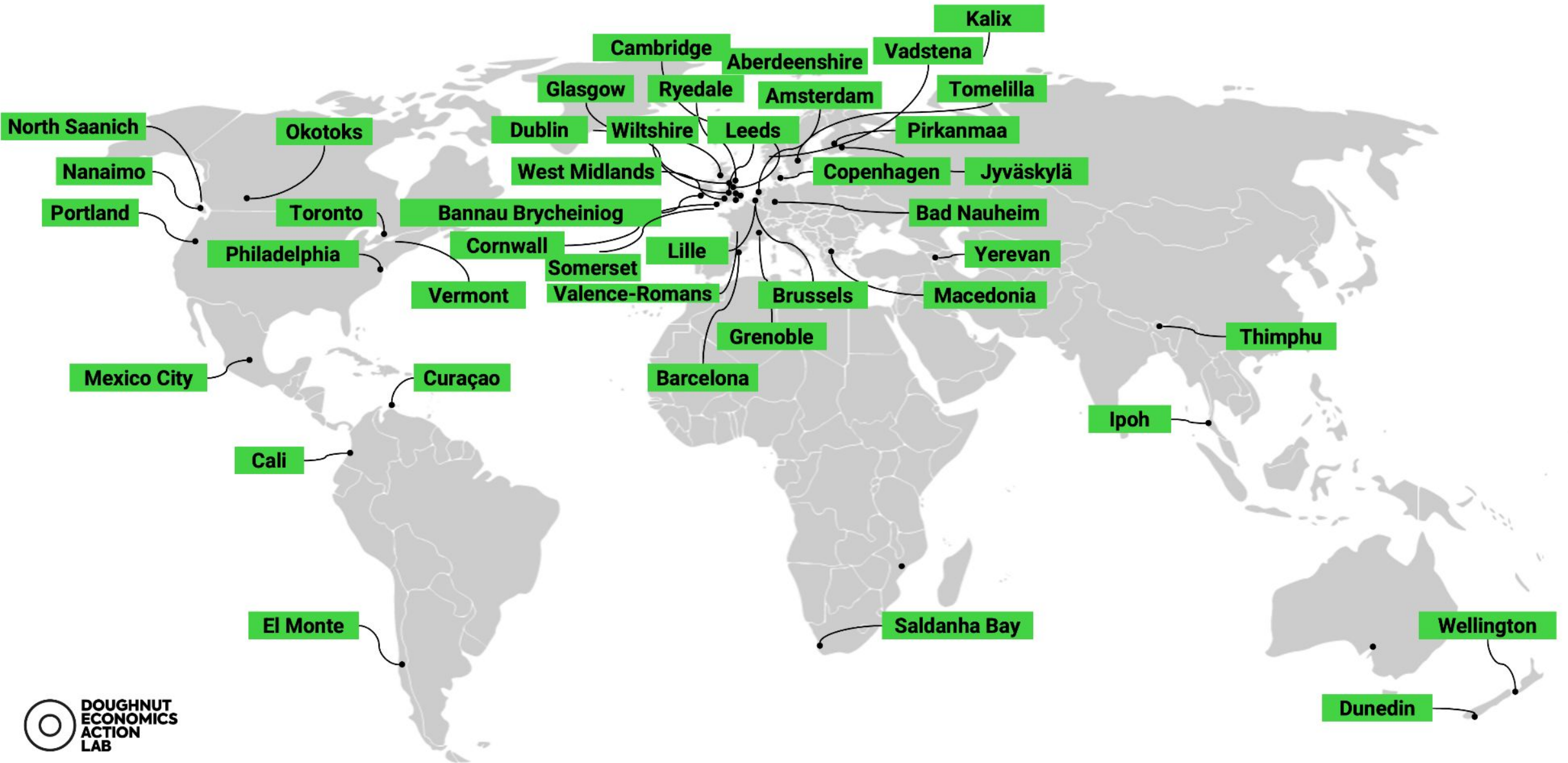
How can our city respect the wellbeing of all people?

