

This session

15 min MY TAKE on designing for sustainability (ultra short)

50 min YOU TRY some of my methods in groups

20 min YOU PRESENT to each other

5 min WE WRAP IT UP - how was it?

©Sara Andersson

Briefly about me

_Trained as an industrial designer (TU Delft, NL)

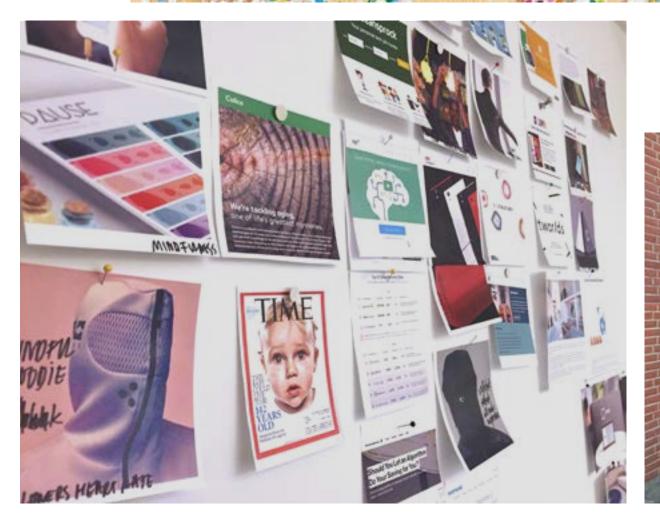
_13 years in design consultancy (product, digital, service, strategy)

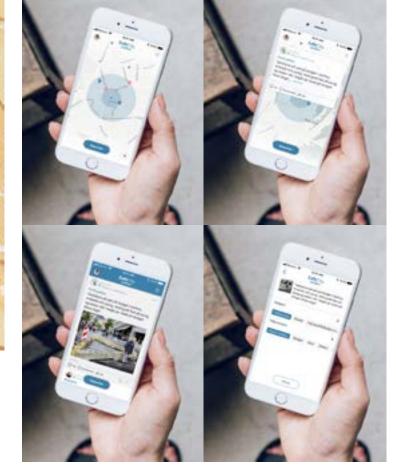
_THISFUTURE

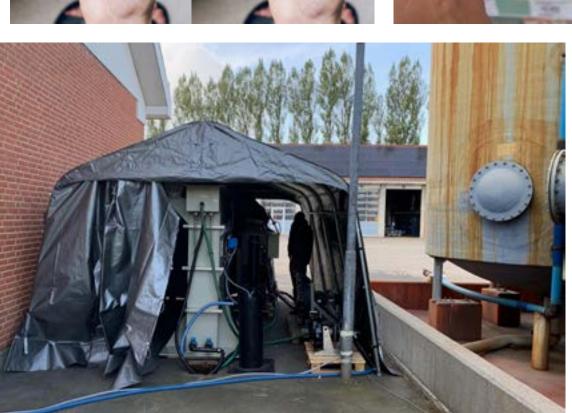
_Kolding Design School

_Center for Innovation i Aarhus CFIA / 'Aarhus Transitions', City of Aarhus









"Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs."

-Brundtland Commission, 1987

17 sustainable development goals





















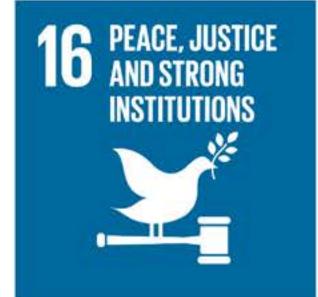
















Goals related to climate and environment







Kilde: Katherine Richardson, Hvordan skaber vi bæredygtig udvikling for alle?





