

ELLICIENCY

EFFICIENCY

Since 1970, the human population has doubled. We use the planet's resources to live. However, we often use them inefficiently.

The solution

Efficiency is a common sustainability action. It means making the same with fewer resources. Examples are energy-efficient (less energy) or fuelefficient (less fuel). Efficiency can often save money.

Start with an Efficiency question.

Source: IRP (2019). Global Resources Outlook 2019. Paris, France.

NET ZERO

NET ZERO

Greenhouse gases cause climate change. If we don't act, Earth could be 5°C warmer by 2100. This would be very bad because 5°C colder caused an ice age.

The solution

We can slow climate change by releasing fewer greenhouse gases. If we take out as much as we put into the atmosphere, we reach net zero emissions. Earth is already +1.2°C warmer. We need to stop new emissions and take old ones from the atmosphere.

CIRCULARITY

CIRCULARITY

A third of food is thrown away. 60% of fast fashion goes to the bin after one year. We waste a lot of resources.

The solution

When a leaf falls to the ground, it breaks down and feeds other plants. In a circular economy, we also circle resources and keep their value. Businesses can promote circularity through R-strategies, such as Reduce, Reuse, or Recycle.

Sources: Ellen MacArthur Foundation, SUN, McKinsey & Co. (2015). Growth Within: a circular economy vision for a competitive Europe.; McKinsey & Company (2016). Style that's sustainable: A new fast fashion formula.

SUFFICIENCY

SUFFICIENCY

If everyone lived like a U.S. citizen, we would need 5 planets. But the average Indian lifestyle only uses 0.8. While many live in poverty, others consume too much.

The solution

Sufficiency means a good life for all with the resources we have. We use more than Earth can renew, so we need to consume less and distribute more fairly. Business can offer sustainable options and focus on what people really need.

Source: National Footprint and Biocapacity Accounts 2022 (n.d.). How many Earths?

REGENERATION

REGENERATION

Since 1970, we lost 70% of our wildlife populations. In Europe, air pollution kills over 1,200 children every year. We damage nature and suffer ourselves.

The solution

Companies and humans are part of nature and need a healthy planet. Regenerative business has products and services that do not only make things less bad but make them better for people and nature.

Sources: European Environment Agency (24.04.2023). Air pollution and children's health.; Konietzko, J., Das, A., & Bocken, N. (2023). Towards regenerative business models: A necessary shift?. Sustainable Production and Consumption.; WWF, 2022. In: Almond, R.E.A., Grooten, M., Juffe Bignoli, D., Petersen, T. (Eds.), Living Planet Report 2022 – Building a Nature-Positive Society. WWF, Gland, Switzerland.

FLOURISHING

FLOURISHING

You followed the path to flourishing. Academic John Ehrenfeld said companies need to work for "the possibility that humans and other life will flourish on Earth forever".

All levels you crossed are important for business action. While some might be easier, the more difficult changes often have the most important impact.

How will you work towards flourishing?

use more fuel. This is a...? but then I drive more and I buy a fuel-efficient car Bounce back

b) Rebound

Retrace

Rebound

efficient car needs less fuel, so it is cheaper and often used more. leads to more resource use. A tuel-With a rebound, more efficiency

Source: Greening, L. A., Greene, D. L., & Difiglio, C. (2000). Energy efficiency and consumption—the rebound effect—a survey. Energy policy, 28(6-7), 389-401.

Efficiency

Zimbabwe is inspired Eastgate building in The energy-efficient

b) Fish eggs a) Termite hills

Eagle nests

Efficiency

a) Termite hills

of air-conditioning. natural ventilation tunnels instead The building is cooled through

Source: Arup (n.d.). How nature can inspire us to create more resilient buildings.

company "Ecoworks" add Where does German insulation to houses?

- Inside the walls
- Outside the walls
- Above the house
- Outside the walls

outside of old houses. This makes They fit insulation panels onto the retrofitting easier and saves energy.

Efficiency

b) Role playsc) Treasure hunts a) Picnics and water with staff... Electric" saves energy US business "General

C Treasure hunts

Efficiency

areas for savings grounds look at processes and find hunt, staff with different back-GE has hosted well over 200. At the

Source: United States Environmental Protection Agency (n.d.). GE & Universal Studies Hollywood – The Treasure

Source: ecoworks (n.d.)

false? globally were employed in making buildings efficient the gas sector than in (retrofits & heat pumps). Is this statement true or In 2019, more people

False

worldwide working on it. with over 4 million people more labour-intensive than gas, Energy efficiency in buildings is

Source: IEA (2022). World Energy Employment, IEA, Paris

energy-efficiency? sold in the EU were In 2017, how many fridges labelled A+ or higher for

- a) 60%b) 90%c) 100%

90%

updating their product offer. efficient products, so businesses are European customers prefer energy-

Source: European Commission (n.d.). About the energy label and ecodesign.

Efficiency

a) Falcon "Lufthansa" plane coating for more efficient flying? Which animal inspired a

- b) Cheetahc) Shark
- c) Shark

Efficiency

drag. This saves fuel coating called Aeroshark that imitates shark skin and decreases Lufthansa and BASF developed a

Source: Lufthansa Technik (n.d.). Aeroshark

conservation projects at In 2022, most energy

- "IBM" focused on ...?
- a) IT serversb) Heatingc) Lights
- a) IT servers

Efficiency

efficiency these savings came from server projects, saving \$9.5 million. 64% of IBM realised over 500 conservation

Source: IBM (2023), IBM 2022 ESG Report

Efficiency

cars, what do we mean? If we talk about efficient

- Time efficient
- Water efficient
- Fuel efficient
- c Fuel efficient

same distance. Engines now are bigger and need more fuel more efficient but cars are built Efficient cars need less fuel for the

Source: Hu, K., & Chen, Y. (2016). Technological growth of fuel efficiency in European automobile market 1975–2015. Energy

Efficiency

turns off electronics in "Measurable.energy" false? people's homes. UK company Is this statement true or

True

Efficiency

off if they are not needed that monitor devices and turn them The company sells smart sockets

Source: measurable.energy (n.d.)

false? Is this statement true or

bubbles turning laundry soap into machines save energy by New "Samsung" washing

uses less energy absorbed quicker and the machine turn soap into bubbles, so it is Some Samsung washing machines

Source: Samsung (26.07.2022). Samsung announces global launch of bespoke Al washer and dryer delivering smart and

sustainable solutions for laundry day.

Efficiency

system is known as...? Toyota's manufacturing

- a) Clean
- Lean Mean

೦ Lean

Efficiency

efficiency. production is known for its high needed, when it is needed. Their Toyota relies on only making what is

Source: Toyota (n.d.). Toyota Production System

a) 10% efficient LEDs? 2022 were energylights sold worldwide in How many residential

- b) 30%c) 50%

sold used LED technology. LEDs Around half of the residential lights replace less efficient lighting.

Source: International Energy Agency (n.d.). Lighting.