SOCIAL FOUNDATION

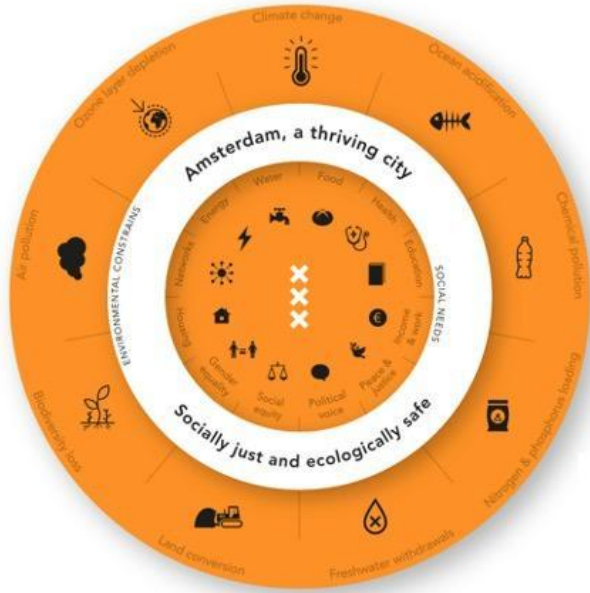
Doughnut Unrolled

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?

90+ city and local governments engaging with Doughnut Economics in 2024



Amsterdam - driving ambitions for a circular city



a thriving, inclusive, regenerative city for all residents while respecting the planetary boundaries

Social housing projects



Circular and fair clothing chain



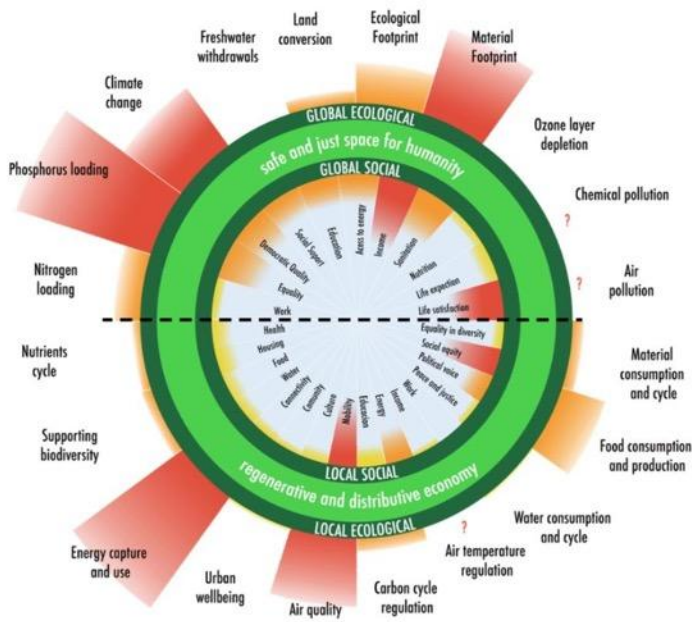
Doughnut projects originated in first lock down 2020



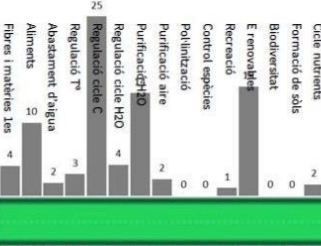
 <p>Project THE KASKANTINE 2y</p> <p>De Kaskantine is a neighborhood farm run by and for Amsterdammers, intended to experiment...</p>	 <p>Project HOUSING COOPERATIVE DE WARREN 3y</p> <p>The group uses its knowledge and experience to realize a housing cooperative for the Amsterdammers of...</p>
 <p>Project FARMING FOR NEIGHBORS 13w</p> <p>Amsterdammers with a small grant can buy healthy food that farmers around Amste...</p>	 <p>Project COMMUNITY LAND TRUST H-NEIGHBOURHOOD 51w</p> <p>Affordable living in connection with the neighbourhood; being part of a neighbourhood, ties to other neighborhood b...</p>



Barcelona – creating a culture of sustainability and network of engaged organisations



