



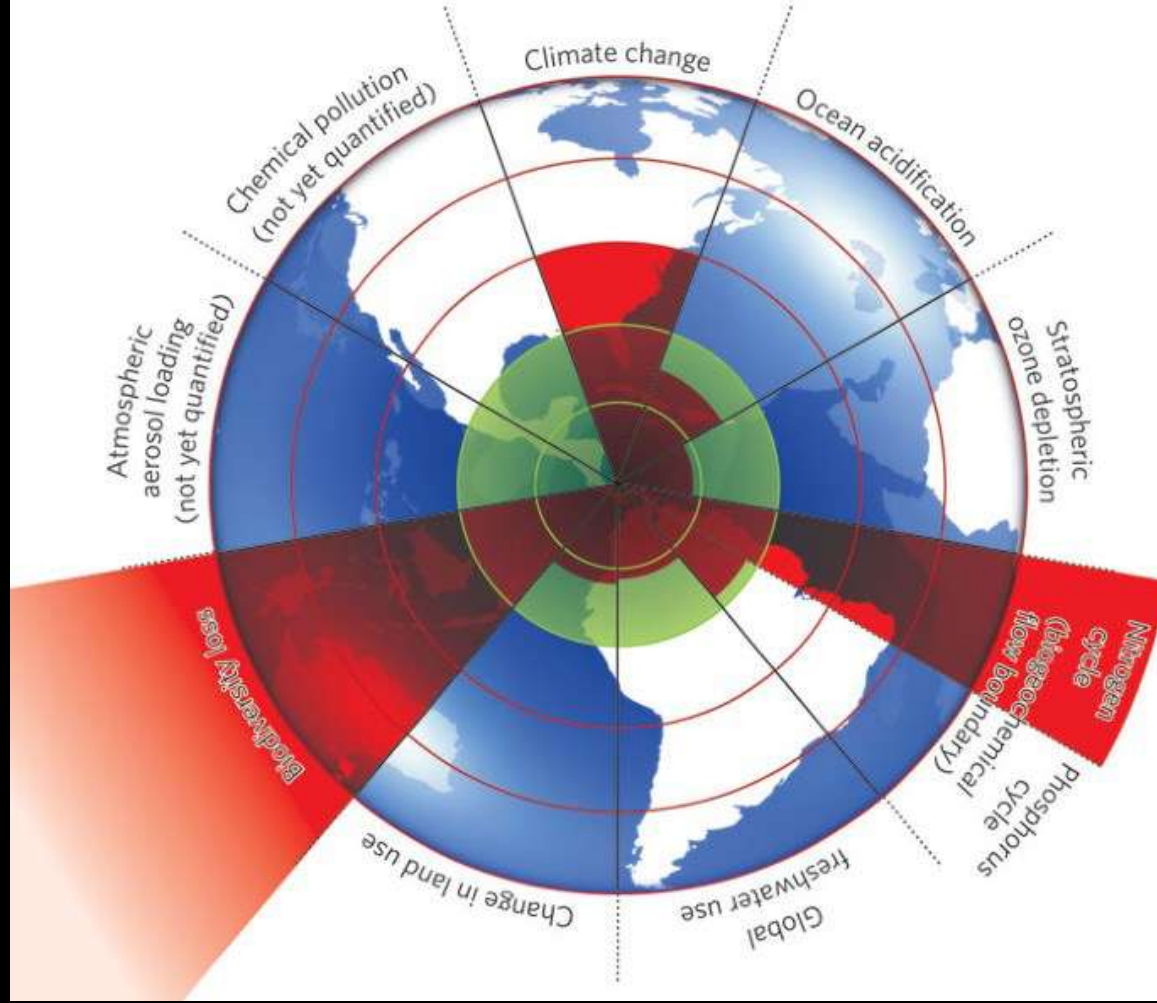
# **Doughnut Economics**

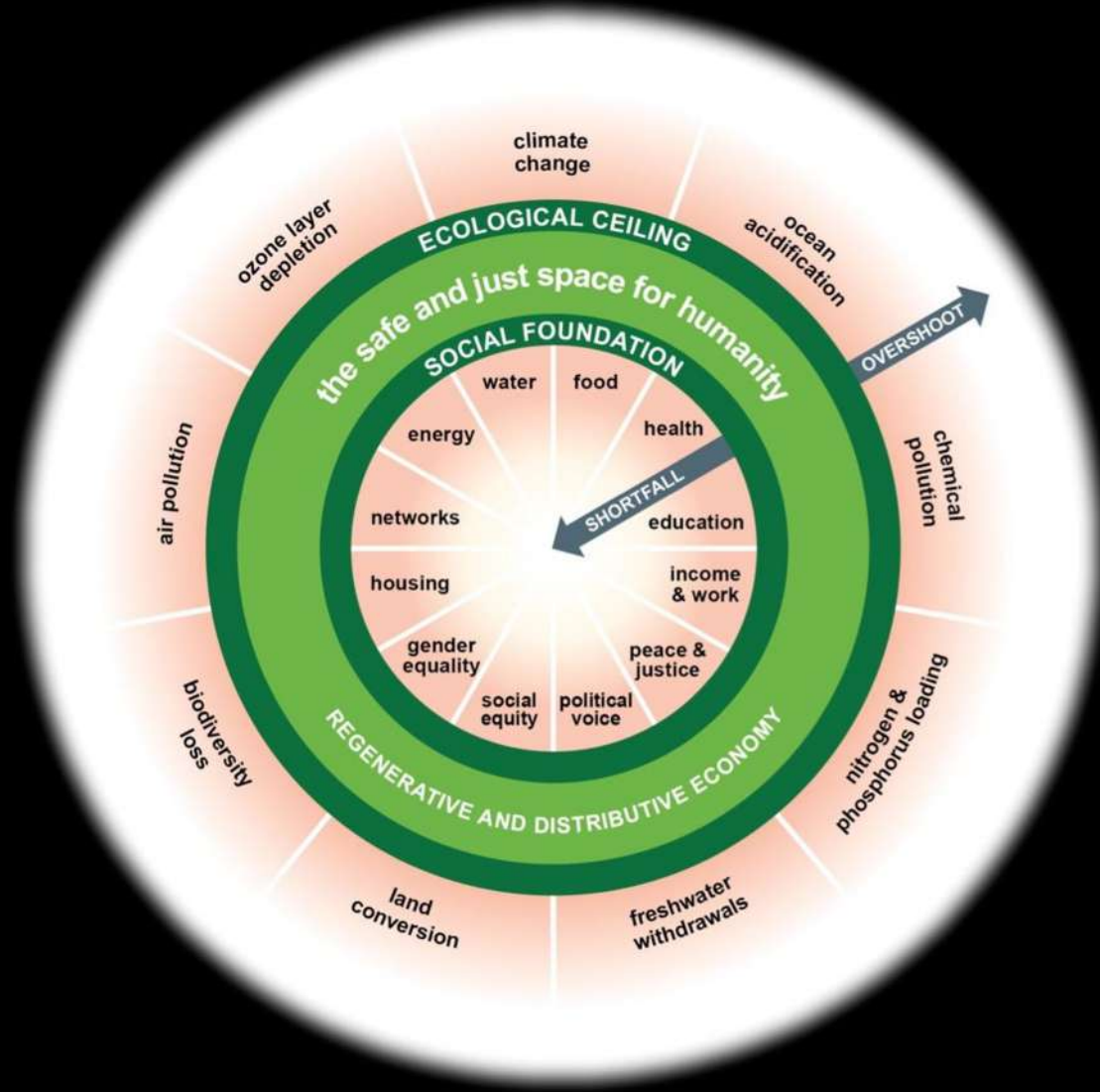
## **from theory to practice**

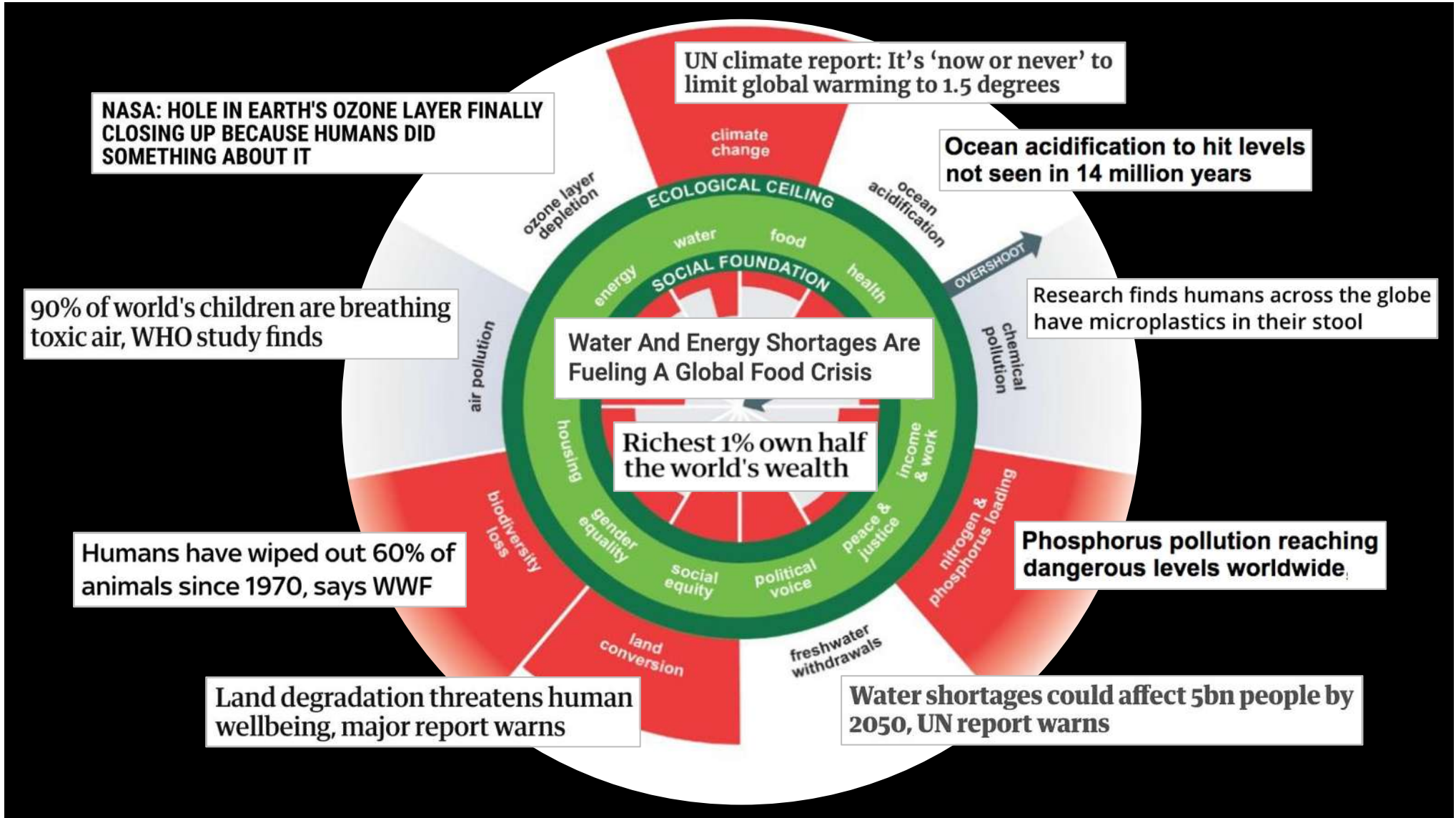
**Kate Raworth**

**Gaia Lecture 2023**  
**24 April, Utrecht**





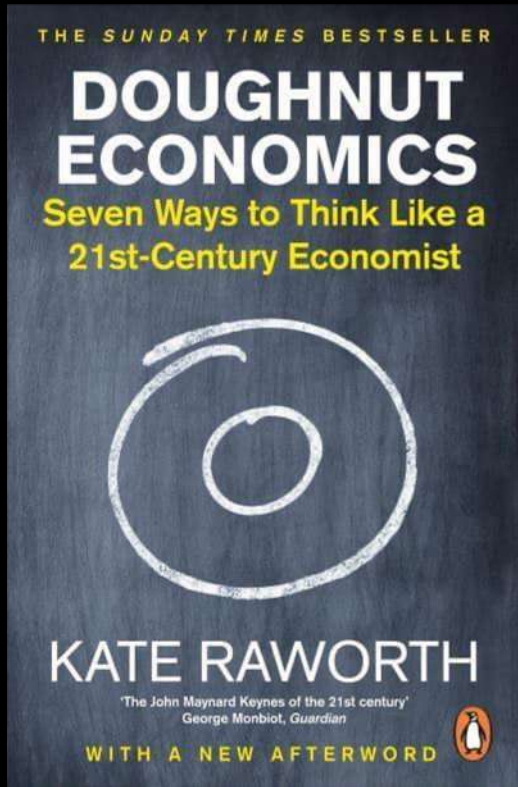




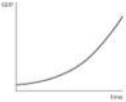

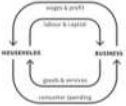



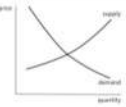
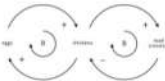