10

Efficiency c) 23 hours a day

a) 3 b) 13 c) 23 hours a day

England is parked...? An average car in

support car-sharing to use them time. In response, companies Cars are not driven most of the

Source: Nagler, E. (2021). Standing Still. RAC Foundation.

Efficiency

1.0

grows tomatoes more water-efficiently with... US business "AppHarvest"

- Precision farming
- Modified plants
- Thinner water pipes
- Precision farming

precision farming saves 90% of rainwater for its plants. Its indoor AppHarvest collects and filters

Source: AppHarvest (n.d.).

1.0

Efficiency

a) China

a) China b) Japan c) US

buildings have an average

Where do residential

lifespan of only 25 years?

after 25 years in China, after 40 in Buildings are torn down on average

with buildings, vehicles, and electronics—a review. Environ. strategies to reducing greenhouse gas emissions associated Source: Hertwich, E.G., et al., (2019). Material efficiency

Efficiency

Japan and after 60 in the US

1.0

for UK company "Q-Bot"? Who insulates old houses Qualified plumbers

Monkeys Robots

These robots spray insulation Insulated houses need less heating material under wood floors

and reduce costs.

Source: Q-Bot (n.d.).

5

Efficiency

a) Build a car only for efficiency means to... To lightweight a car for

- 5 Use less material to light-weight people
- C Remove the lamps build it

Efficiency

ੲ Use less material to build it

they need less fuel to drive. This makes cars lighter and means

Panel. United Nations Environment Programme, Nairobi Material Efficiency Strategies for a Low-Carbon Future. Source: IRP (2020). Resource Efficiency and Climate Change: Hertwich, E. et al., A report of the International Resource

5

People often use lamps talse? Is this statement true or less after installing

energy-efficient lights

False

they are cheaper, so people often reduce emissions and costs. But use them more. LED lights need less energy, so they

Efficiency

false? run on a colder air conditioners should government decided that temperature In 2019, the Indian Is this statement true or

False

electricity. of 20°. This can save 20% of default temperature of 24°C instead ACs sold in India have a higher

degrees as the default temperature for ACs: What does this Source: Hindustan Times (18.01.2020). Govt has mandated 24 mean and how will it affect you.

Efficiency

1.0

Source: IEA (2022). Energy Efficiency. IEA, Paris

1.0

works towards net zero Insurance firm "Swiss Re"

- a) Refusing insurance for new oil fields
- b) Reducing flightc) Insuring trees Reducing flights
- a) Refusing insurance for new oil

gas projects in 2023 The business stopped insurance cover and investment in new oil and

Source: Swiss Re (12.10.2023). New underwriting targets supporting Swiss Re's journey to net zero.

 a) All emissions ever store 0.2% of ...? storage projects can built) carbon capture and All planned (but not yet

- b) Emissions from 10 years
- c) Emissions from 1 year

Net zero

Net zero

Emissions from 1 year

technologies are still inadequate carbon to stop climate change, but Many want to capture and store

Source: Honegger, M. (2023). Toward the effective and fair funding of CO2 removal technologies. Nat Commun 14, 534.

Eleven" support How does U.S. store "7-

- sustainable mobility? a) Electric car charging
- network
- 9 gas stations No petrol sold at its
- C Deliveries by bike

Electric car charging network

In 2023, 7-Eleven said that it would

Source: Gorzelany, J. (20.03.23). Why Charging An Electric Car Will Soon Come With A Slurpee, Forbes. powered with 100% green electricity add charging points to many stores,

Net zero

electric cars by 2035 wants to only produce false? Car manufacturer "Audi" Is this statement true or

True

electric cars in 2033, moving to only electric cars. Audi plans to stop making non-

transformation. Source: Audi (25.08.21). "Vorsprung 2030": Audi accelerating

emissions? from Oman store carbon How does business "4401"

- a) Plant trees in the desert
- b) Turn CO2 into a mineral
- C Pump CO₂ into the ocean
- b) Turn CO₂ into a mineral

turns it into a new mineral perodite that reacts with it and underground into the mineral The company pumps CO₂

Source: 4401 (n.d.).

Net zero

comes from ...? "Unilever" products climate footprint of Around two-thirds of the

- a) Production b) Transport
- c) Consumer use

Net zero

c) Consumer use

scope 3 emissions by 2030. soap. The firm wants to halve those such as doing laundry with Unilever Most emissions come from use,

Source: Unitever (n.d.). Reducing emissions from the use of

Is this statement true or

businesses communities and to be owned by local renewable energy plants wants 50% of new The Dutch government

renewable infrastructure like wind locals should be able to co-own To make the energy transition equal,

Source: Government of the Netherlands (2019). Climate Agreement.

Net zero a) Waste b) Emissions c) Travel times reduce their world tour ...? partnered with "DHL" to British band Coldplay

b) Emissions

ones. DHL helped with low-carbon logistics. fewer CO₂ emissions than previous Their 2022 World Tour produced 47%

Source: Coldplay (02.06.2023). Emissions Update.

Some farmers protect their crops and create extra income with...?

- a) Solar panels
- b) Small nuclear plants
- c) Windmills

a) Solar panels

These panels create extra income and shield crops from the sun and extreme weather, like hail.

Source: Petroni, A. (24.04.23). The Italian farmers saving an ancient fruit with solar power. BBC.

Net zero

What is usually not considered renewable energy?

a) Solar energy

- b) Nuclear energy
- c) Geothermal er
- c) Geothermal energy
- b) Nuclear energy

Net zero

It produces few emissions but the material for nuclear energy (usually uranium) is not renewable.

Source: IEA (2019). Nuclear Power in a Clean Energy System. IEA, Paris.

Is this statement true or false?

There is only one greenhouse gas that needs to be reduced to stop climate change.

False

Greenhouse gases trap heat that would go into space and send it back to Earth. One gas is CO₂, but there are others, such as methane

Source: IPCC (2013). Climate Change 2013: The Physical Science Basis. Cambridge University Press, Cambridge United Kingdom and New York, NY, USA.

Net zero

67% of Americans think business action on climate change is...? a) Too much b) Enough c) Not enough

c) Not enough

67% thought business was doing too little. 21% thought it was enough and 10% it was too much.

Source: Pew Research Centre (18.04.2023). What the data says about Americans' views of climate change.

a) Volvo climate issues? the European car Who threatened to leave manufacturing lobby over

- Mercedes-Benz
- Renault
- Volvo

zero ambitions were stronger than lobby group because its own net-In 2022, Volvo wanted to leave the

2020? most renewable energy in Which country produced

- a) US b) China c) India

b) China

Net zero

to power 412 million Chinese million gigawatts per hour, enough It had a renewables capacity of 2.2

Country Rankings.; Statista (n.d.). Annual per capita electricity consumption in China from 2009 to 2020. Source: International Renewable Energy Agency (n.d.).