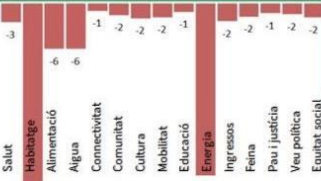
LOCAL-ECOLÒGICA



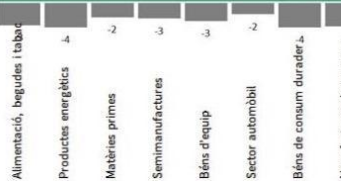
GLOBAL-ECOLÒGICA



LOCAL-SOCIAL



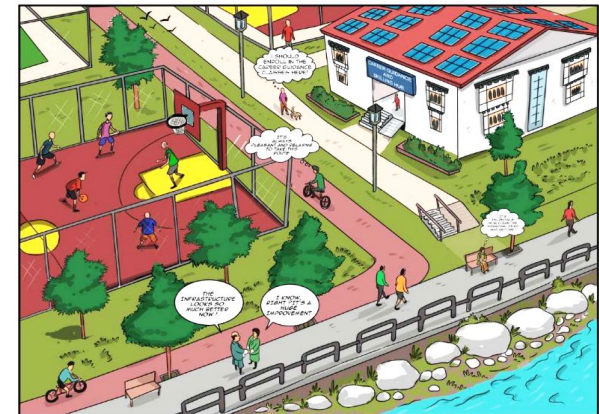
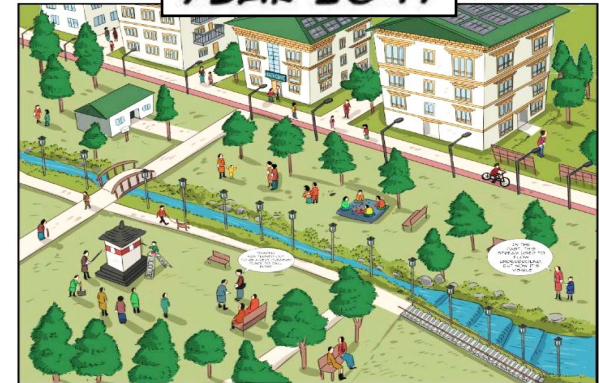
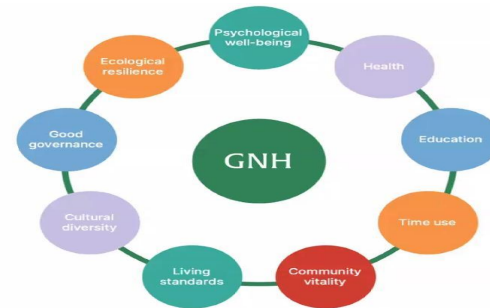
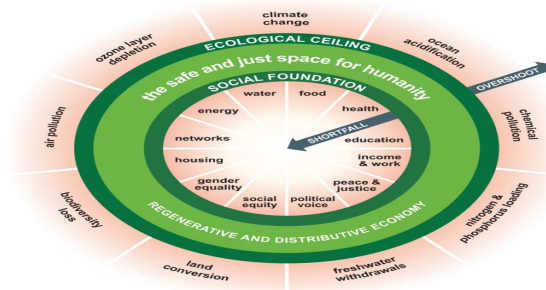
GLOBAL-SOCIAL