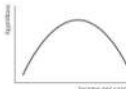
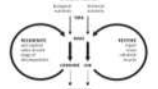

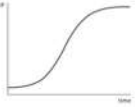


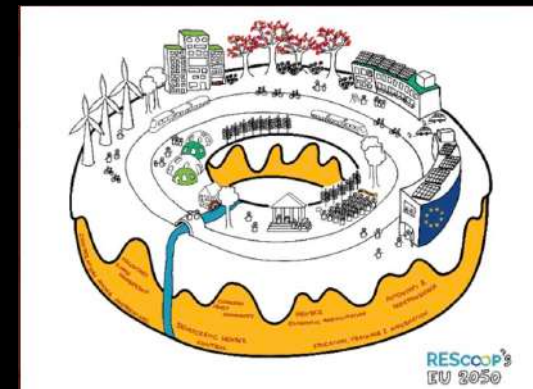
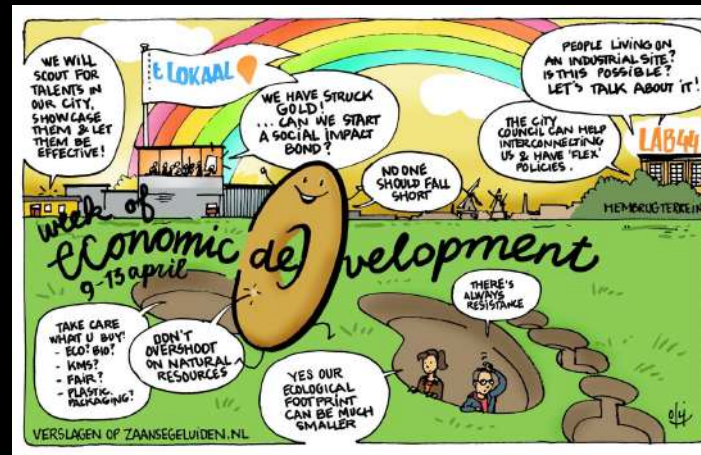
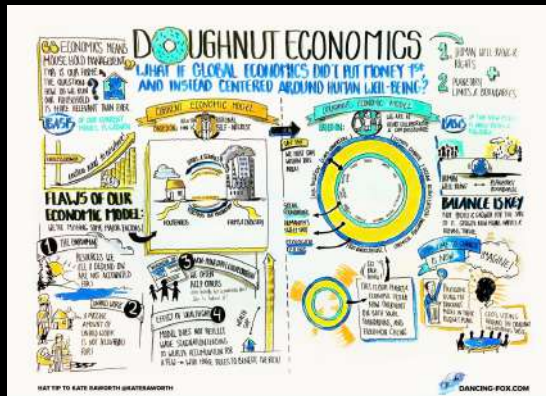
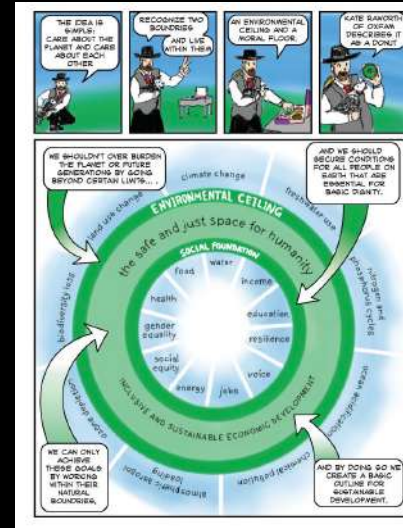
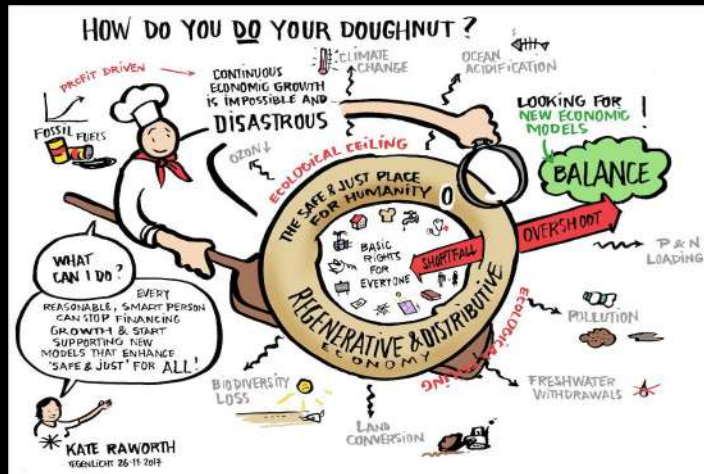
You never change things  
by fighting the existing  
reality. To change  
something, build a new  
model that makes the  
existing model obsolete.