6

How much of Costa Rica's

Net zero

Source: Carey, N. (08.07.2022). Volvo Cars to leave ACEA car lobby group over climate goals. Reuters.

climate change, who would lose the most GDP If we do not act on

- by 2050?
 a) US
 b) France
 c) China
- 0

France 13% and the US 10% hit hardest by climate change. Asian countries are predicted to be China could lose 24% of its GDP

to lose up to 18% GDP from climate change if no action taken, reveals Swiss Re Institute's stress-test analysis Source: Swiss Re Institute (22.04.2021). World economy set

10

Net zero

a) 10% b) 50% c) 99% 2020? electricity came from renewable sources in

C 99%

like hydro, geothermal and wind electricity on renewable sources The country ran almost all of its

Source: ICE (2021). Costa Rica: Matriz eléctrica

5

 a) Street maps "Roam" offer customers What does company in Kenya?

Electric motorcycles and busses

C Safe cycling lanes

a) Electric motorcycles and busses

solar PV panels to charge them. Roam sells electric vehicles and

Source: Roam (n.d.).

1.0

Net zero

 a) Greta Thunberg habits because of... up more sustainable 30% of Swiss people took

b) Leonardo di Caprio

Roger Federer

a) Greta Thunberg

Net zero

many Swiss people change. school strike. Her example made She started the Fridays for Future

Switzerland. Sustainability Science, 1-26. Source: Fritz, L., Hansmann, R., Dalimier, B., & Binder, C. R. (2023). Perceived impacts of the Fridays for Future climate movement on environmental concern and behaviour in

6

has the highest potential Which renewable energy in Africa?

- Wind energy
- Hydropower
- Solar power
- C Solar power

and 460 GW of wind of solar PV, 1,500 GW of hydropower for renewables: 7,900 gigawatt (GW) The continent has large potential

Africa and its Regions. Source: IRENA (2022). Renewable Energy Market Analysis:

10

Net zero

a) Delhi (India)

a) Delhi (India)

people use bicycles most?

In which of these cities do

c) London (UK)

Montreal (Canada)

are made by bike, while in Delhi, Amsterdam has 28% cycling. this is almost 5%. Bike-friendly In London and Montreal, 2% of trips

81, DOI: 10.1080/01441647.2021.1915898 for what purpose, and how far?, Transport Reviews, 42:1, 58-Source: Goel, R. et al. (2022). Cycling behaviour in 17 countries across 6 continents: levels of cycling, who cycles.

5

affordable to low-income "BOSCH" makes its households by...? washing machines

- a) Renting them out
- Reducing the quality
- Using recycled water
- Renting them out

rent out its machines at low prices. works with a social enterprise to In a project in Belgium, Bosch

Source: Bosch (n.d.). Circular Economy Meets Social Commitment – The Papillon Project.

Circularity

 a) Recyclable cups packaging waste with...? "RECUP" reduces German business

- Biodegradable cups
- Reusable cups

Reusable cups

Circularity

returned, cleaned and reused charge on the packaging, so it is a deposit system. Businesses add RECUP offers reusable packaging in

Source: RECUP (n.d.).

How much of a "BMW"

- recycled materials? vehicle is made from

- a) 10% b) 30% c) 50%

BMW used around 30% recycled and

reused materials in 2023 and aims

Source: BMW (n.d.). Circular economy: sustainable into year 2040.

Circularity

refurbish and resell...? business "Philips" not What does Dutch

- a) X-ray machinesb) Light bulbsc) Coffee machines
- Coffee machines

b) Light bulbs

These are cheaper but still covered refurbishes many of its products To keep things in use, Philips

Source: Philips (n.d.). Refurbished Editions.; Philips (n.d.). Refurbished Medical Equipment.

their...? repair clothing through UK business "Sojo" helps

- a) Video tutorials
- b) Repair 'delivery' service
- ೦ Free needles
- Repair 'delivery' service

collected, repaired and brought through the Sojo app. The item is Customers can book a repair

Source: Sojo (n.d.).

Circularity

of R-strategies? What is the priority order

- a) Reuse, Recycle, Reduceb) Recycle, Reduce, Reuse
- c) Reduce, Reuse, Recycle

Reduce, Reuse, Recycle

Circularity

and only then recycle. energy, raw materials), then reuse, It is best to reduce inputs (e.g.

Conceptualizing the Circular Economy: An Analysis of 114 Definitions. SSRN Electronic Journal, 127. Source: Kirchherr, J., Reike, D., & Hekkert, M. P. (2017)

In 2023, "Pringles" went

talse? Is this statement true or

circular economy by track to having a fully The Netherlands is on

is not progressing enough. The country wants to be fully

circular but a 2023 review showed it

Circularity

circular by making...? b) Its chips reusablec) Its chips from waste a) Its packaging more recyclable

a) Its packaging more recyclable

better recycling metal in its tube with paper for Pringles has started to replace the

Source: Roesken, T. (03.05.2023). Pringle-bus verlies! metalen bodem en kan straks bij oud papier

ocean? Cleanup" take out of the profit "The Ocean What does Dutch non-

- a) Plastic b) Salt c) CO₂

in the ocean and in rivers. pollution in oceans. It collects waste The Ocean Cleanup fights plastic

Source: The Ocean Cleanup (n.d.).

Circularity a) Kitchen-as-a-serviceb) Hair brush-as-ac) Light-as-a-service service

Which is not yet a circular

b) Hair brush-as-a-service

Circularity

producer owns, repairs and product is rented out but the Circular services mean that the replaces it

Source: Circular X (n.d.). Cases

was circular in 2023? world's material flows What percentage of the

- a) 7%b) 22%c) 58%

is less than in 2020 because we Of all material used, only 7.2%

extracted more virgin resources circled back into the economy. This

Source: Circle Economy (2024). Circularity Gap Report 2024.

Circularity that is ...? If one business uses

a) Parasite cooperationb) Work collaboration another firm's byc) Industrial symbiosis products as raw material,

c) Industrial symbiosis

chemical companies can use water as new raw materials. For example from paper mills. Firms use by-products and waste

(2020). A comprehensive review of industrial symbiosis Source: Neves, A., Godina, R., Azevedo, S. G., & Matias, J. C. Journal of Cleaner Production, 247, 119113

false? All materials can be their use time. composted at the end of Is this statement true or

False

used as long as possible. (e.g., metals) cannot and should be composted, but non-biological ones Biological materials can be

Source: Ellen MacArthur Foundation (n.d.). The Butterfly Diagram.

Circularity

enterprise "Daravi"? Argentinian social Who upcycles waste in Children

- Businessmen
- Local women
- c) Local women

Circularity

prioritize women to give them work. fabric, to make new items. They Daravi uses waste material, like

Source: Daravi (n.d.).

false? Is this statement true or

toys to children Repair" sends broken **UK business "Team**

for the next child to repair. play with them and send them back teach repair. Children fix the toys, Team Repair sends toy boxes to

Circularity

a) iPhonesb) Tesla carsc) Barbie dolls refurbishes...? "WeFix" repairs and South African business Barbie dolls

a) iPhones

electronics, including iPhones. Since devices. 2006, they resold over 1 million WeFix repairs and resells

Source: WeFix (n.d.).

