

Collectief Perspectief

HERSTEL+REGENERER

Meaningful matters festival 2 oktober 2024

Pepijn Duijvestein



Inspiratie en links:

[Michael Porter: Why business can be good at solving social problems](#)

[www.klimaatinspiratieutrecht.nl](#) (Regeneratief plan voor Utrecht)

[Kansenkaart Gelderland met Regeneratief scenario](#)

[www.cooperate.eco](#) (klik hier voor slide deck). Gebiedsontwikkeling 7 generaties

[Compenseer geen CO2, benut natuurlijke oplossingen](#)

[www.buurtttransform.nl](#)

[www.parkomdehoek.nl](#)

[ww.climatecleanup.org](#) (20 boeken voor je organisatie)

[www.biobaseddesign.com](#) Regenerative Modulair Cabinet

[Linkedin Pepijn Duijestein](#)

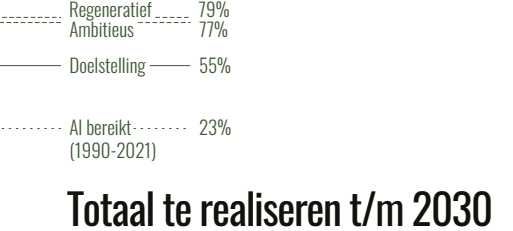
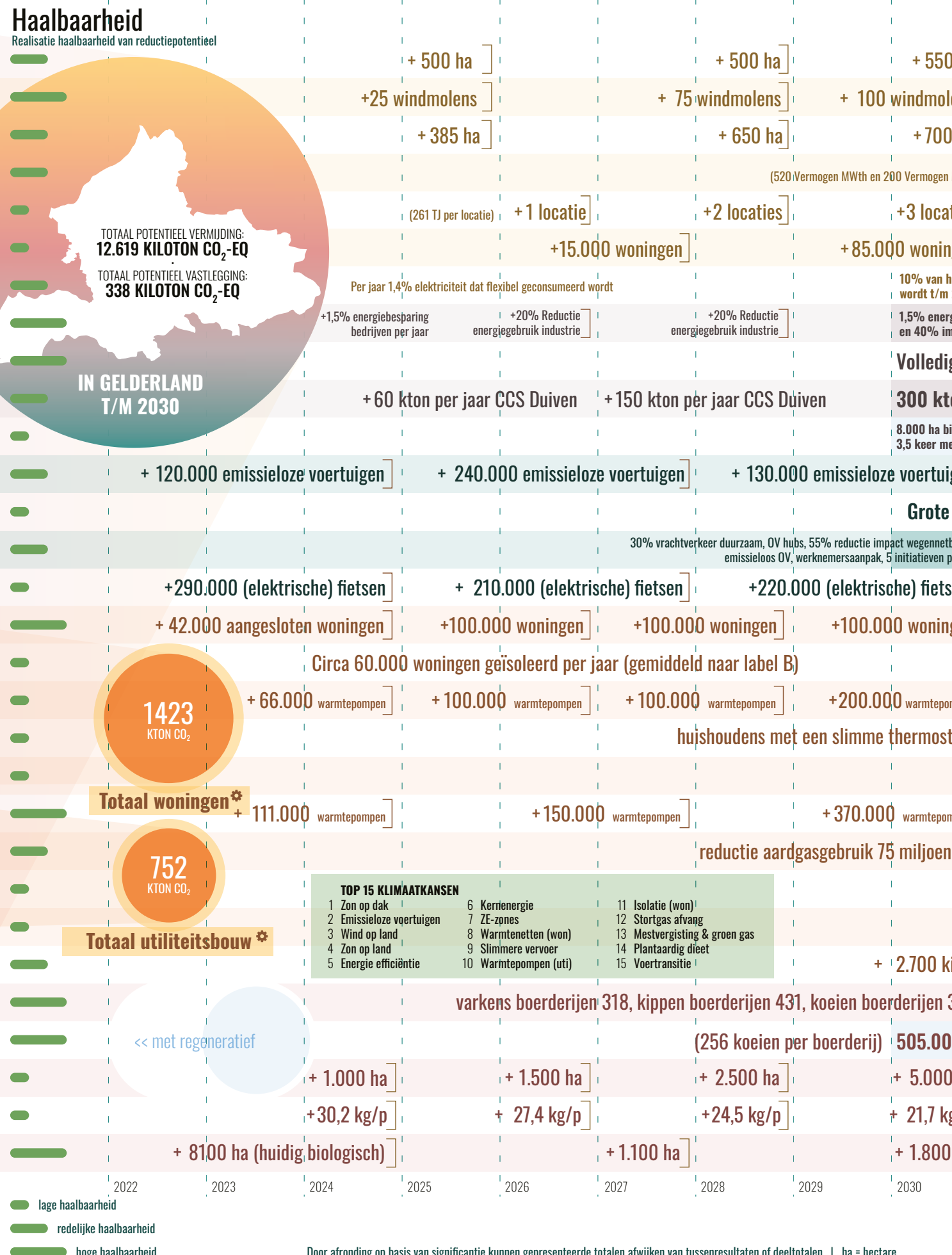
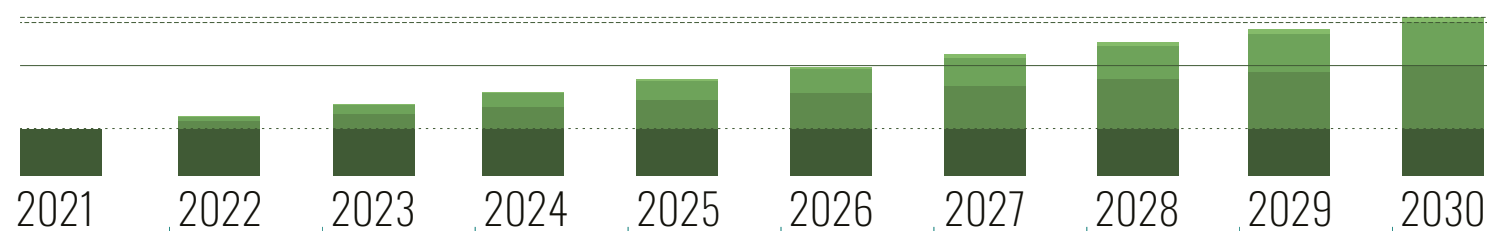
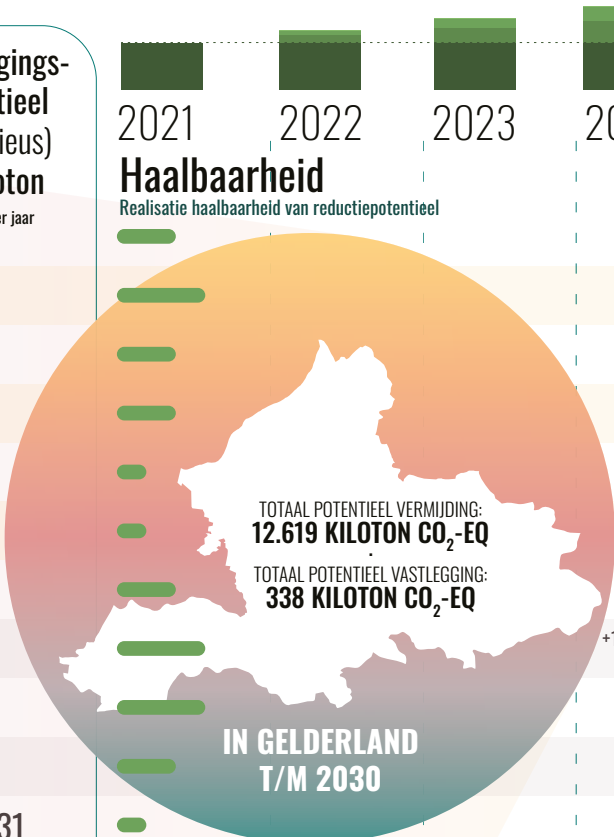
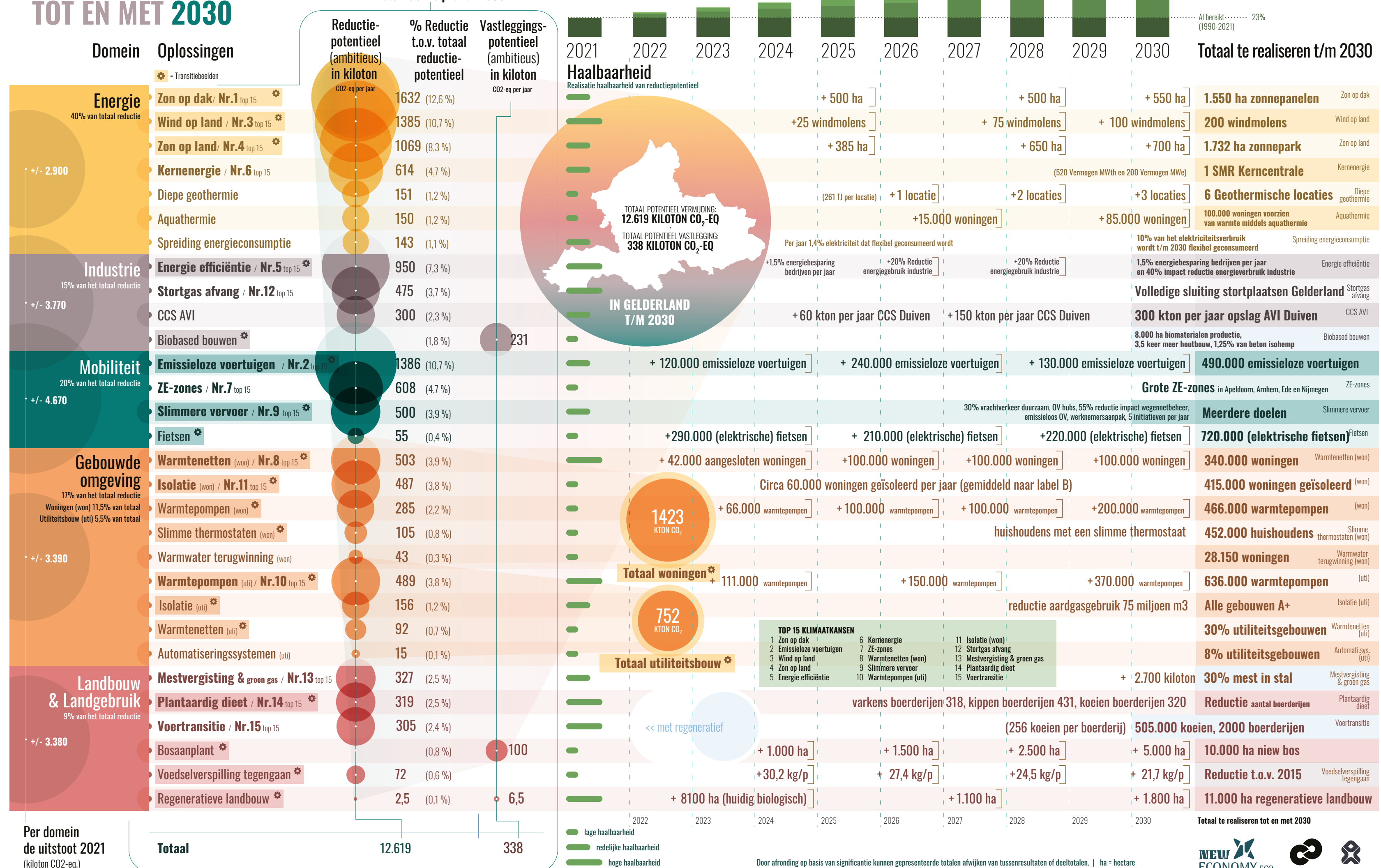


AHH!

KLIMAATKANSENKAART VOOR DE PROVINCIE GELDERLAND

30 SMART OPLOSSINGEN TOT EN MET 2030

Scenario 'Ambitueus' in kiloton CO2-eq vanaf 2030



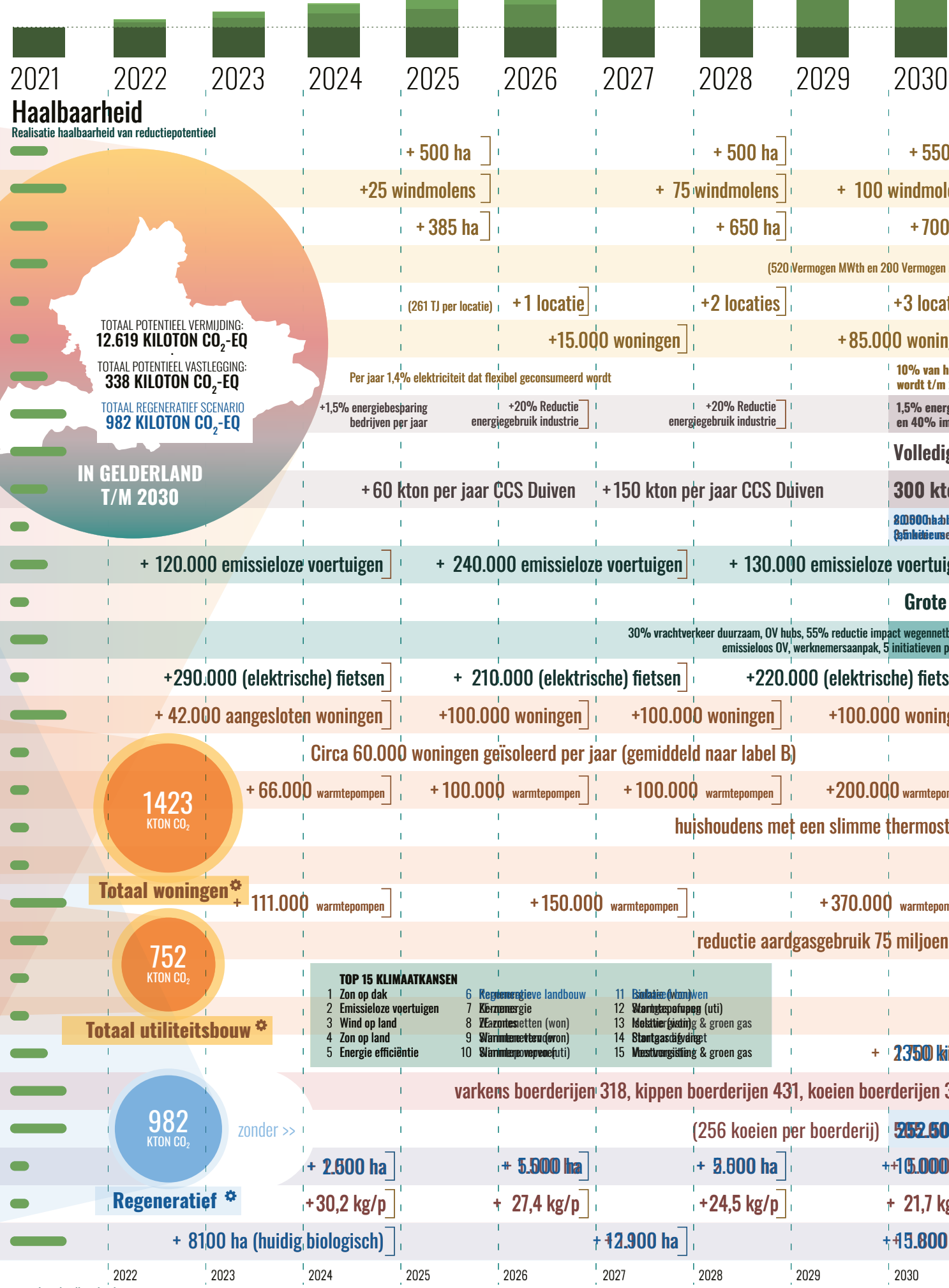
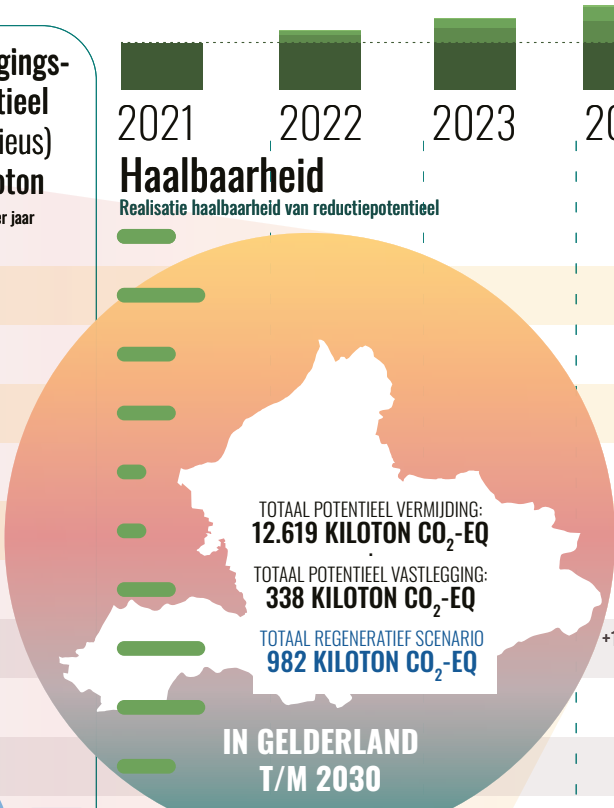
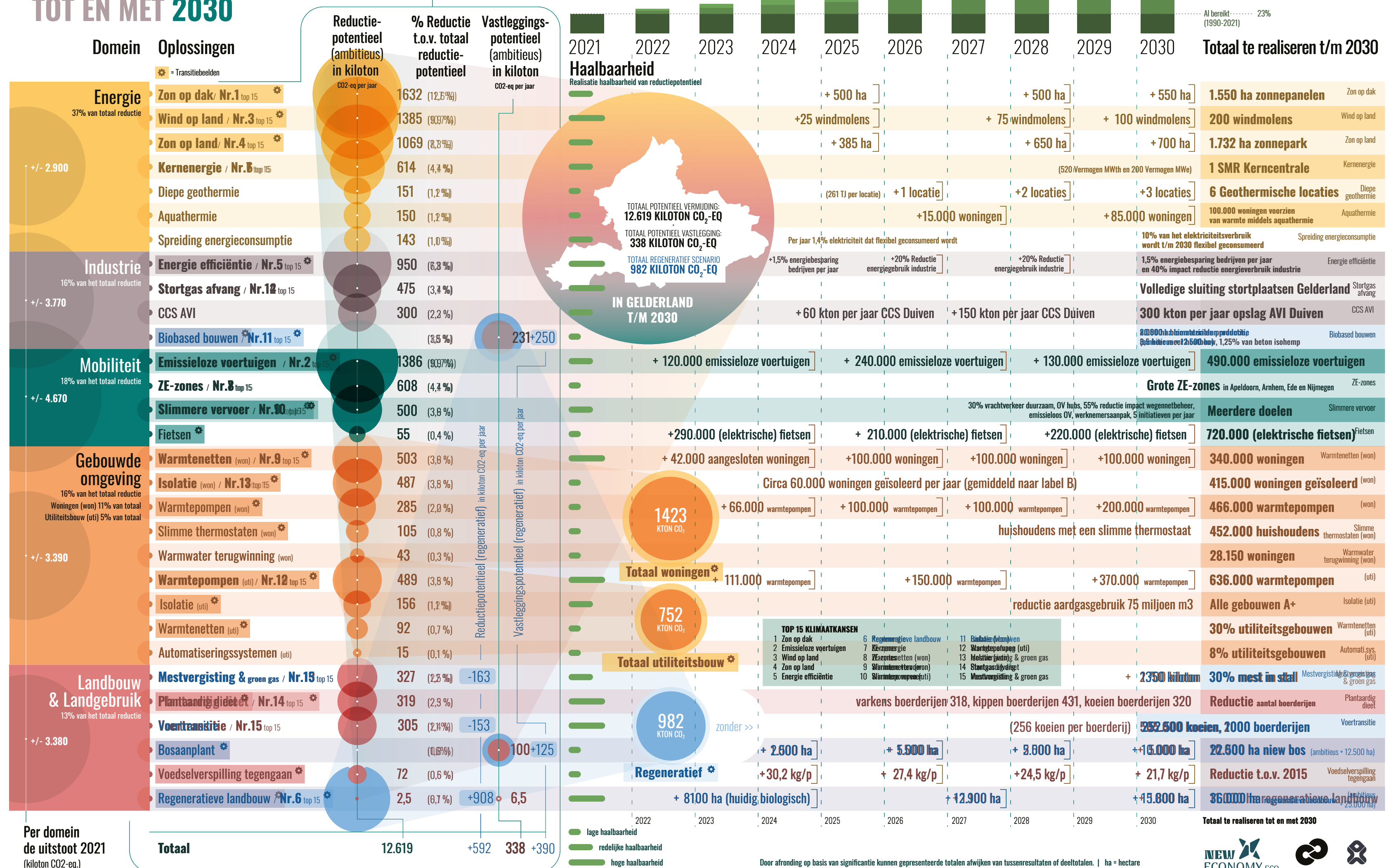
JAA?

AHH!

KLIMAATKANSENKAART VOOR DE PROVINCIE GELDERLAND

30 SMART OPLOSSINGEN TOT EN MET 2030

Scenario 'Ambitueus' in kiloton CO2-eq vanaf 2030



- TOP 15 KLIMAATKANSEN**
- Zon op dak
 - Emissieloze voertuigen
 - Wind op land
 - Zon op land
 - Energie efficiëntie
 - Kernenergie landbouw
 - Kernenergie
 - Warmtenetten (won)
 - Warmwater terugwinning
 - Warmtepompen (uti)
 - Bosbouw (woning)
 - Warmtepompen (uti)
 - Mobiel (rijtuig) & groen gas
 - Stortgasafvang
 - Mestvergisting & groen gas

Per domein de uitstoot 2021 (kiloton CO2-eq.)

Totaal 12.619 +592 338 +390

Door afronding op basis van significantie kunnen gepresenteerde totalen afwijken van tussenresultaten of deelttotalen. | ha = hectare

JAA?

AHH!



Iris Grobben

Senior Strategisch Adviseur

Associated Partner



Pepijn Duijvestein

Regeneratieve Strategie

Eigenaar & Directeur



Lilian van Hove

Senior Programma Manager

Associated Partner



Jonah Link

Senior Impact & Data Specialist

2Impact



Emmi Kimppa

Impact & Data Specialist

Salacia Solutions



Roderick v. Ravenhorst

Narrative strategy

Peer Partner



Sven Jense

Natuurlijk oplossingen expert

Climate Cleanup



Jarr Geerligs

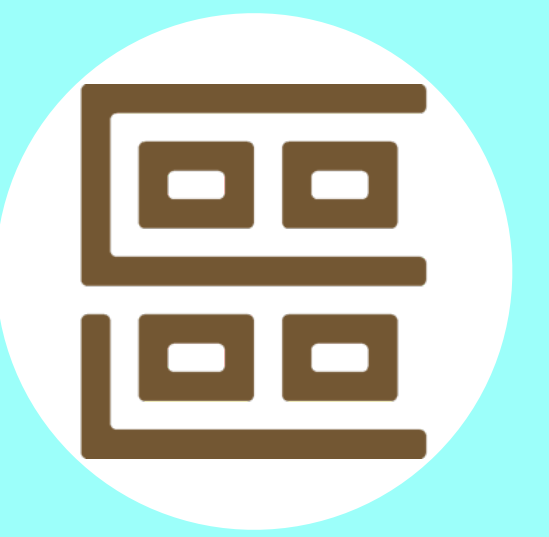
Creative Director

Studio Planet Jarr



JA?

AHH!



J.A.?

AHH!



"I'm a crazy, sustainable experiment bunny."

