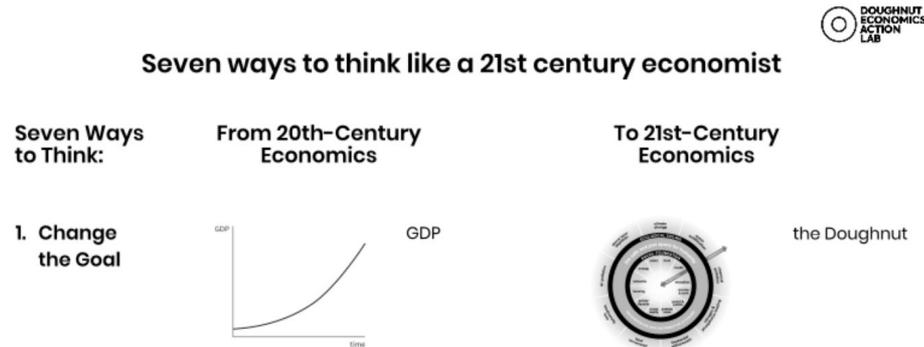

Doughnut Economy

— Alexis, Harsh, Rachel, Sydney, —
Olivia, Vraj

Description

- the Doughnut consists of two rings:
 - Inner ring = social foundation , to ensure that no one is left falling short on life's essentials
 - Outer ring = an ecological ceiling (planetary boundaries), to ensure that humanity does not exhaust life supporting environmental systems
- A doughnut economy doesn't work on building GDP and personal wealth, but instead works on building everyone's social needs and the planets ecological needs, combines social justice with environmental sustainability.