Circularity

Source: Team Repair (n.d.). Team Repair.

machines that sell...? Chile has vending Company "Algramo" from Oranges

- b) Packaging-free items
- Recycled water
- Packaging-free items

amount needed. machine fills them with the exact bring their reusable boxes and the Algramo sells 'by the gram'. People

Circularity

over 50 years construction equipment for offered refurbished U.S. firm "Caterpillar" has false? Is this statement true or

True

equipment refurbishing and reselling Caterpillar's remanufacturing (Cat Reman) was set up in 1973,

Source: CAT (n.d.).CAT Reman.

What is not a circular R-

Circularity

area "Park 20|20" were Houses in Dutch business built to be...?

Source: Algramo (n.d.).

- a) Taken apart easily
- b) Compostedc) Flooded by the sea
- Taken apart easily

taken apart, so that parts can be Park 20|20 buildings can easily be

Circularity

b) Repurposec) React strategy: a) Refurbish

C React

are strategies that cycle resources and keep their value Reacting is not an R-strategy. Those

Source: Kirchherr, J., Reike, D., & Hekkert, M. P. (2017) Definitions, SSRN Electronic Journal, 127. Conceptualizing the Circular Economy: An Analysis of 114

..

from...? Garbage Patch comes Most of the Great Pacific

- a) Plastic bottles
- b) The fishing industry
- Destruction from the 2011 tsunami
- The fishing industry

the tsunami that hit Japan. of the waste can be traced back to fishing, such as nets. Another 20% Most of the plastic comes from

Patch is now so huge and permanent that a coastal Source: Kottasová, I. (18.04.2023). The Great Pacific Garbage

ecosystem is thriving on it, scientists say. CNN.

10

Circularity

are filled with ...? offers mystery bags that Business "Too Good to Go" Unsold food

- Money Fast-fashion vouchers

a) Unsold food

businesses sell bags with food that Too Good to Go is an app that helps

has not been sold

10

Circularity

Source: Circular X (n.d.). Cases

from unwanted fruits? "The Ugly Company" make What does US business

- Face cream
- Snacks
- Clothing

dried fruit snacks The Ugly Company takes fruits that

cannot be sold and turns them into

5

Source: The Ugly Company (n.d.).

a) A cigarette filterb) A credit cardc) A bottle cap accidentally consumes as much plastic as there is Every week, each person

- b) A credit card

Circularity

water and swallowed by humans microplastics are washed into our Tiny plastic particles called

of microplastics ingested-A pivotal first step towards M., Wilson, S., & Palanisami, T. (2021). Estimation of the mass Materials, 404, 124004 Source: Senathirajah, K., Attwood, S., Bhagwat, G., Carbery, human health risk assessment. Journal of Hazardous

Circularity

..

and also...? Centre" mends clothes Dutch "United Repair Runs an art gallery

- b) Makes fast fashion
- Trains job seekers
- Trains job seekers

They train and hire job seekers. clothes for brands like Patagonia. United Repair Centre repairs

Source: United Repair Centre (n.d.).

10

Circularity

a) Israel wastewater? over 80% of its Which country reuses

- b) Sudanc) Mexico
- a) Israel

Circularity

after treatment flowing into larger water bodies agriculture or industry rather than Wastewater is reused for

Source: Government of Israel Ministry of Health (n.d.). Sewage and Treated Wastewater.

10

"Bionicraft" turns food Taiwanese business

waste into...?

bags?

banned single-use plastic

Which country first

- a) Water bottlesb) Plant potsc) Bicycles

Plant pots

waste and compostable. It can be planted straight into soil with the The Alphapot is made from food

Source: Bionicraft (n.d.). Alphapot.

5

Circularity

a) Canada b) Kenya c) Zimbabwe Kenya

banned some plastic food banned them in 2020 and Zimbabwe containers It banned them in 2017. Canada

Circularity

more, this is what's happening with single-use plastics Source: Masterson, V. (26.10.2020). As Canada bans bags and

..

saved CO₂ emissions by...? The retrofit of Sydney's Quay Quarter Tower

- a) Adding solar windowsb) Planting indoor treesc) Reusing the old walls
- Reusing the old walls

Sydney to Melbourne. and core. This saved emissions worth nearly 70,000 flights from The new tower kept 98% of the walls

Source: Arup (n.d.). Quay Quarter Tower's sustainable building design saves embodied carbon.

Circularity

5

50% of municipal waste in Latin America and the

- Caribbean is...?
- Biodegradable
- a) Biodegradb) Toxicc) Recycled
- Biodegradable

actually composted biodegradable but less than 1% is be composted. Half of the waste is Organic waste, like food waste, can

Source: UNEP (2022). Circular Economy in Latin America and the Caribbean: A Shared Vision.

Circularity

1.0

footprint per kilo? the highest carbon Which of these foods has

- a) Pork b) Cheese c) Beef

c) Beef

kilo of pork cheese has a higher footprint than a emissions. However, a kilo of One kilo of beef has the highest

Carbon footprint of food products. Assessment of Carbon Source: Röös, E., Sundberg, C., & Hansson, P. A. (2014) Footprint in Different Industrial Sectors, Volume 1, 85-112

1.0

Stockholm in 2019? on a house wall in business "ASKET" write What did Swedish

- a) F*ck fast fashion
- b) Burn capitalism
- c) Stop buying sh*t
- F*ck fast fashion

environmental impacts of fast labour conditions and negative Their campaign pointed to the bad

Source: ASKET (n.d.). Fuck Fast Fashion campaign.

Sufficiency

boundaries? within planetary meeting social needs What is a vision of

- a) Doughnut Economics
- b) Croissant Economics Baguette Economics
- a) Doughnut Economics

Sufficiency

image, it looks like a doughnut within ecological limits. As an Such an economy creates wellbeing

Ways to Think Like a 21st-Century Economist. Random Source: Raworth, K. (2017). Doughnut Economics: Seven House Business Books.

celebrate "Black Friday"? brand Citizen Wolf How does Australian

- a) Offer discounts
- Sell black t-shirts
- Dye clothing black

worn for longer. campaign: people send in clothing Citizen Wolf runs the Black Fridye Dye clothing black

for overdyeing. Refreshed, it can be

Source: Black Fridye (n.d.).

Sufficiency

phone? "Commown" encourage people to keep their How does French

- a) Lower price if it is kept long
- Discounted repairs

Reminder emails

a) Lower price if it is kept long

electronics. The longer the user rental fee keeps the phone, the lower the The cooperative rents out

Source: Commown (n.d.)

 a) The tough choice "Unilever" wants plantbased food to be... Foods" strategy, As part of its "Future

- b) The easy choicec) Mandatory
- The easy choice

alternative products. appetizing, so it is developing to be accessible, affordable and It wants meat and dairy alternatives

Sufficiency

advertisement for flights. voted to ban several city councils In the Netherlands, false? Is this statement true or

True

Sufficiency

cigarettes. seen as bad for society, like advertisements because they are They banned fossil-fuel

Source: RTVUtrecht (21.12.2022). Reclame voor vliegvakanties en benzine verboden in Amersfoort.