Regenerate my daily life

The New York Times

07/10



Pepijn Duijvestein chose clay for many of his home's walls. Some of the beams came from wood harvested from branches that had fallen in parks during heavy storms. Max Pinckers for The New York Times

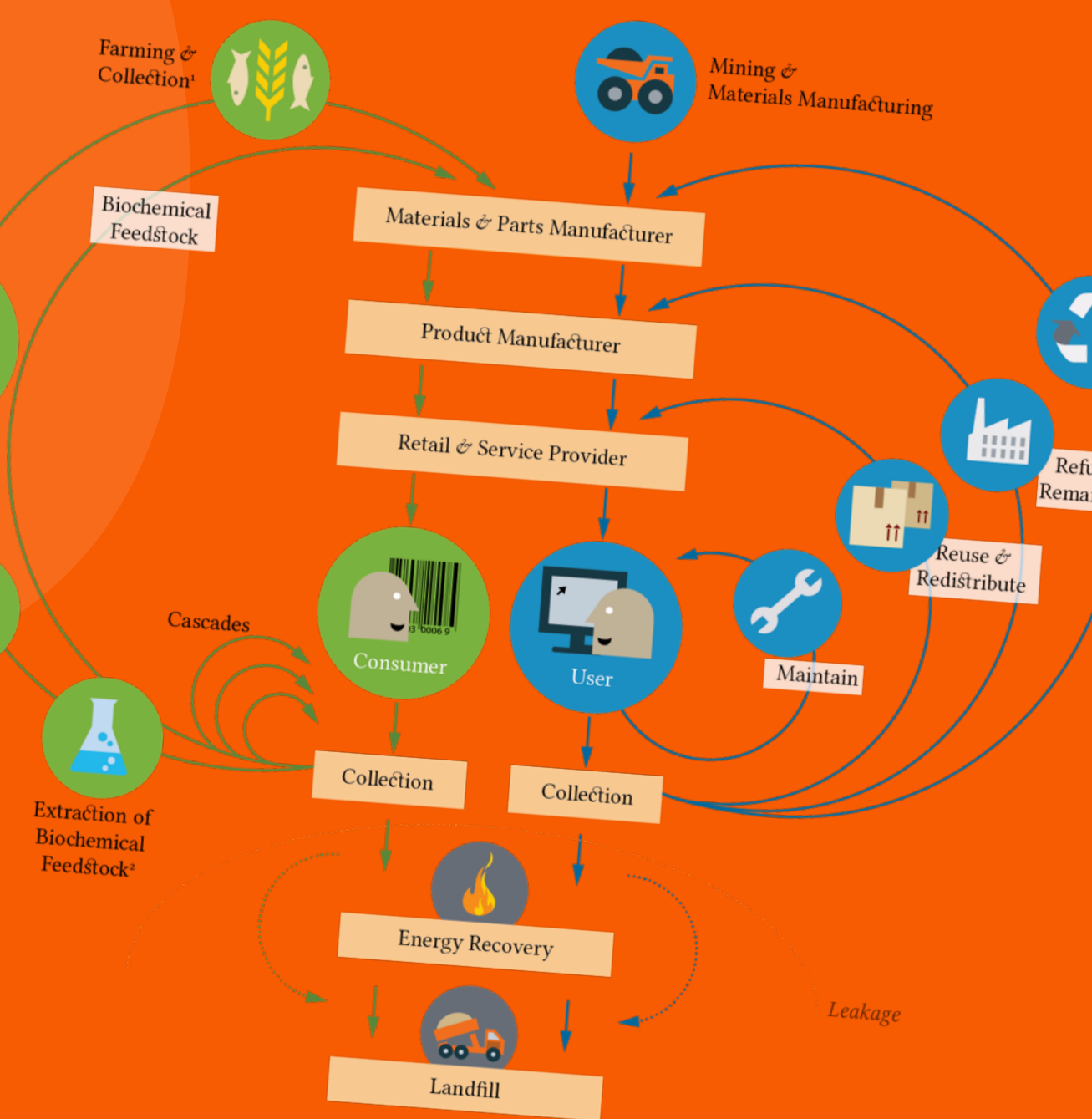
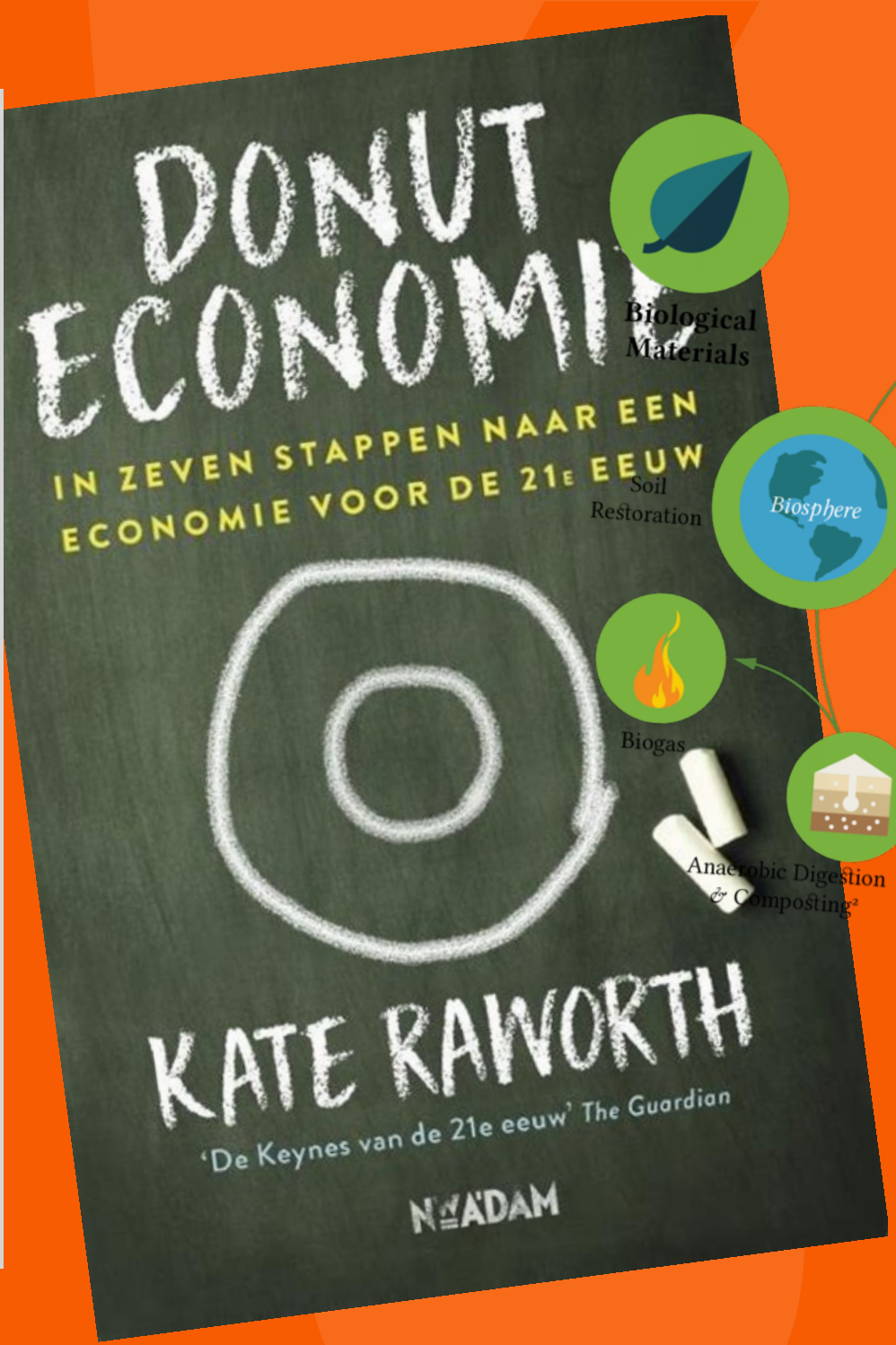
Taking a cue from Mr. Rau, some members of the Schoonschip community tried to implement a service model for their heat pumps. ("I don't want a heat pump!" Mr. Duijvestein said. "I want heat. I want comfort.") But the banks couldn't quite get on board with extending a mortgage for a house in which some of the essential components didn't belong to the owner. Even in the Netherlands, whose government has committed to supporting a circular economy, figuring out the regulatory process for new forms of material salvage and ownership is a challenge. Banks can be reluctant to extend financing for projects that rely on service contracts, with their unusual liabilities and time frames. Contractors shy from guaranteeing the performance of materials they are unfamiliar with. Potential customers can balk at the additional cost of certain parts of going circular, or at the prospect of not achieving ownership.

Mr. Duijvestein estimates that he invested between 375,000 and 450,000 euros in his floating house, having done much of the work himself, but he doesn't care much for ownership; he sees himself as a steward of his home's constituent materials for a certain moment in time, recognizing the fact that they will outlast him. On the terrace outside his kitchen, a riot of flowers and plants leaned against the bamboo balustrade. They had been cultivated by a woman with a rooftop garden; when she was near death, she sought someone who would care for them. Mr. Duijvestein brought them to his house. When the woman died, he arranged a bouquet for her coffin. He calls them his secondhand flowers, even though "if you look at it in a philosophical way, all flowers are secondhand," he said. "It's one big system."

X

JAA?

ONBEWUST ONBEKWAAM



2006-2011

2009

2012-17

2019

2022



HERSTEL REGENEREREN

**AHH!**

REGENEREREN

REGENEREREN DEFINITIES

regenereren

regenereren werkw. Uitspraak: [rexenə'rerə(n)] Afbreekpatroon: re·ge·ne·re·ren Vervoegingen: regeneerde (verl.tijd enkelv.) Vervoegingen: heeft geregeneerd (volt.deelw.) 1) afvalstoffen bewerken zodat die hergebruikt kunnen worden Voorbeeld: 'plastic zakken, flessen en dozen regenereren' 2) beschadigde lichaa...

Gevonden op <https://www.woorden.org/woord/regenereren>



AHH!

REGENEREREN

Regenereren

1) Aangroeien 2) Herscheppen 3) Opnieuw vormen 4) Recyclen 5) Terugwinnen 6) Verjongen 7) Vernieuwen 8) Weder opwekken 9) Weer aangroeien 10) Weer bruikbaar maken 11) Weer doe aangroeien 12) Weer opwekken 13) Weer voortbrengen 14) Zich vernieuwen en herstellen
Gevonden op <https://www.mijnwoordenboek.nl/puzzelwoordenboek/Regenereren/1>

Regenereren

1) Herscheppen

Gevonden op <https://www.mijnwoordenboek.nl/puzzelwoordenboek/Regenereren/1>



AHH!

REGENEREREN

regenereren

weer in oorspr. toestand terugbrengen (toon de herkomst via de etymologiebank)

Gevonden op <http://www.etymologiebank.nl/trefwoord/regenereren>

regenereren

Def.: voortplanten of het weer aangroeien van delen van een organisme of een organisme in

Gevonden op https://www.aquo.nl/index.php/Categorie:Geldige_begrippen



HERSTEL REGENEREREN





energy - impact - new - realistic - fun - change

billable

special

play

3 days

2 days

2 days

all time and money in new economy

Groene stroom, opgewekt met je eigen molen!

- ✓ Leuk en eenvoudig je eigen stroom opwekken
- ✓ Concreet bijdragen aan een beter milieu
- ✓ En dat nog voordeliger ook!

[Lees hier hoe het werkt!](#)

Maureen via Facebook: *"Trots met deel van de Jonge Held!"*

de Volkskrant

nrc handelsblad >

Trouw

fd.

schoon schip

AMSTERDAM



IS SOCIAAL

IS DUURZAAM



[BINBANG](#) [BESTEL JE BIN](#) [COMMUNITY & CAMPAGNES](#) [BEDRIJVEN](#) [GEMEENTEN](#) [BLOG](#) [CONTACT](#) [f](#) [t](#) [Q](#)





neossil

Ultra Hard
Non-stick







Courtesy of Upside Club Tjikko





Calendar & catalog

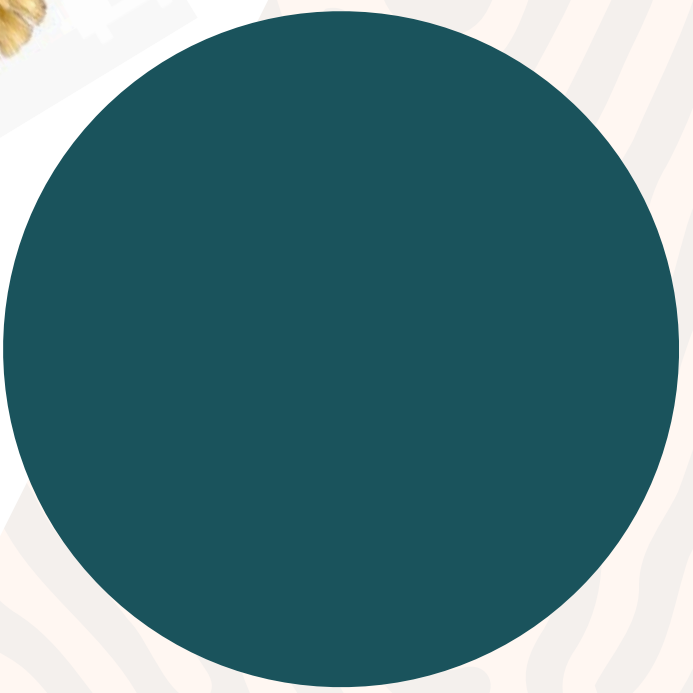
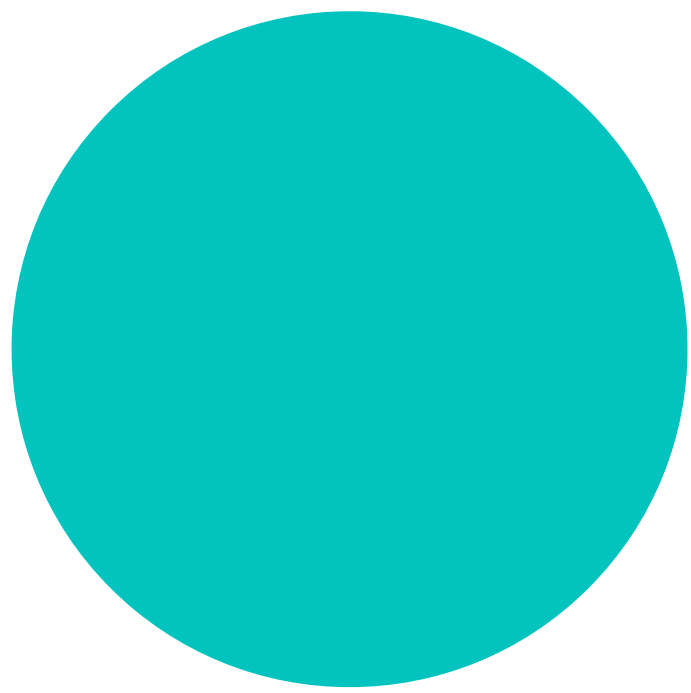
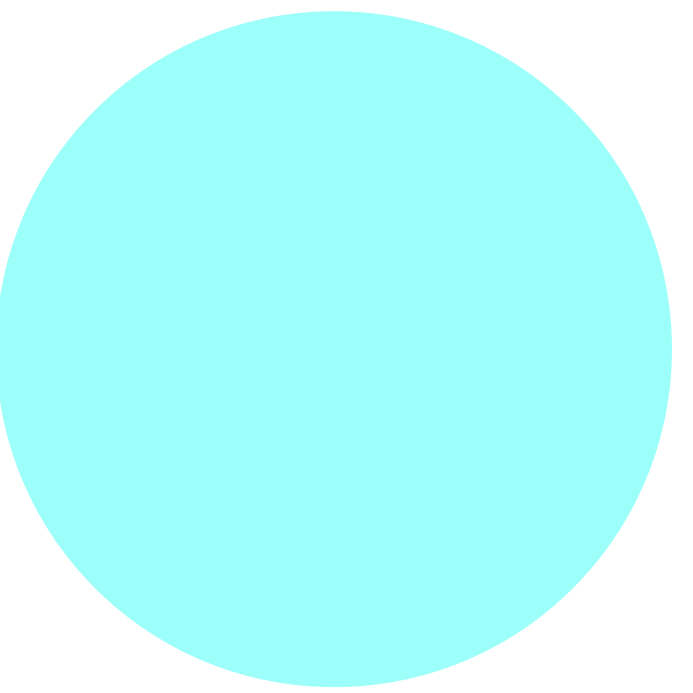
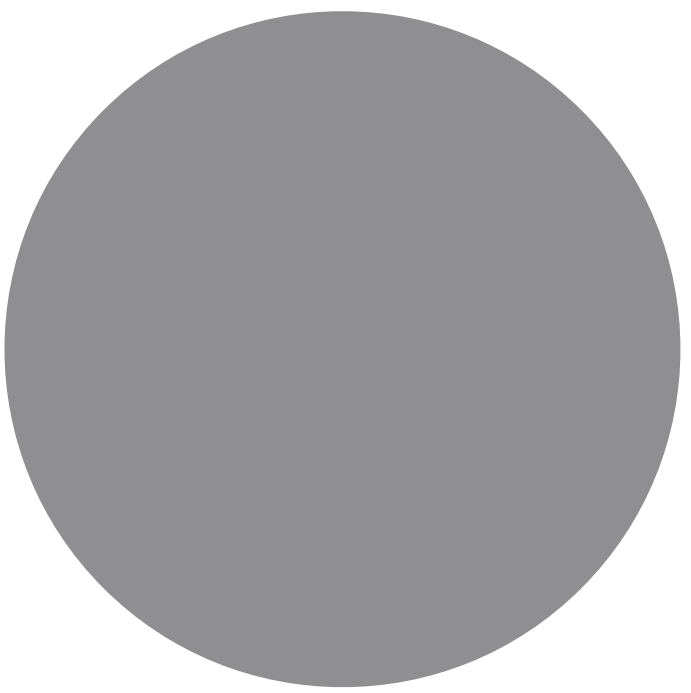
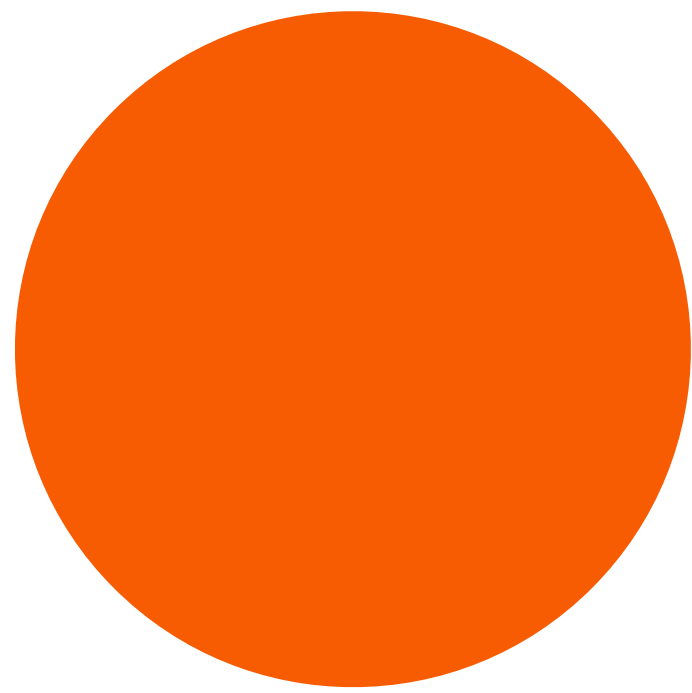
winter		Spring			Summer			Autumn			
Theme: community		Theme: development			Theme: ecosystems			Theme: local			
Jan	Feb	Mrt	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Self-development: Study, Creativity, Being yourself, Self-awareness, Ethics											
	● Yoga			● Read		● Mindfulness		● Art			
Appreciation: Status, Prestige, Success, Self-esteem, Respect for others, diversity											
	● Decoration home		● Beauty		● Vitality		● Festive clothes		● Retreats		
Social acceptance: Love, Friendship, Belonging, Family, Household, Single, Wedding, Divorce, Inclusiveness											
	● Sustainable dating		● Connectedness		● Pride	● Festive articles		● Presents		● Christmas decoration	
Assurance: Health, Safety, Protection, Work											
	● Electronics	● Care		● Indoor climate		● bikes	● Cleaning		● Smart home		
Physiological needs: Food, Relaxation, Sports, Home, Neighborhood, Going out, Vacations, Leisure											
		● Cooking gear	● Sporting clothes	● Interior	● Clothes			● Travel tips			

TJIKKO

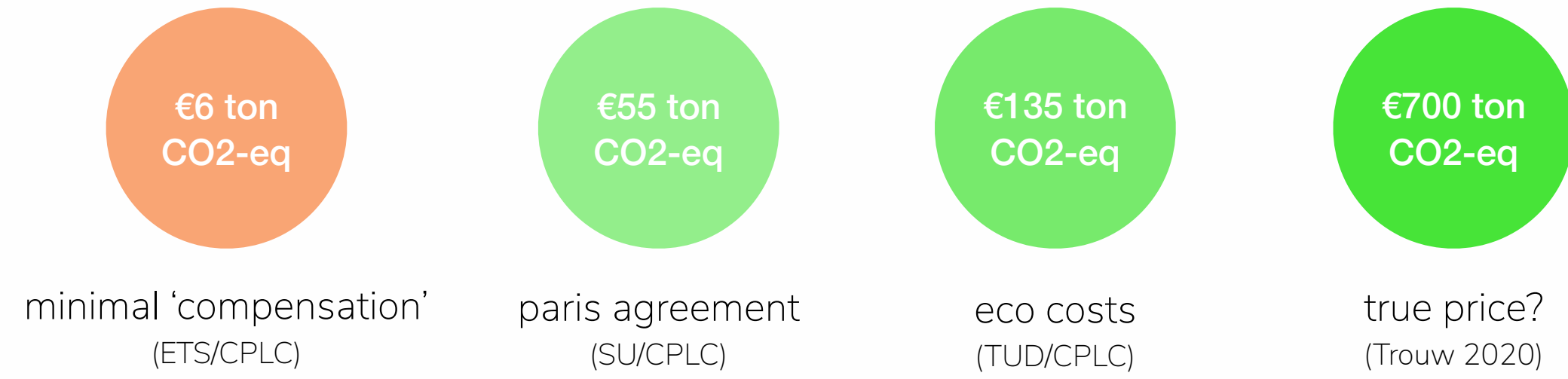
UP
SIDE
CLUB

Regenerate our daily life





compensation is a temporary but unrealistic approach:



more
biodiversity
CO2 stored products
refuse/repair/reuse/users
climate adaptive
plant based
less
energy/materials

consuming for healthy
living environment

holistic thinking
natural system design
purpose economy
value/tco/tcu

regenerating

● conventional ● green ● sustainable ● restorative ● regenerative

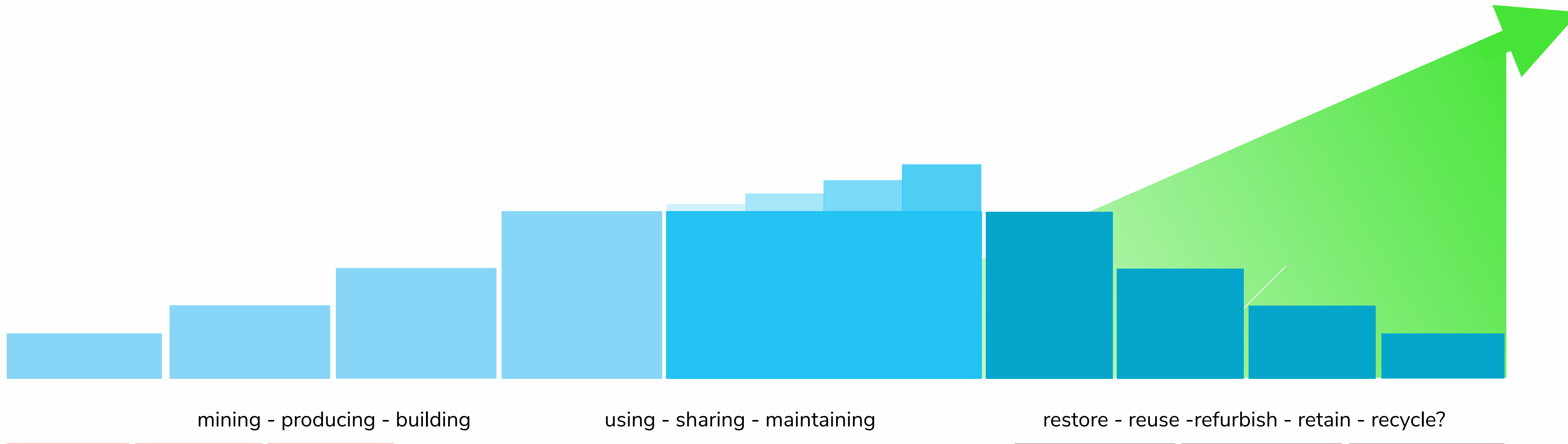
degenerating

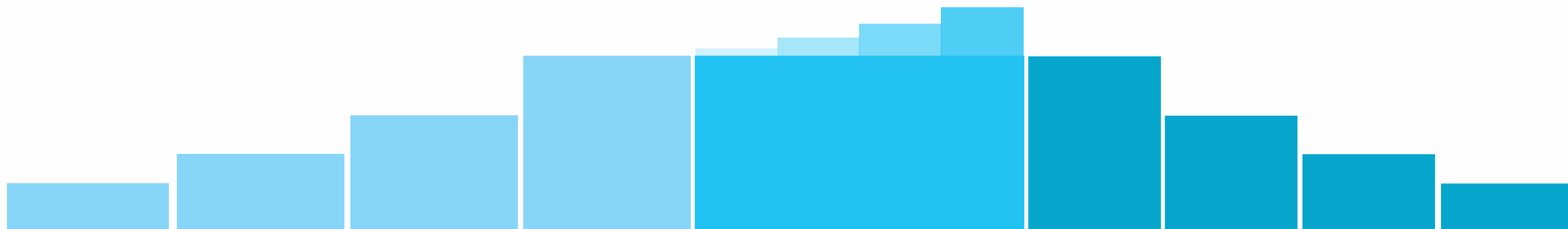
mechanistic design
reductionist thinking
parts
profit / roi

consuming for unhealthy
living environment

less
biodiversity
more
energy/materials
recycle
CO2 intensive

Figure is an adoptive from Bill Reed's "Trajectory of Ecological Design" Diagram with interpretations and perspective of New Economy.ECO



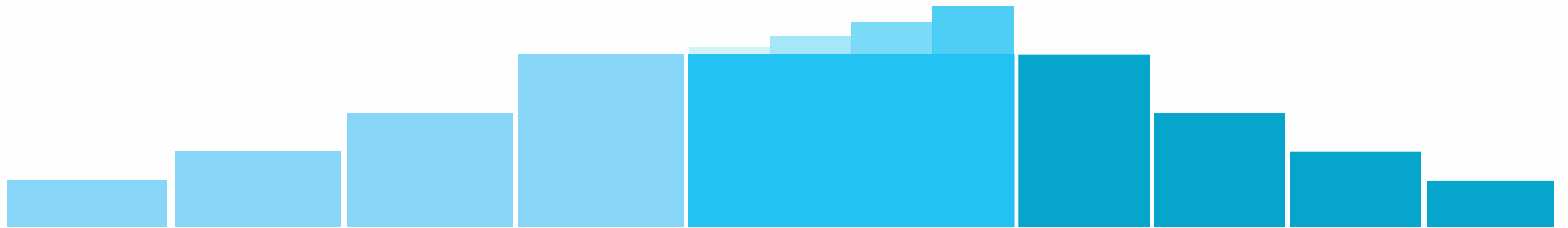


mining - producing - building

using - sharing - maintaining

restore - reuse - refurbish - retain - recycle?





mining - producing - building

using - sharing - maintaining

restore - reuse - refurbish - retain - recycle?



€0,30 - €0,70
eco costs per €1

?

?

?

?