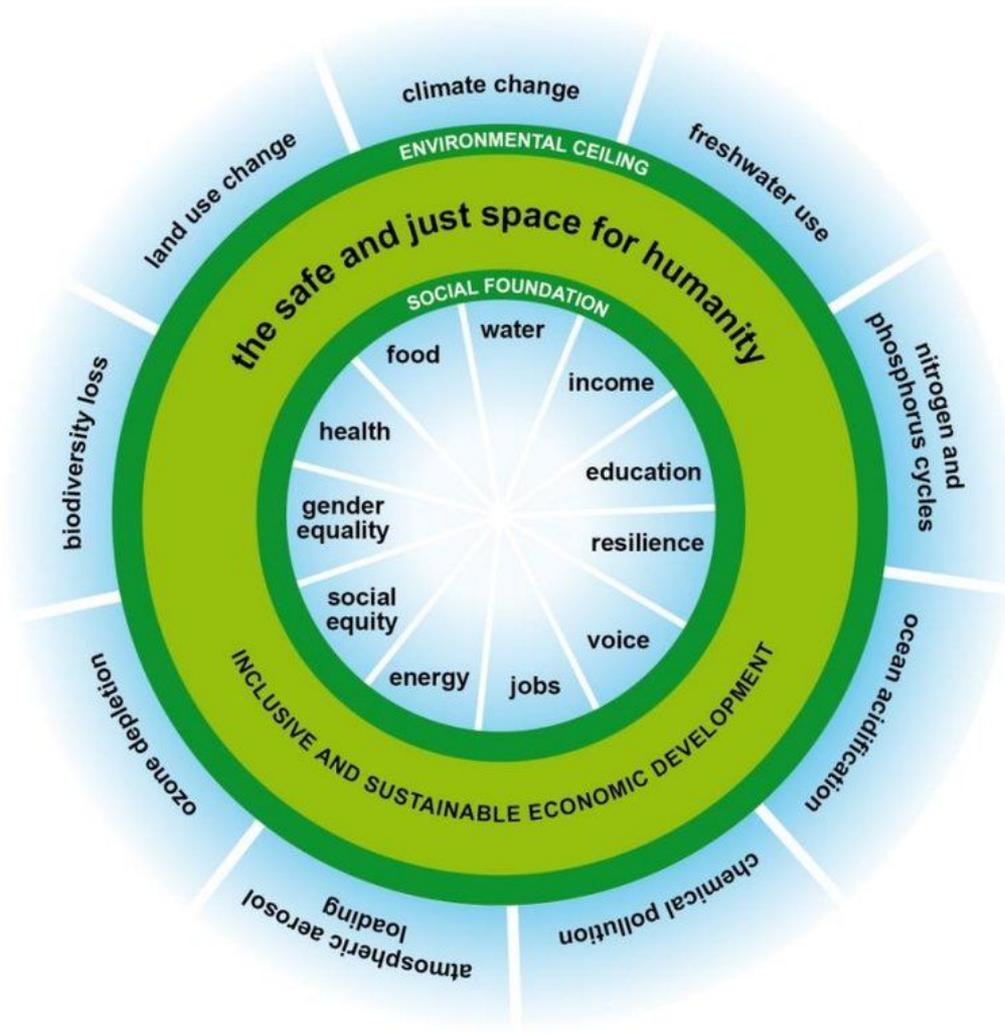
Kate Raworth

Kate Raworth is a modern day economist and the creator of Doughnut Economy. Raworth has completed Bachelor's and Master's degrees from Oxford university and currently working as a senior teaching fellow at Oxford University and the Amsterdam University of Applied Science.

Furthermore she is the Author of international best selling book called "Doughnut Economics: 7 ways to think like a 21st century economist".



<https://www.kateraworth.com/doughnut/>



How it Addresses Sustainability Challenges

The 9 planetary boundaries

To keep Earth hospitable, we need to live within 9 specific limits. Here's how we're doing in 2015.

	BOUNDARY	WHERE WE ARE TODAY
1. Climate change	Atmospheric concentrations of carbon dioxide at no more than 350 ppm	Carbon dioxide levels are at 400 ppm and climbing
2. Lost biodiversity as species become extinct	Maintain 90% of biodiversity	Biodiversity has dropped to 84% in parts of the world such as Africa
3. The addition of phosphorus, nitrogen (and other elements) to the world's crops and ecosystems	Worldwide use per year of about 11 teragrams (Tg) of phosphorus and 62 Tg of nitrogen	Up to about 22 Tg per year of phosphorus and 150 Tg of nitrogen
4. Deforestation and other land use changes	Maintain 75% of the planet's original forests	Down to 62%
5. Emission of aerosols (microscopic particles) into the atmosphere that affect climate and living organisms	Global boundary unknown, but regional effects (such as on the South Asian Monsoon) occur when Aerosol Optical Depth (AOD) is more than 0.25	Up to 0.30 AOD over South Asia, but probably well inside (or below) the boundary over most of the globe
6. Stratospheric ozone depletion	Less than 5% below pre-industrial level of about 290 Dobson Units (DU)	Still safely inside the boundary except over Antarctica during spring, when levels drop to 200 DU
7. Ocean acidification	When the oceans become acidic enough that the minerals sea creatures need to make shells, such as aragonite, begin to dissolve	Still within the boundary, which won't be crossed if we can stay within the climate boundary of 350ppm of CO ₂ in the atmosphere
8. Freshwater use	Can use up to 4000km ³ of freshwater a year	We use around 2600 km ³ of freshwater per year
9. Dumping of organic pollutants, radioactive materials, nanomaterials, micro-plastics, and other novel or man-made substances into the world's environment	Unknown	Unknown

It aims to address the sustainability challenges by not exceeding the nine planetary boundaries, meanwhile satisfying human needs, and maintaining wellbeing.

By not exceeding the 9 planetary boundaries, humanity must stay in the circle; however, if we go towards the inner circle, that will lead towards death due to being short on the essentials of life (BBC Global, 2021,1:16) - Hence the Donut Economy model with the two rings

Its goal is to create a regenerative economy that focuses on sustainability of the earth's resources. This is referenced in the model as an 'ecological ceiling'.

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