Source: Unilever (n.d.). The world's food system needs to change.

false? Is this statement true or

Australian business

century warranty. cookware with a multi-"Solidteknics" covers its

are durable and meant to last for It sells high quality products that

Source: Solidteknics (n.d.).

Sufficiency train instead of flying. customers to take the false? Dutch airline "KLM" tells Is this statement true or

True.

Sufficiency

customers about sustainable travel campaign since 2019 to tell KLM runs its Fly Responsibly

Source: KLM (n.d.). Fly Responsibly.

sales? clothing company boycotts Black Friday Which US outdoor

- a) Patagonia b) REI c) Both
- Both

REI both boycott Black Friday sales. overconsumption, Patagonia and To raise awareness of

Contexts. Journal of Advertising, 45, 441-458. Demarketing in Advertisements: Comparing "Buy Green" and "Buy Less" Appeals in Product and Institutional Advertising Source: Reich, B. J. & Armstrong Soule, C. A. 2016. Green

Sufficiency

sell as much as possible "Vitsœ" trains its staff to British furniture company false? Is this statement true or

False.

sell as little as possible. what they need. Staff are trained to Vitsœ wants customers to only buy

opportunities. Environmental Innovation and Societa sufficiency-driven business model: Experiences and Source: Bocken, N., & Short, S. W. (2016). Towards a Transitions, 18, 41-61.

Sufficiency

average US customer buys a new item of...? Every 5.5 days, the

- Electronics
- b) Clothingc) Furniture
- Clothing

mean a new item every 5.5 days. 60 new clothes a year. That would An average US customer buys over

fast fashion. Nature Reviews Earth & Environment, 1, 189-200. Source: Niinimaeki, K., Peters, G., Dahlbo, H., Perry, P., Rissanen, T. & Gwilt, A. 2020. The 979 environmental price of

Sufficiency

sustainability. give up dairy products for false? Most people in the Netherlands are happy to Is this statement true or

False.

are happy to live smaller and to buy consume less dairy but over 50% In a survey, most do not want to

'circulair' zijn Nederlandse consumenten? Source: Planbureau voor de Leefomgeving (2023). Hoe

more products. "Early Majority" increases French clothing company Is this statement true or its income without selling

offers a subscription with additional people need. To ensure income, it It wants to only sell clothing that

Source: Early Majority (n.d.).

Sufficiency

 a) Only German products customers to buy...? supermarket "BIO COMPANY" told In 2019, German Out-of-date food

b) Less

Sufficiency

need to avoid food waste. promoted only buying what you products. Their 'Buy Less' campaign BIO COMPANY sells sustainable

Source: BIO COMPANY (n.d.). Geschichte.

advertising? "Levi's" say in its What did US brand

- a) Buy More, Wear Little
- Buy Less, Wear Little
- Buy Better, Wear Longer
- Buy Better, Wear Longer

quality clothing to keep for a long 2022. It promoted buying high-Levi's ran the campaign in 2021 and

Source: Levi Strauss & Co. (21,09,2022), Levi's launches Buy Better, Wear Longer 2.0.

Sufficiency

"Fairphone" makes false? can change the style a lot. modular phones so users **Dutch business** Is this statement true or

False

parts to make repair easy. This keeps the items in use for longer Fairphone electronics have modular

Source: Fairphone (n.d.).

Swedish business "Nudie Jeans" promotes repair at home through...?

- a) Home visits
- b) An Al repair coach
- c) Free repair kits
- c) Free repair kits

They send them to their customers. Customers can also bring their Nudie jeans to a repair point in store.

Source: Nudie Jeans (n.d.).

SIT

Sufficiency

In 2014, "T-Mobile Austria" ran a campaign promoting...?
a) Durable phones
b) Reparable phones
c) Getting a new phone every year

c) Getting a new phone every year

Sufficiency

The firm offered yearly upgrades.
Those ads promoted unsustainably
fast upgrades and made users think
that was normal.

Source: Wieser, H. (2016). Beyond planned obsolescence product lifespans and the challenges to a circular economy. Gaia-Ecol. Perspect. Sci. Soc. 25, 156-160. doi: 10.14512/gaia.25.3.5

519

es

Is this statement true or false?

German architect firm "werk.um" wants to build as much new as possible

1

Werk.um designs sustainable buildings but it focuses on reusing existing buildings.

Sufficiency

Which of these is a clear business sufficiency action?

- a) Stopping discounts
- b) Installing solar panels
- c) Recyclable packaging

) Stopping discounts

Sufficiency means consuming fewer resources. This means reducing production and consumption, also of packaging material.

Source: Niessen, L., & Backen, N. M. P. (2021). How can businesses drive sufficiency? The business for sufficiency framework. Sustainable Production and Consumption, 28, 1090-1103.

Sufficiency

Source: Werk.um (n.d.)

818

shrink sweaters Chinese brand "Erdos 1980" offers a service to Is this statement true or

sweater to be changed to fit their Parents can send in their favourite

Source: Erdos 1980 (n.d.). Erdos Way.

 a) The founder owned by...? firm "Eileen Fisher" is 40% of timeless fashion

- b) The employeesc) Investors

b) The employees

Sufficiency

Sufficiency

employees give 40% of the shares to clothing. In 2006, Fisher decided to Eileen Fisher produces durable

Source: Eileen Fisher (n.d.). Brand Overview.

"Green Rebel" offers...? Indonesian business

- a) Palm oil cookies
- b) Organic coffeec) Vegan steak

Southeast-Asian countries. It offers vegan meat and dairy Vegan steak

alternatives in Indonesia and other

Source: Green Rebel (n.d.). Our Story.

Sufficiency

a) Paris - Londonb) Nice - Londonc) Paris - Geneva private airplanes in 2022? European flight route for What was the busiest

a) Paris - London

same as over 4 million London-9,629t CO₂ emissions. This is the 3,357 private flights there emitted Paris train journeys.

Strategy (2020). Greenhouse gas reporting: conversion Europe.; UK Department for Business, Energy & Industrial Source: CE Delft (2023). C02 emissions of private aviation in

most sales in Europe? alternative generates Which plant-based

- a) Meat alternatives
- Milk alternatives
- c) Yoghurt alternatives
- Milk alternatives

yoghurt €470 million. sales, meat ones €2 billion and In 2022, they generated €2.2 billion

Source: Good Food Institute Europe (2023). Europe plant-based food retail market insights 2020-2022.

5

Sufficiency

recycling less CO₂-equivalent per year, while cold Green energy can save 2 tonnes laundry saves a quarter of that and

Recycling waste

mitigation gap: education and government recommendations miss the most effective individual actions. Environmental Research Letters, 12(7), 074024. Source: Wynes, S., & Nicholas, K. A. (2017). The climate

Sufficiency

a) Buying green energy

carbon footprints the

Which of these reduces

b) Recycling waste

Washing laundry in

cold water

most? carbon footprints the Which action reduces

- A plant-based diet
- Waste recycling
- Switch to energyefficient light bulbs
- A plant-based diet

than efficient light bulbs. than recycling and 8 times more equivalent per year, 4 times more It can save 1.6 tonnes of CO₂-

Research Letters, 12(7), 074024. miss the most effective individual actions. Environmental mitigation gap: education and government recommendations Source: Wynes, S., & Nicholas, K. A. (2017). The climate

1.0

Sufficiency

than readily available to it times more fresh water in 2019? Which country used 38

- a) Saudi Arabia b) Kuwait c) Egypt

Kuwait

Saudi Arabia used 10 times more than was sustainably available. It withdrew much more freshwater Egypt 1.4 times.