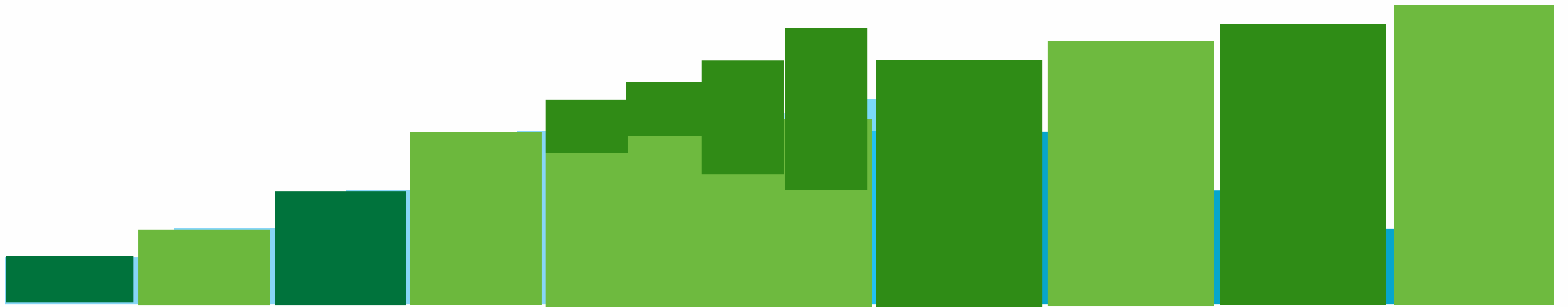
Sell more

IP

ROI

Break

Burn



mining - producing - building

using - sharing - maintaining

restore - reuse - refurbish - retain - recycle?

shop



biobased
design
.com

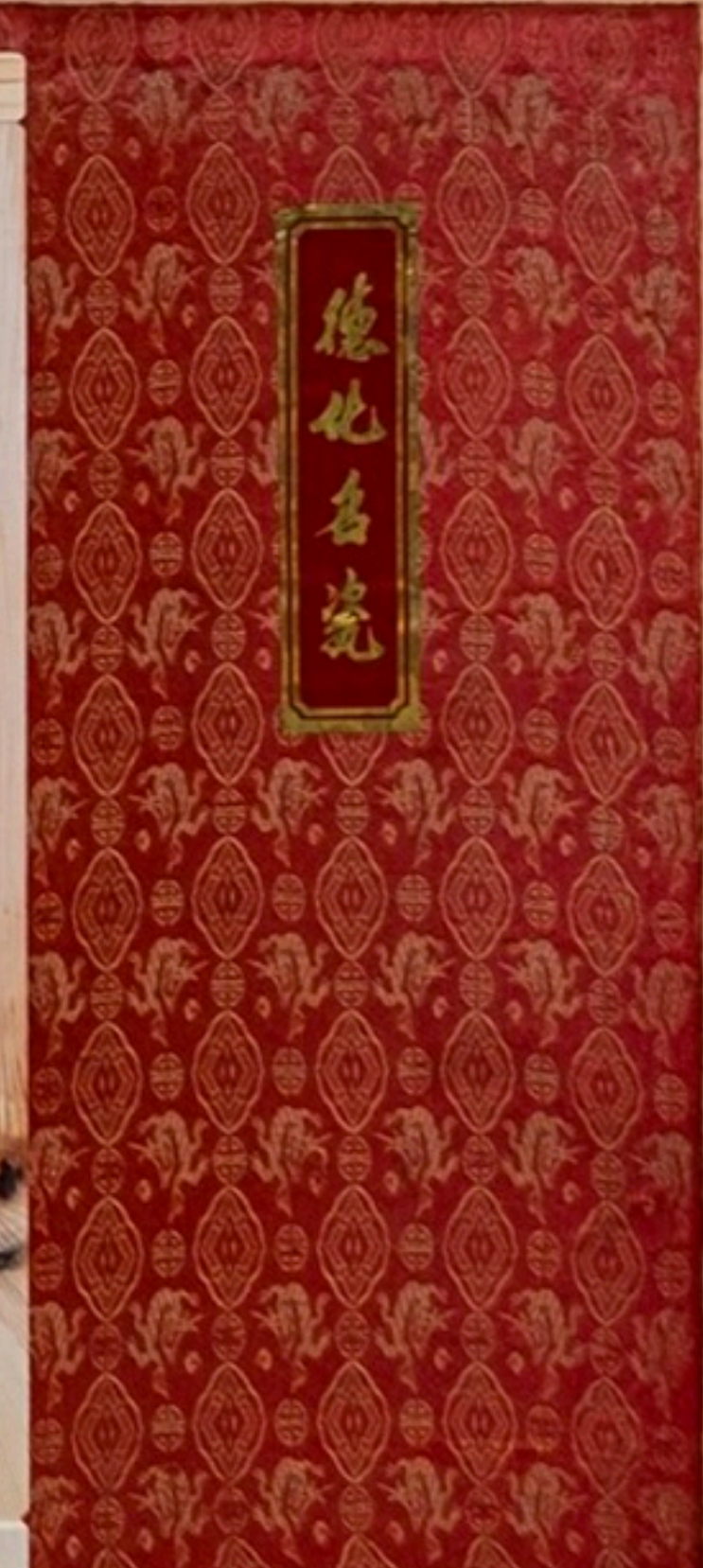


design for life_span

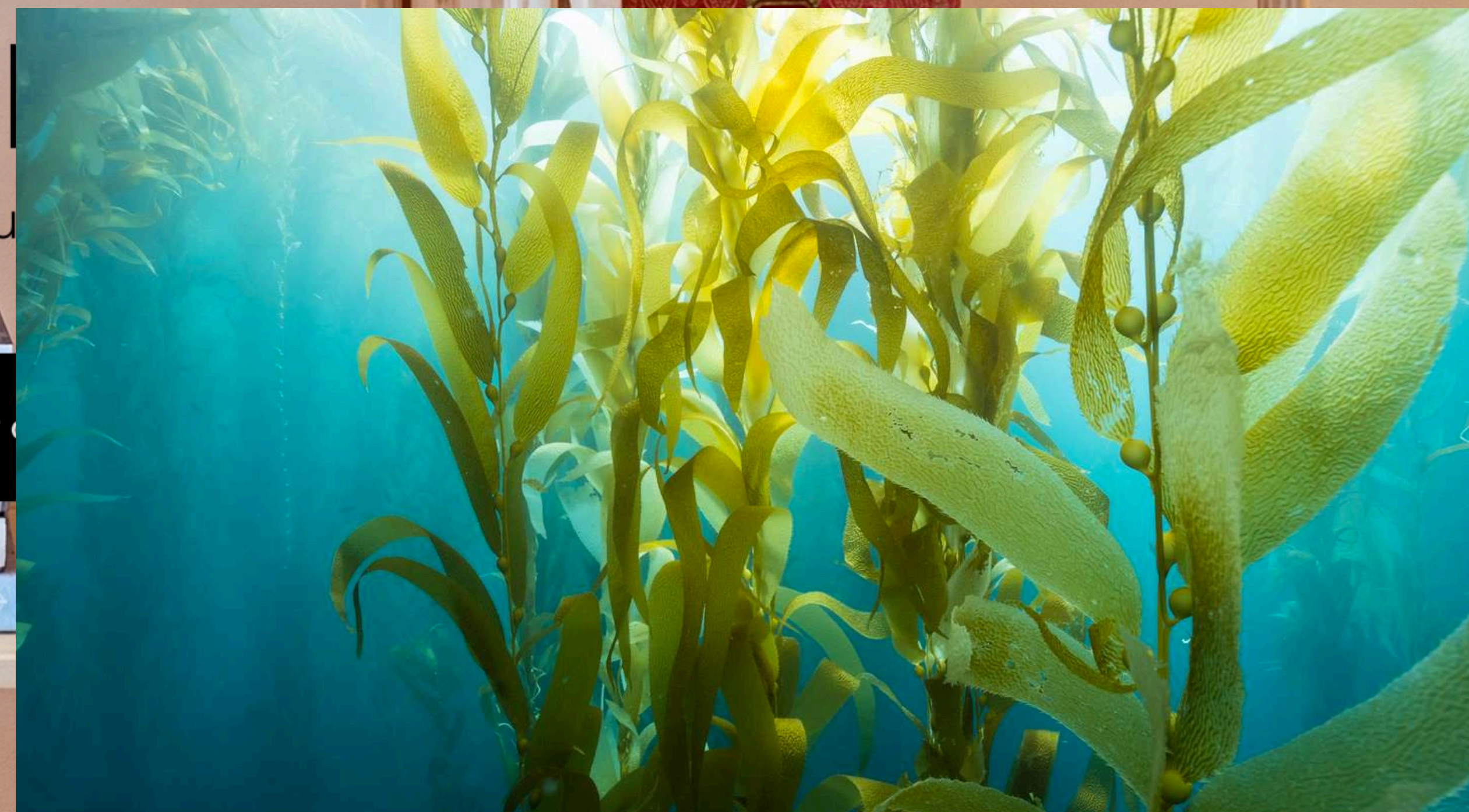
modular_furniture



build your own

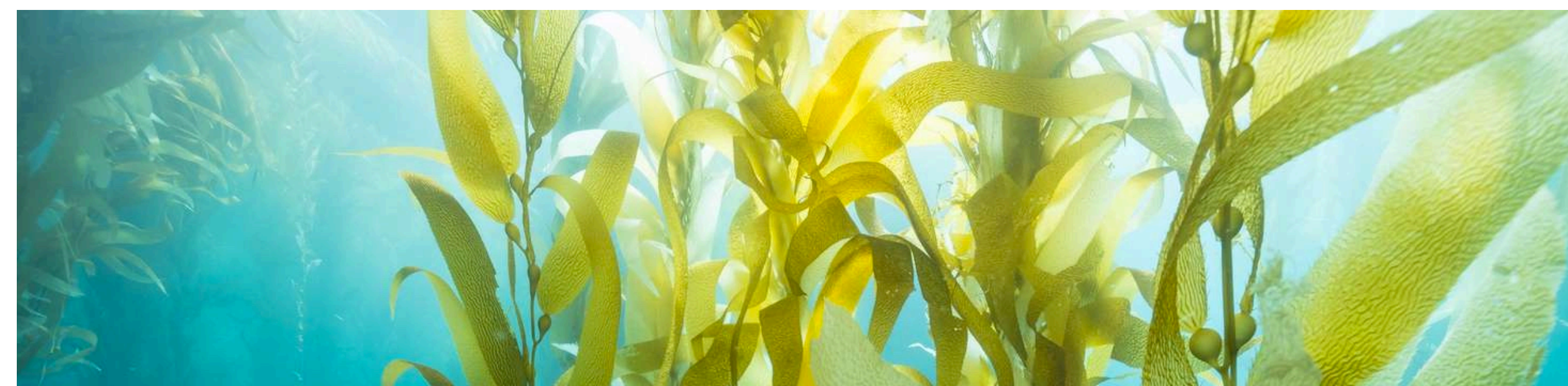






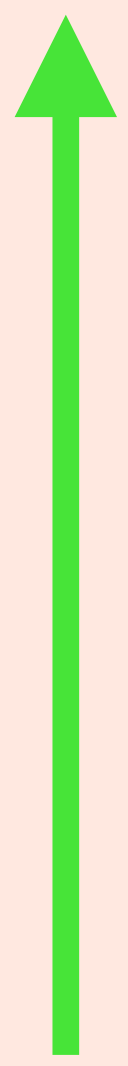
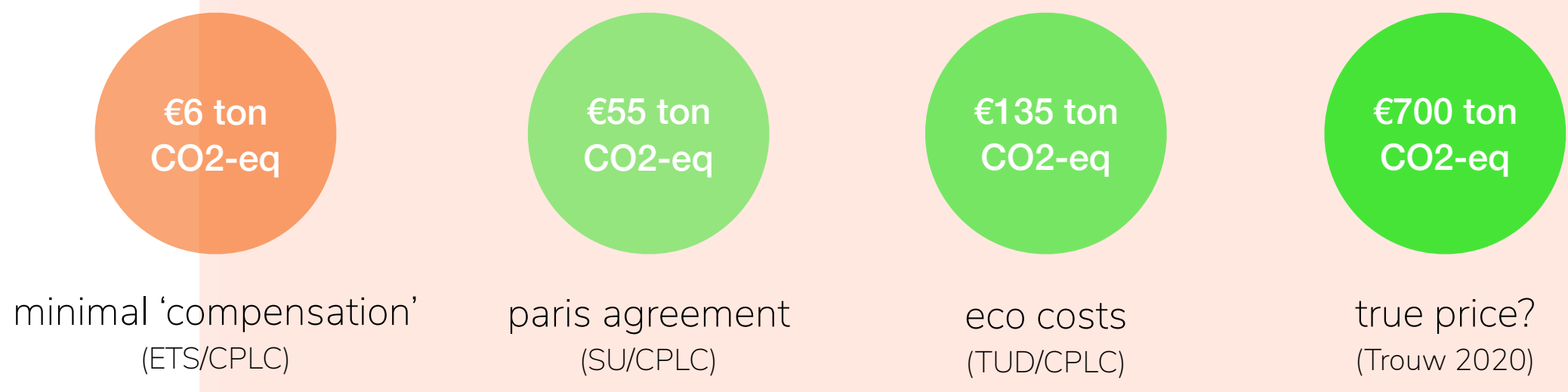


Materialen	Werkelijke kg CO2-eq opslag per plank	Productie impacts (kg CO2 / plank)	Transport impacts (kg CO2 / plank)	Harves times	Biobased	Biodegradable	Recyclebe (circulair)
1 Finish pine (FSC)	2,11	0,56	0,37	20 till 30 years	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2 SeaWood	3,64	1,01	0,01	Yearly	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3 Paulownia (Roemenië)	1,23	0,29	0,18	8 till 12 years (5x)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4 Paulownia (West friesland en Utrecht)	1,23	0,29	0,01	8 till 12 years (5x)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5 Paper/Elephant grass Fibers SAM	3,54	1,01	0,06	Yearly	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6 Recycled paper SAM	2,04	1,27	0,05	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7 Vanhier vezelteelten (NL)	0,37	0,11	0,00	Yearly	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8 Citywood (Amsterdam Nijmegen of Haarlem)	3,74	0,29	0,01	40 till 60 years	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9 Poplar	3,74	0,29	0,13	40 till 60 years	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10 Maple	3,74	0,58	0,19	40 till 60 years	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
11 Beech	3,74	0,41	0,21	40 till 60 years	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
12 Oak	3,74	0,51	0,21	40 till 60 years	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
13 Medium Density Fibreboard MDF	1,14	1,50	0,21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15 OSB					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>





compensation is a temporary but unrealistic approach:

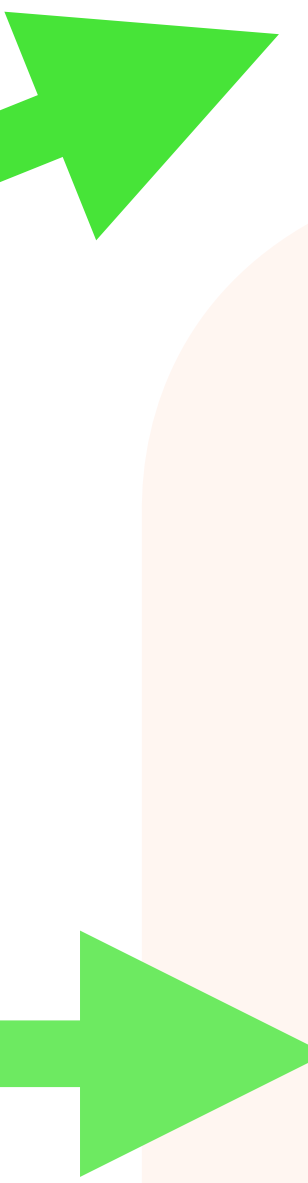


more
 biodiversity
 CO2 stored products
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 climate adaptive
 plant based
 less
 energy/materials

consuming for healthy living environment

holistic thinking
 natural system design
 purpose economy
 value/tco/tcu

regenerating



conventional

green

sustainable

restorative

regenerative

degenerating

mechanistic design
 reductionist thinking
 parts
 profit / roi

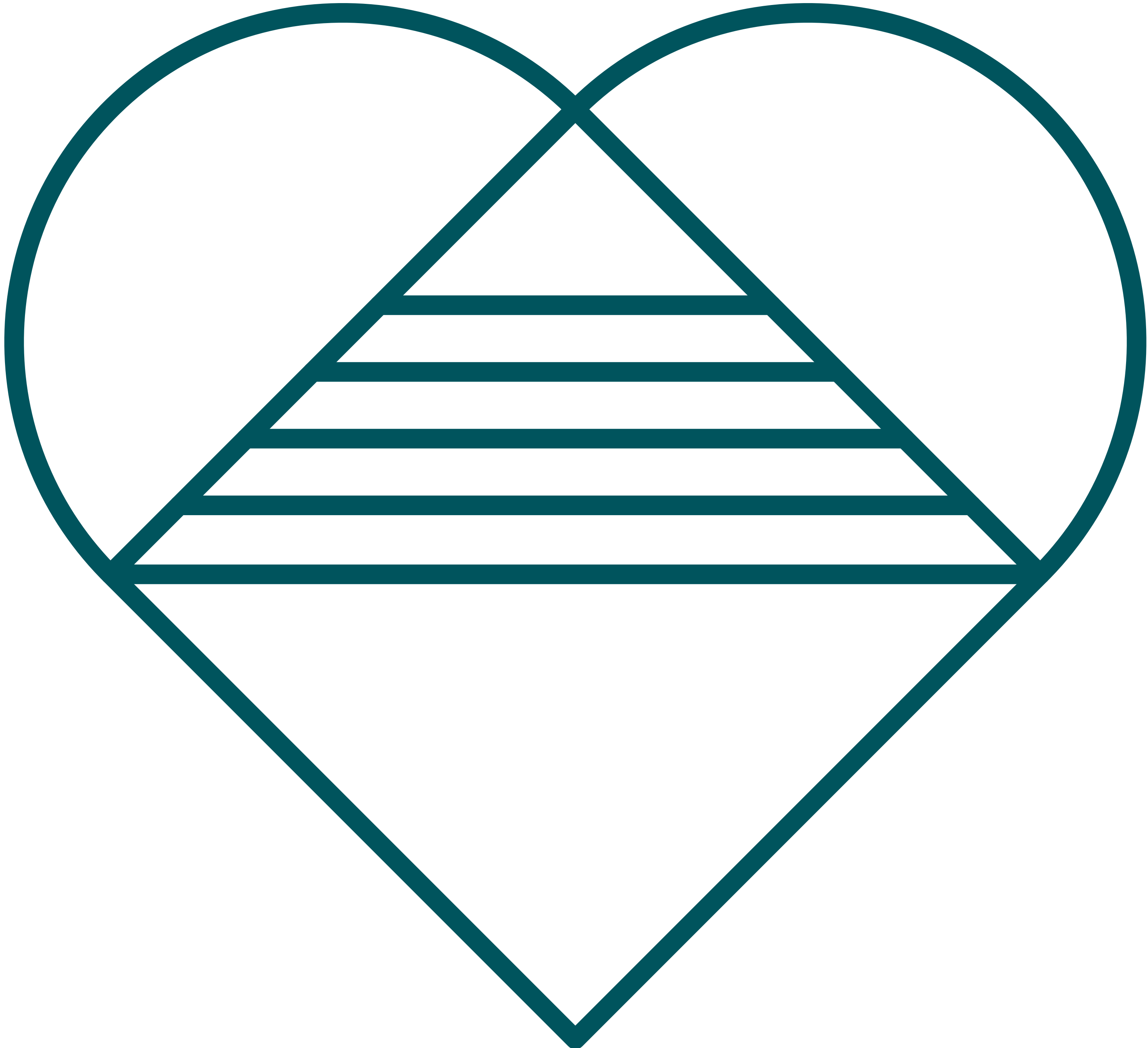
consuming for unhealthy living environment

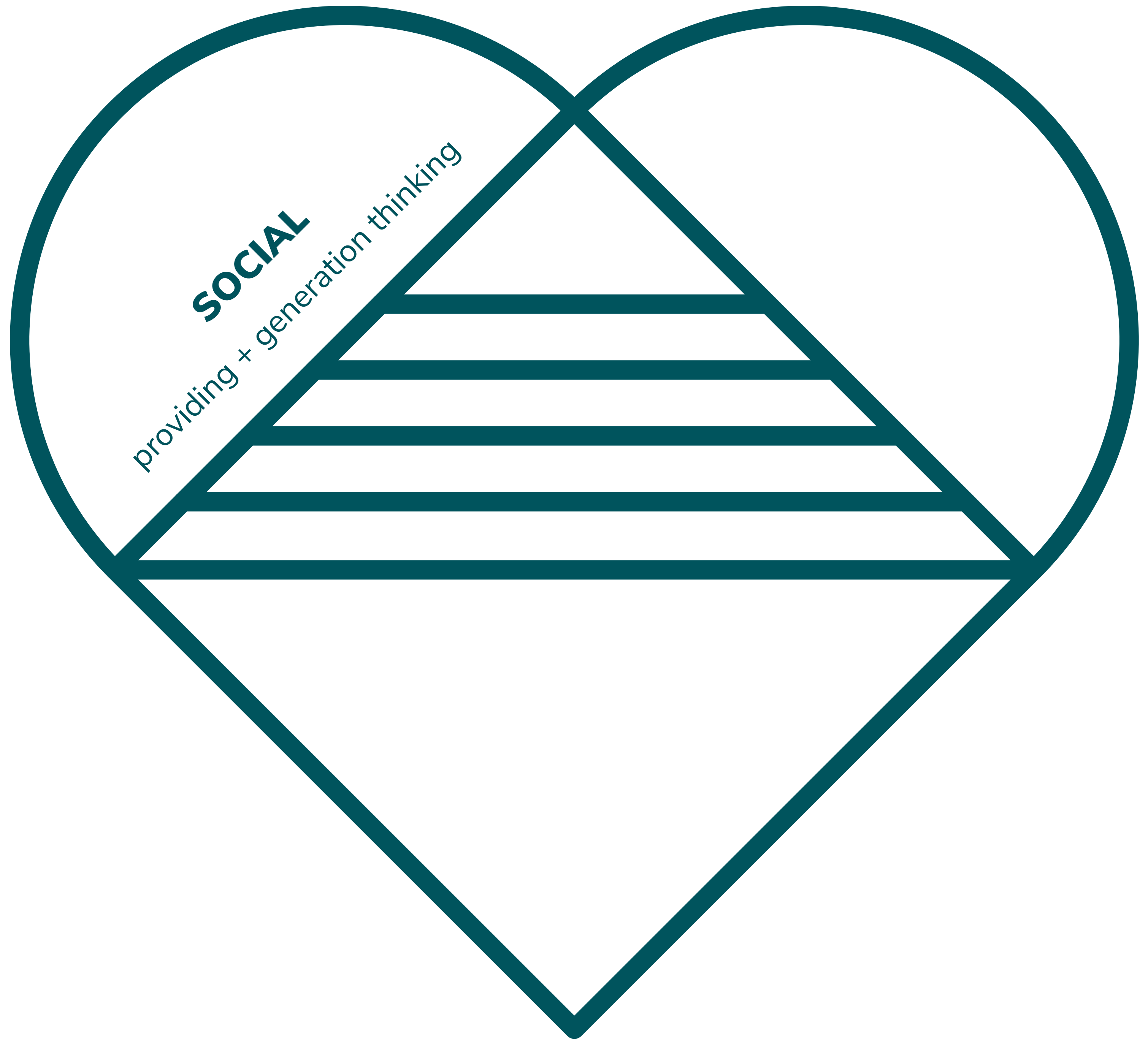
less
 biodiversity
 more
 energy/materials
 recycle
 CO2 intensive

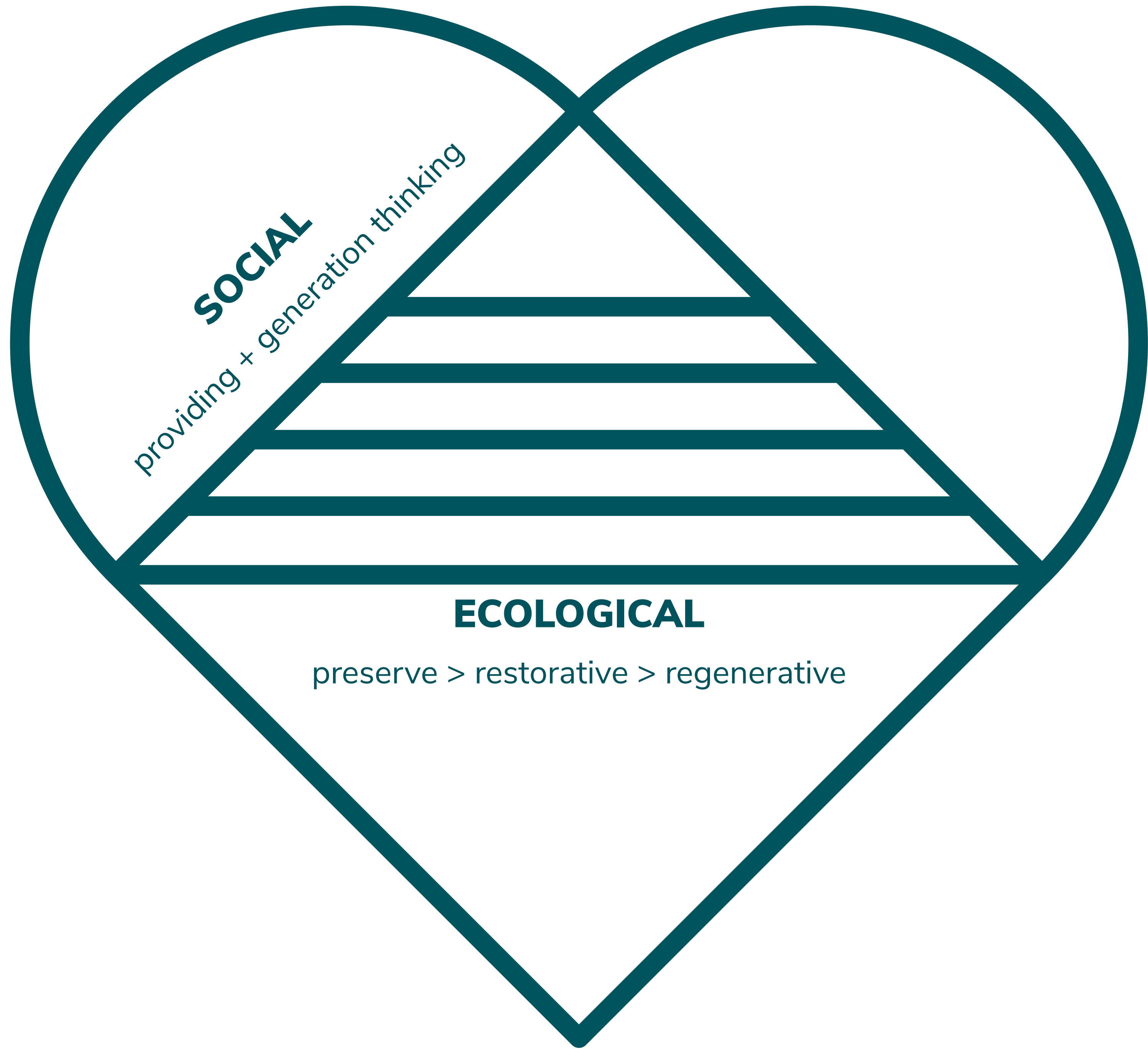


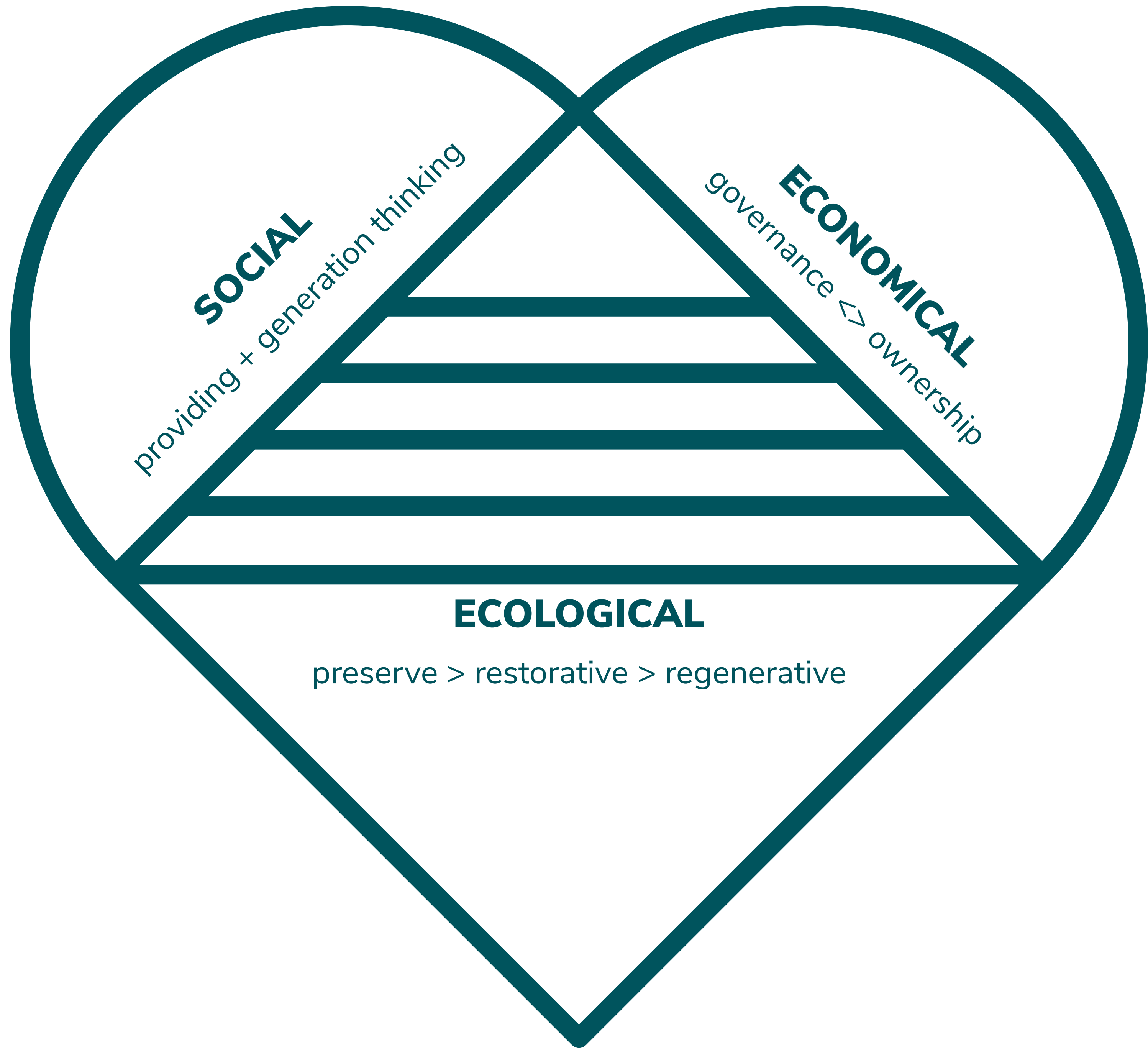
Figure is an adoptive from Bill Reed's "Trajectory of Ecological Design" Diagram with interpretations and perspective of NewEconomy.eco