Connecting goal

Goals related to human welfare





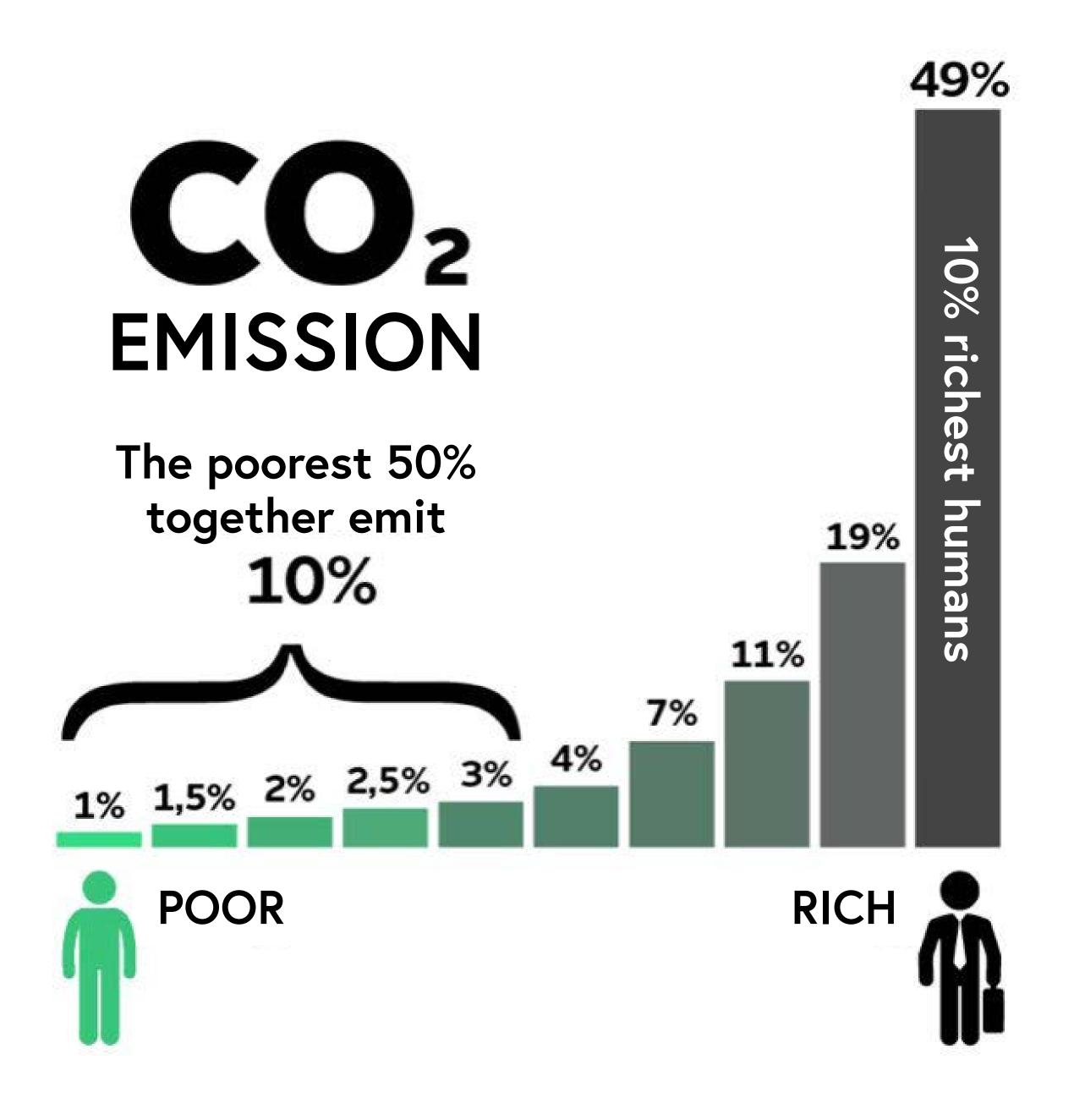








Source: Oxfam



HOW MANY PLANETS WOULD WE NEED, IF EVERYONE WAS TO CONSUME AS WE DO IN DENMARK?





Country Overshoot Days 2021

When would Earth Overshoot Day land if the world's population lived like...