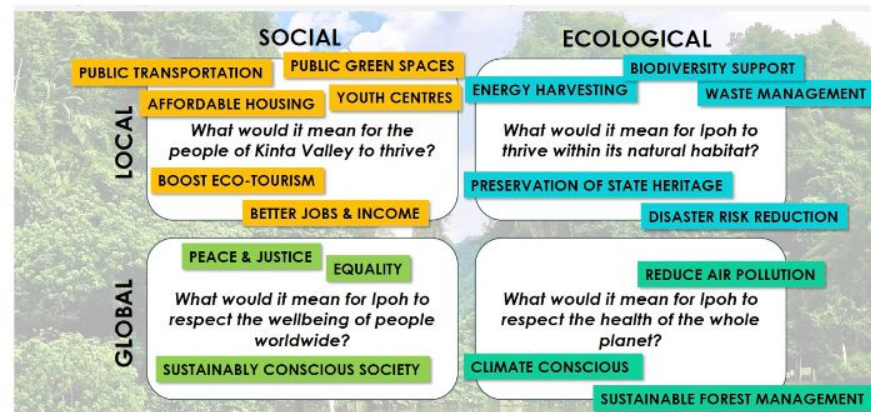
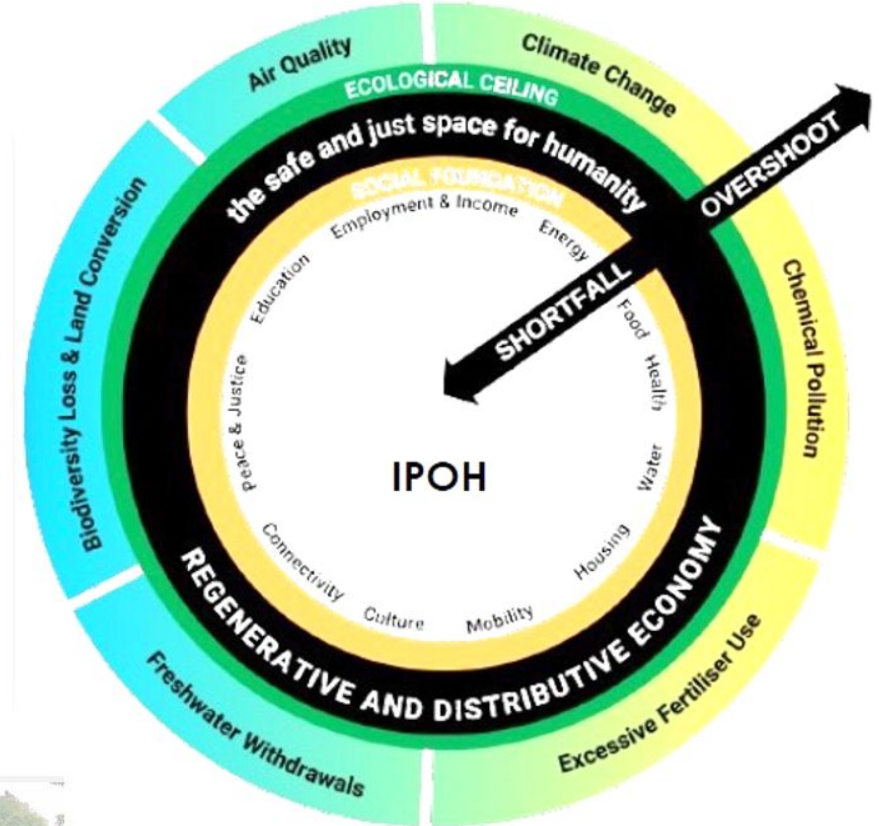
Thimphu, Bhutan – creating a city and regional plan



“Gross National Happiness in the Doughnut”



Ipoh, Malaysia – Asia's first city aiming for the Doughnut





VERSION 2
2024
Including case studies of leading cities and regions

Cities & regions let's get started

Pathways for **local and regional governments** to engage with **Doughnut Economics** as a tool for transformative action