– Buckminster Fuller

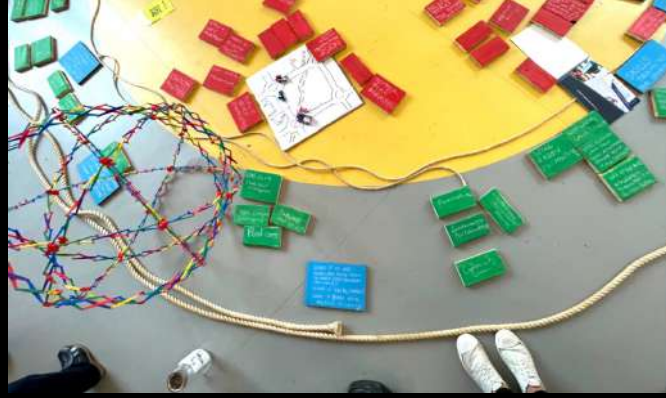
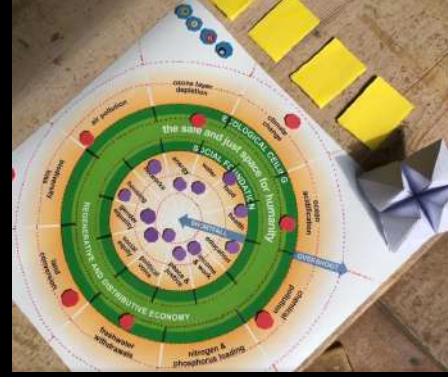


Seven ways to think like a 21st century economist

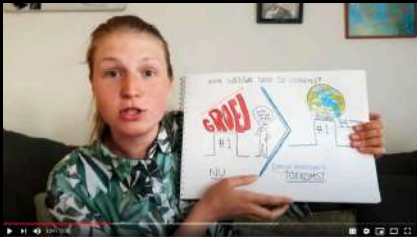
Seven Ways to Think:	From 20th-Century Economics	To 21st-Century Economics
1. Change the Goal	 GDP	 the Doughnut
2. See the Big Picture	 self-contained market	 embedded economy
3. Nurture Human Nature	 rational economic man	 social adaptable humans
4. Get Savvy with Systems	 mechanical equilibrium	 dynamic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











### DOUGHNUT ECONOMIC MODEL

**THE FOUR PRINCIPLES OF THE EMBEDDED ECONOMY AND WHY THEY MATTER WITH ONE ANOTHER**

**THE DOUGHNUT MODEL**

**THE EMBEDDED ECONOMY**

**THE DOUGHNUT MODEL**

**THE EMBEDDED ECONOMY**

### The Doughnut Model

**What is the Doughnut Model?**

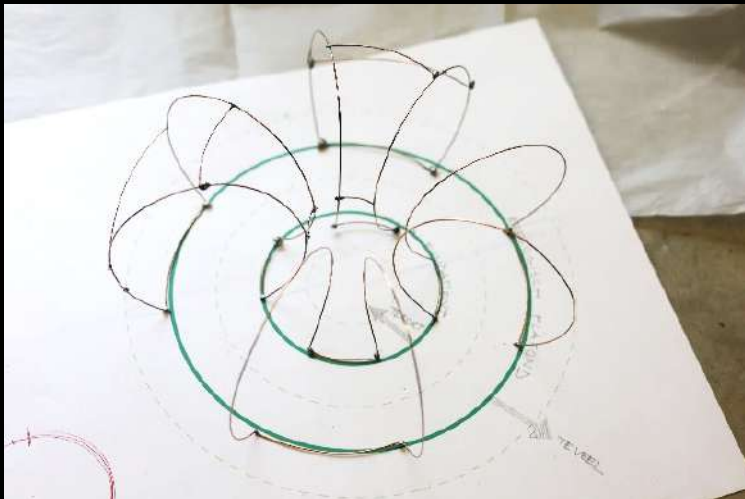
**Embedded Economy Diagram**

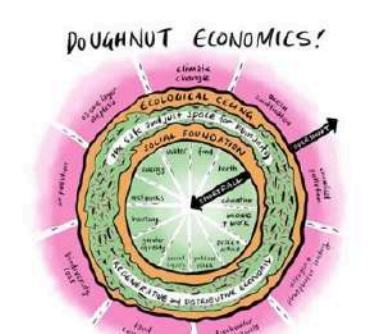
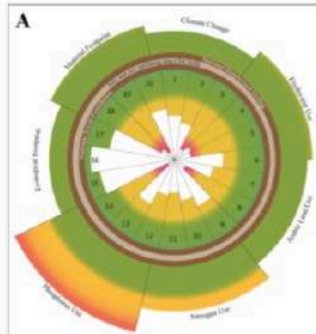
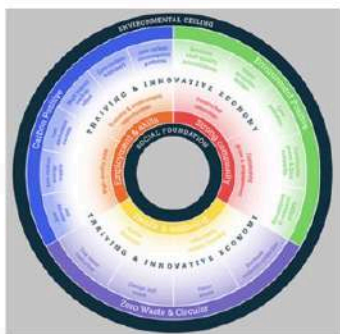
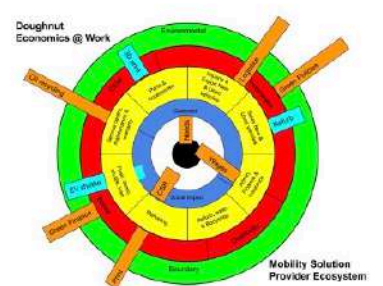
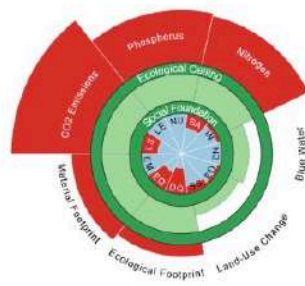
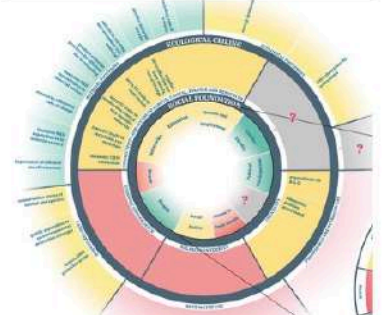
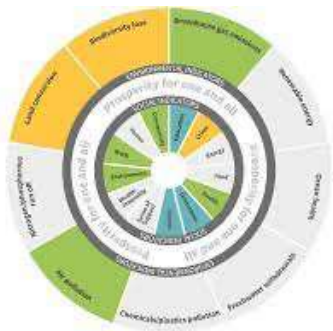
**Importance**

**Conclusion**













DEPARTMENT OF  
**ECONOMICS**

SCHOOL OF HUMANITIES, ARTS  
AND SOCIAL SCIENCES



5



If they don't give you  
a seat at the table,  
bring a folding chair.