Dec 18 | Indonesia

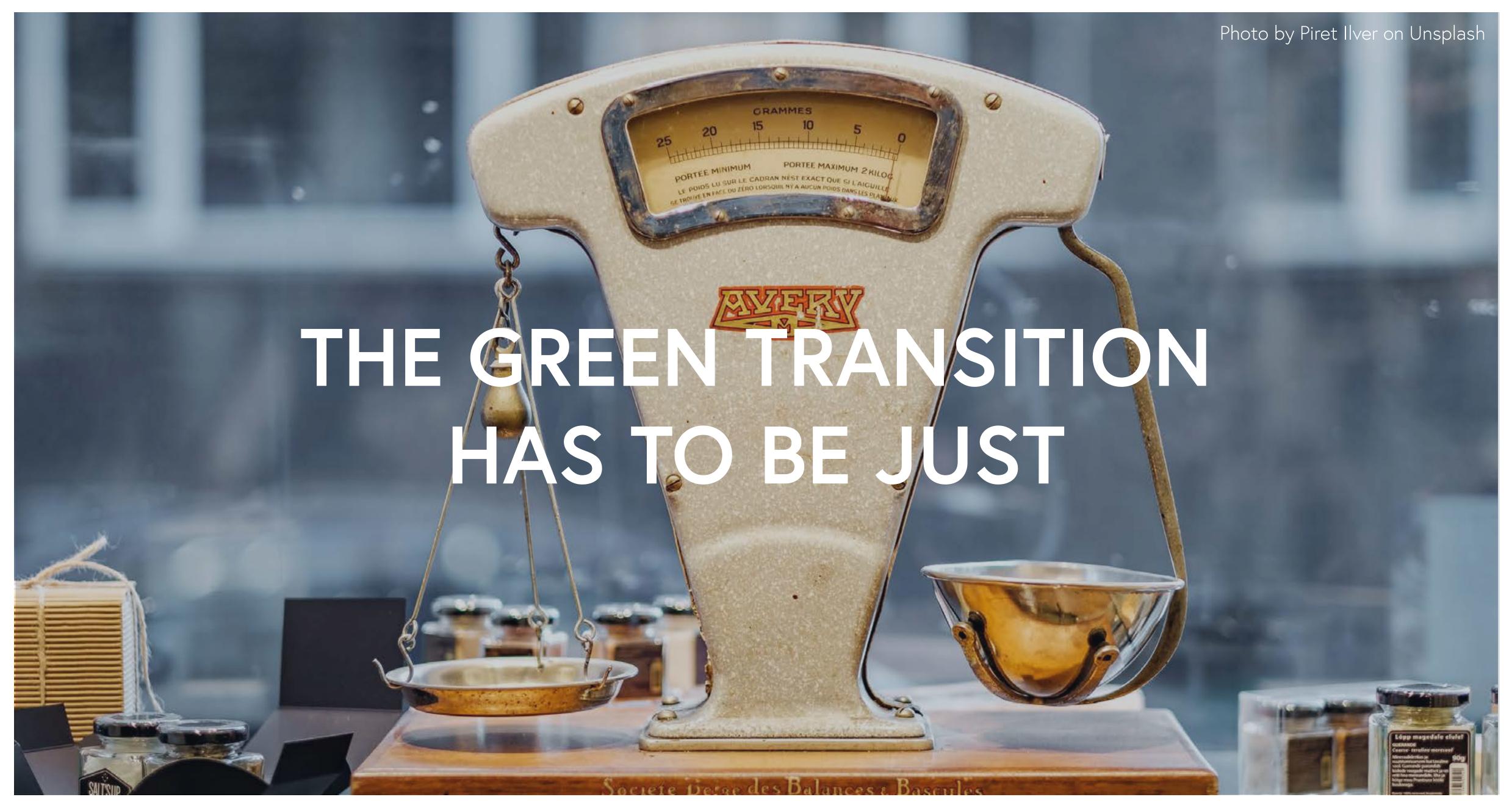
Dec 7 | Ecuador Dec 2 | Nicaragua Nov 24 | Egypt, Guatemala Feb 9 | Qatar Nov 20 | Iraq . Feb 15 | Luxembourg Nov 17 | Cuba . JAN DEC Nov 2 | Colombia . Mar 7 | United Arab Emirates Mar 14 | Canada, Kuwait, Oct 21 | El Salvador . United States of America Mar 22 | Australia Oct 13 | Ghana .. Mar 26 | Denmark Oct 5 | Namibia . 2021 Mar 30 | Belgium Sep 29 | Peru + Apr 5 | Republic of Korea Sep 26 | Gabon + Apr 6 | Sweden SEP APR *Apr 10 | Finland, Singapore Sep 18 | Viet Nom .. * Apr 12 | Norway, Saudi Arabia Sep 16 | Djibouti + *Apr 16 | Israel Sep 14 | Panama + Apr 17 | Russia Sep 13 | Venezuela Sep 11 | Algeria Apr 27 | Ireland, Netherlands FAM * April 30 | Slovenia May 5 | Germany
May 6 | Japan INNE May 7 | France ATOF May 11 | Switzerland May 13 | Italy, Portugal Aug 16 | Costa Rica Aug 15 | Thailand May 19 | United Kingdom May 17 | Chile
May 22 | Greece
May 23 | Montenegro
May 25 | Spain Aug 11 | Mexico Aug 8 | Ukraine Jun 7 | China Jun 10 | Bahamas Jul 27 | Brazil Jul 9 | Bolivia Jun 21 | Romania Jul 8 | Paraguay Jul 4 | South Africa Jun 26 | Argentina