Valence Romans

Tomelilla

Ipoh

9 ways places 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

Brussels

Bad Nauheim

Amsterdam

Copenhagen

Glasgow

Cornwall

50+ community groups and networks engaging with Doughnut Economics worldwide



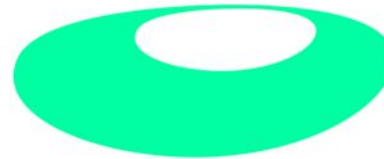
Frankfurt
Doughnut
Coalition



Donut
Berlin



REGEN
MELBOURNE



TRI-COLOR COALITION
FOR SUSTAINABLE TRANSITIONS



CALIFORNIA
DOUGHNUT
ECONOMICS
COALITION



DONUT
BRASIL



REGEN
SYDNEY

Regen Melbourne – a city-wide alliance for transformative action



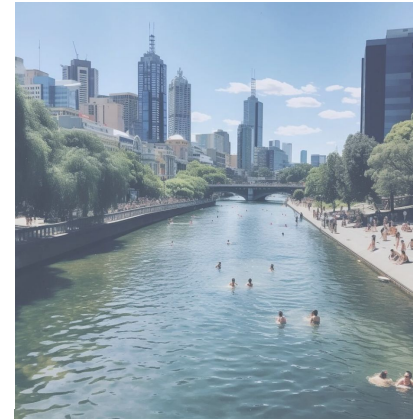
GREATER MELBOURNE CITY PORTRAIT

Powered by Regen Melbourne



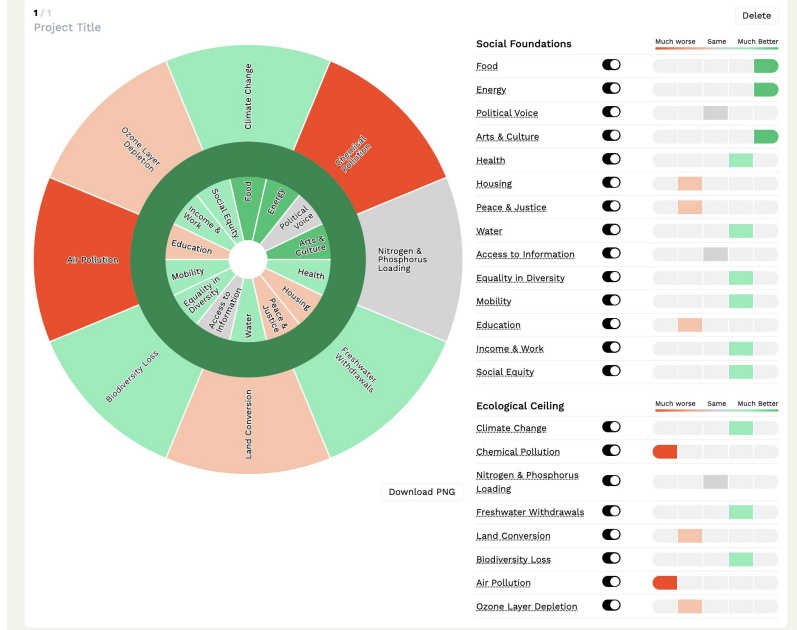
A REGENERATIVE MELBOURNE IS:

- 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, RIVERS, PLAY & LEARN IN, NATURE, GROW FOOD IN OUR CITY)
- AFFORDABLE**
EVERYONE HAS SECURE, SAFE, COMFORTABLE HOUSING POWERED BY CLEAN ENERGY AND QUALITY, LOCALLY GROWN FOOD
- 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
- COLLABORATIVE**
WHERE WE DO WHAT WE LOVE FOR OUR LIVELIHOODS AND WE ARE VALUED FOR OUR CONTRIBUTION
- ENABLED**
OUR ECONOMIC & GOVERNANCE SYSTEMS ENABLE THOSE VISIONS TO COME TO LIFE

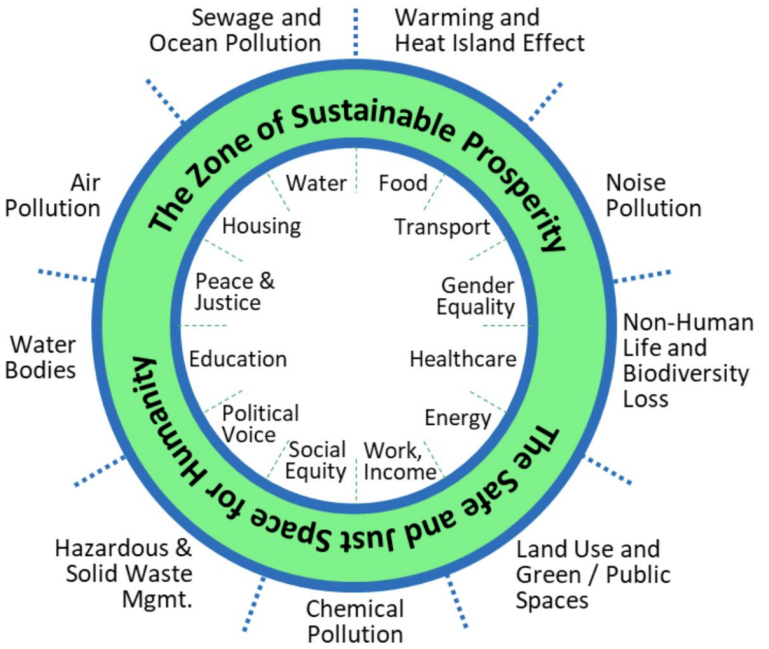


Impact Visualiser

Visualise an assessment of your initiative's social and ecological impact on the Melbourne Doughnut.