– Shirley Chisholm





**Karl Bianco**  
Digital Platform

**Leonora Grcheva**  
Cities & Regions

**Carlota Sanz**  
Co-founder,  
Strategy



**Kate Raworth**  
Co-founder,  
Concept

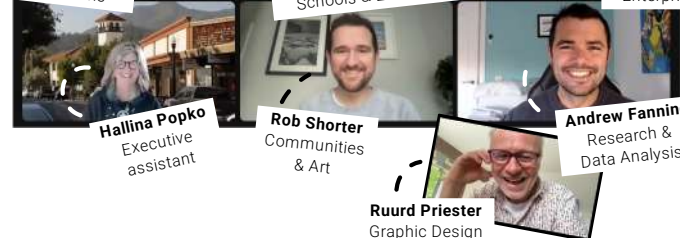
**Aimee Laurel**  
Communications

**Laura Kim**  
Operations

**Lia Loewenthal**  
Operations

**Carolina Escobar -Tello**  
Schools & Education

**Erinch Sahan**  
Business &  
Enterprise



**Hallina Popko**  
Executive  
assistant

**Rob Shorter**  
Communities  
& Art

**Andrew Fanning**  
Research &  
Data Analysis

**Ruurd Priester**  
Graphic Design



Welcome to DEAL  
**Turning the ideas of  
Doughnut Economics  
into action**

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[doughnuteconomics.org](https://doughnuteconomics.org)

[@DoughnutEcon](https://twitter.com/DoughnutEcon)

## Schools & Education



## Business & Enterprise



## Research & Academia



## Communities & Art



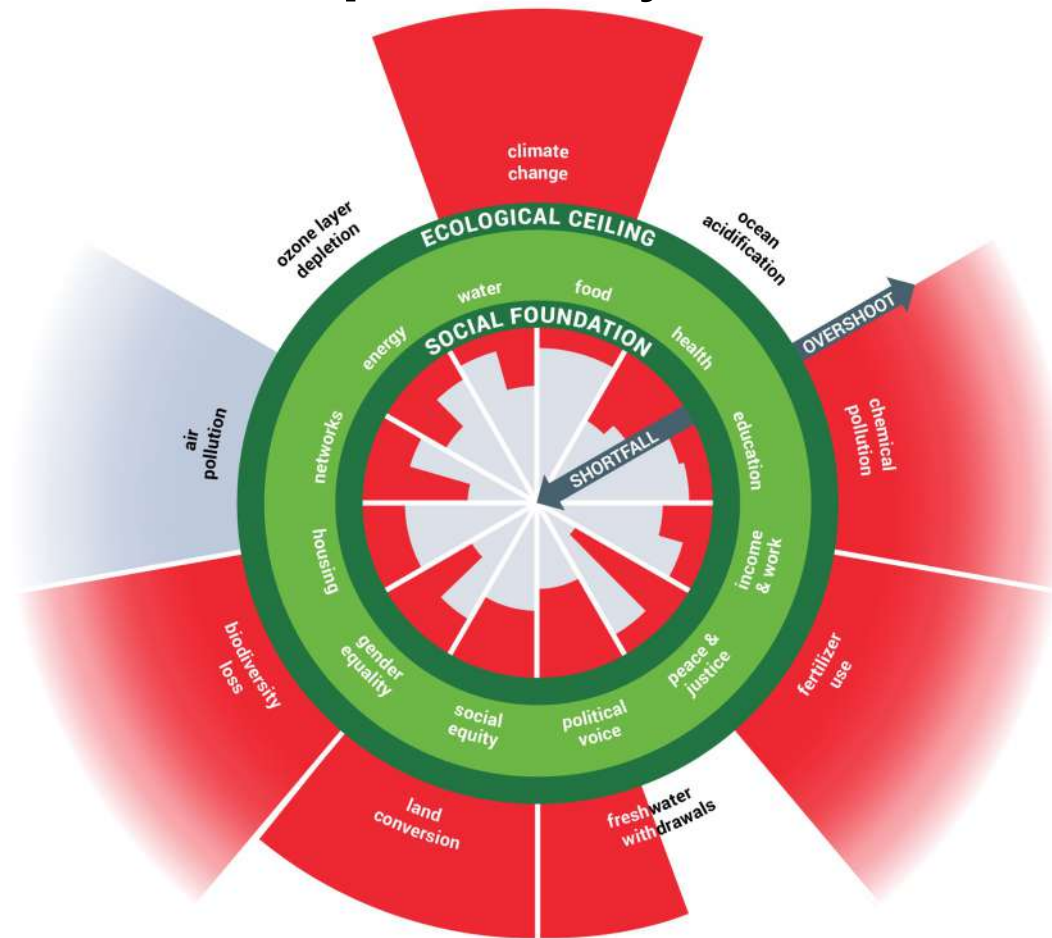
## Cities & Regions



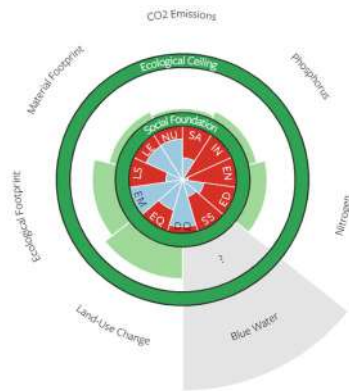
## Government & Policy



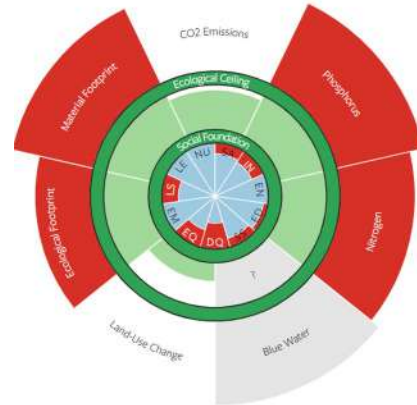
# The world is profoundly out of balance