Source: UN Water (n.d.). Maps

some stronger. actions, some weaker and of regenerative business There are different levels Is this statement true or

Regeneration

has a positive impact. preserving avoids it, and enhancing compensates negative impact, or enhance. Restoring only Businesses can restore, preserve

Source: Hahn, T., & Tampe, M. (2020). Strategies for regenerative business. Strategic Organization, 19(3), 456-477.

10

summer 2015? trees in cities could have heat-related deaths in prevented how many In Europe, planting more

- a) 26 b) 264 c) 2644
- 2644

save thousands of lives in extreme Covering cities with trees could Trees in cities reduce temperatures.

urban green infrastructure: a health impact assessment of European cities. The Lancet, 401(10376), 577-589. Source: lungman, T. et al. (2023). Cooling cities through

10

Regeneration

Canada, this would be 5.1 times. resources on Earth. For the US and If everyone lived like people in Qatar, we would need 9 times the

Source: National Footprint and Biocapacity Accounts 2022 (n.d.). How many Earths?

person? most resources per Where do people use the

- a) US b) Qatar c) Canada
- 5 Qatar

a) Charity driven..."? promote "marketsells its drinks to US company "Guayakí"

- b) Capitalism
- Regeneration
- Regeneration

indigenous communities with its Guayakí supports wildlife and local

Source: Guayaki Yerba Mate (n.d.). 2022 Impact Report.

Regeneration

environment and human... "ClayTec" cares about the German business

- a) Health
- b) Technologyc) Security

Regeneration

a) Health

pollutant-free and prevents mold. from clay. Clay is low in emissions, lts construction products are made

Source: ClayTec (n.d.). Why clay.

"Patagonia" said their only stakeholder is...? In 2022, the founder of

- a) The Market
- b) Societyc) Earth

Earth

are now used for environmental and profit Collective and a Trust. Profits He gave all ownership to a non-

Source: Chouinard, Y. (2022). Earth is now our only shareholder. Patagonia.

Regeneration

by...? a) Producing only in the "Harvest & Mill" ensures good labour conditions Organic clothing brand

- b) Allowing long breaksc) Using robots
- Producing only in the US

is not possible in other countries. its workers' contracts are met. This In the US, it can legally ensure that

Source: Harvest & Mill (n.d.) Sustainability

 a) Feeding fish coral reef systems? "ReefSystems" restore How does Dutch business

- b) Building artificial reefs
- Planting corals
- Building artificial reefs

and plants can live in when their coral reefs are damaged It builds artificial reefs that animals

Source: ReefSystems (n.d.). About us.

Regeneration b) Vegan cheese a) Carbon negative wool offers its customers...? "Lake Hawea Station" Recycled wool

New Zealand sheep farm

carbon negative. produces. This makes their wool store more carbon in the soil than it

It uses regenerative farming to

a) Carbon negative wool

Regeneration

Source: Lake Hawea Station (n.d.). Carbon and biodiversity.

that...? trillion on subsidies spends around US\$4 Every year, the world

- a) Damage natureb) Protect nature
- Ignore nature
- Damage nature

or overfishing that harm nature, like deforestation Governments subsidize activities

Source: Dasgupta, P. (2021). The economics of biodiversity: the Dasgupta review. HM Treasury.

Regeneration

a) 25% b) 40% c) 55% the services of nature? is directly dependent on How much of global GDP

- c) 55%

agriculture or water provision ecosystems. Examples are A lot of GDP is dependent on healthy

Source: Swiss Re Institute (2020). Biodiversity and Ecosystems Services Index: measuring the value of nature

a) Mobility biodiversity? pressures on over 50% of the Which industry creates

- b) Food c) Fashi
- Fashion

It can threaten ecosystems through use and overexploiting farming and fishing, changing land

Meyer Zum Felde, A., (2021). The Biodiversity Crisis Is a Source: Kurth, T., Wübbels, G., Portafaix, A., Zielcke, S.,

Business Crisis, Boston Consulting Group.

Regeneration

a) Cleaning polluted Pigments" helps its locals US company "True

- c) Training artists **Building houses**
- a) Cleaning polluted rivers

Regeneration

The profits are used to clean the from coal mine pollution in rivers. The social enterprise makes paints

Source: True Pigments (n.d.). About.

Beans" sells coffee grown in the shade because...? US company "Dean's

- a) It tastes better

- It gives habitat to wildlife
- c) It is cheaper
- It gives habitat to wildlife

animals and often grow fruits that by other plants. These shelter Shade-grown coffee is surrounded farmers can eat.

Source: Dean's Beans (n.d.). Our commitment to shade-

Regeneration

have legal rights in 2022? Where did nature not

- a) New Zealand
- c) Panama b) Sweden
- ੲ Sweden

which pollute there can then be nature areas like rivers. Firms legally prosecuted Many countries give legal rights to

Source: Center for Democratic and Environmental Rights (2022). Rights of Nature Timeline.

they can plant 300 billion engine that plants trees, "Ecosia", the search If Google users switch to

- a) Every year
- b) Every 10 yearsc) In 100 years
- Every year

It planted 40 million trees in 2021 and grows more with every search. Ecosia plants trees with its profits.

Source: Ecosia (2022). Regeneration Report.

Regeneration

"Ingka Group", the largest to protect them. forests across the globe IKEA retailer, has bought

Is this statement true or

Regeneration

trees to sell on the market. sustainably but it actively cuts down Ingka says it will manage the forest

Source: Ingka Group (03.05.2022) Sustainable Forestry. An Investment in the Future.

A co-founder of "Burt's

A new business

stakes to invest in... Bees" sold 80% of her

- b) Bee hivesc) Woodland protection
- Woodland protection

National Park Service for protection. \$60 million and donated it to the US She bought undeveloped land worth

Source: Burl's Bees (n.d.). Roxanne's bees: our co-founder's story.

Regeneration

with...? Viva" supports locals Mexican eco-hotel "Playa

- a) Holiday vouchers
- b) Permaculture training
- c) Plant seeds
- b) Permaculture training

Regeneration

and organic agriculture. and trains farmers in permaculture Playa Viva restores local forests

Source: Playa Viva (n.d.). Reforestation.