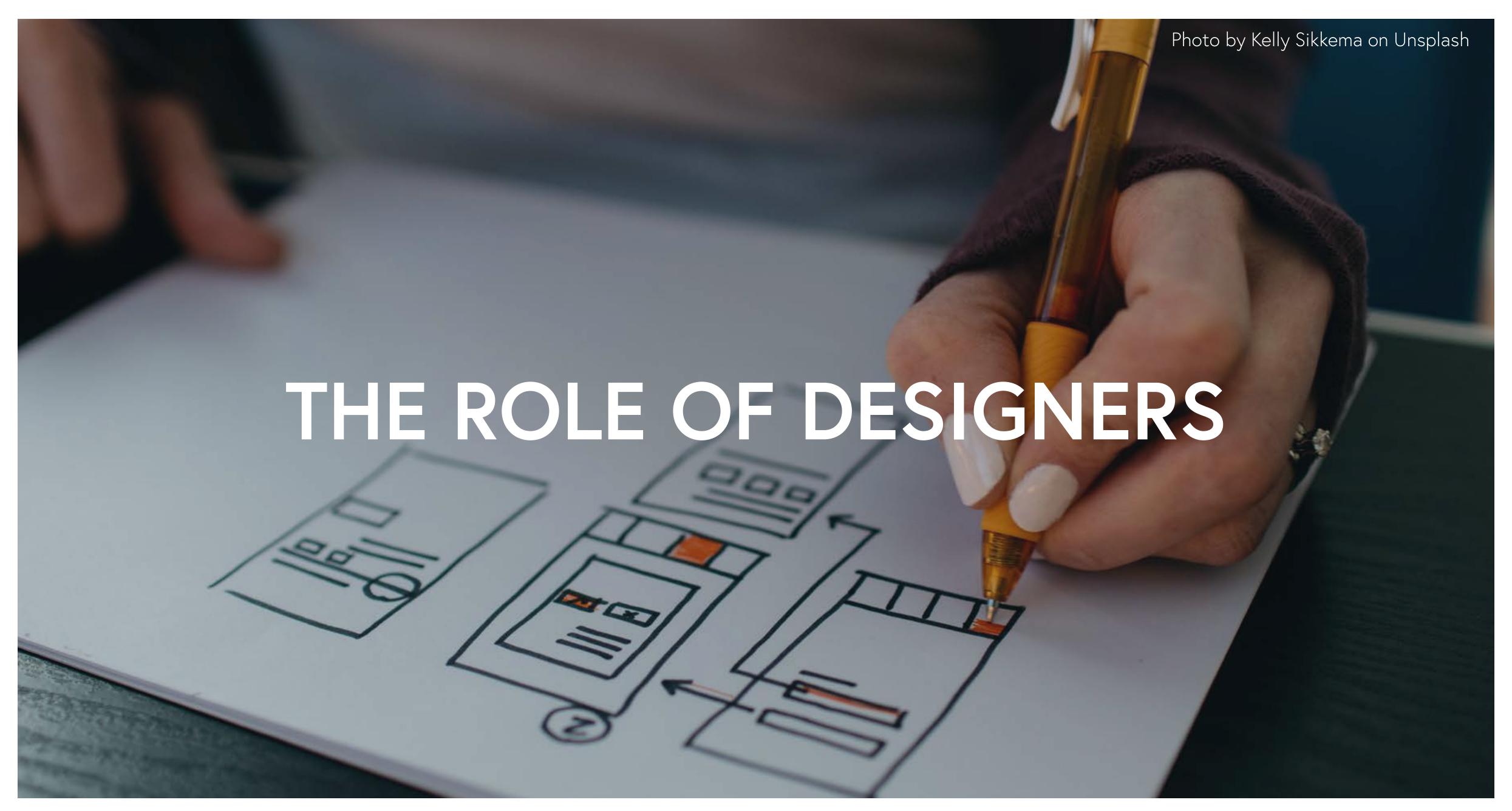
GLOBAL
OVERSHOOT DAY:
29 JULI



Source: National Footprint and Biocapacity Accounts, 2021 Edition data.footprintnetwork.org