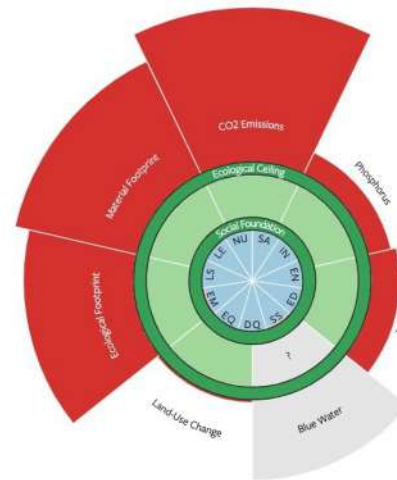
# Every nation must transform



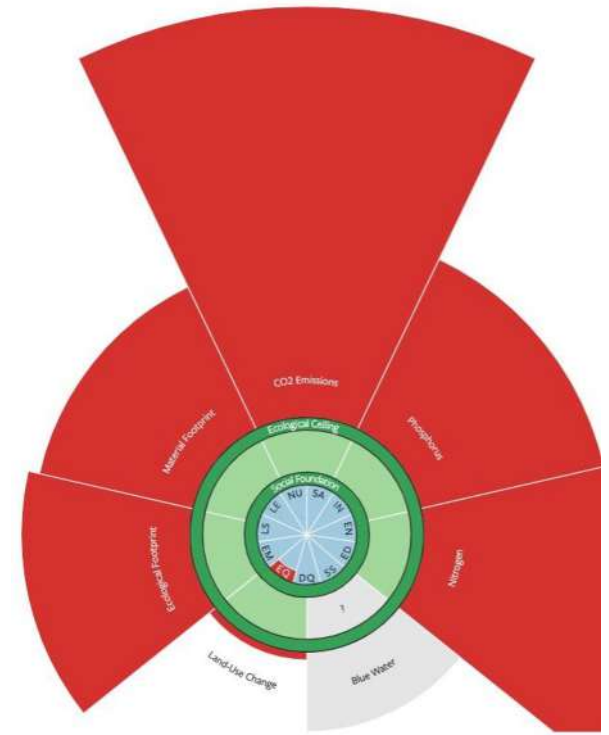
**Malawi**  
\$1,500 pc



**China**  
\$17,200 pc

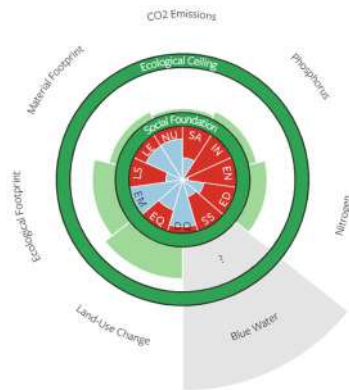


**Netherlands**  
\$63,400 pc

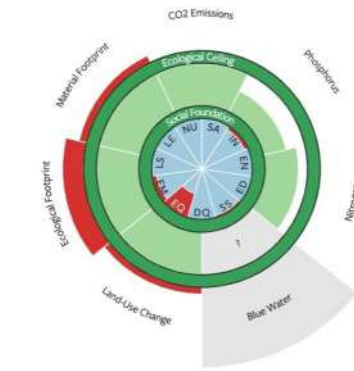


**United States**  
\$64,600 pc GNI

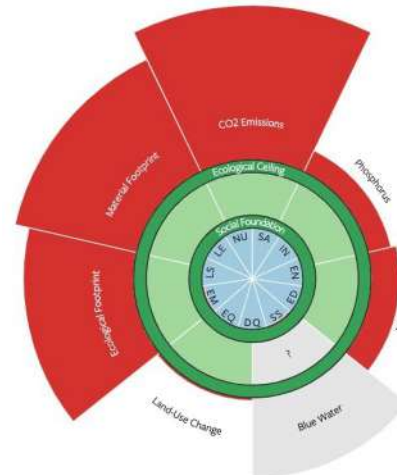
# Every nation must transform



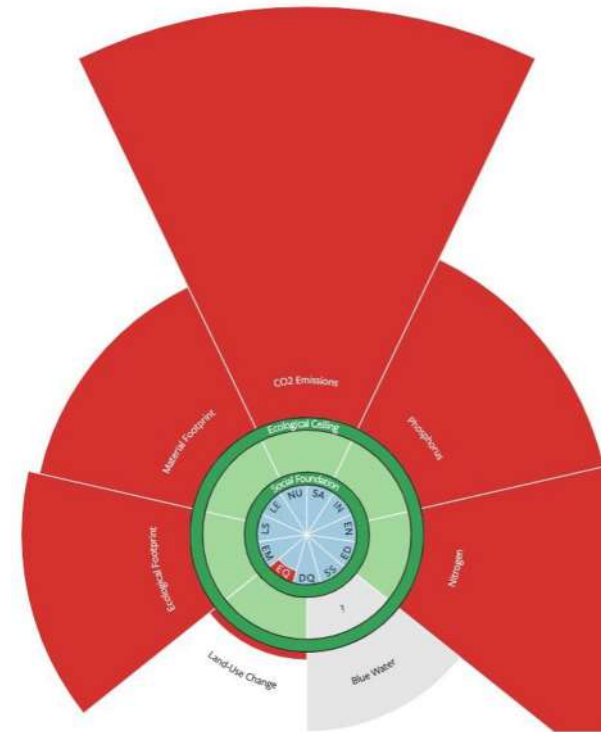
**Malawi**  
\$1,500 pc



**Costa Rica**  
\$21,800 pc



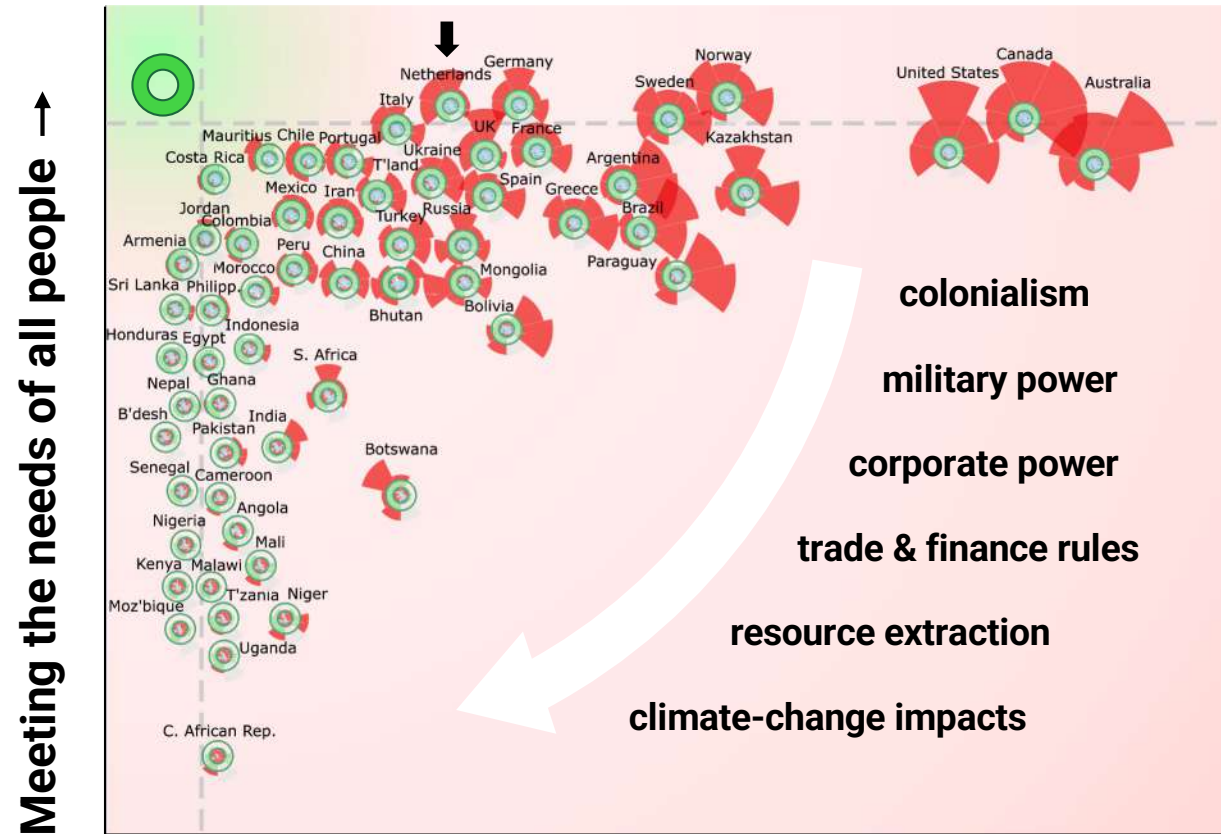
**Netherlands**  
\$63,400 pc



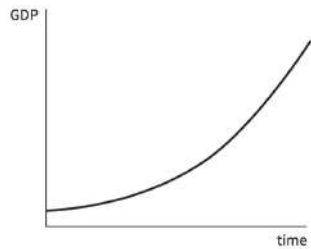
**United States**  
\$64,600 pc GNI



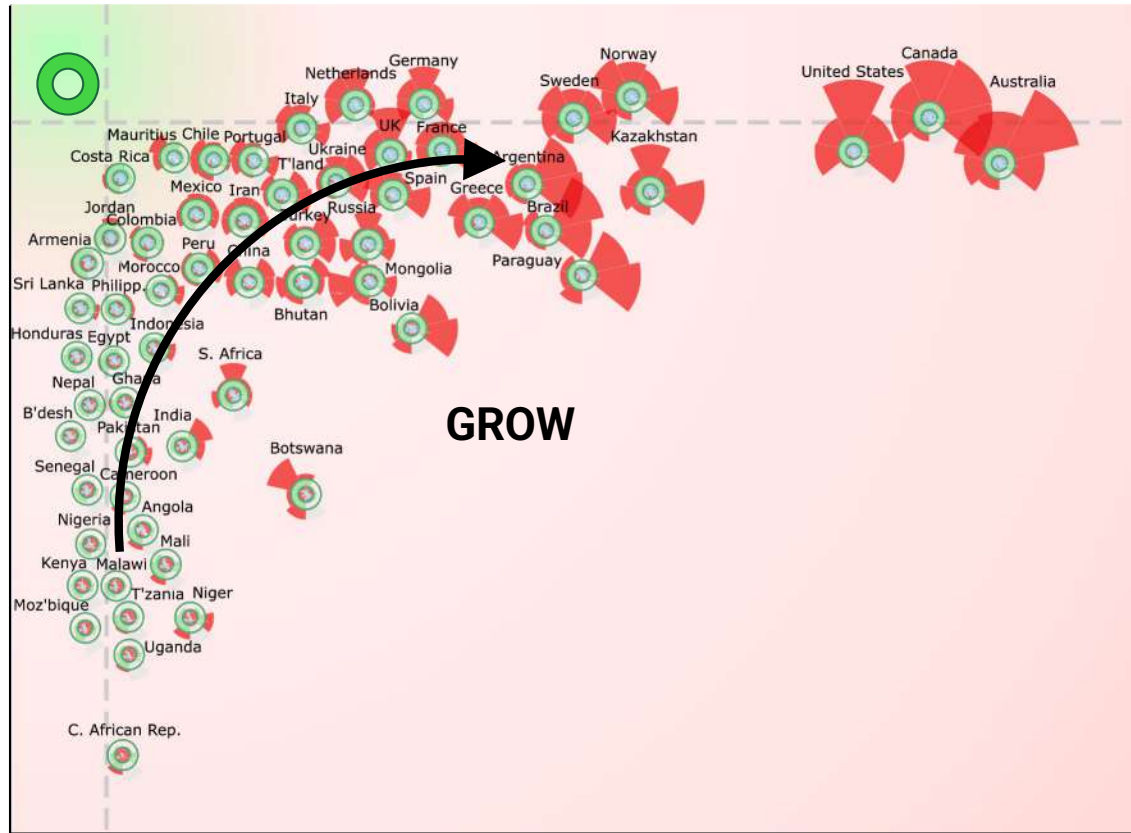
# No nation is living in the Doughnut



# The history of GDP growth

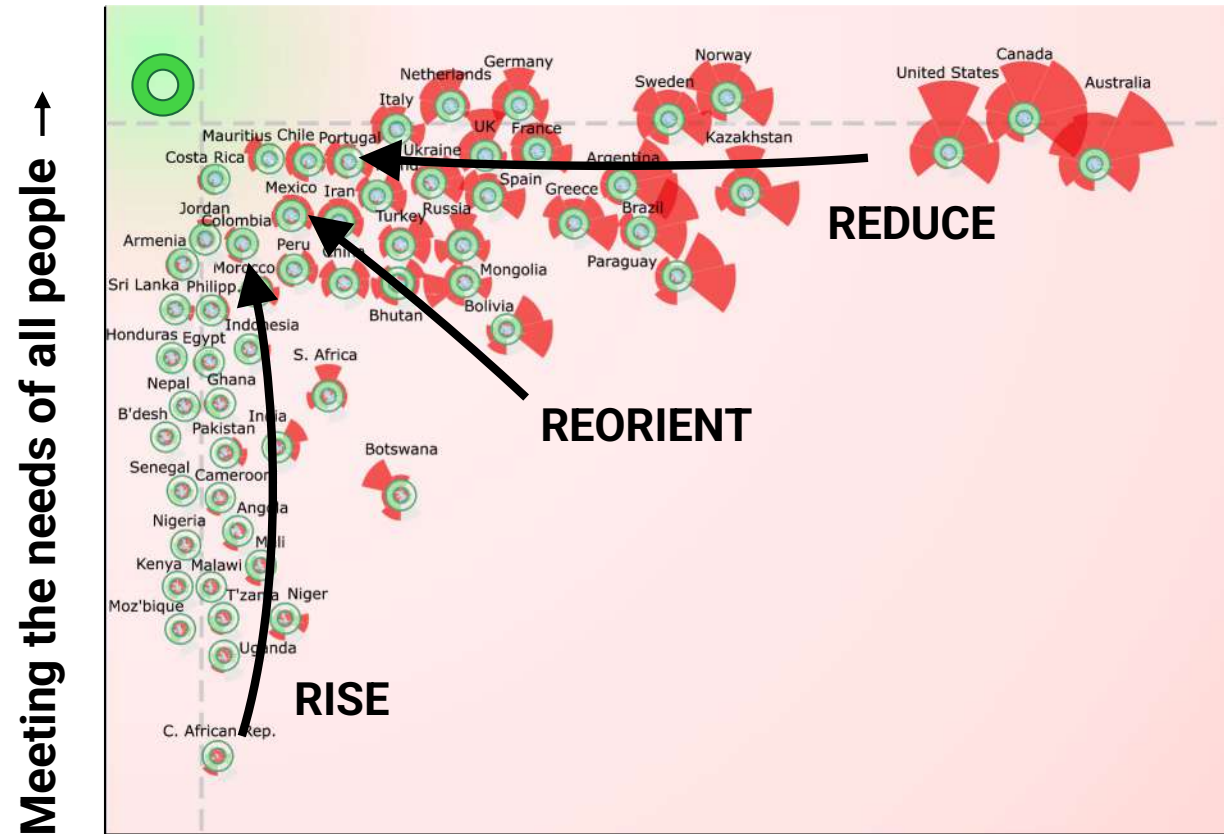


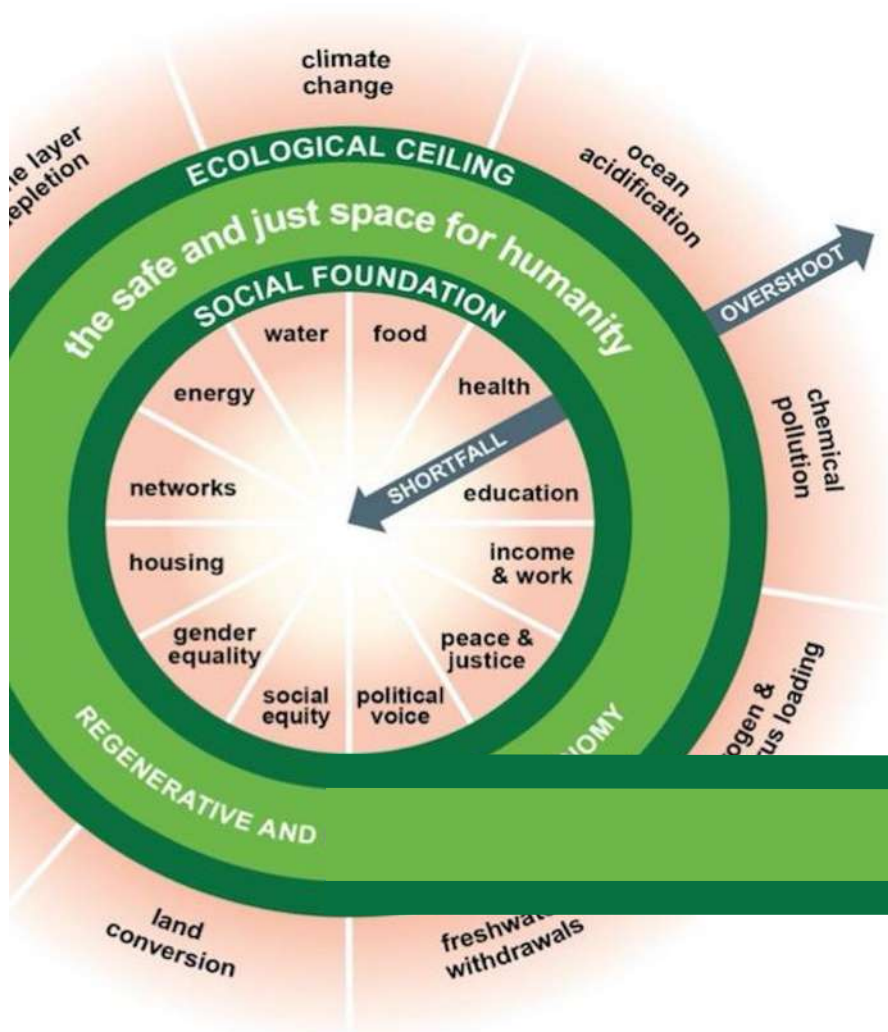
Meeting the needs of all people ↑



← Within the means of the living planet

# The future of planetary prosperity





**What would it mean for the Netherlands to live in the Doughnut?**

**ECOLOGICAL CEILING**

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

 National

 Global

ECOLOGICAL CEILING

2.  
How can the Netherlands be  
as generous as her own nature?

3.  
How can the Netherlands respect  
the health of the whole planet?

.....  
**National aspirations**

.....  
**Global responsibilities**

1.  
How can everyone in  