Mumbai Donut CoLab – collective action to make Mumbai more liveable & sustainable



mumbaidonutcolab.org

Rethinking Economics India

Founded: June 2020

Country: India

Group email: india@rethinkeconomics.org

Facebook Page: facebook.com/pages/Rethinking-Economics-India-Network/

Facebook Group: facebook.com/groups/RE:IN/

Twitter: twitter.com/RethinkEcon_In/

Instagram: instagram.com/rethinkingeconomicsindia/

Website: www.rethinkeconindia.org/

India Network
Rethinking
Economics

PLURALISM IN ECONOMICS EDUCATION

A REVIEW OF UNDERGRADUATE
PROGRAMMES IN INDIA

A Report by
Rethinking Economics
India Network

June 2022



Diversifying & Decolonising

The Diversifying & Decolonising action circle runs a number of projects aimed at diversifying and decolonising the curriculum, including bringing together different actors...





Seven ways to think like a 21st century economist

Seven Ways to Think:	From 20th-Century Economics	To 21st-Century Economics
1. Change the Goal	<p>GDP</p>	<p>the Doughnut</p>
2. See the Big Picture	<p>self-contained market</p>	<p>embedded economy</p>
3. Nurture Human Nature	<p>rational economic man</p>	<p>social adaptable humans</p>
4. Get Savvy with Systems	<p>mechanical equilibrium</p>	<p>dynamic complexity</p>
5. Design to Distribute	<p>growth will even it up again</p>	<p>distributive by design</p>
6. Create to Regenerate	<p>growth will clean it up again</p>	<p>regenerative by design</p>
7. Be Agnostic about Growth	<p>growth addicted</p>	<p>growth agnostic</p>



1 Change the Goal

The second lesson of the Doughnut Economics Curriculum introduces the concept of the Doughnut and its relationship to the SDGs.

2 See the big picture

This lesson introduces the Doughnut Economics paradigm and its relationship to the SDGs, showing how it integrates social and environmental goals.

3 Nurture Human Nature

This lesson explores the concept of 'Hello, social adaptable humans' and how it differs from the traditional 'So long, rational economic man'.

4 Get Savvy with Systems

This lesson introduces systems thinking, distinguishing between ordered simplicity, ordered complexity, and disordered complexity.

5 Distributive by Design

This lesson discusses trends in national income inequalities and the role of distributive design in addressing these issues.

6 Create to Regenerate

This lesson explores shifting paradigms from 'Depressive' (running down Earth's support system) to 'Regenerative' (working with and within the cycles of the living world).

7 Thrive Beyond Growth

This lesson introduces the concept of 'What is 'economic growth'? An increase in Gross Domestic Product' and explores the feasibility of growth for high-income nations.

The Doughnut

The social frontier is defined from the social justice perspective. The ecological ceiling is defined from the planetary boundaries perspective.

Many valued goods and services are co-produced in the economy, unpriced.

Production and consumption are interconnected with the living world, involving energy flows and resource use.

So long, rational economic man. Hello, social adaptable humans.

From an individualistic, isolated, and self-interested model to a social, interdependent, and community-oriented model.

Ordered simplicity, Ordered complexity, Disordered complexity

Ordered simplicity (low entropy) leads to ordered complexity (high entropy), which can lead to disordered complexity (chaos).

Trends in national income inequalities

The 20th national income inequality shows a general upward trend in inequality across most nations.

Shifting paradigms

Depressive: Running down Earth's support system. Regenerative: Working with and within the cycles of the living world.

What is 'economic growth'? An increase in Gross Domestic Product

GDP is the total value of goods and services produced in a country. It is calculated as the sum of consumption, investment, and government spending, minus net exports.

Evolution of the planetary boundary framework

The framework has evolved from 7 boundaries in 2009 to 10 boundaries in 2023, with some boundaries becoming more stringent.

The Embedded Economy

The economy is not separate from the living world but is deeply embedded within it, sharing resources and energy.

Let's play: Chicken Coop

Competitive (chickens fighting), Collaborative (chickens working together), and Fly (chickens escaping the coop) represent different system dynamics.

Systems Thinking: key concepts

Key concepts include feedback loops (reinforcing and balancing), leverage points (places in a system where a small change can produce a large effect), and the difference between 'Divide' and 'Distribute'.

Circular economy

The circular economy aims to eliminate waste and keep resources in use for as long as possible, contrasting with the linear 'take-make-dispose' model.

Post-growth

Post-growth focuses on well-being and equity within the Doughnut, rather than pursuing GDP growth.

Towards a future of human and planetary thriving

Thriving is achieved by staying within the Doughnut, balancing social and environmental goals.