"Notpla" offers packaging that is...? UK based company

- a) Not plantsb) Not plasticc) Not plain

Not plastic

can biodegrade in any environment. packaging from brown seaweed. It Notpla creates plastic-free

Source: Notpla (n.d.). Notpla Glossary.

a living Amazon, there is "Natura" says that without Brazilian business

- a) Profitb) Futurec) Climate change

Regeneration

Regeneration

b) Future

conservation and research. Amazon forest, so it contributes to business depends on a healthy The cosmetics brand says its

Source: Natura (12.02.2019). AMAZÔNIA VIVA.

"Serendipalm" produce? does Ghana-based What sustainable product

- a) Hand cream

- b) Sugarc) Palm oil
- Palm oil

helps small farmers use Its production is often

agroforestry and organic farming. unsustainable but Serendipalm

Source: Serendipalm (n.d.). Sustainable & Regenerative Agriculture.

"I-Drop" offers customers safe access to ...? South African business

- a) Drinking water
- b) New phonesc) Eye medication
- a) Drinking water

Regeneration

in eight African countries own bottle and refill at a local store water. Customers can bring their Their refill machines clean the

Source: I-Drop (n.d.).

from particulate matter reduce since the 1990s? Where did air pollution

- a) New Zealandb) Australiac) US

C

grew everywhere else. diseases, like asthma. Levels reduced in the US and Europe but Fine particulate matter causes

fine particulate matter concentrations and unequal machine learning modelling study. The Lancet Planetary spatiotemporal distribution of population exposure: a Source: Yu, W. et al. (2023). Global estimates of daily ambient

Health, 7(3), e209-e218.

areas were protected in land and inland water How much of the world's

- a) Around 17%
- c) Around 50% b) Around 33%
- a) Around 17%

Regeneration

Regeneration

world's land and water areas. we should conserve 30-50% of the The 2022 IPCC report recommends

Source: UNEP-WCMC IUCN (2021). Protected Planet Report 2020. Cambridge, UK; Gland, Switzerland: UNEP-WCMC and IUCN.

10

returned into native climate adaptation if Which animal can support

false?

Is this statement true or

- habitats? Trout
- a) Trout b) Beaver c) Koala

Beaver

Trout and koalas, however, struggle rivers, helping in dry summers. Dams store water and cool down

Source: Dittbrenner, B. J., Schilling, J. W., Torgersen, C. E., & Lawler, J. J. (2022). Relocated beaver can increase water storage and decrease stream temperature in headwater

5

Regeneration

True. \$8,000 per hectare each can cause damage of **Building on US wetlands**

Regeneration

them can cause a lot of flood Wetlands buffer floods. Building on

Source: UNEP-WCMC IUCN (2021). Protected Planet Report 2020. Cambridge, UK; Gland, Switzerland: UNEP-WCMC and IUCN.

10

Beekeeping is on the rise in Germany in recent false? Is this statement true or

beekeeping is coming back due to worries about nature. 1950 but only 750,000 in 2010. Now, There were 2 million colonies in

Source: Wagner, A. (14.04.2023). Honig ist nicht nur Zuckerschlecken. Tagesschau.

10

Regeneration

pollution? see particularly bad air Where in Europe can we

- a) East Germanyb) South Belgiumc) North Italy

c) North Italy

Regeneration

industry, and also geography. the high density of people and matter and ozone. That is caused by It is badly polluted by particulate

Source: European Environment Agency (24.04.2023).Europe's air quality status 2023.

10

false? Is this statement true or

of the world for nature We need to conserve half

False

conserve a third to keep biodiversity But experts think we need to and ecosystem services.

University Press, Cambridge, UK and New York, NY, USA, pp. 3-33. Panel on Climate Change [Pörtner et al. (eds.)]. Cambridge II to the Sixth Assessment Report of the Intergovernmental Adaptation, and Vulnerability. Contribution of Working Group Source: IPCC (2022), Climate Change 2022: Impacts,

5

Regeneration

false? sustainability. peatlands is good for Planting trees on Is this statement true or

False

planting them on peat is bad because it releases stored CO2. CO2. Trees can also store CO2, but Peatlands hold over 25% of global

planet. Nature. Source: Gewin, V. (12.02.2020). How peat could protect the

Regeneration

10

Journalists found out that you use misleading numbers. You say you resell 97% of products returned to you. But that only applies to half your product range. That's bad.

Don't move and try again next round.

Inspiration: This was done by German clothing retailer Zalando in 2023.

Source: Materia, V., Maiwald, C. & Roedder, T. (28.02.2023). Greenwashing bei Zalando-Retouren. Tagesschau.

You want your products to last a long time, so you design them for easy repair. You also make repair guides and provide cheap spare parts. Well done! Move two fields forward.

Inspiration: Repair is supported by many businesses, such as outdoor company Vaude and audio equipment business AIAIAI.

Source: Niessen, L. (n.d.). Business for sufficiency database.

Ever

You want to network about sustainability, so you organize a conference. But to avoid travel emissions, you host it online. Nice one!

Move one field forward.

Inspiration: Conference travel causes a lot of emissions. One participant can cause up to 1,5 tonnes of CO₂-equivalent per roundtrip.

Source: Jäckle, S. (2022). The carbon footprint of travelling to international academic conferences and options to minimise it. Academic Flying and the Means of Communication, 19-52.

You could not sell all your products. To protect the brand and avoid discounting, you burn the stock, worth over £30 million. That's bad. Don't move and try again next round.

Inspiration: This was done by Burberry in 2018. They faced public backlash and promised to stop burning stock.

Source: BBC (19.07.2018). Burberry burns bags, clothes and perfume worth millions.

You get a subsidy to hire an adviser on decreasing your company's footprint. How lucky! Move one field forward and keep this card. At your next multiple choice question, you can ask another player for help.

Inspiration: The Dutch government gives money to small and mediumsized businesses to consult a sustainability expert.

Source: Business.gov.nl (n.d.). Subsidy scheme Improving Sustainability of SMEs (SVM).

vent5

You offset emissions in a reforestation scheme. But there is a wildfire and 'your' trees burn down, releasing further CO₂. Oh no. **Don't move and try again next round**.

Inspiration: In California, businesses can offset emissions through forest conservation. But wildfires have destroyed nearly 20% of this carbon storage in less than ten years.

Source: Badgley, G., Chay, F., Chegwidden, O. S., Hamman, J., Freeman, J., & Cullenward, D. (2022). California's forest carbon offsets buffer pool is severely undercapitalized. Frontiers in Forests and Global Change, 5, 154.

You think your product is sustainable. You call it "natural" but do not give any evidence. This is misleading and can break consumer law. Oh no.

Don't move and try again next round.

Inspiration: In a global review, 40% of firms use misleading claims, such as vague words or leaving out information to look green.

Source: UK Government Competition and Markets Authority (28.01.2021). Global sweep finds 40% of firms' green claims could be misteading.

Event6

Because of a water shortage, your city raises the price for water. But now the poorer locals cannot pay for it, so you share your water. Well done! Move one field forward.

Inspiration: In Cape Town, the richest 14% use more than half the water. In droughts, the city increases water prices but that affects the poor, not the rich.