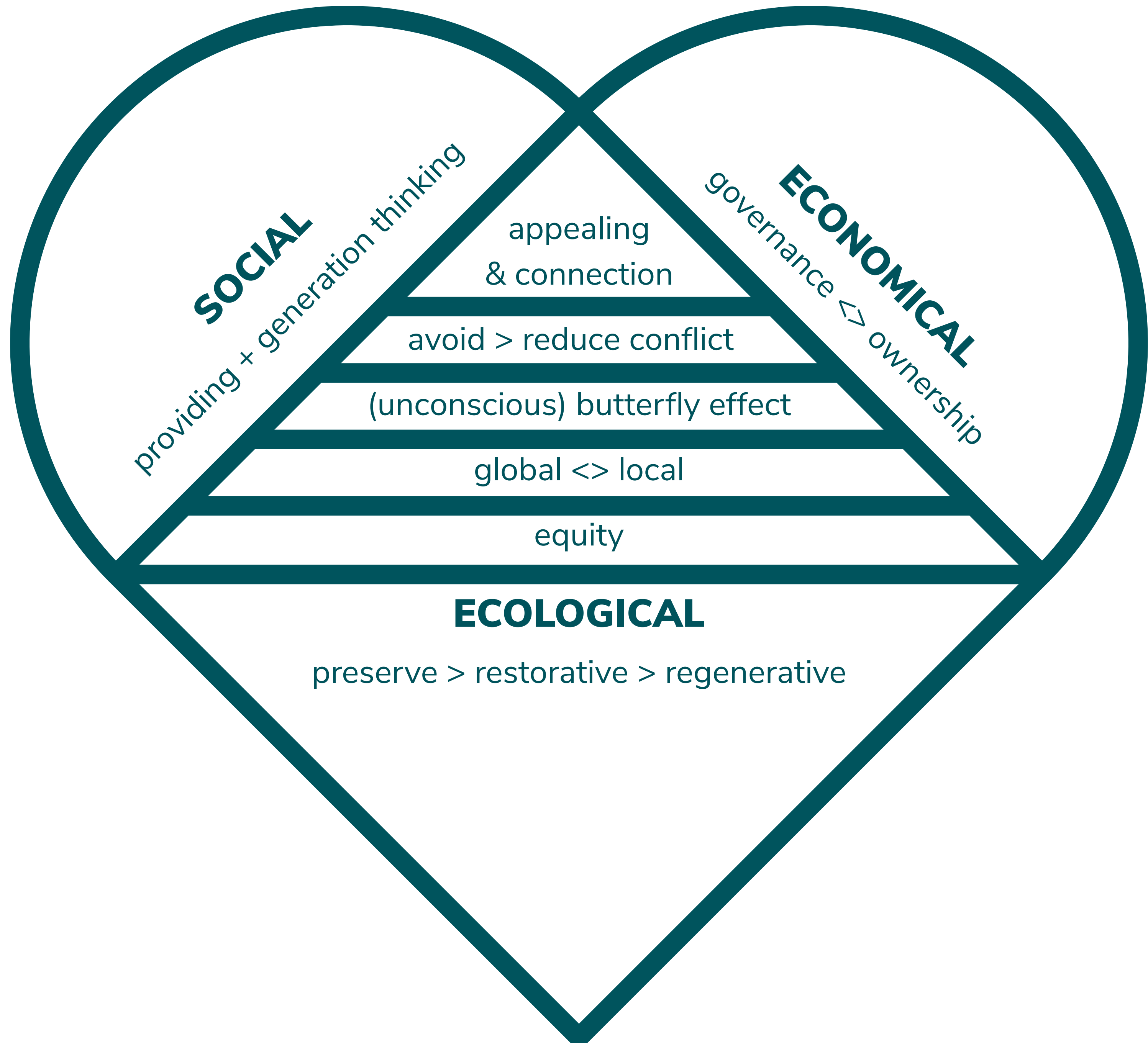


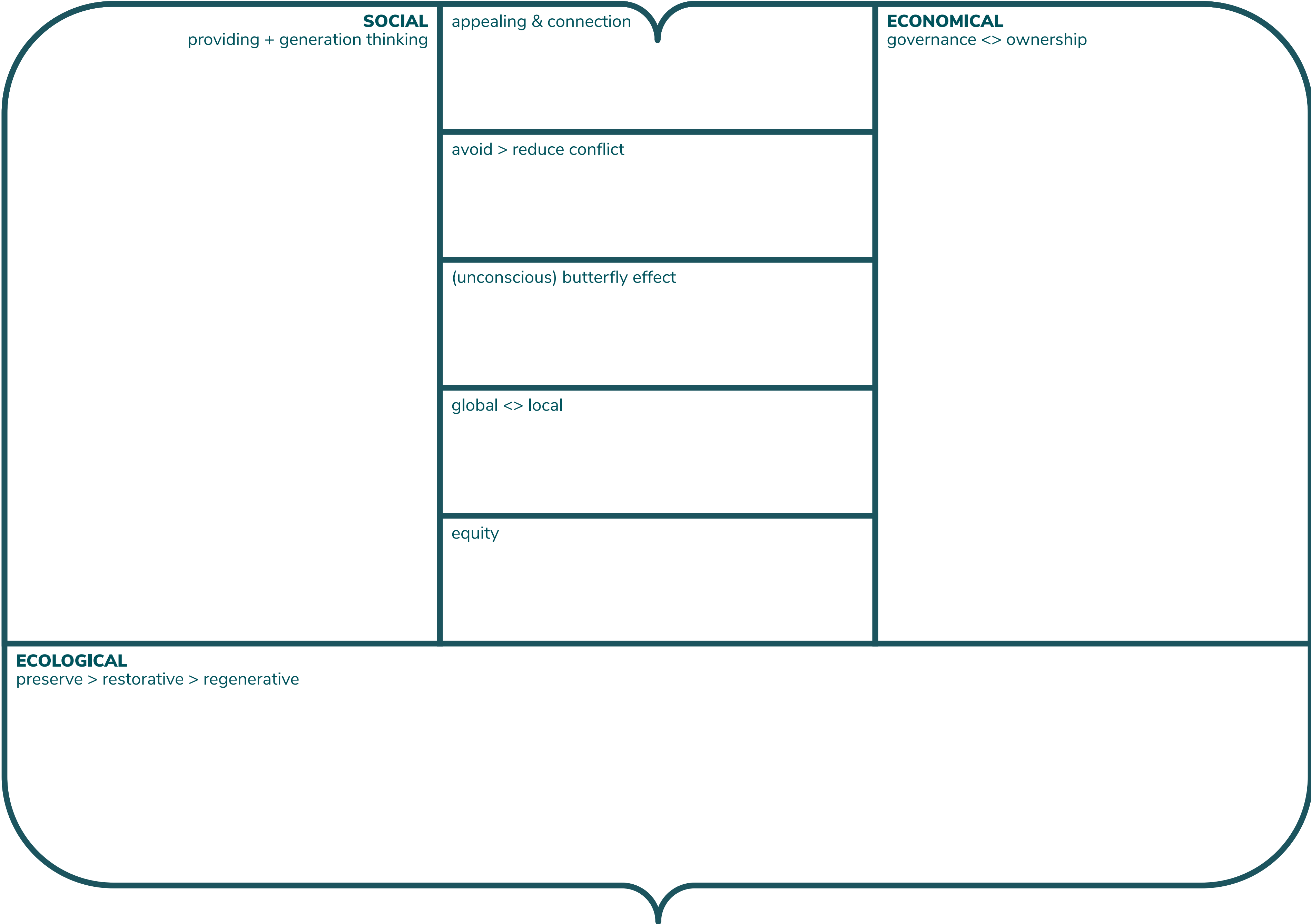






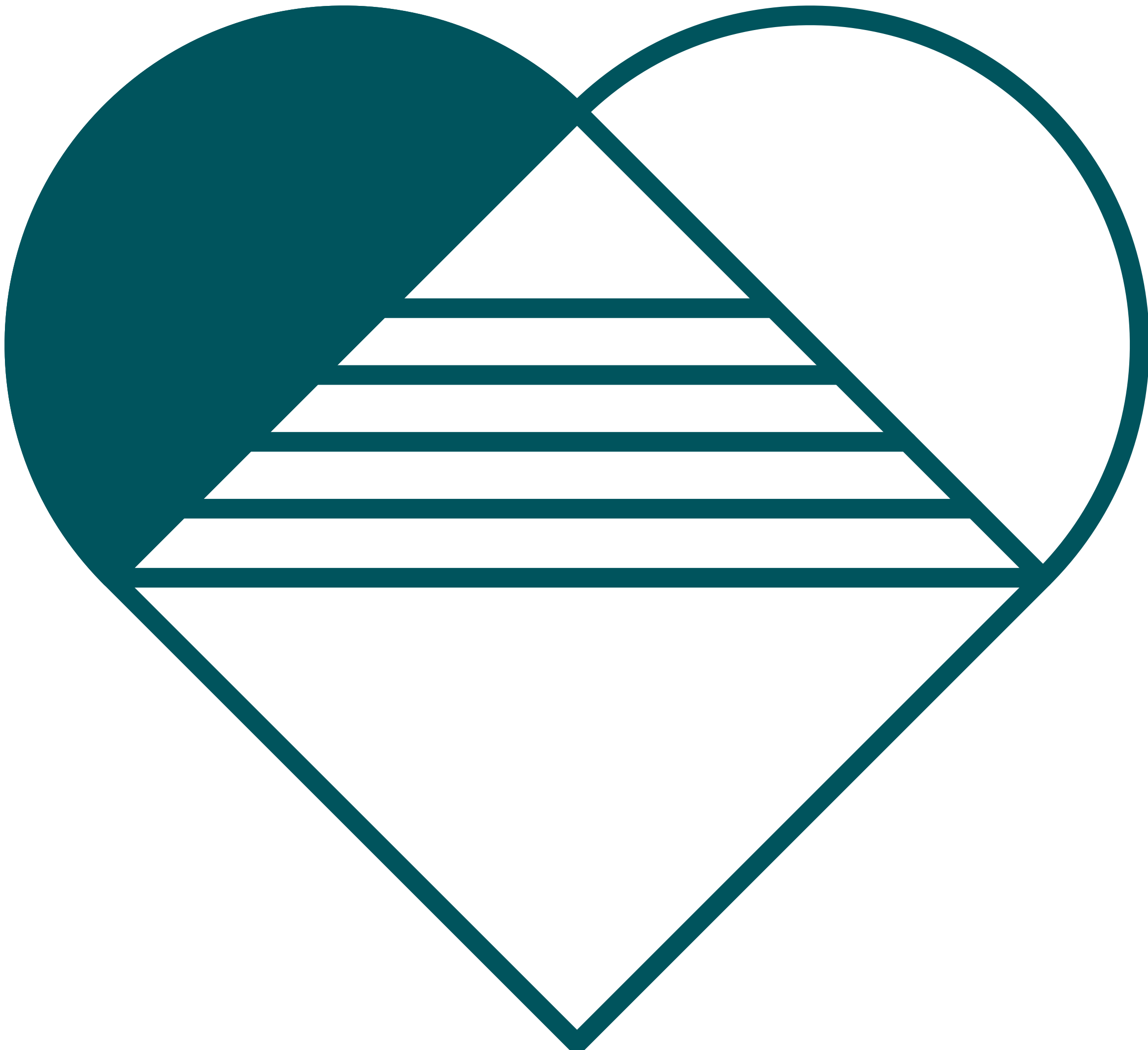






Social:

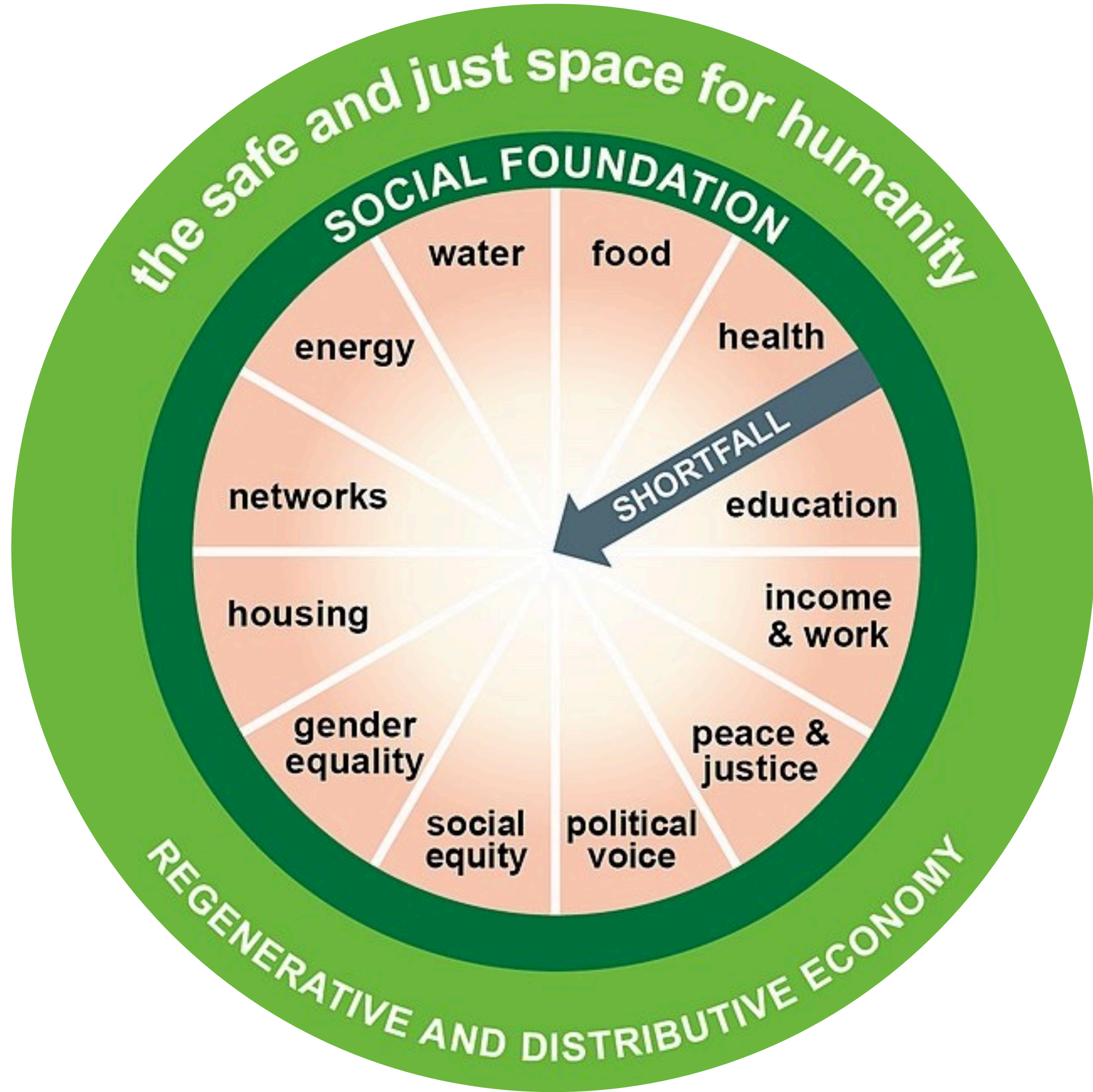
providing
+ generation thinking



Sociale fundament



Wat kan je bijdragen?



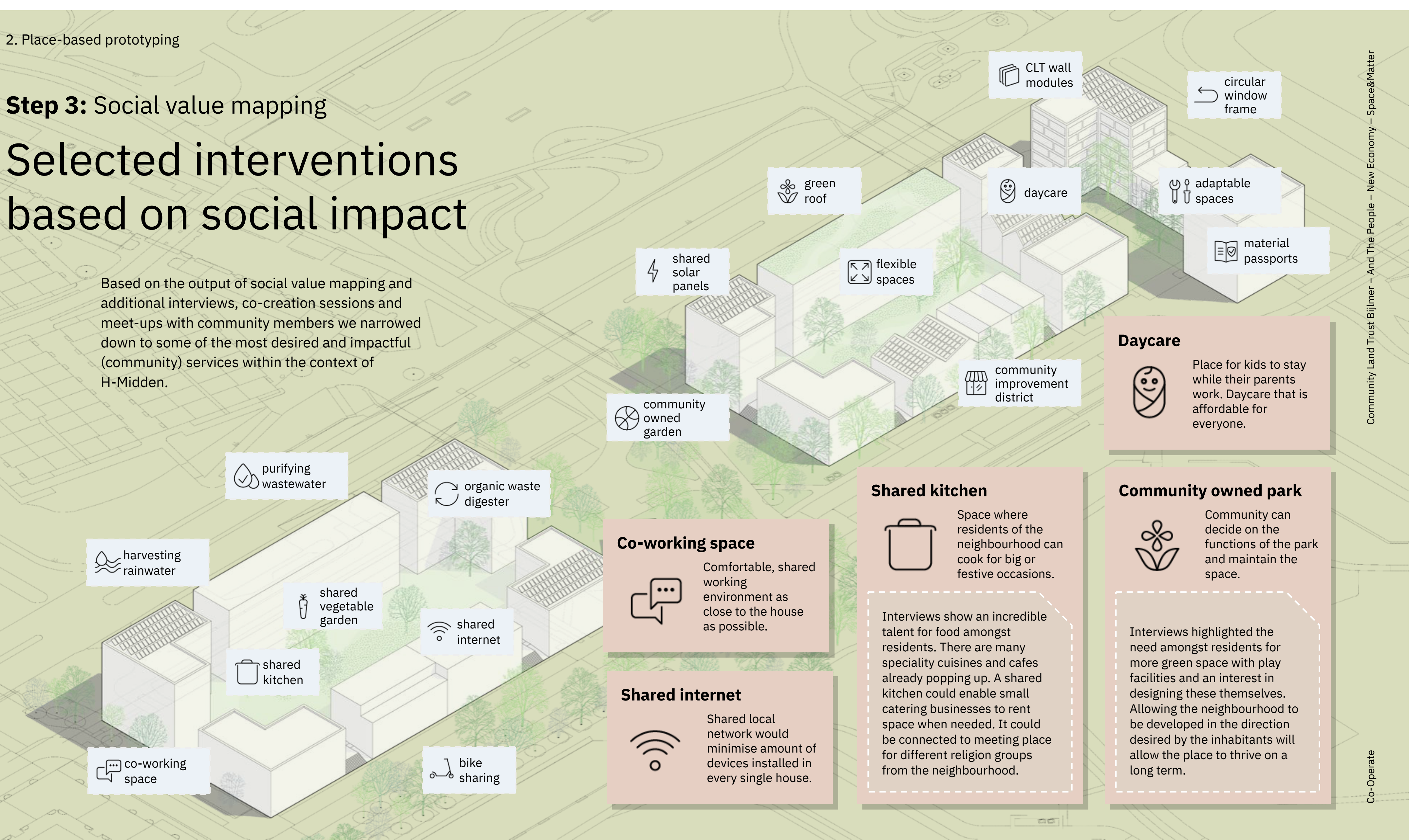


2. Place-based prototyping


Step 3: Social value mapping

Selected interventions based on social impact

Based on the output of social value mapping and additional interviews, co-creation sessions and meet-ups with community members we narrowed down to some of the most desired and impactful (community) services within the context of H-Midden.



Daycare



Place for kids to stay while their parents work. Daycare that is affordable for everyone.


Shared kitchen



Space where residents of the neighbourhood can cook for big or festive occasions.


Interviews show an incredible talent for food amongst residents. There are many speciality cuisines and cafes already popping up. A shared kitchen could enable small catering businesses to rent space when needed. It could be connected to meeting place for different religion groups from the neighbourhood.

Co-working space



Comfortable, shared working environment as close to the house as possible.

Shared internet



Shared local network would minimise amount of devices installed in every single house.

Community owned park



Community can decide on the functions of the park and maintain the space.

Interviews highlighted the need amongst residents for more green space with play facilities and an interest in designing these themselves. Allowing the neighbourhood to be developed in the direction desired by the inhabitants will allow the place to thrive on a long term.

Community Land Trust Bijlmer – And The People – New Economy – Space&Matter

Co-Operate



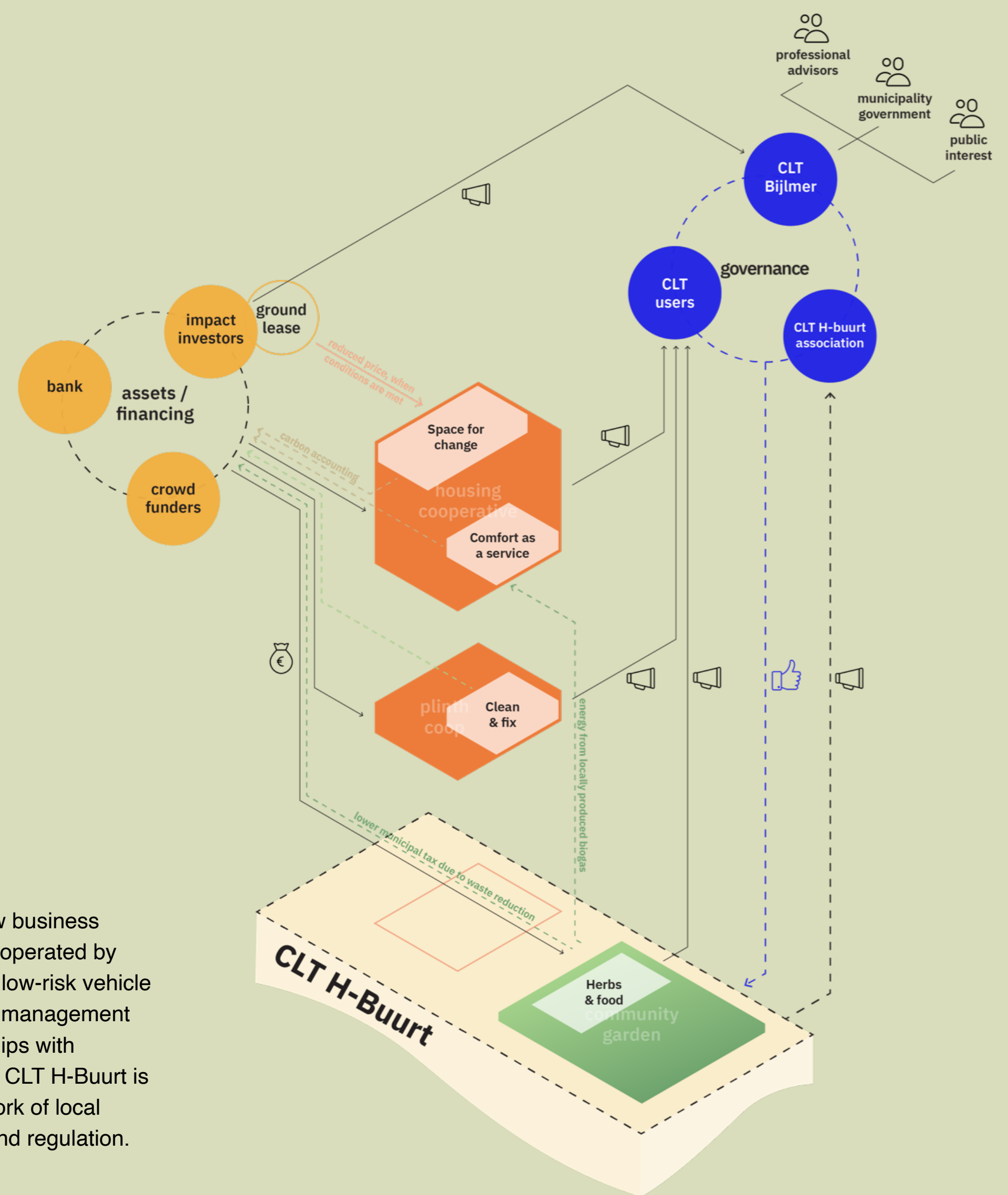


2. Place-based prototyping

Towards ownership models for a circular CLT

The key features of the CLT model in Amsterdam are that land remains in the technical ownership of the municipality but a contractual agreement is established whereby the municipality agree to lease the land for perpetuity to the CLT, based on conditions of continued community ownership and development according to circular economy principles which support Amsterdam's ambitions to become the world's first Doughnut city.

It is within these parameters that new business models for a circular neighbourhood operated by CLT H-Buurt sit. The CLT provides a low-risk vehicle into which third parties invest, with a management board set up to govern the relationships with investors and suppliers. For support, CLT H-Buurt is able to draw on its pre-existing network of local experts in the fields of law, finance and regulation.