the Netherlands thrive?

4.  
How can the Netherlands respect  
the wellbeing of people worldwide?

SOCIAL FOUNDATION

**ECOLOGICAL CEILING**

**How can the Netherlands be as generous as her own nature?**

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



**How can the Netherlands respect the whole planet?**

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



**National aspirations**

**Global responsibilities**



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

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

**How can everyone in the Netherlands thrive?**

**How can the Netherlands respect people worldwide?**

**SOCIAL FOUNDATION**



# UNROLL THE DOUGHNUT IN YOUR PLACE!

## ECOLOGICAL CEILING

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

Climate Resilience, Home Accessibility, Green Spaces, Urban Mobility, Nature Integration, Resilient Infrastructure, Solid & Waste Management, Resource Efficiency, Clean Energy, Urban Agriculture, Chemical Pollution, Economic Vitality, Urban Resilience, Land Use, Biodiversity, Air Quality, Green Urban Design

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

Climate Change, Urban Agriculture, Chemical Pollution, Economic Vitality, Urban Resilience, Land Use, Biodiversity, Air Quality, Green Urban Design

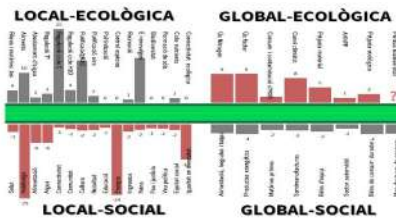
### How can all the people of our city thrive?