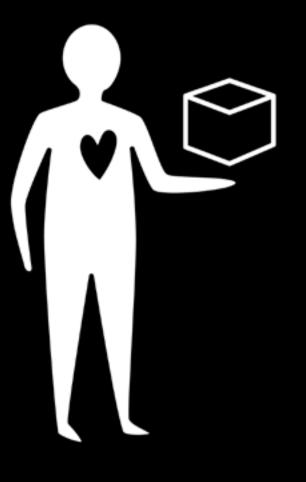










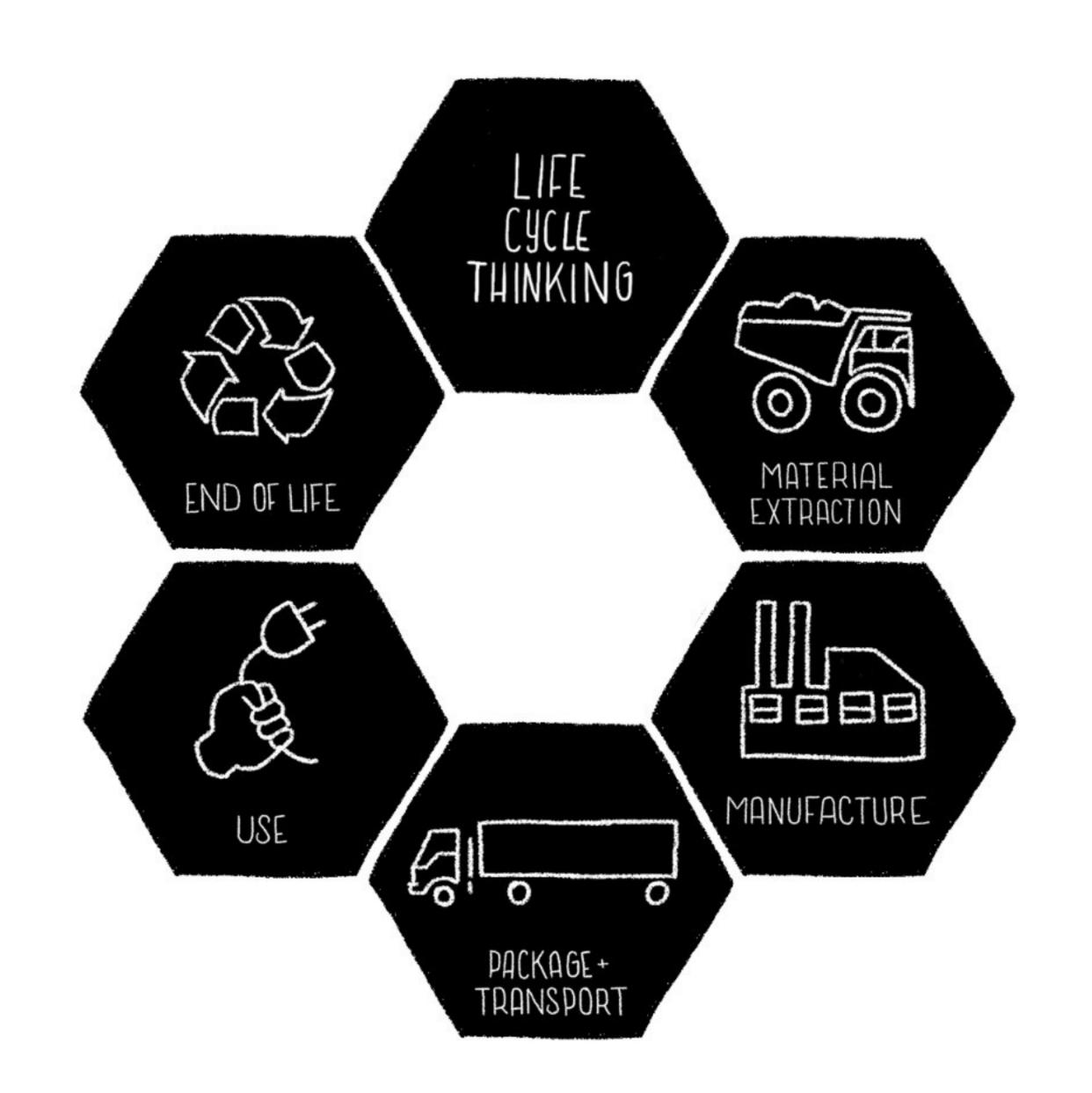




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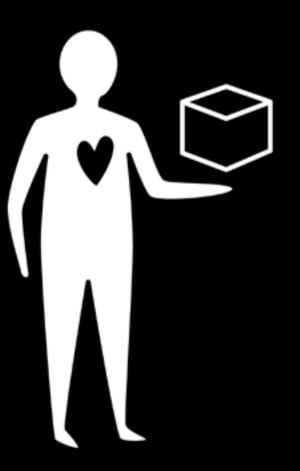