Community Land Trust Bijlmer – And The People – New Economy – Space&Matter

Co-Operate





3. Use cases

1

Herbs & food

3

Space for change

2

Environmental
Comfort as a
service

4

Clean & fix

Community Land Trust Bijlmer – And The People – New Economy – Space&Matter

Co-Operate

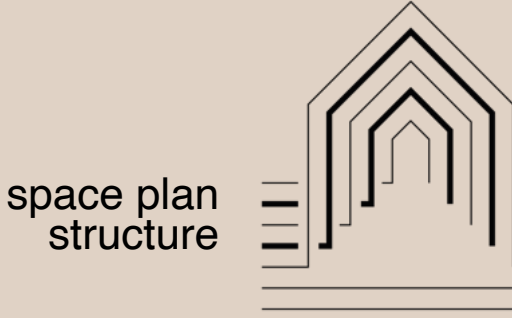








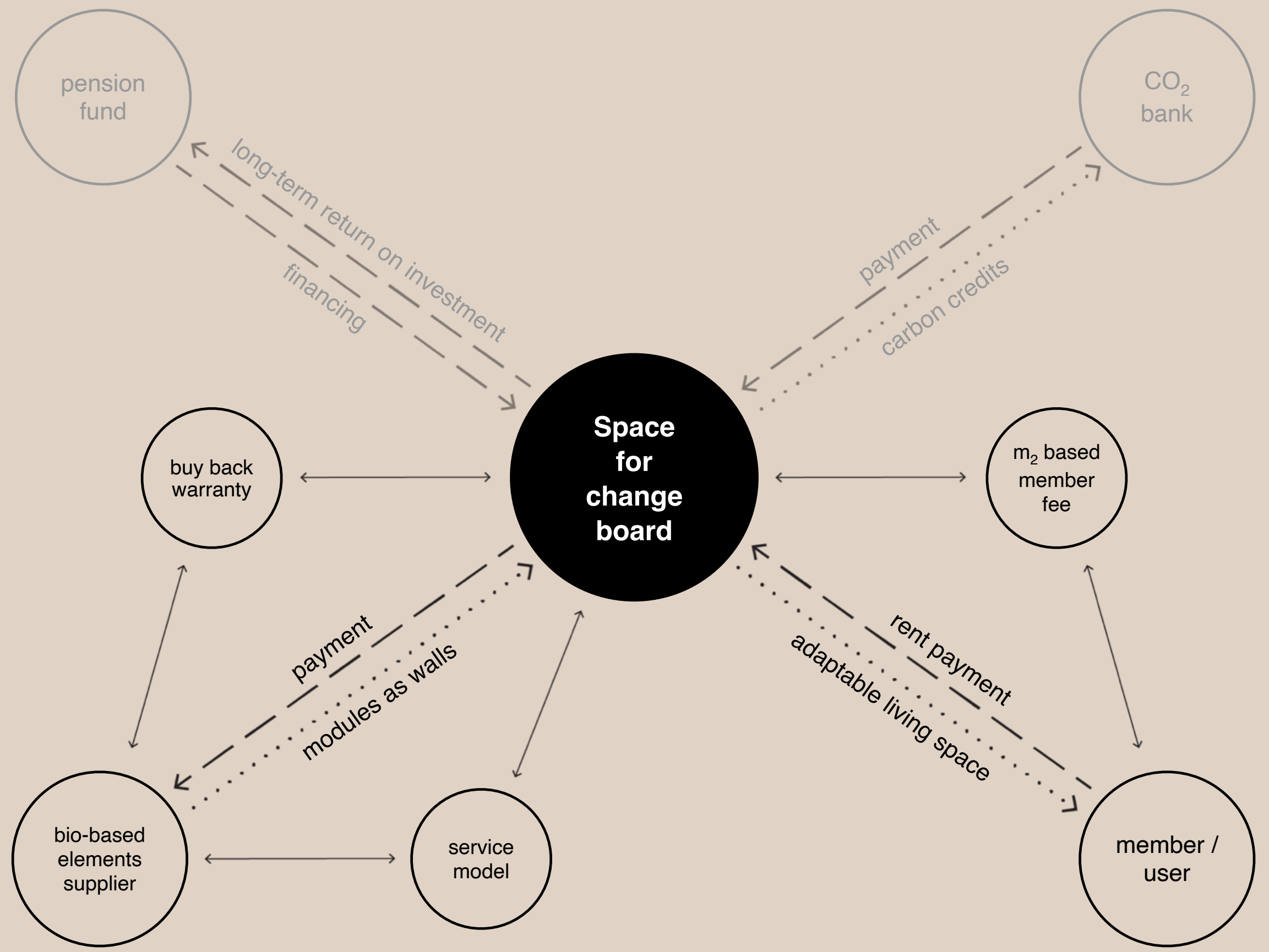
3. Use cases

Use case 3

Space for change



-  Matching investor to lifecycle
-  Long-term investing
-  Impact accounting
-  Timebanking



Building structure designed according to an [Open Building](#) model, allowing users to reconfigure space plan over generations. As a single resident you can live comfortably in a 60sqm apartment for 5 years and when your family grows, reconfigure the walls and have 1 or 2 rooms more. The CLT organisational model facilitates collective decision-making regarding interior functions and layout and adaptability for future generations is guaranteed.

If you are handy, you can also join the construction team within the CLT and cut your monthly costs by contributing some of your time and helping neighbours in renovation works. Elements are designed for disassembly from bio-based materials like Cross Laminated Timber which sequester carbon and retain their residual value after reconfiguration. Each wall element is returned to the supplier via a leasing model. The supplier takes them back, cleans and leases again, keeping the product in the market as long as possible.

Community Land Trust Bijlmer – And The People – New Economy – Space&Matter

Co-Operate





3. Use cases

Use case 3

Space for change

Impacts quantified

Household cost savings

Cost savings range from €200 - €230 per household each year, depending on building condition and planned retrofits or large adjustments to buildings. Cost savings grow cumulatively over time as less investment required for demolition, refurbishment and retrofit.

1

Increased staying power

Approximately 18% of the people in Amsterdam move each year so that after 5 years. But [research](#) shows that Community Land Trusts enhance neighborhood stability by preventing displacement of low-income households, and maintaining optimal unit conditions.

2

Carbon sequestration

A typical tree can absorb around 21kg of CO2 per year. If we use Cross Laminated Timber each kg of concrete in a building can be replaced by 0.34kg of timber. With a concrete core and CLT floors and walls we reduce the concrete mass to just 15% of the Business as Usual, reducing CO2 emissions significantly.

3

Reducing life cycle costs

Space for Change has high potential for life cycle cost reductions. The biggest cost savings occur during Demolition stage. In addition the residual value of the building remains higher than non adaptable buildings. Case studies on circular and adaptive kitchen have shown 10% life cycle cost savings.

4

Impacts

	1st generation	2nd - 6th generation	7th generation
Social impacts	Increased agency in neighbourhood development	Residents stay longer in the community, strengthening it ²	Building and community have grown together
Financial impacts (CLT)	Reduced costs for renovation due to modular system	Reduced costs for adaptation to new uses and family type	Building lasts much longer, reducing costs for rebuilding ¹
Environmental impacts	Timber components sequester carbon ³	Fewer new materials consumed due to lease service ⁴	Carbon positive building is achieved, no new materials
Regulatory impacts	Incentives established for open building systems	Zoning moves from fixed programme to performance	(Digital) collaboration space with municipality
Material lifecycle impacts	Space Plan lifecycle is 15 years Structure lifespan is 100 years		

Community Land Trust Bijlmer – And The People – New Economy – Space&Matter

Co-Operate






1. Framework for seven generations


Defining a neighbourhood for seven generations

Taking a seven generation perspective forces us to think long-term. Inspired by the Iroquois Confederacy, a neighbourhood for seven generations is one in which decisions are considered from the perspective of future residents, in addition to present concerns. By taking this approach we strive for a neighbourhood in which social, environmental and economic values are in balance.




Inclusive & affordable for perpetuity

A place where residents can access affordable housing for generations to come. Where a community thrives based on the synergy of unique talents and skills of its members. Where residents directly influence their living environment through coordinated action and feel comfortable to voice their needs.



Nature-based

A place where ecological value is created by residents and nature-based solutions are first selection. Energy comes from renewable sources and materials are recovered at the highest value possible. The environment is biodiverse and walkable with human-scale streets, buildings and public spaces too.



In constant transformation

A neighbourhood that can adapt to future uses and technologies by leaving room for experimentation and appropriation by end users. Which supports self-organising capacity with collective facilities. Where new models of ownership lead to continuous reuse of structures in novel ways.

Community Land Trust Bijlmer – And The People – New Economy – Space&Matter

Co-Operate





1. Framework for seven generations

A framework for impacts across seven generations

In order to describe the core aspects and resulting effects of finance and ownership models designed for seven generations, we have developed a framework. This describes (1) the requirements to enable each business model as well as (2) the impacts across key fields.

This table describes how we use the framework to project the impacts of each model across future generations. Later on we fill the framework with the detail of each use case.

Requirements

User requirements	What is required from the user?
Supplier requirements	What is required from the supplier?
Technical requirements	What is required from legal contracts & regulations?
Spatial requirements	What is required from the building and land?
Governance & maintenance requirements	What governance / maintenance structure is required?

Impacts

	1st generation	2nd - 6th generation	7th generation
Social impacts	How does the model impact residents in the 1st generation?	How does the model impact the lives of residents in the 2nd - 6th generations?	How does the model impact the lives of residents by the 7th generation?
Financial impacts (CLT)	How does the model impact the finances in the 1st generation?	How does the model impact CLT finances in the 2nd - 6th generations?	How does the model impact the finances of the CLT by the 7th generation?
Environmental impacts	How does the model impact the environment in the 1st generation?	How does the model impact the environment in the 2nd - 6th generations?	How does the model impact the environment by the 7th generation?
Regulatory impacts	How does the model impact the municipality in the 1st generation?	How does the model impact the municipality in the 2nd - 6th generations?	How does the model impact the municipality by the 7th generation?
Material lifecycle impacts	How does the model impact building lifecycle in the 1st generation?	How does the model impact the lifecycle of the building in the 2nd - 6th generations?	How does the model impact the lifecycle of the building by the 7th generation?

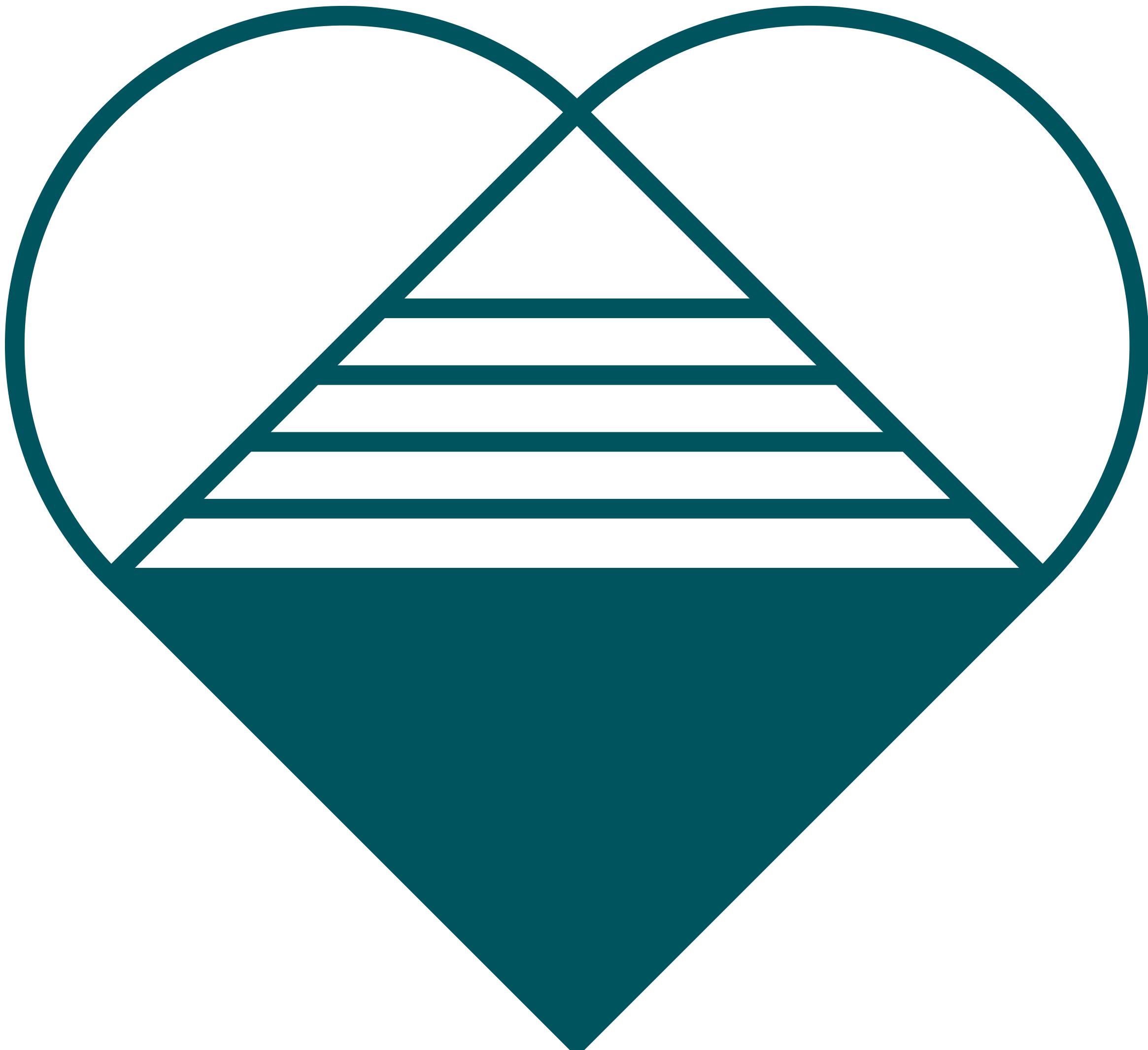
Community Land Trust Bijlmer – And The People – New Economy – Space&Matter

Co-Operate



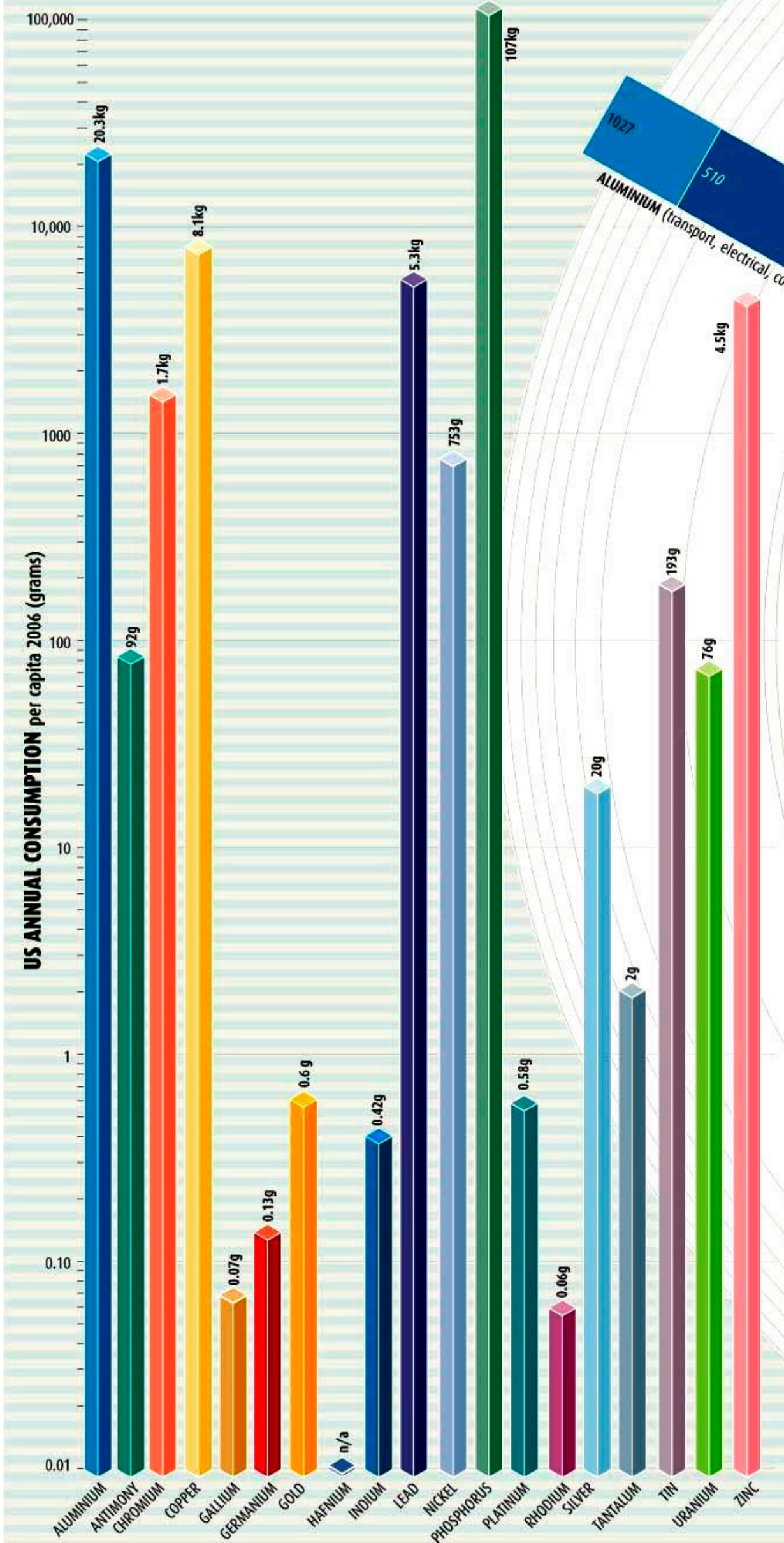
Ecological:

preserve > restorative > regenerative





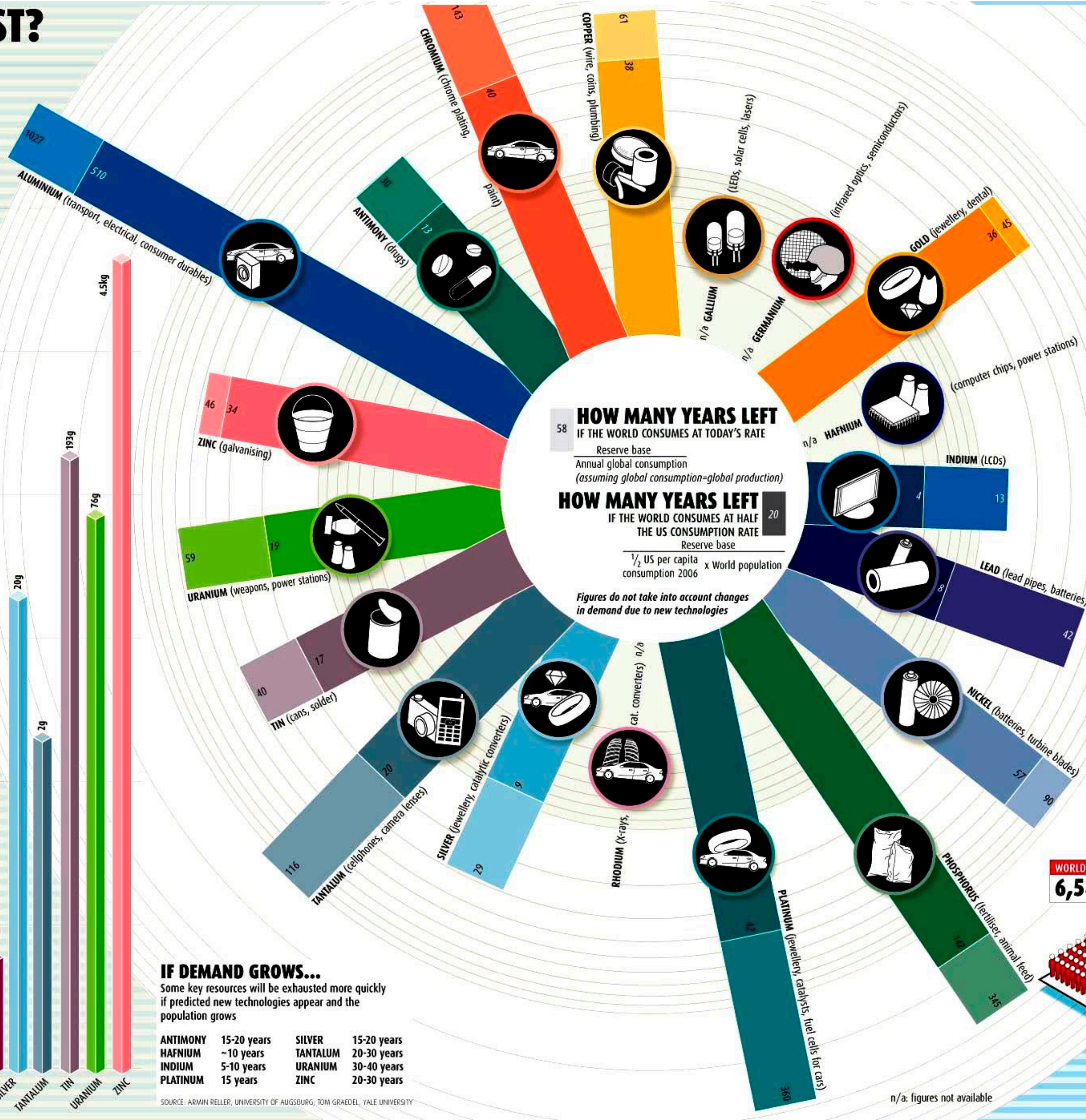
HOW LONG WILL IT LAST?



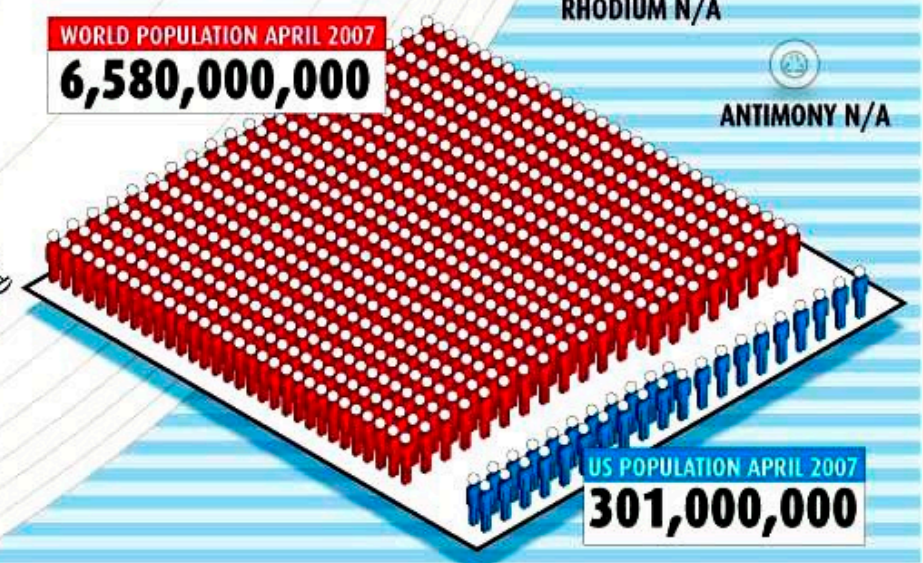
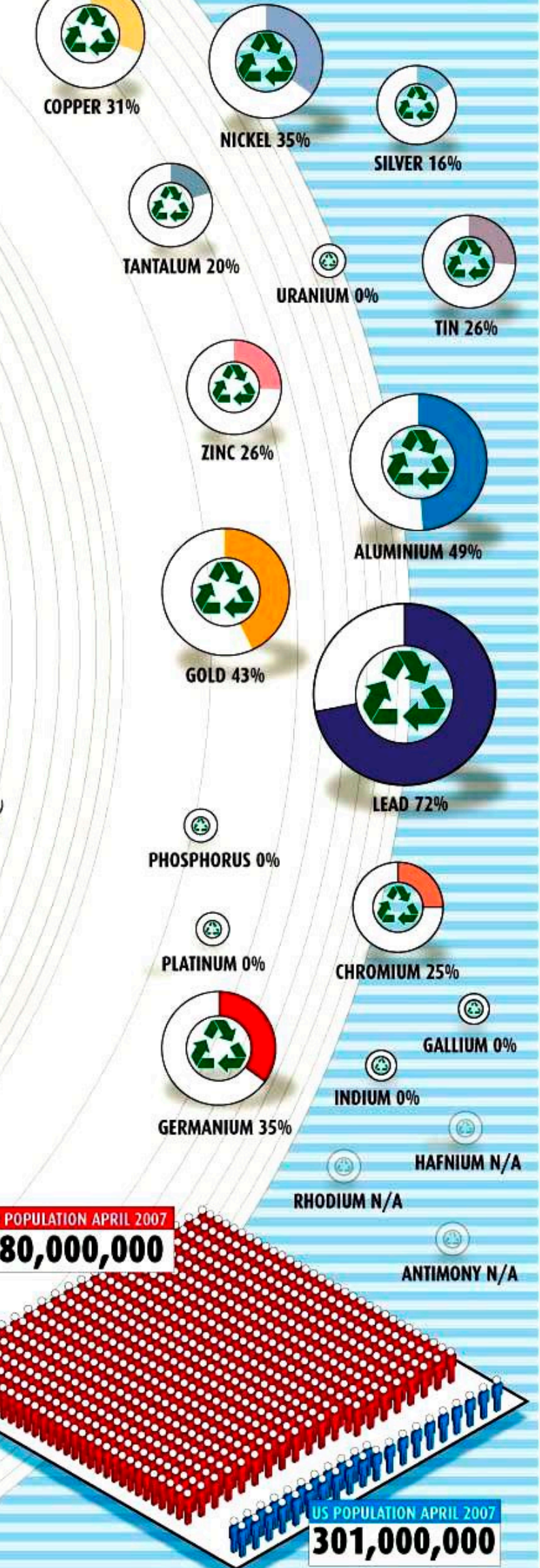
IF DEMAND GROWS...
Some key resources will be exhausted more quickly if predicted new technologies appear and the population grows

ANTIMONY	15-20 years	SILVER	15-20 years
HAFNIUM	~10 years	TANTALUM	20-30 years
INDIUM	5-10 years	URANIUM	30-40 years
PLATINIUM	15 years	ZINC	20-30 years

SOURCE: ARMIN RELLER, UNIVERSITY OF AUGSBURG; TOM GRAEDEL, YALE UNIVERSITY



PROPORTION OF CONSUMPTION MET BY RECYCLED MATERIALS (%)