Food, Water, Health, Education, Housing, Energy, Connectivity, Mobility, Community, Culture, Income, Social Equality, Political Participation, Peace & Justice

### How can our city respect the wellbeing of all people?

Food, Water, Health, Education, Housing, Energy, Income & Work, Social Equality, Community & Culture, Political Participation, Peace & Justice

## SOCIAL FOUNDATION





# Amsterdam: circular ambition and civic momentum



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

## Social housing projects



## Circular and fair clothing chain



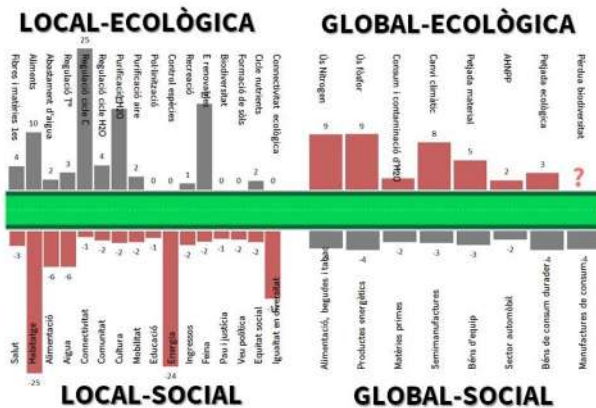
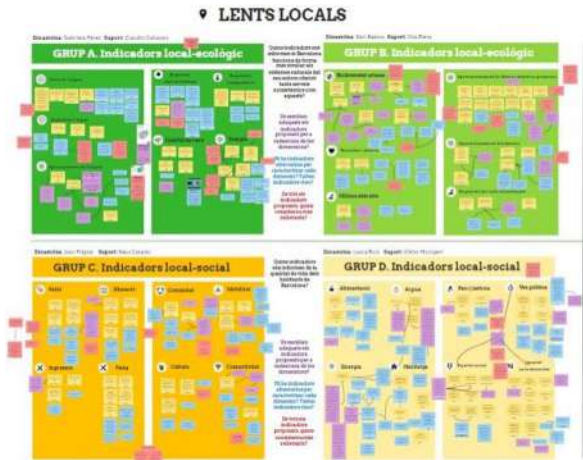
## Doughnut projects originated in first lock down 2020



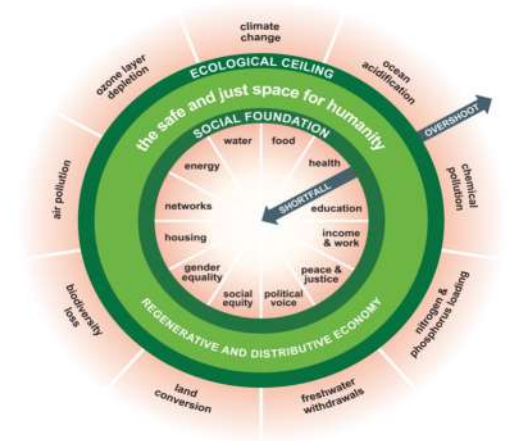
<p><b>Project THE KASKANTINE</b></p> <p>De Kaskantine is a neighborhood farm run by and for Amsterdammers, intended to experiment...</p>	<p><b>Project HOUSING COOPERATIVE DE WARREN</b></p> <p>The group uses its knowledge and experience to realize a housing cooperative for the Amsterdammers of...</p>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



# Barcelona: co-creating a city compass and data monitor



# Bhutan: urban redesign and national planning



## Ipoh, Malaysia: city ambition and state wellbeing strategy



# 2030 PERAK SEJAHTERA



# Oslo: re-imagining possibilities for harbour redevelopment



**DOUGHNUT ECONOMICS**

We promise to share our insights

**OSLO #2**

How to apply Doughnut Economics to Green Urban Transition

Kick-off seminar on Sustainable innovation and transition of urban areas (UCS)

Markus Korpela, NITAU #211  
Perine Solheim, H:V

**OSLO #4**

How to apply Doughnut Economics to Green Urban Transition

Markus Korpela, NITAU #211  
Perine Solheim, H:V

Hvordan oppnå bærekraft med miljø og økonomisk bærekraft i byutvikling?

**DOUGHNUT ECONOMICS #1.2.3**

30. oktober 2021

OSLO #1

OSLO #3

OSLO #5

OSLO #6

OSLO #7

OSLO #8

OSLO #9

OSLO #10

OSLO #11

OSLO #12

OSLO #13

OSLO #14

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OSLO #95

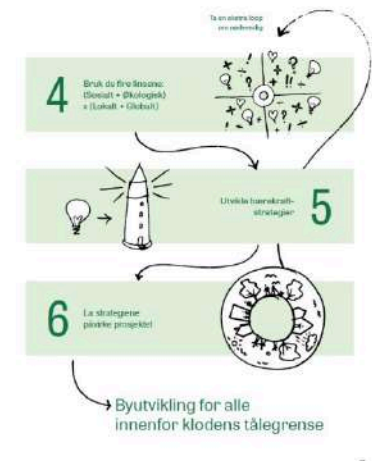
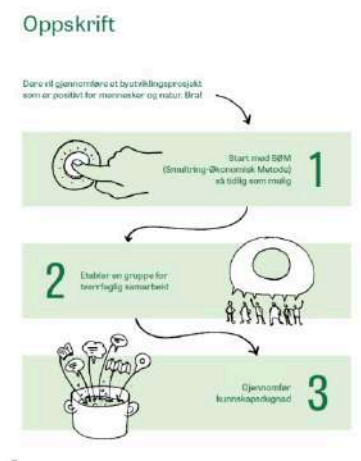
OSLO #96

OSLO #97

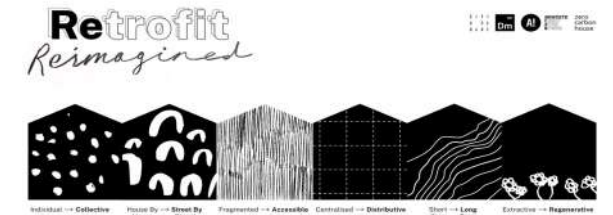
OSLO #98

OSLO #99

OSLO #100



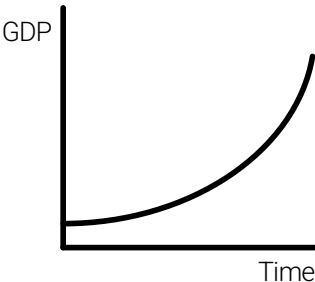
# Birmingham: community-led street retrofit