Depicting environmental issues in neoclassical economics

Neoclassical economics often fails to account for the full value of environmental resources and the damage caused by their depletion.

Donner's Care Design Principles

- STRONG SENSE OF IDENTITY AND UNDERSTANDING OF PURPOSE
- FAIR DISTRIBUTION OF COSTS AND BENEFITS
- PARTICIPATION AND COLLECTIVE DECISION MAKING
- MONITORING AND ASSESSMENT OF RISKS AND OPPORTUNITIES
- TRANSPARENT AND ACCOUNTABLE DECISION MAKING
- FAST AND FAIR CONFLICT RESOLUTION
- AUTHORITY TO SELF-GOVERN
- ADAPTABILITY TO CHANGE
- RESILIENCE AND CAPACITY TO WITHSTAND SHOCKS
- INTEGRATION WITH OTHER SYSTEMS
- CLARITY OF PURPOSE AND UNDERSTANDING OF PURPOSE

TOURISM AND THE GREAT BARRIER REEF

Tourism can be a double-edged sword, providing economic benefits but also posing significant threats to the reef's health.

Where do you stand in your nation's distribution?

This diagram helps individuals understand their position within their nation's economic and resource distribution.

DEGENERATIVE vs. REGENERATIVE INDUSTRIES

Degenerative industries (like fossil fuels and fast fashion) deplete resources, while regenerative industries (like organic agriculture and renewable energy) restore them.

What is the feasible GDP pathway for high-income nations aiming for the Doughnut?

The graph shows that high-income nations need to decouple GDP growth from material use to stay within the Doughnut.

People People Planet

A balanced and equitable society is essential for staying within the Doughnut and ensuring a good life for all.

Empty world vs. Full world

An empty world with high per capita resource use is less sustainable than a full world with lower per capita resource use.

Ecosystem services, Natural resources, The living world, The web of life

Healthy ecosystems provide essential services that support human well-being and the planet's ability to regenerate.

Tipping points can emerge suddenly

Tipping points are critical thresholds in a system. Once crossed, they lead to sudden and often irreversible changes.

Decoupled production vs. Coupled production

Decoupled production separates resource use from production, while coupled production integrates them, allowing for more sustainable resource management.

Concepts of regeneration

Regeneration involves restoring natural systems and human communities to a state of health and resilience.

And absolute decoupling of materials has not yet begun

While some progress has been made, absolute decoupling of material use from economic activity has not yet been achieved.

TAKE A STAND

Can humanity get into the Doughnut by 2050? Whether or not, we should aim for something else.

Exploring the 4 core realms of provisioning

These four realms represent different ways of interacting with and supporting the economy and society.

worldview, naming, diagram, practice

Worldviews shape how we name things, create diagrams, and engage in practices. Shifting from a growth-oriented worldview to a Doughnut-oriented one is essential.

Meadows' 12 leverage points for intervening in a system

These 12 points represent different levels of a system where small changes can have large effects, from parameters to the paradigm.

Compensation for excessive CO2 emissions

Carbon markets and other mechanisms can provide financial incentives to reduce emissions and compensate those who have already emitted.

Doughnut Design for business

Businesses can integrate Doughnut Economics into their operations, focusing on well-being and planetary health.

4 financial drivers of GDP growth

These drivers include investment, government spending, exports, and consumption, all of which need to be managed sustainably.



Welcome to DEAL

Turning the ideas of Doughnut Economics into action

Discover the community

Join the community



Boro Doughnut Launch Event Oct 2022

Posted by [Emi Injai](#)

Middlesbrough Institute Of M...



Workshops with Citizens in Tomelilla, Sweden

Posted by [Laura Quast](#)

Tomelilla, Sweden



Between D.E. and Gender Inclusion in Nigeria

Posted by [Michael Adigam](#)

Nigeria



Global South&North: Collaboration on Equal...

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Doughnut Unrolled: Data Portrait of Place

Posted by [the DEAL Team](#)

portrait # downscale



Doughnut Unrolled: Community Portrait of...

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downscale # fourlenses



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Public policies to foster regenerative businesses

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explainer



Doughnut Design for Business - Taster Tool

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workshop



Circular workshops for Holidays and for every...

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Poland, Katowice



Neighbourhood Doughnut Portrait Launch

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Ladywood, Birmingham (UK) +...