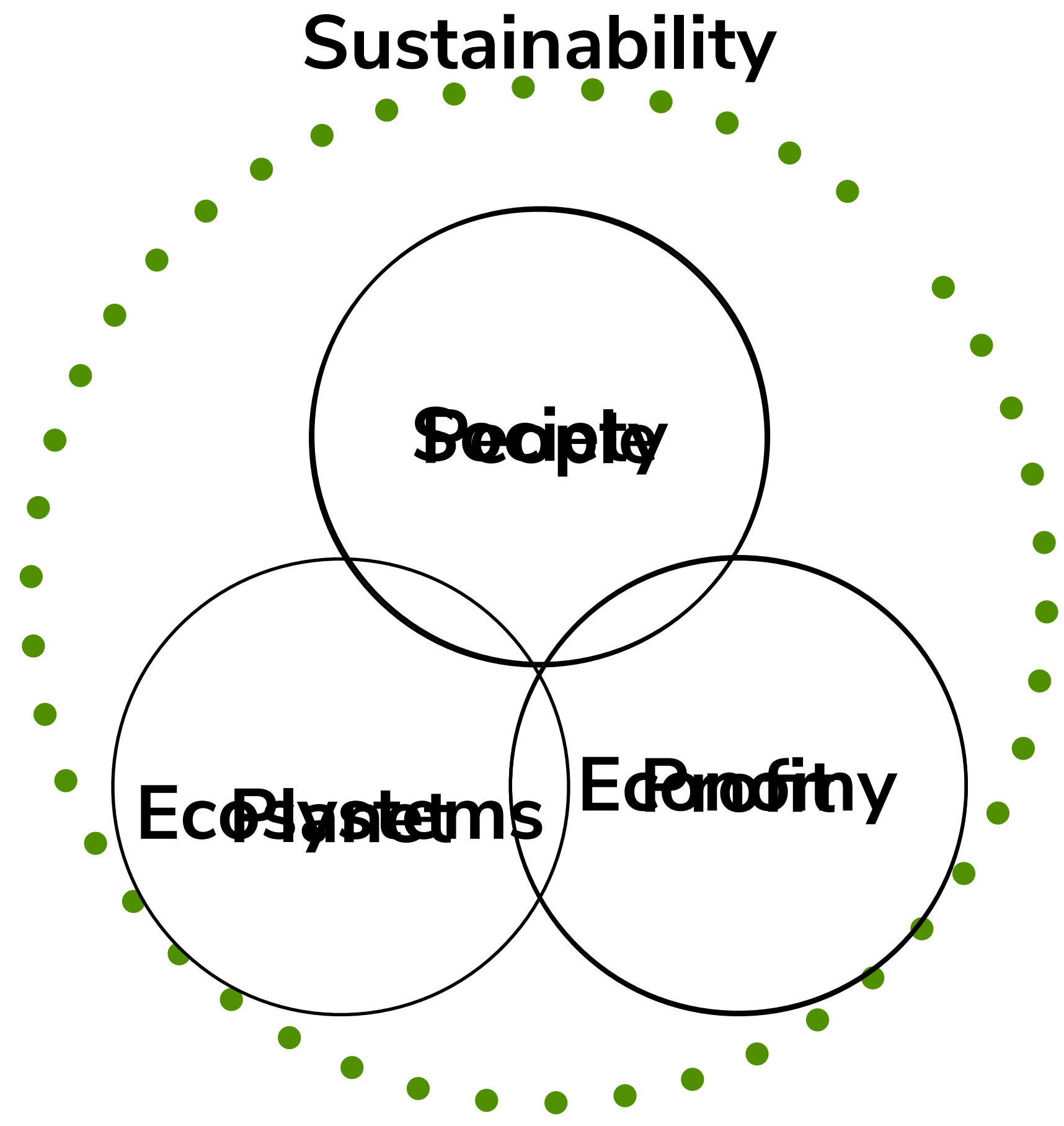
23rd May 2007
'Earth's natural wealth: an audit', David Cohen, New Scientist, no.2605 pp.34-41,

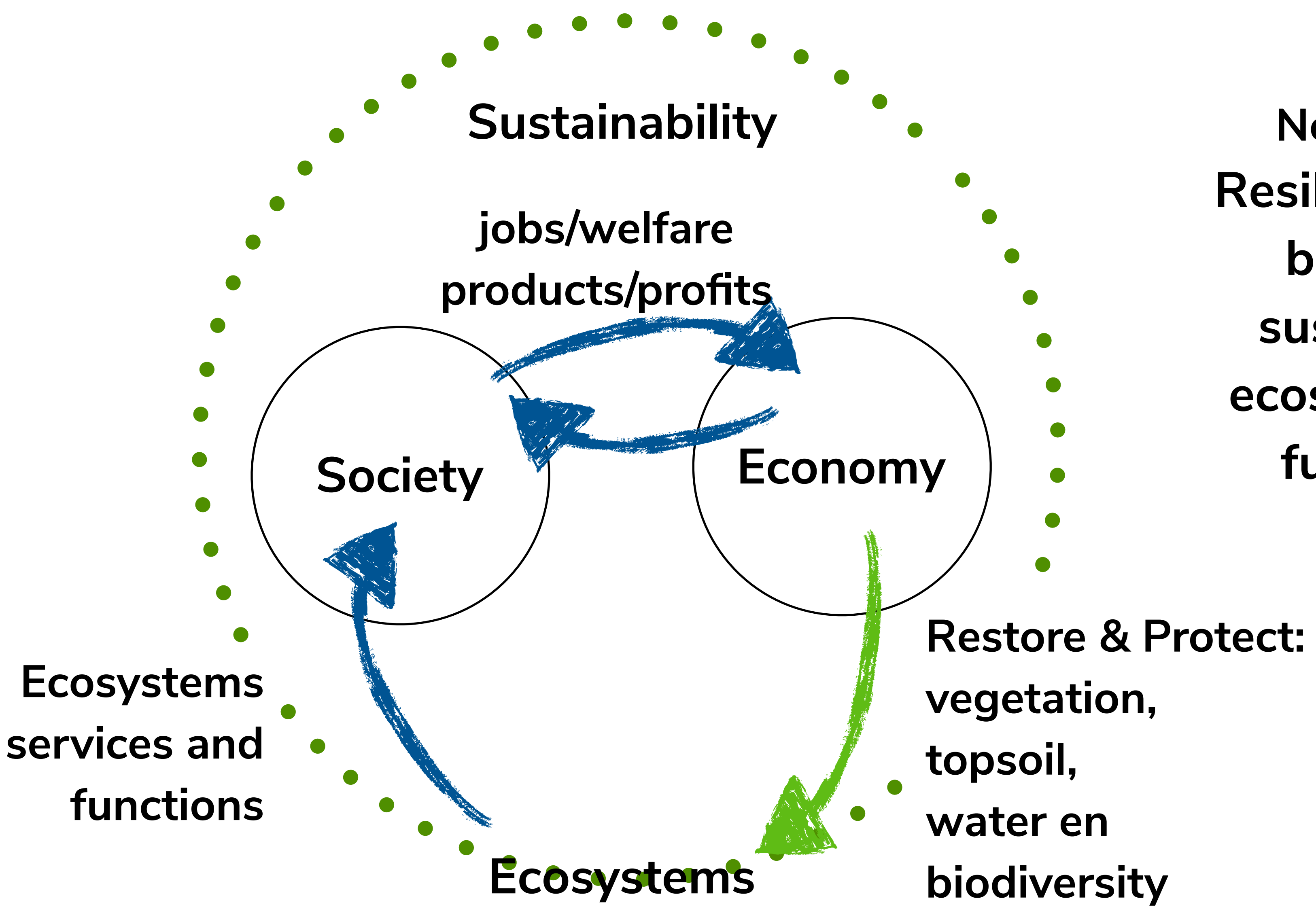




**Traditional view Triple-P:
Planet
People
Profit**

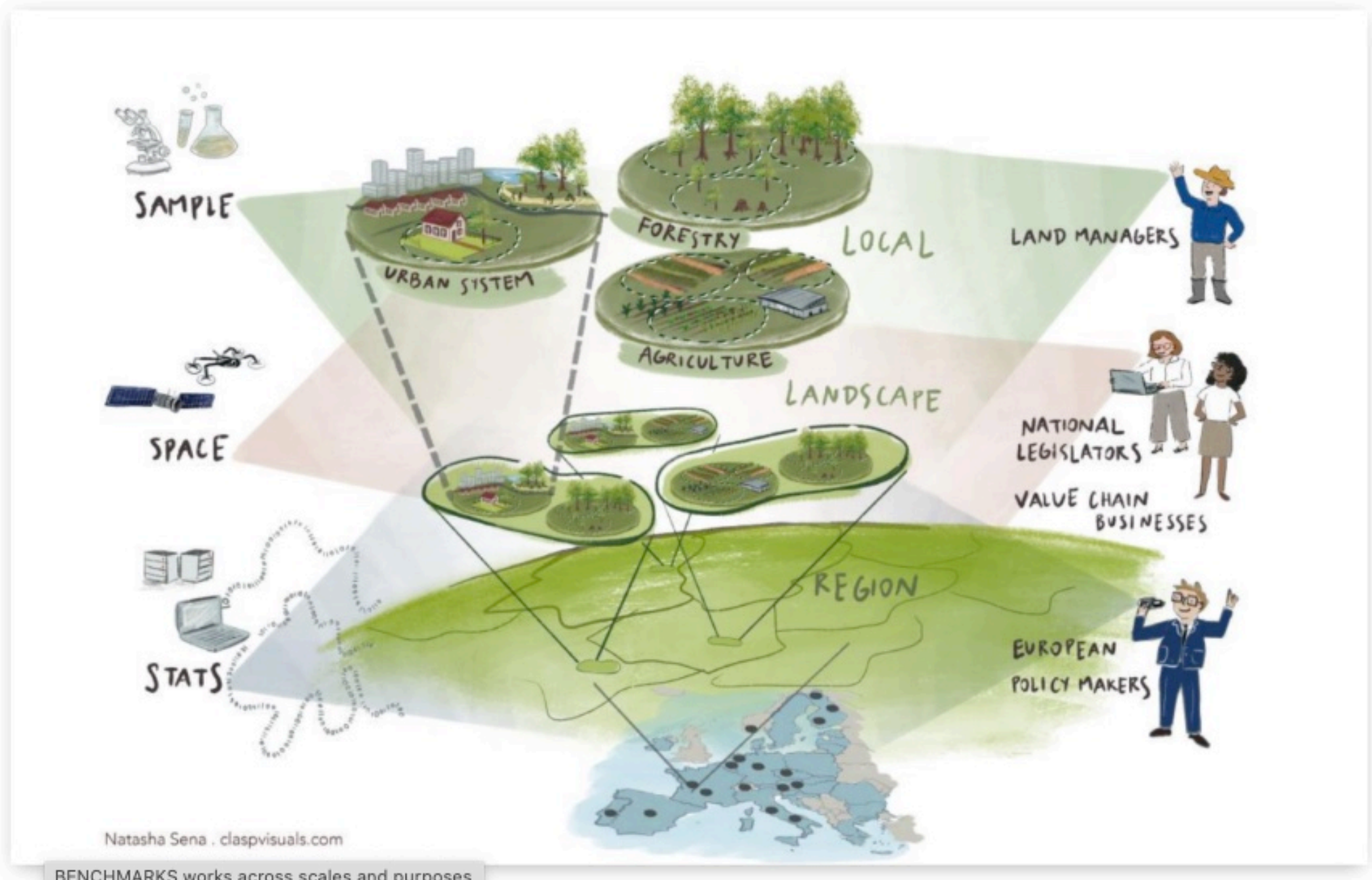
**Is not leading
to sustain our
ecosystems**





**New view:
Resilience is
based on
sustaining
ecosystems
functions**





Working across Scales and Purposes

BENCHMARKS proposes the co-development within 24 European case studies of a multi-scale and multi-user focused monitoring framework that is transparent, harmonised and cost-effective. Underpinned by the best scientific knowledge and technologies this framework provides a clear soil health index for benchmarking, using indicators that are pertinent to the objective of assessment, applicable to the land use and logistically feasible.

The Soil Health and Food (SH&F) mission board has set the goal to have 75% of European soils healthy or significantly improved by 2030. This is in line with other important European initiatives such as the Green Deal and EU Farm-to-Fork Strategy. Soil Health Benchmarks aims to validate and further develop indicators for soil health and functions.

 **60%**
Currently in Europe we have a vast percentage of soils that are considered unhealthy

 **75%**
The goal is to increase the share of healthy or significantly improved soils by 2030





2021-2050 Solutions

Food/ Agriculture & Land Sinks

How and what we
produce and
consume matters.

SOLUTIONS

Gt REDUCED CO2-eq
(Scenario 1 – 2)

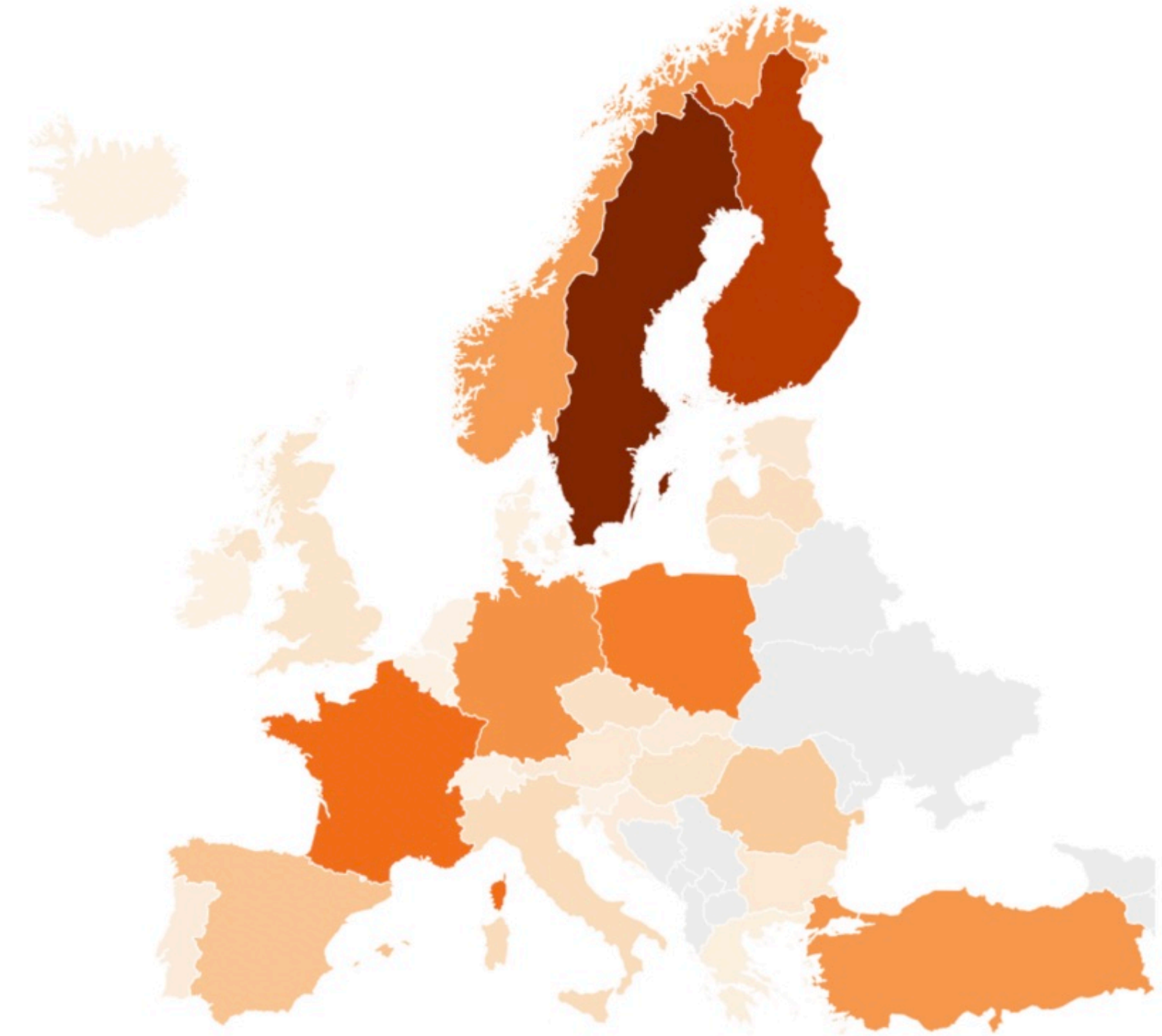
Reduced Food Waste	Food
Plant-Rich Diets	Food
Silvopasture	Agriculture/Livestock
Peatland Protection & Rewetting	Land Use
Tree Plantations on Degraded Land	Land Use
Temperate Forest Restoration	Land Use
Managed Grazing	Agriculture/Livestock
Perennial Staple Crops	Agriculture/Livestock
Tree Intercropping	Agriculture/Livestock
Regenerative Annual Cropping	Food, Agriculture, and Land Use/Sinks
Conservation Agriculture	Food, Agriculture, and Land Use/Sinks
Abandoned Farmland Restoration	Land Sinks
Multistrata Agroforestry	Land Sinks
Bamboo Production	Land Sinks
Forest Protection	Food, Agriculture, and Land Use/Sinks
Perennial Biomass Production	Land Sinks
Grassland Protection	Food, Agriculture, and Land Use/Sinks
Nutrient Management	Food, Agriculture and Land Use
Biochar Production	Engineered Sinks
Farm Irrigation Efficiency	Food, Agriculture, and Land Use
Coastal Wetland Protection	Food, Agriculture, Coastal and Ocean Sinks
Coastal Wetland Restoration	Coastal and Ocean Sinks





NBS Solutions to regional EU context

Europe Heatmap
Nature Based Solutions
Total GHG reduction potential (kilotonnes CO2-eq./year)



Reduced Food Waste
Plant-Rich Diets

Peatland Protection & Rewetting
Tree Plantations on Degraded Land

Managed Grazing
Perennial Staple Crops
Tree Intercropping
Regenerative Annual Cropping
Conservation Agriculture
Abandoned Farmland Restoration
Multistrata Agroforestry

Forest Protection

Grassland Protection
Nutrient Management
Biochar Production
Farm Irrigation Efficiency
Coastal Wetland Protection
Coastal Wetland Restoration

ReCAP
BIO REGIONS
± 10 solutions
80% impact





NBS Solutions to regional EU context

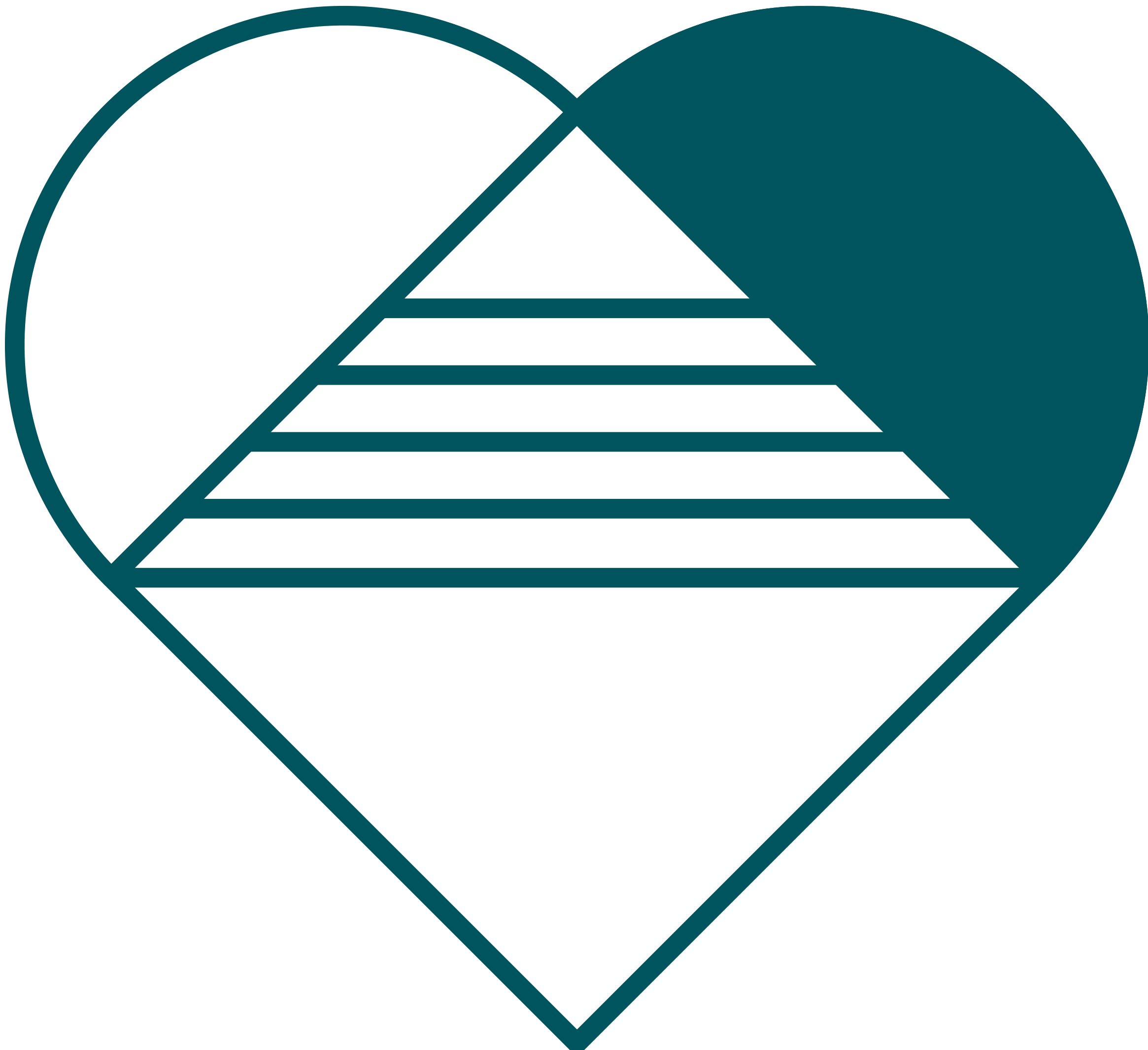
Size by:

Allocated land area (square kilometers) ▾



Economical:

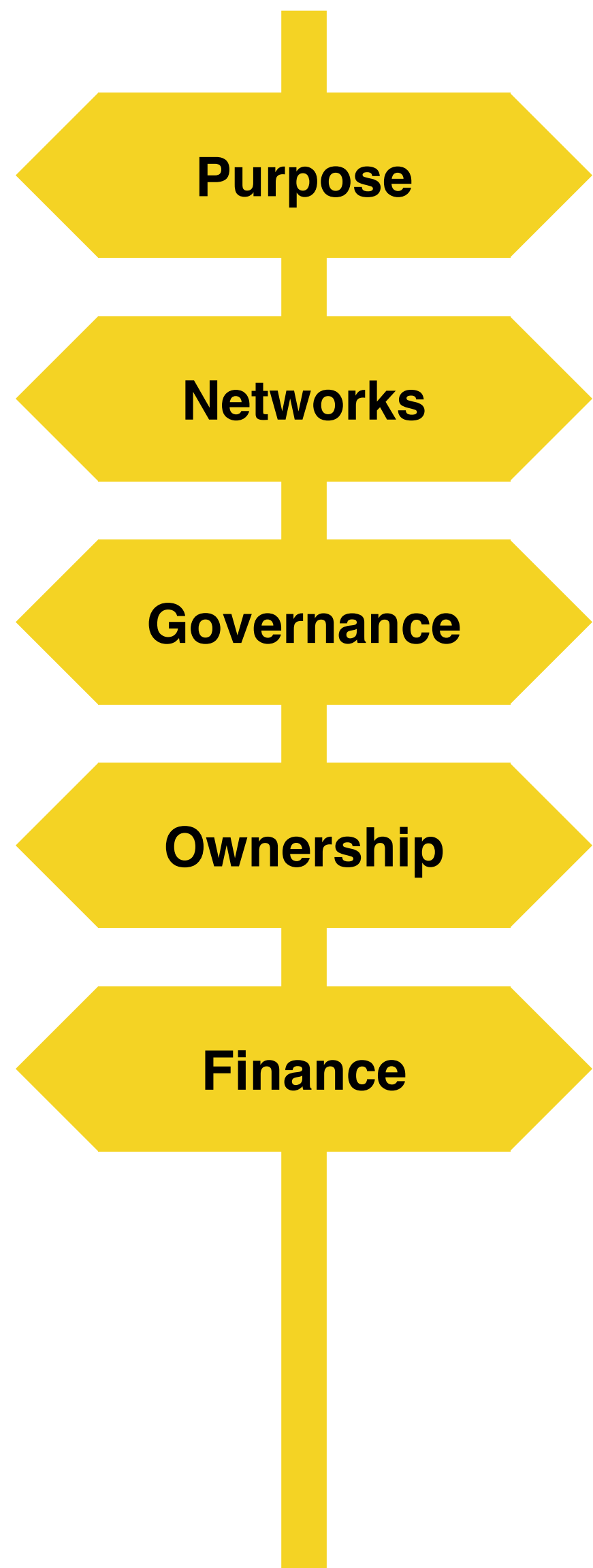
governance <> ownership



Waardehouders vs. ~~aandeelhouders~~



Collectieve missie



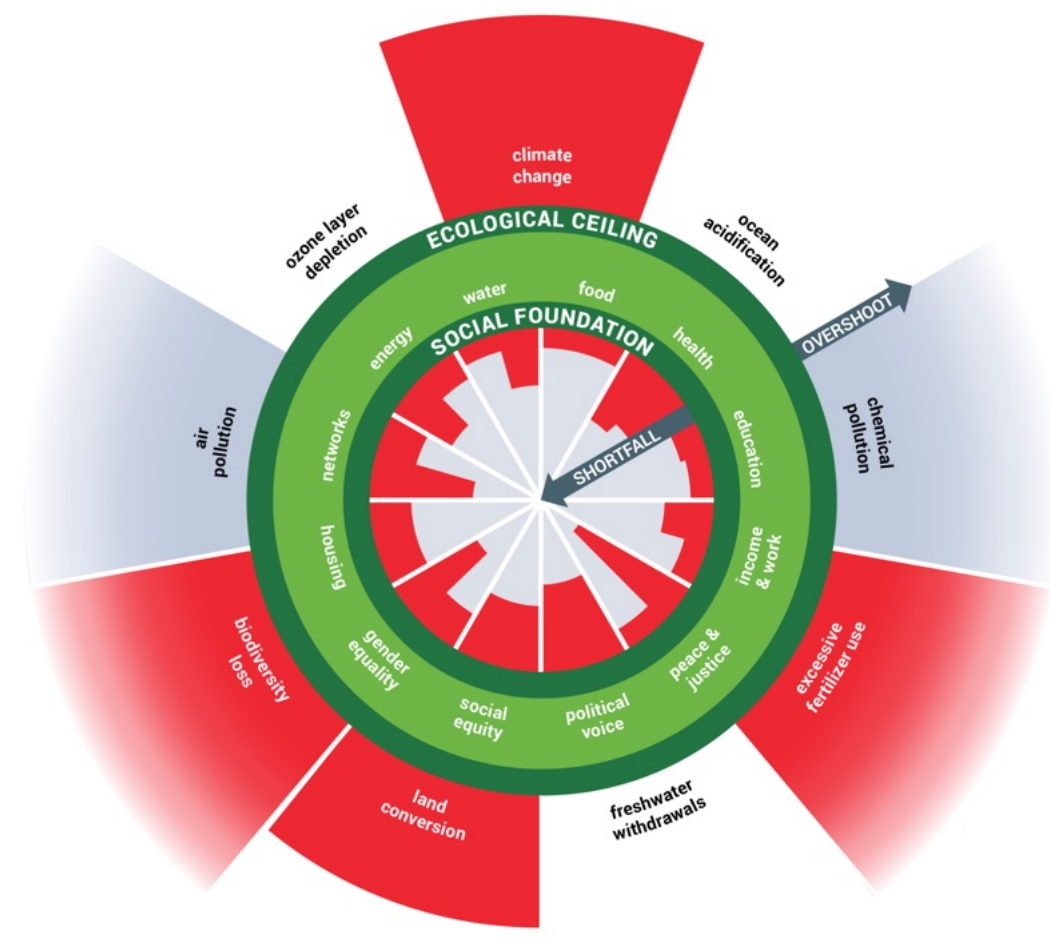


Doughnut Design for Business

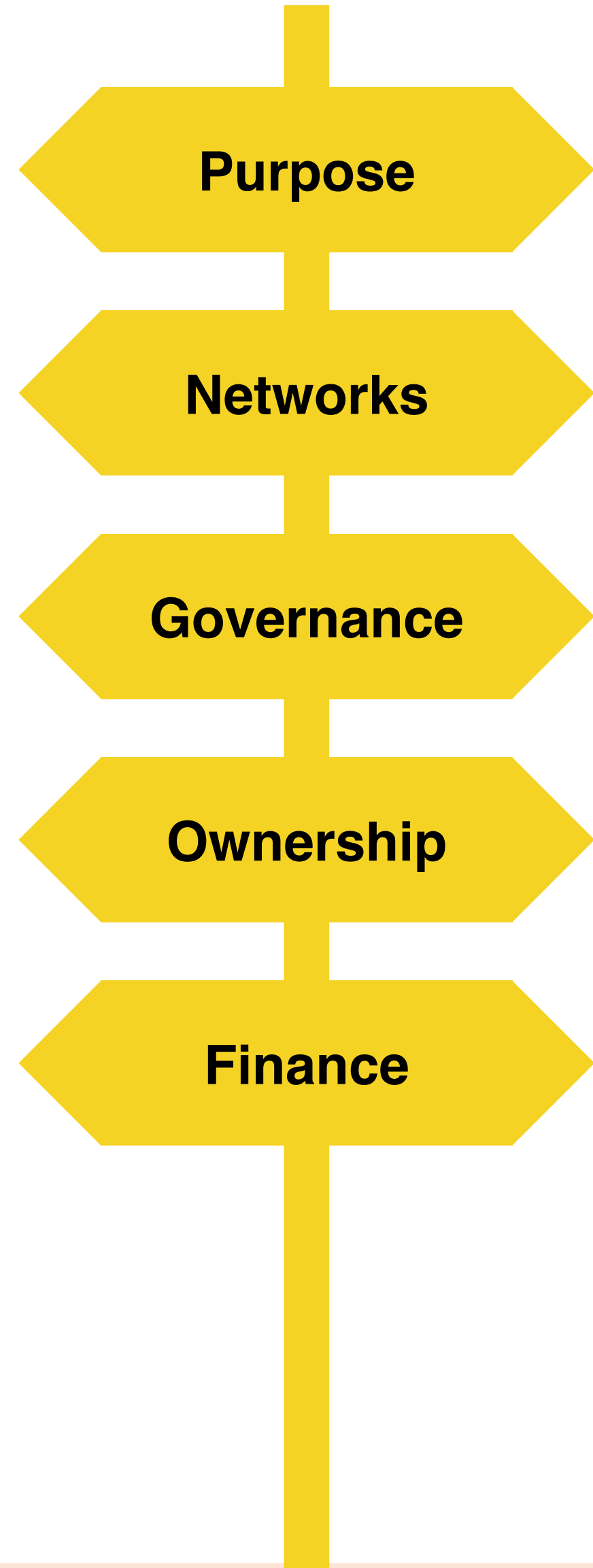
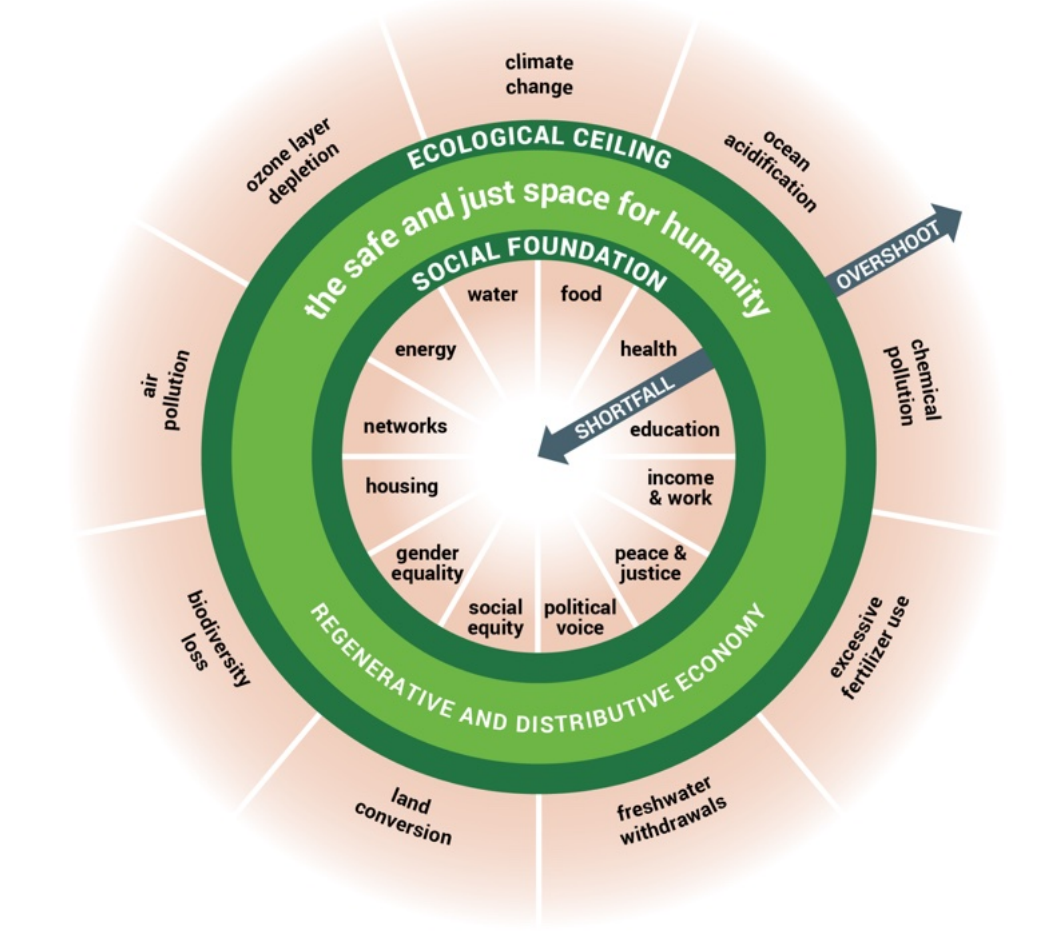
Redesigning businesses through Doughnut Economics



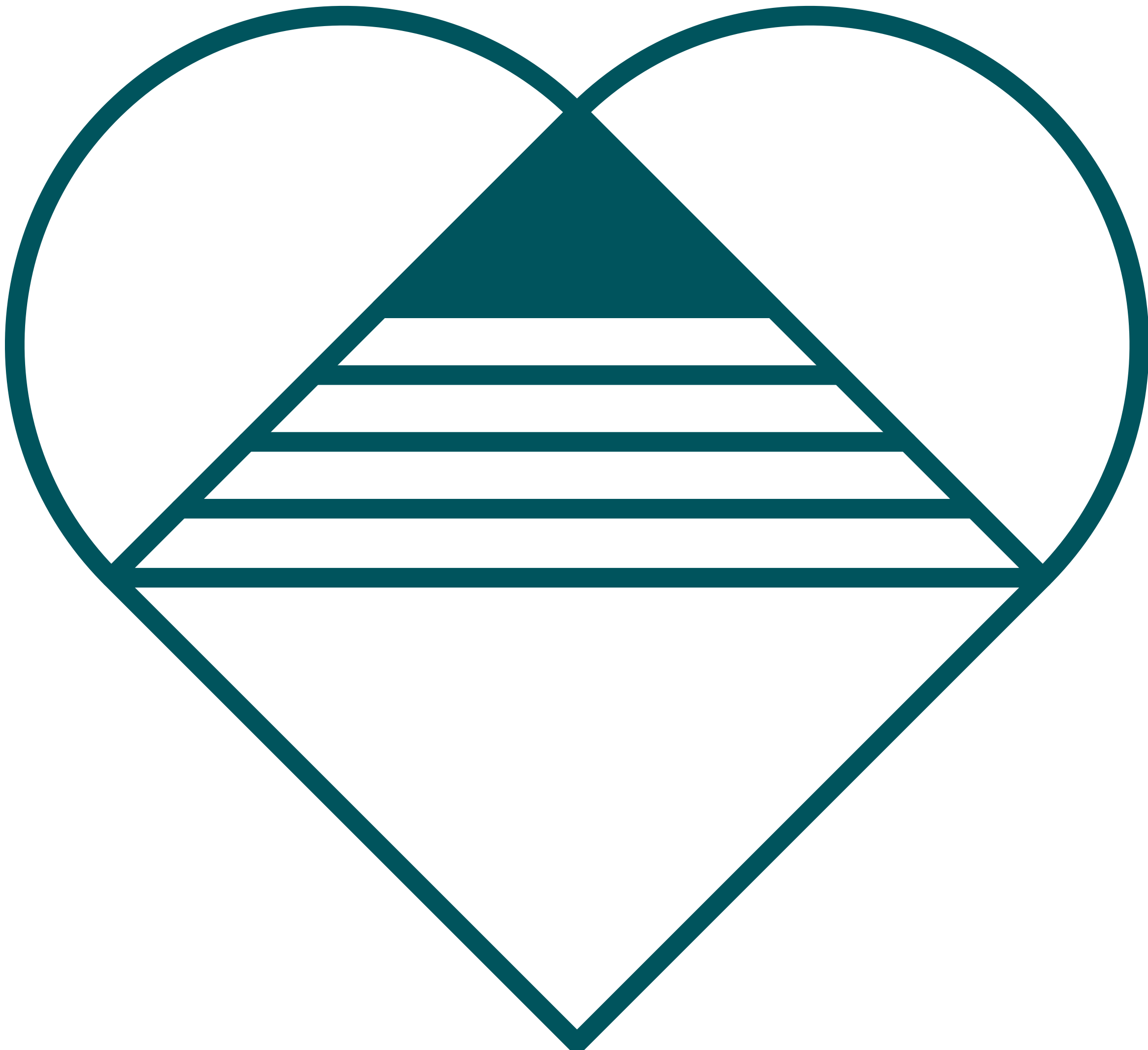
How does the design of your business block transformative ideas?



How could a redesign of your business unlock transformative ideas?



Appealing & connection



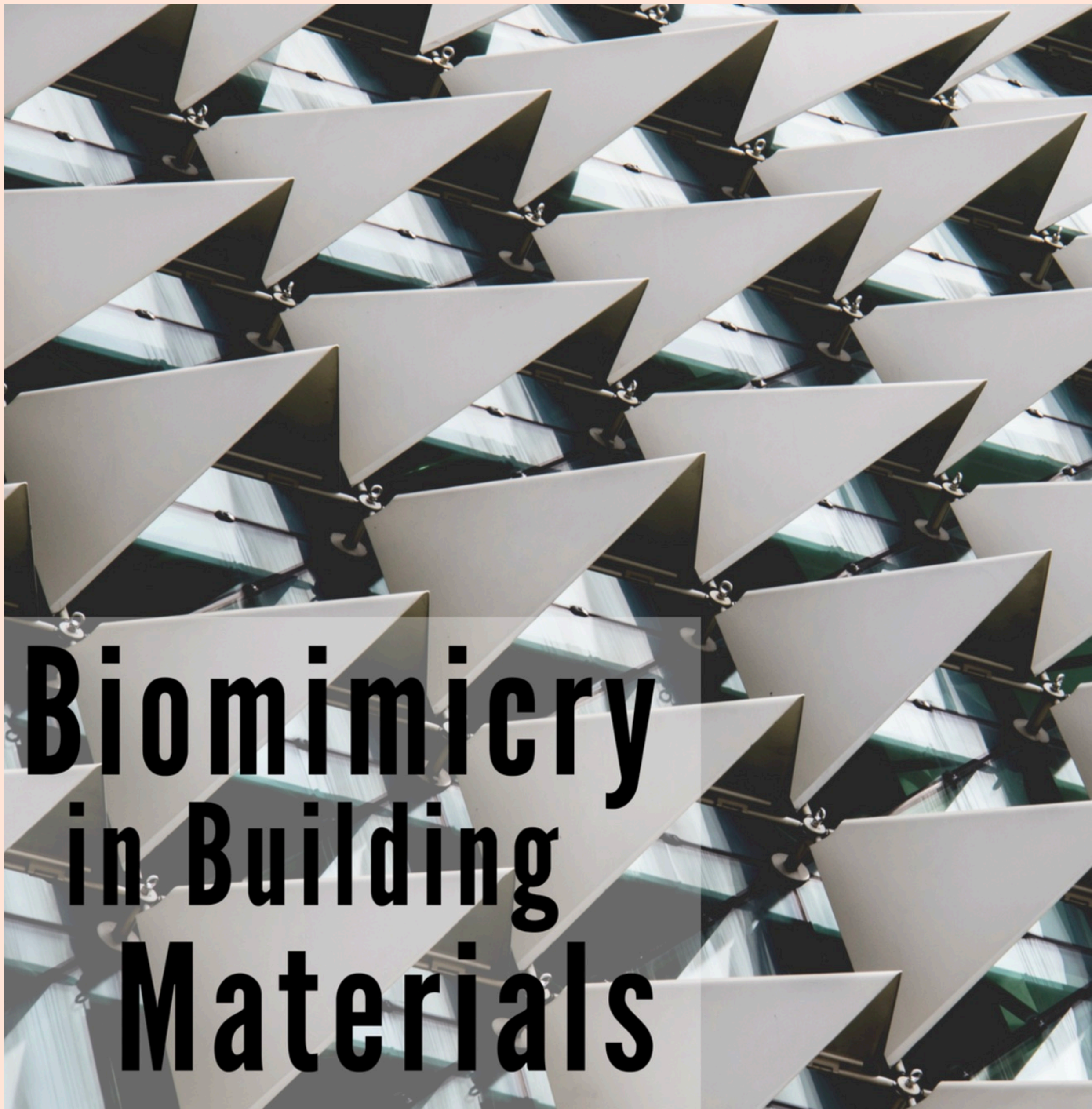


Title

Dit heeft een negatieve invloed op de kwaliteit van leven in de omgeving en een waardedaling van de omliggende woningen. Verval in het gebied kan leiden tot een verdere toename van vandalisme rondom het terrein. Door het uitblijven van initiatieven m.b.t. recreatie worden er geen bezoekers naar de regio getrokken, waardoor er geen impuls wordt gegeven aan het lokale bedrijfsleven. Tevens wordt er geen aanvullende kennis m.b.t. duurzame en regeneratieve landbouw ontwikkeld of doorgegeven en wordt Boxtel niet op de kaart gezet als inspirerende pleisterplaats.

Invloed op de kwaliteit





Biomimicry in Building Materials





Biophilic design





The Dark Side of Product Attachment: How Our Love for Possessions Impacts Sustainability

TOPICS: Behavioral Science Cornell University Sustainability



The researchers highlighted the opportunity for designers to focus on designing products that are well-made, enjoyable, and age gracefully, which would result in people both wanting to keep and actively use them.

New [Cornell University](#) research provides a more nuanced understanding, showing that product attachment can also unintentionally encourage less sustainable behavior. To prevent damage or loss, people may limit the use of their most prized possessions – preserving shoes in a box, dishes as decorations, or a car in storage – and buy additional, less meaningful goods for practical daily purposes.

“The goal has been to get people to hold on to products longer, which was seen as inherently more sustainable,” said Michael Kowalski, a doctoral researcher in the field of human-centered design with a background as an industrial product designer. “But that’s not always the case if people aren’t actually using these things.”

Kowalski is the lead author of a recent article published in the *International Journal of Design*. Co-author Jay Yoon, assistant professor in the Department of Human Centered Design in the College of Human Ecology, and director of the Meta Design and Technology Lab, is the adviser to the research.



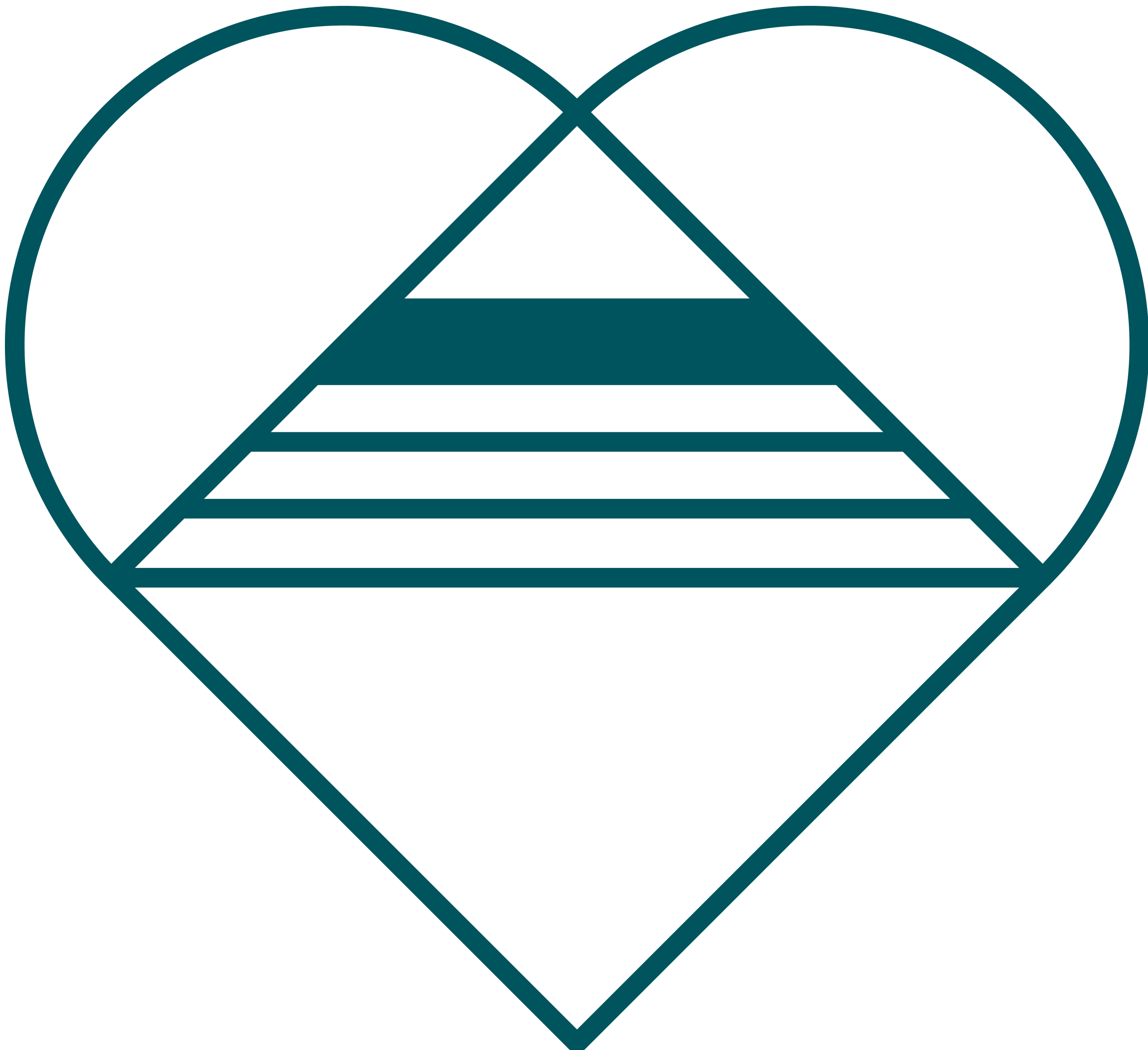
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Invloed op de kwaliteit



Avoid > reduce
conflict



Title

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Invloed op de kwaliteit



TIN



TANTALUM



TUNGSTEN



GOLD



TIN



TANTALUM



TUNGSTEN



GOLD

MEDICINE MONEY & MORALS

*Physicians'
Conflicts
of Interest*

MARC A. RODWIN





B-Corporation certified



An important part of our social enterprise identity is the open collaboration with independent certification organizations. We're proud to be B-Corp certified, joining a community of over 1000 companies, using business to address social and environmental issues.

EcoVadis gold medal



The Fairphone philosophy is embedded in the way we run our company. This commitment to fairness has been made measurable by the globally-recognized EcoVadis sustainability rating. We're one of the most sustainability-focused companies in the mobile technology sector with a gold Ecovadis medal, putting us in the top 5% of our industry.

iFixit 10/10 score



Our core value of longevity is designed directly into our smartphones. We created the Fairphone 3 to last – both in its original design and in making the repair as easy as possible. This made it the only smartphone in the world to be awarded a perfect iFixit score for repairability.

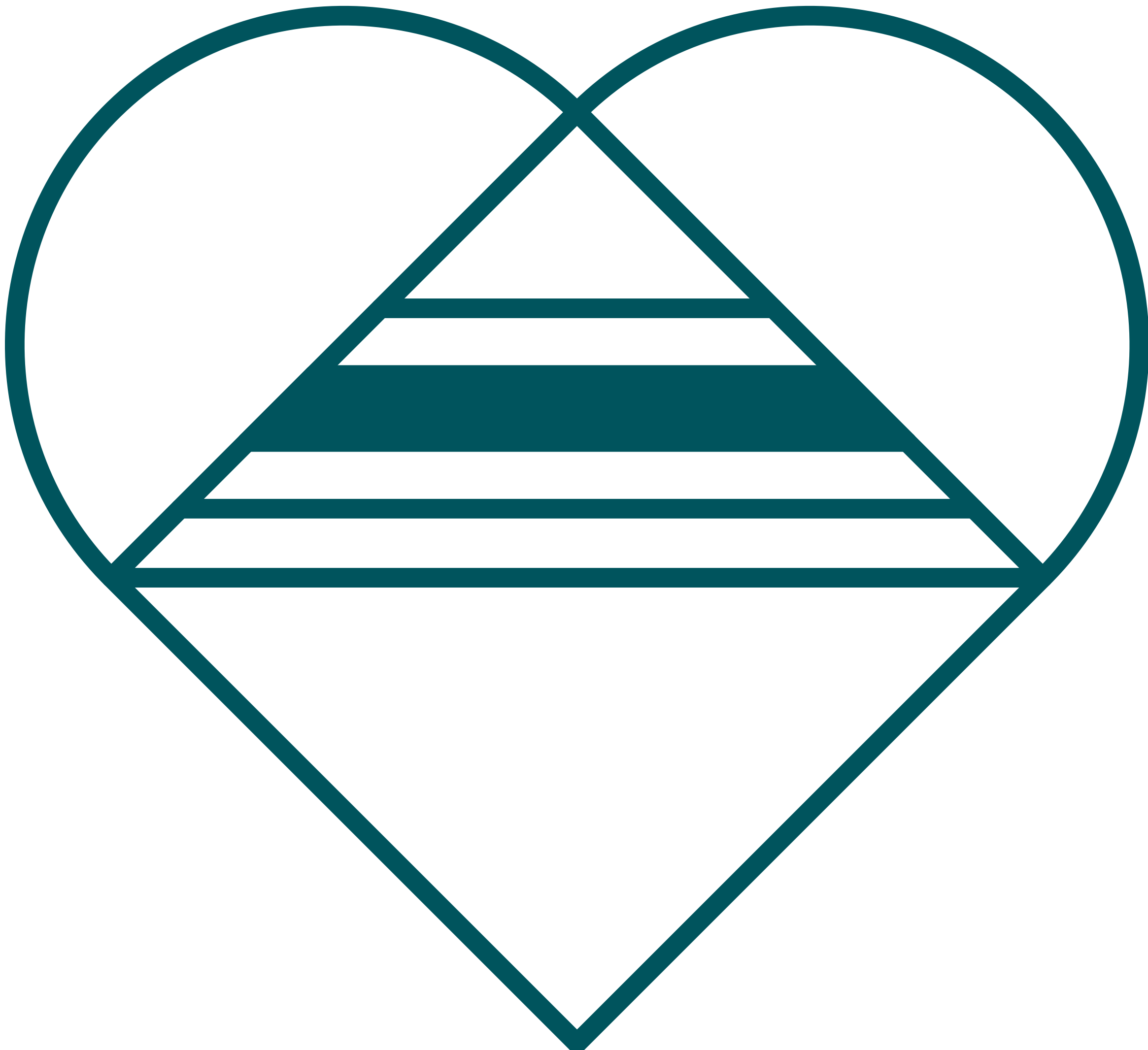
Fairtrade gold integrated



The materials that go into your phone have an impact on people and the planet. We want to go straight to the source to make sure we're creating positive change. Using responsibly sourced materials, we are the first and only smartphone company to be Fairtrade gold certified.