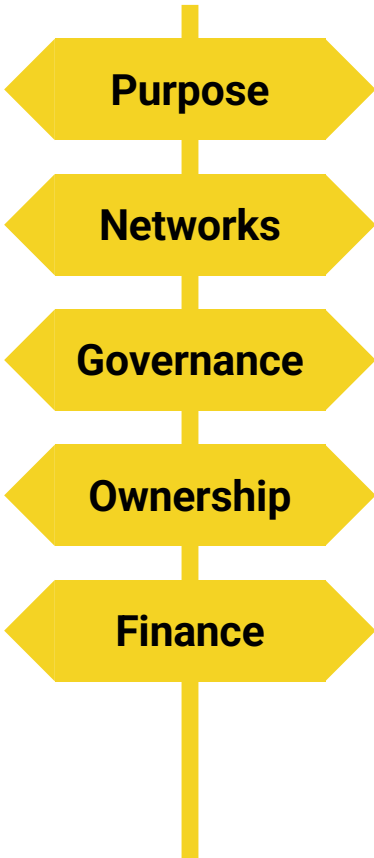
CIVIC SQUARE



# The deep design of cities shapes their direction



aiming  
for growth



aiming  
to thrive

# Cities & regions let's get started

Version 1  
2023

Nine pathways

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



### 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



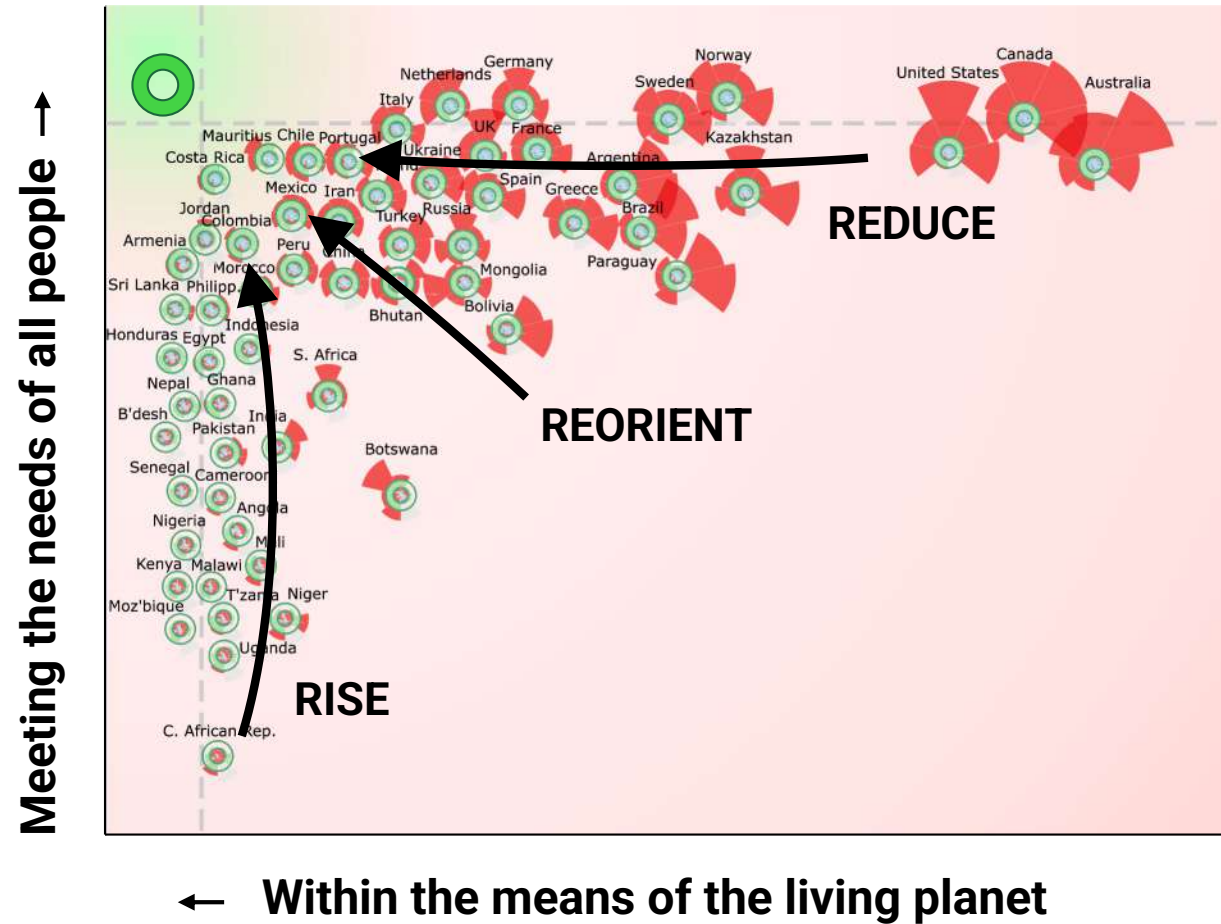
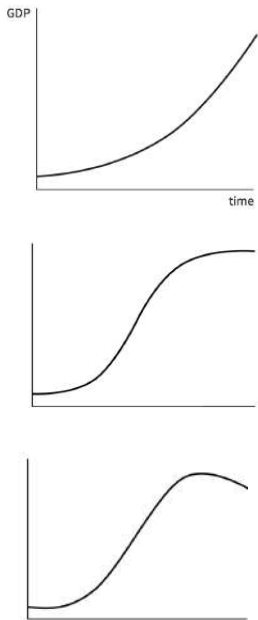


# The future of human prosperity

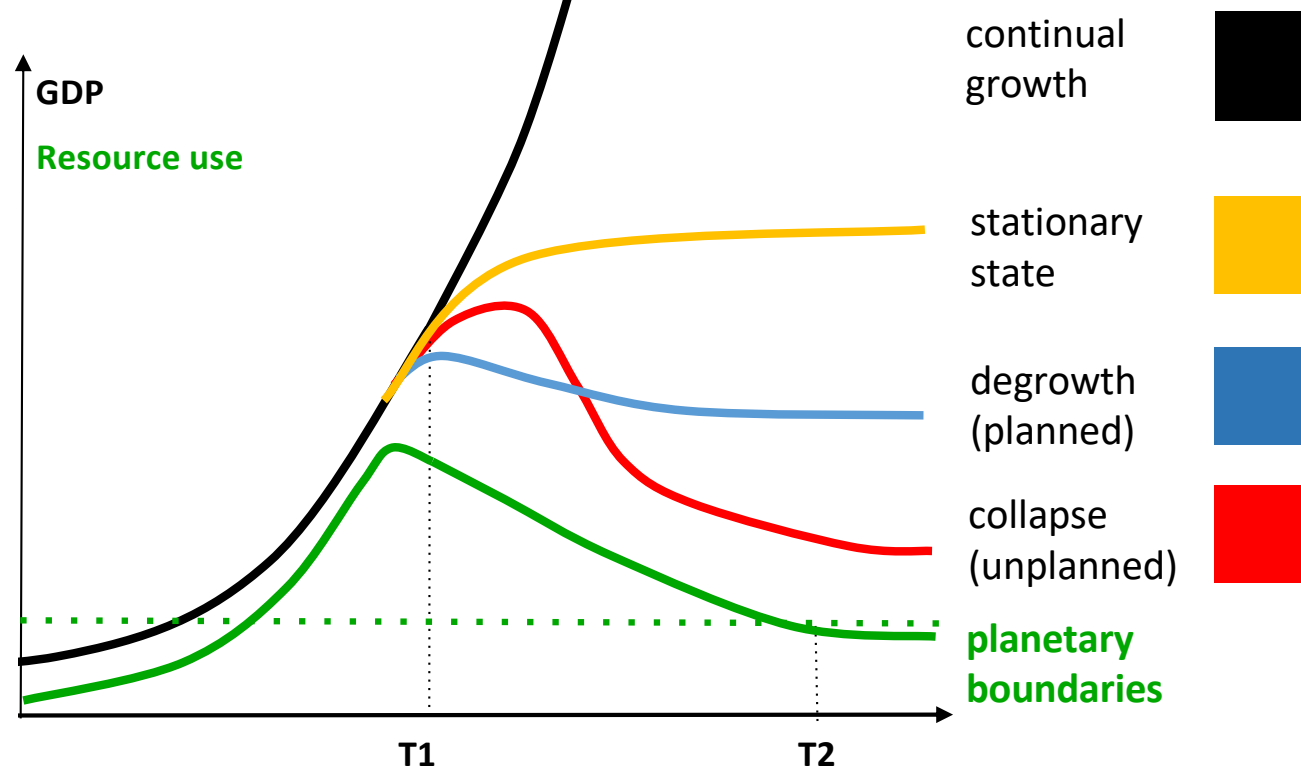


← Within the means of the living planet

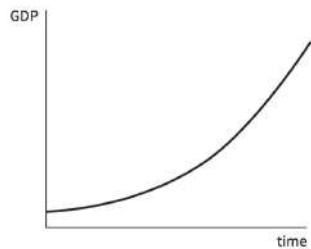
# The future of GDP growth?



# What is the likely GDP pathway for high-income nations aiming to live in the Doughnut?



# 4 financial drivers of GDP growth



Plc firms have fiduciary duty to 'maximize returns to shareholders'



Commercial banks create money as interest-bearing debt

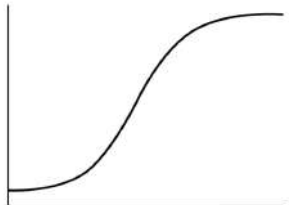


Rising labour productivity requires fewer workers, creates unemployment



Pressure to reduce public and private debt

# 4 ways to end growth dependency



Plc firms have fiduciary duty to 'maximize returns to shareholders'



Commercial banks create money as interest-bearing debt

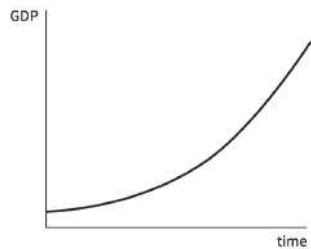


Rising labour productivity requires fewer workers, creates unemployment



Pressures to reduce public and private debt

# 4 social & political drivers of GDP growth



'Making the pie bigger' helps avoid acting on redistribution



Wealth owners capture politics to profit from continual growth

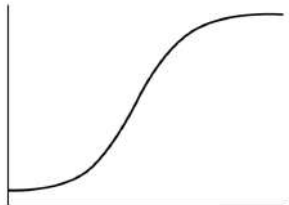


People seek status, meaning & pleasure by buying more stuff



A growing economy helps secure & maintain geopolitical power

# 4 ways to end growth dependency



'Making the pie bigger' helps avoid acting on redistribution



Wealth owners capture politics to profit from continual growth



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# DEPARTMENT OF ECONOMICS

SCHOOL OF HUMANITIES, ARTS  
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