Source: Savelli, E., Mazzoleni, M., Di Baldassarre, G., Cloke, H. & Rusca, M. (2023). Urban water crises driven by elites' unsustainable consumption. Nature Sustainability.

again next round. are covered in seaweed You open a sustainable Oh no. Don't move and try that scares away tourists. coast. But the beaches hotel at the Mexican

and chemicals have made it grow the Caribbean. But climate change faster. Now it scares off tourists Inspiration: Seaweed is normal in

Source: Garrison, C. (04.07.2022). Stinky seaweed threatens Mexico's post-pandemic tourism boom. Reuters.

emissions. You decide to world's rich causes most two fields forward. on essentials. Wow! Move fashion and instead focus no longer sell luxury The consumption of the

poorest 50% only caused 7%. caused 52% of emissions, while the consumption of the richest 10% Inspiration: Since 1990, the

Source: Kartha, S., Kemp-Benedict, E., Ghosh, E., Nazareth, A. and Gore, T. (2020). The Carbon Inequality Era: An assessment of the global distribution of consumption emissions among individuals from 1990 to 2015 and beyond. Joint Research Report. Stockholm Environment Institute and

so you offer more flights efficient planes to reduce and try again next round go up. Oh no. Don't move and your emissions still more people want to fly, emissions. But more and Your airline buys fuel-

But more passengers in 2000-2019 outpaced these improvements. more fuel-efficient than older ones Inspiration: New planes are 20%

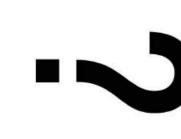
Source: International Energy Agency (n.d.). Aviation



player you choose can ideal You and another environmental NGO. Good you team up with a local You want your business to move one field forward know where to start. So help biodiversity but do not

Society of London to collect fishing nets from the ocean and turn them Interface worked with the Zoological into carpet Inspiration: Carpet manufacturer

turning nets into carpet. In Designing for the circular economy (pp. 326-335). Routledge. Source: Khoo, J. (2018). Interface: Net-works-lessons learnt



you give locals the option include your community, on your factory. To You build wind turbines Move one field forward. together with you. Nice! to co-own a turbine

of new renewable energy installations should be owned by local people and businesses. Inspiration: In the Netherlands, 50%

Source: Government of the Netherlands (2019). Climate Agreement.

You join the International torward. done! Move two fields and workers' health. Well you to contribute to safety Garment Industry. It binds Safety in the Textile and Accord for Health and

Accord was set up to increase killed 1,134 people. The International factory safety. factory collapse in Bangladesh Inspiration: In 2013, the Rana Plaza

Source: International Accord for Health and Safety in the Textile and Garment Industry (n.d.).

everyone can use it aside for biodiversity and safely. Good! Move one volunteers manage it, so you plant trees at your Together with employees, field forward. factory. An area is set

managed well. great for wildlife and air quality but can be perceived as unsafe if not Inspiration: Urban green areas are

urban greening, 11(3), 303-312. Source: Hofmann, M., Westermann, J. R., Kowarik, I., & Van der Meer, E. (2012). Perceptions of parks and urban derelict land by landscape planners and residents. Urban forestry &

again next round. Oh no. Don't move and try you struggle to pay for it raises olive oil prices, so One of your main But the drought in Spain ingredients is olive oil.

and quality of the harvest prices globally by almost 60% from June 2022 to 2023. It affects the size Inspiration: The drought increased

pushes olive oil prices to record levels. Source: Financial Times (23.04.2023). No rain in Spain

choose can move one field You and another player you volumes together. Amazing You meet and decide on a borehole but so do others. scarce. Your company drills Water in your area is forward maximum extraction

5000 BC. Today, there are about 700 water can be traced back as far as cross-border water agreements. Inspiration: Collaboration around

You do not move but the the first mover advantage sustainable products, your one field forward. player left of you can move developed them. They have competitors already While your team discusses

substitute market and has left competitors behind. mover in the American meat Inspiration: Beyond Meat is a first

Source: Choudhary, A. (2020). Sustaining a first mover advantage in a fast-growing meat substitute market. Rutgers Business Review, 5(3), 405-415.

Source: Global Commission on the Economics of Water (2023). The What, Why and How of the World Water Crisis

player you choose can **Great! You and another** sufficiency and longevity. start a club that promotes other companies, you products! Together with move one field forward The world needs durable

started a Durability Club to promote long-life products, repair and Inspiration: In France, enterprises

Source: Club de la durabilité (n.d.)

one field forward. players in the game move sustainable. Amazing! All competitors to make it work with your huge negative impact. You The product you sell has a

palm oil production sustainable. Sustainable Palm Oil wants to make processors and retailers. Members include palm growers Inspiration: The Roundtable on

Source: Roundtable on Sustainable Palm Oil. (n.d.)

You cover your product with coating to make it last longer. But new research shows that the coating contains chemicals that can cause cancer. Oh no. Don't move and try again next round.

Inspiration: PFAS chemicals are common in outdoor clothing. But they can damage health and some governments want to ban them.

Source: US EPA (n.d.). Our Current Understanding of the Human Health and Environmental Risks of PFAS.

You decide to give 30% of your business ownership to your employees. This can make your company more resilient and reduce inequality. Well done!

Move one field forward.

Inspiration: In the US, the richest 10% own 90% of business wealth. Employee ownership tackles that and can benefit business.

Source: Dudley, T. & Rouen, E. (13.05.21). The Big Benefits of Employee Ownership. Harvard Business Review.

Your business made you rich. But you worry about the social and environmental costs of inequality, so you join other millionaires and lobby to tax the rich. Wow! Move one field forward.

Inspiration: In 2023, 120 millionaires called on G20 leaders to raise taxes on the ultra-rich to reduce inequality.

Source: Tax Extreme Wealth (n.d.). Signatures.

Even

As an insurance provider, you decide to offer an extreme weather insurance for street vendors, so they can still receive income if they cannot work. Well done!

Move one field forward.

Inspiration: This insurance protects workers in India where hot weather can make outdoor work impossible.

Source: Mahajan, S. & Millan, L. (19.06.23). An Indian City's Battle Against Extreme Heat.

Event26

You run a small enterprise with a sustainable mission. You always pay your taxes. Now, you hear that your tax money goes to big polluters. Oh no. Don't move and try again next round.

Inspiration: Research from 2023 found the Dutch government pays over €37 billion to polluting industries in the form of tax cuts and reductions.

Source: SOMO (04,09.23). Nog meer belastinggeld naar grote vervuilers dan gedacht.

To combat heat, you finance a mini-forest in your city. This forest provides space for biodiversity and shade to people. Well done! Move one field forward.

Inspiration: Mini-forests are densely grown with native plants. Cities like Jordan's Amman plant them to fight heat.

Source: Taysser, M. & Millan, L. (30.08.2023), Fast-Growing Mini Forests Help Cool Down a Desert City.

Event2

You want to show your support for climate action. Inspired by Fridays for Future strikes, you join a Business Queue for Climate & Nature to protest. Great!

Inspiration: UK coalition Business
Declares unites over 100
businesses to protest with the
global climate strikes.

Source: Business Declares (n.d.)