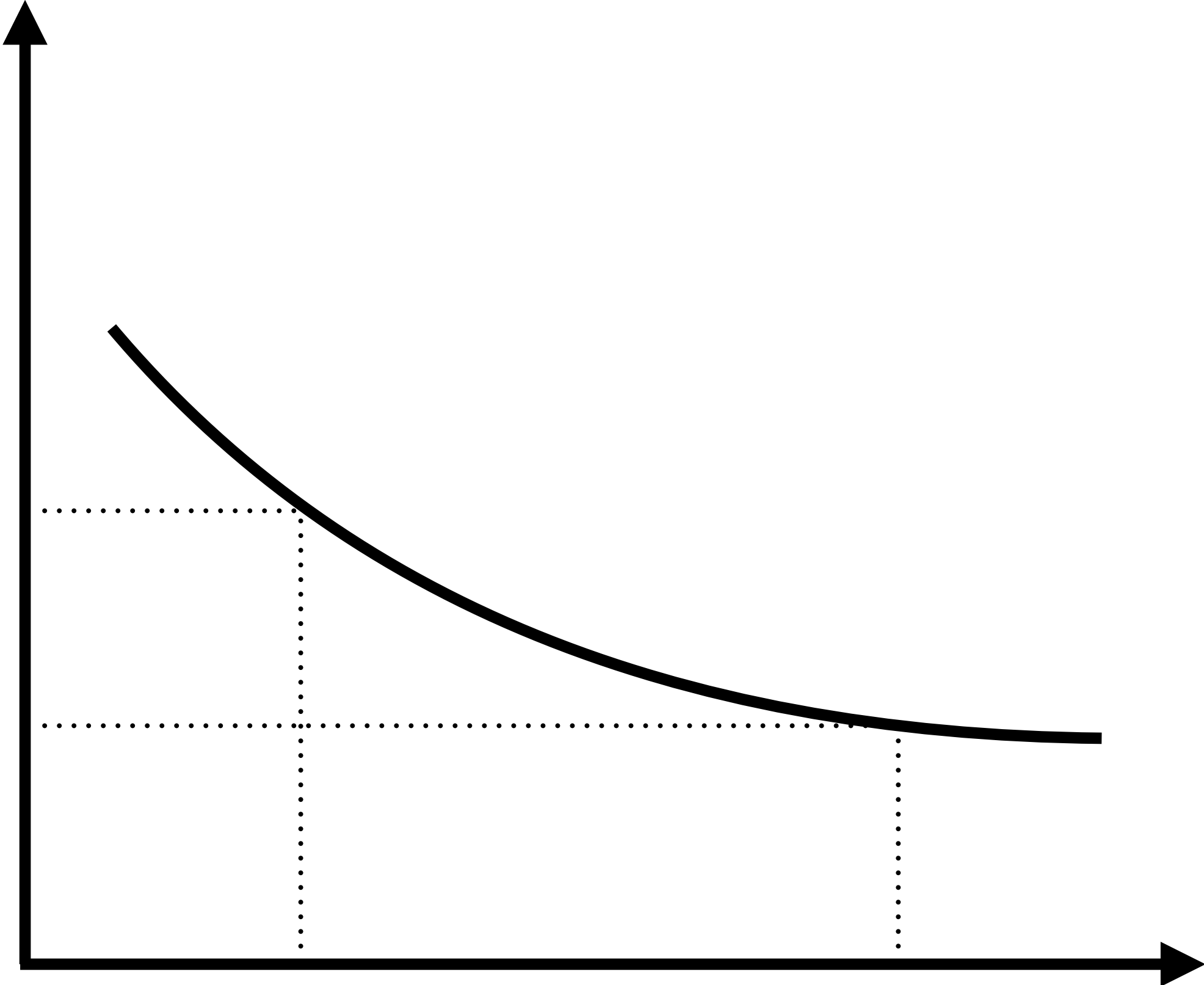
No Jevons paradox

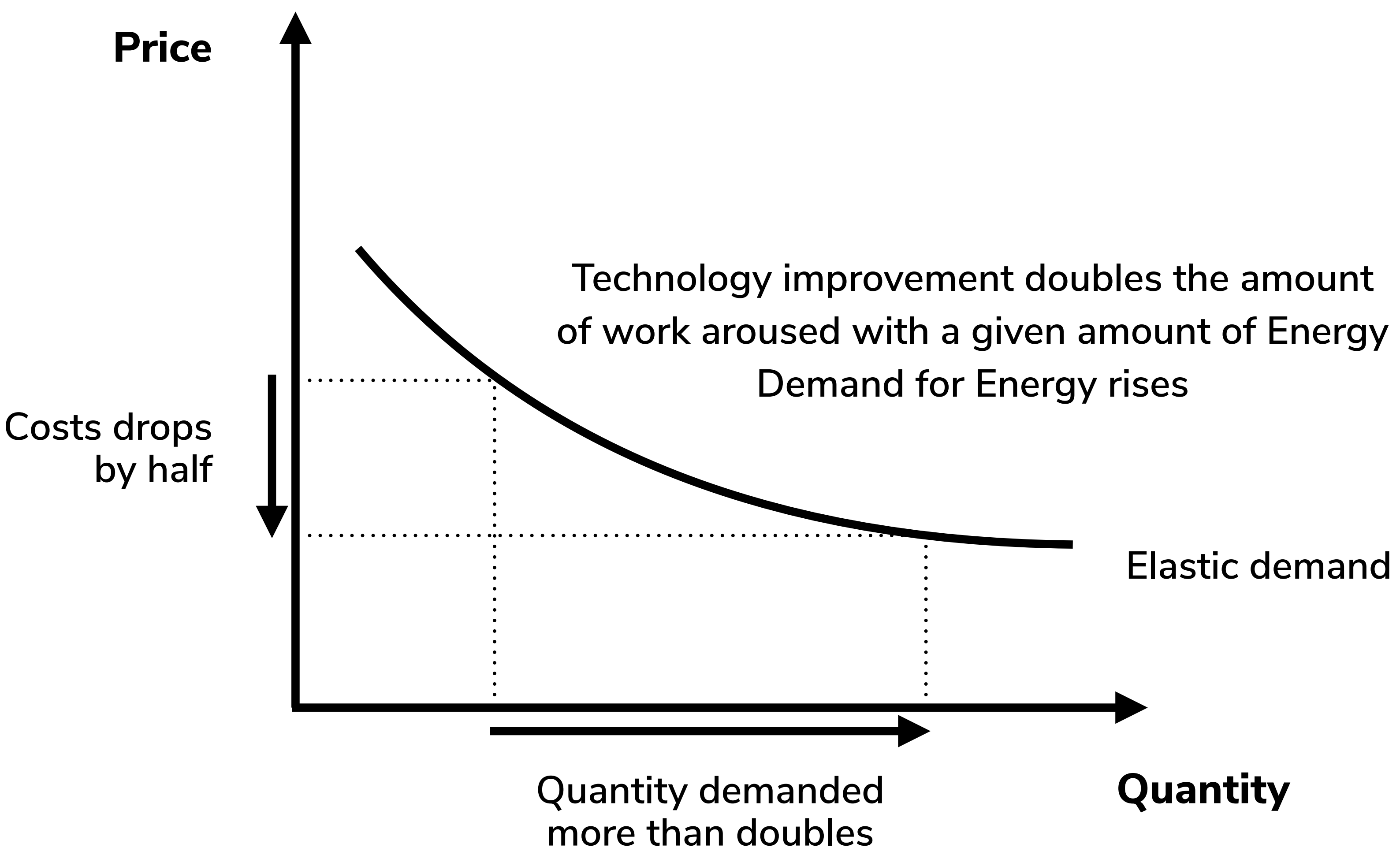


Title

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Invloed op de kwaliteit







Space that is required to transport 48 people



Bus



Bicycle



Car



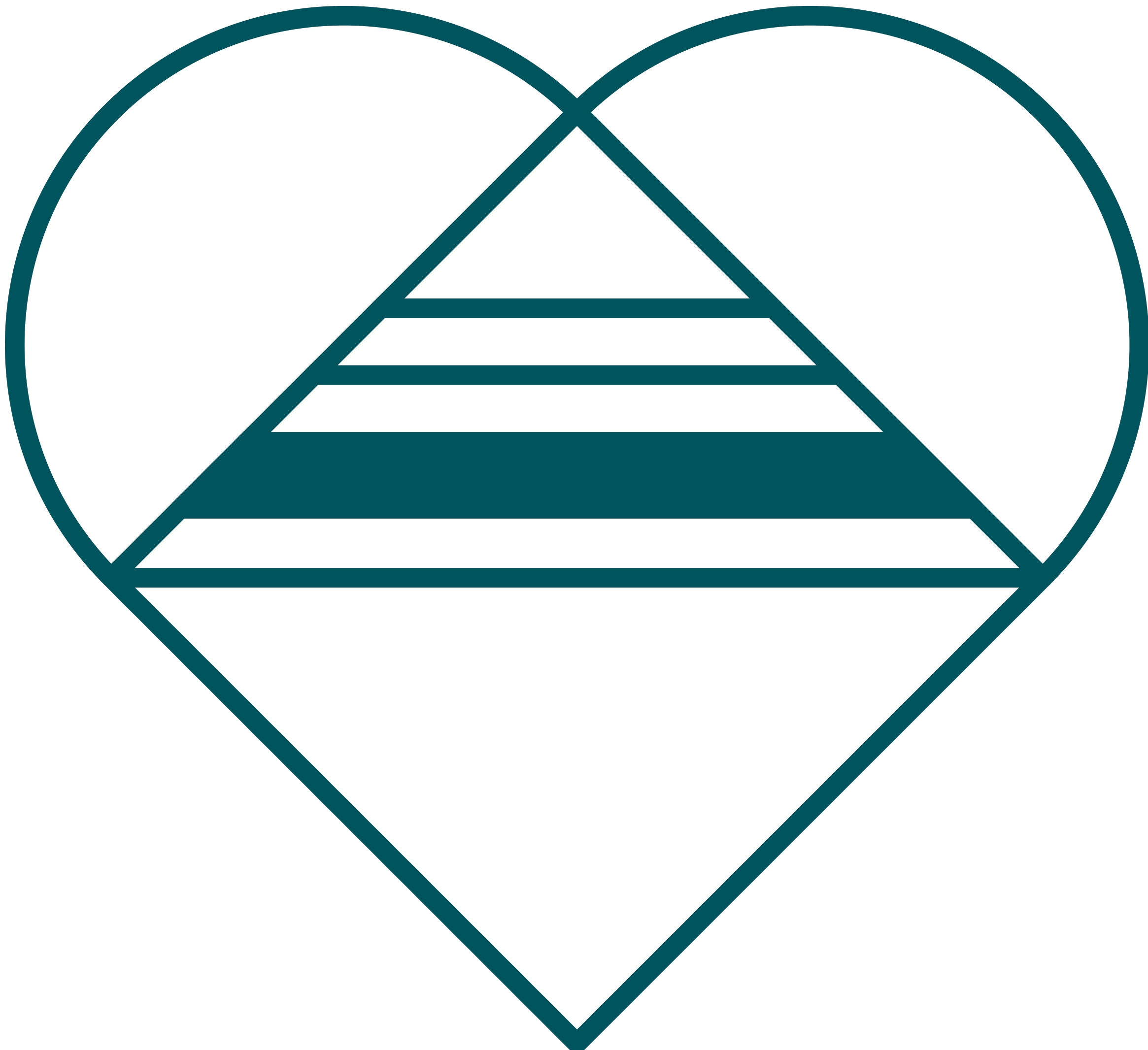
Electric Car



Autonomous Car



Global <>
local



Title

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Invloed op de kwaliteit





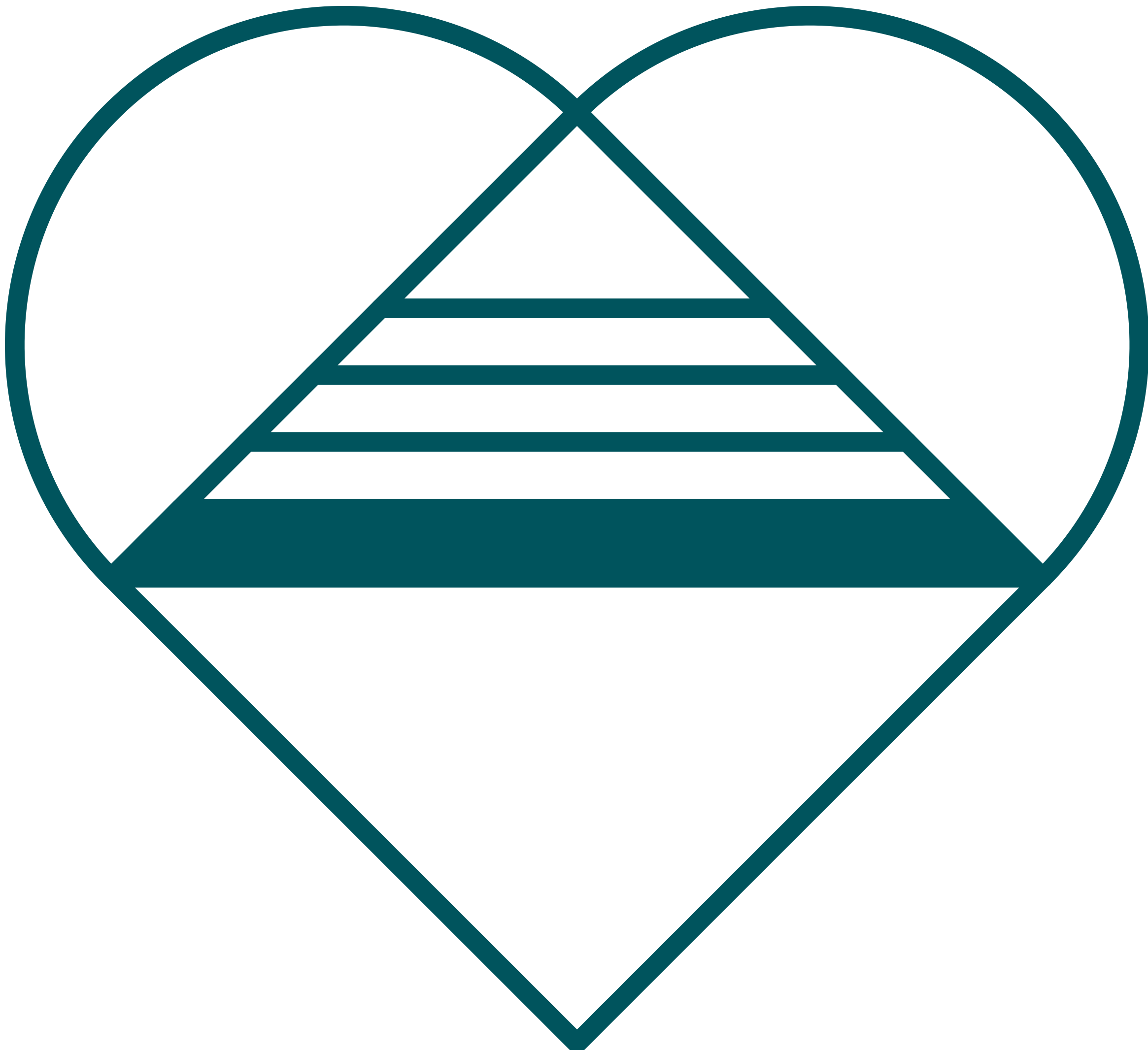
ACT LOCAL, THINK GLOBAL!

-  **GLOBAL GOALS CONFERENCE**
City Hall Market Maastricht 9:00 - 17:00 (register via website)
-  **GLOBAL GOALS MARKET**
Wednesday market Maastricht 9:00 - 15:00
-  **GLOBAL GOALS LESSON: 17 GOALS**
Elementary schools Maastricht and region
-  **GLOBAL GOALS LECTURE**
Circular Economy, Studium Generale
-  **GLOBAL GOALS MOVIE NIGHT**
Lumiere Cinema: An Inconvenient Sequel (24 September)

WWW.ACTFORGLOBALGOALS.NL



Equity



Title

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Invloed op de kwaliteit

EQUALITY vs. EQUITY



EQUALITY

vs.

EQUITY

Everyone is given the same resources.

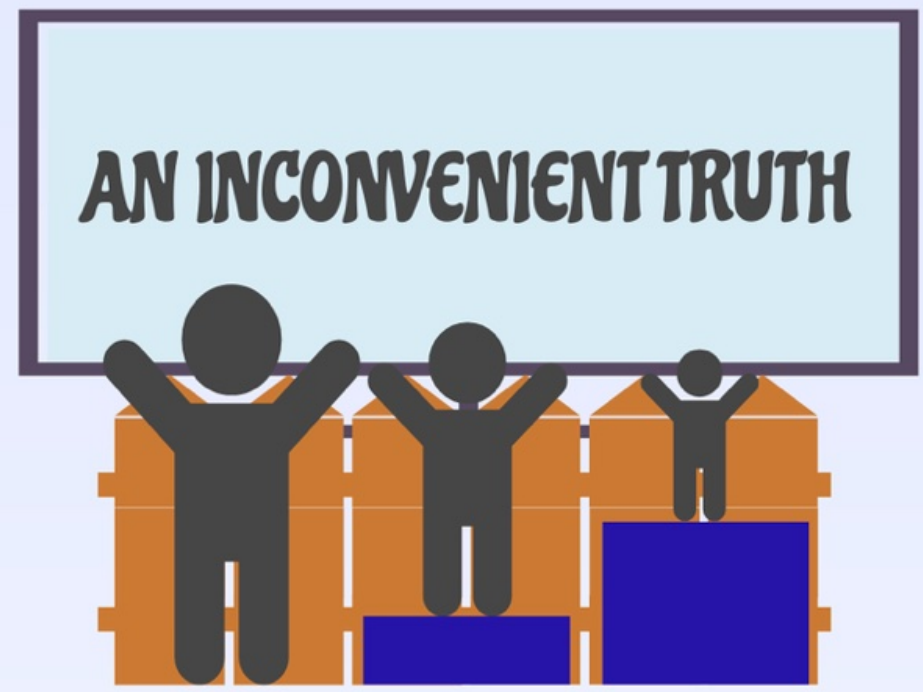
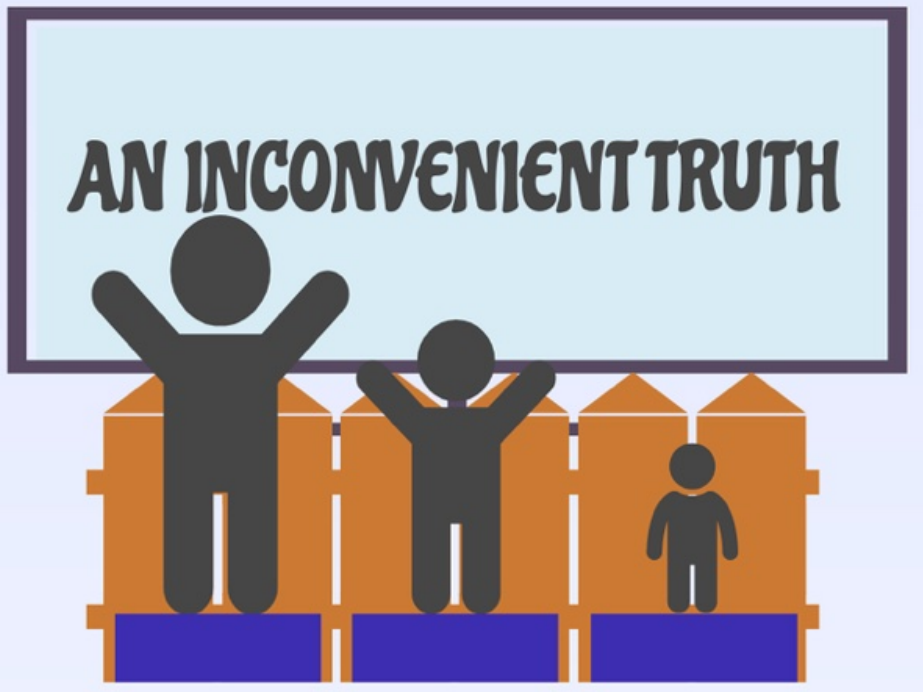
Everyone is given the resources they need.

The ability to succeed is reduced for those who start at a disadvantage.

The ability to succeed increases for those who start at a disadvantage.

The outcomes are different for everyone.

The outcomes are more equal for everyone.



CREATED BY: crushschool.com





Re generation Ending the climate crisis in one generation

Paul Hawken

Does it:

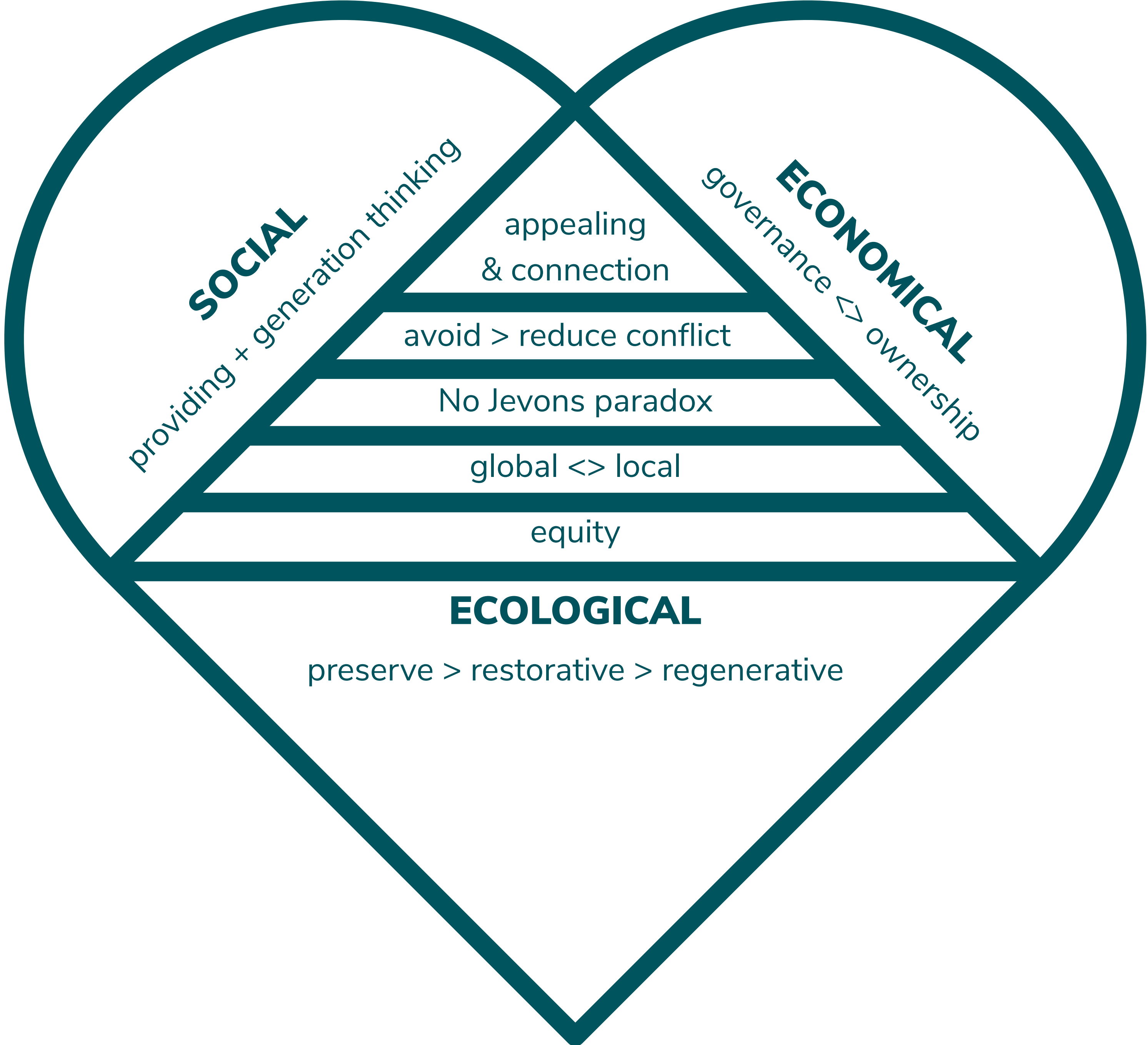
- foster more life or reduce it?
- heal the future or steal the future?
- it enhance well-being or diminish it?
- reduce disease or profit from it?
- create livelihoods and or eliminate them?
- mine the land or bring it back to life?
- increase global warming or decrease it?
- address human needs or manufacture human wants?
- serve or harm children, the poor, and underserved?
- address fundamental human rights?
- provide workers respect, purpose and dignity?

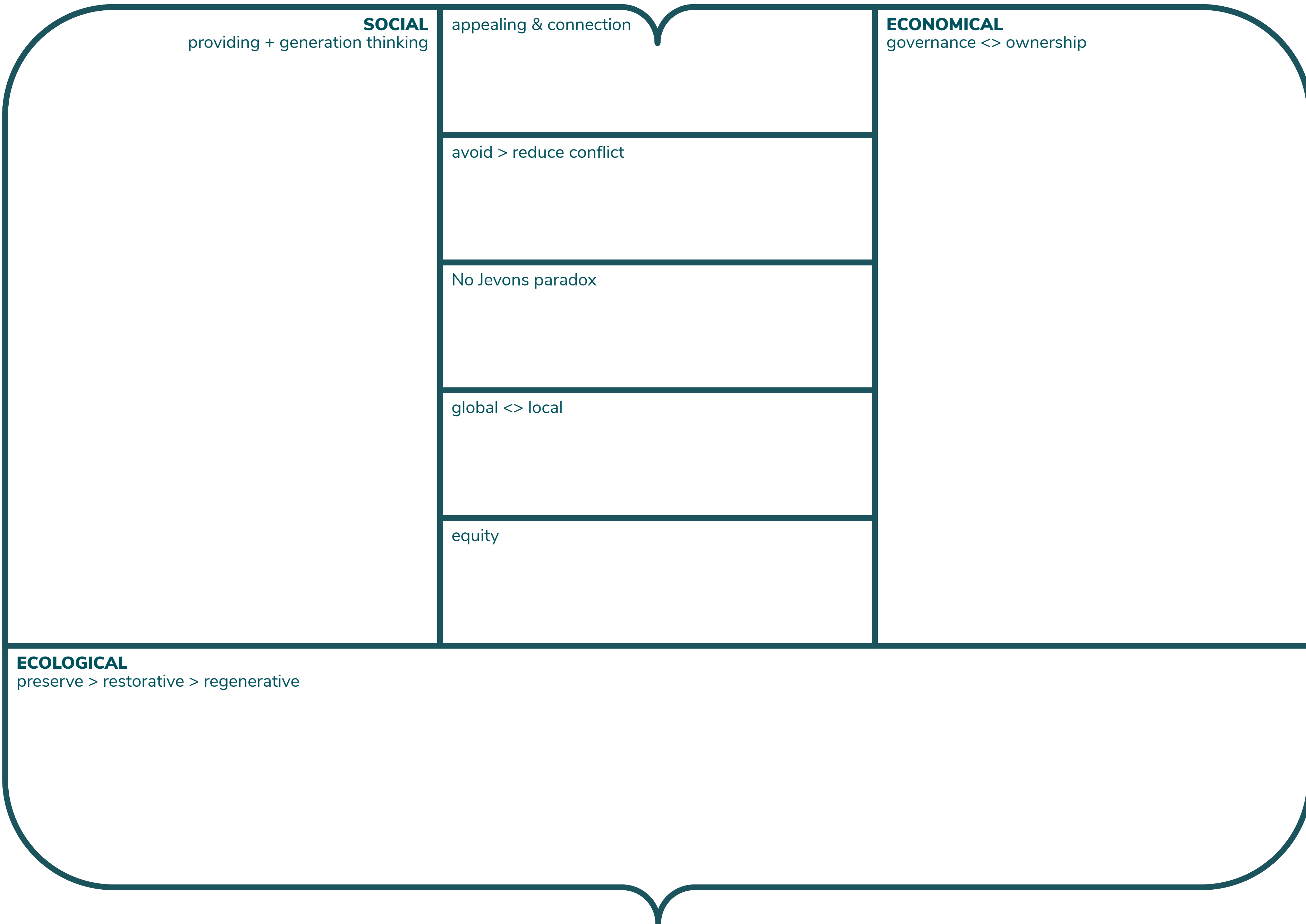
In short, is the design extractive or regenerative?

Climate Cleanup + Paul Hawken

DESIGN FOR LIFE

DESIGN FOR LIFESPAN





END OF DECK