UNAFFORDABLE FOR LOCALS: IN MANHATTAN'S LOWER EAST SIDE, FULL-TIME AIRBNB LISTINGS EARN ON AVERAGE TWO TO THREE TIMES THE MEDIAN LONG-TERM RENT.

- Airbnb and the Rent Gap: Gentrification Through the Sharing Economy David Wachsmuth and Alexander Weisler, 2018



HUMAN-CENTERED DESIGN



HUMANITY-CENTERED DESIGN



Humanity-centered design tools

- 1. Map the system
- 2. Spot unintended consequences
- 3. Use behavioural design
- 4. Sustainbility embedded in the design process

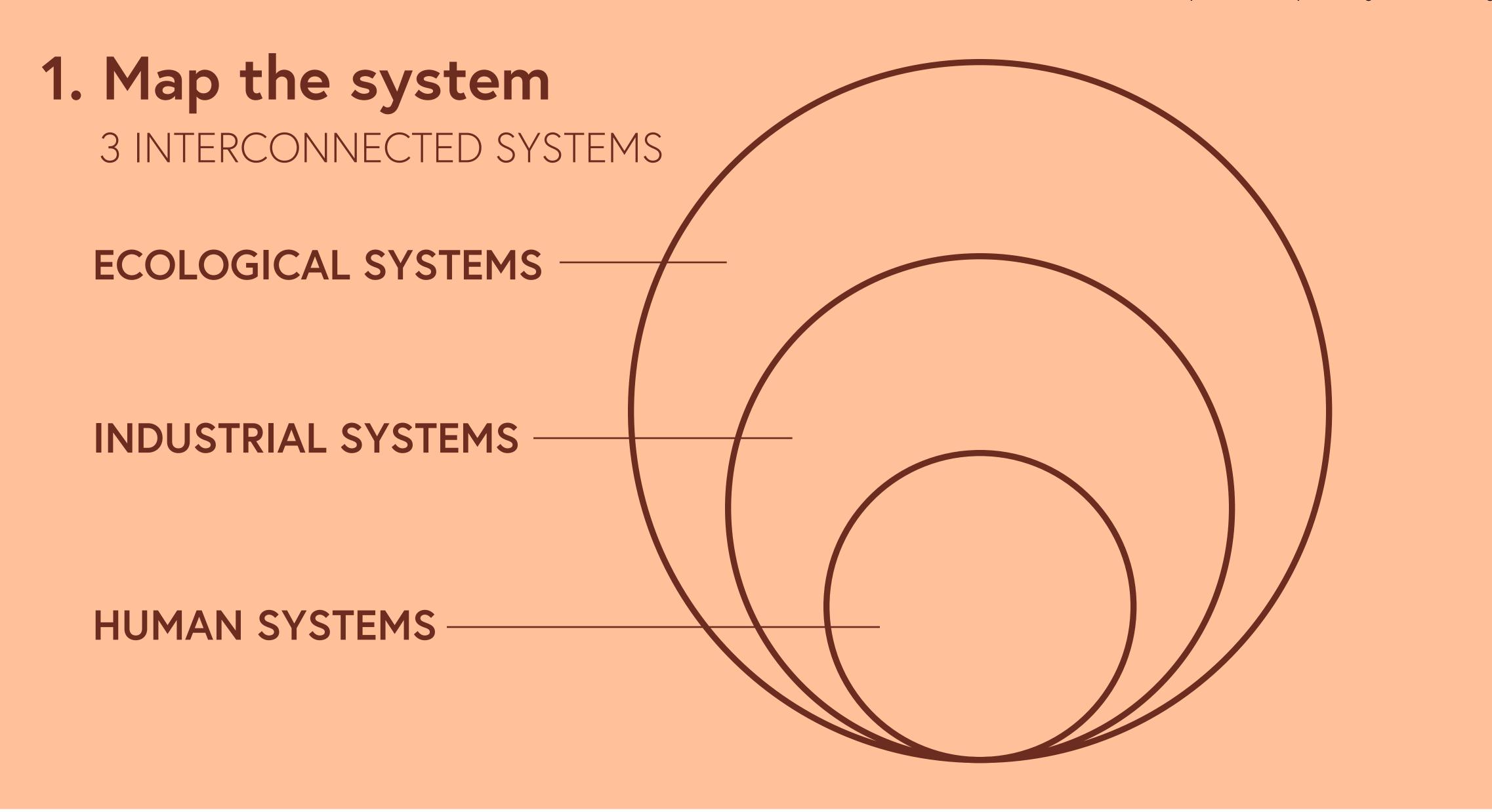


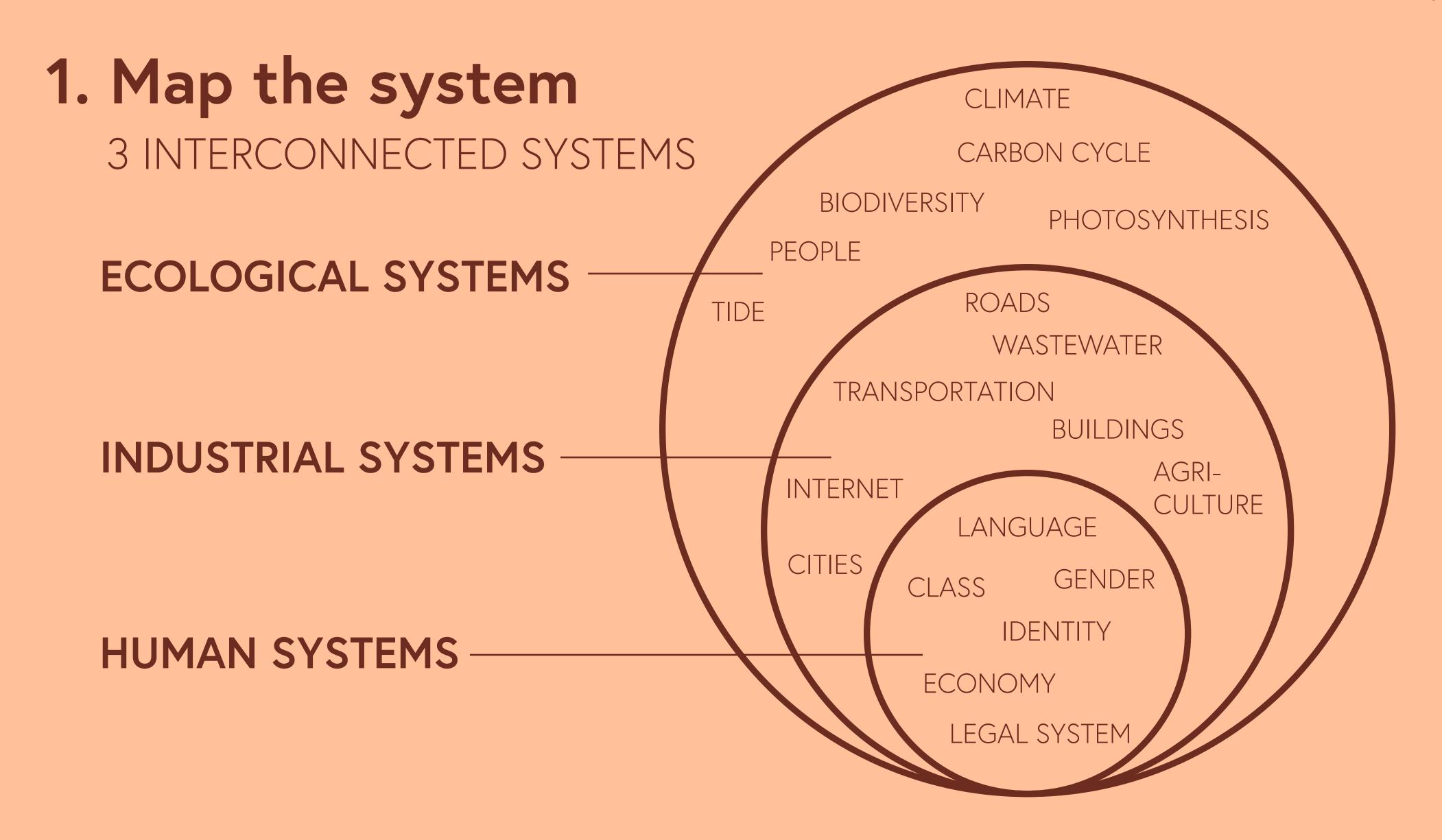
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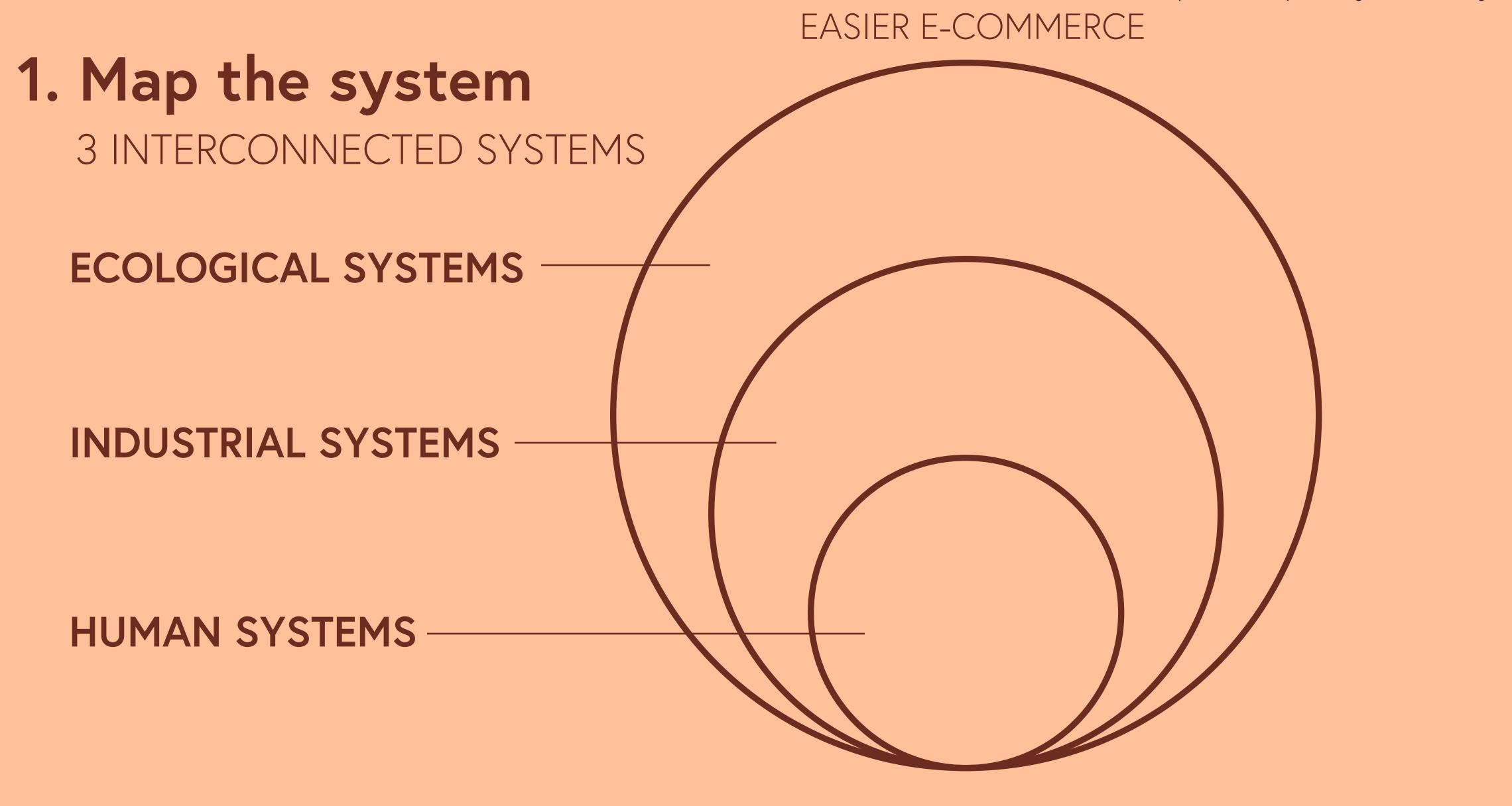
1. Map the system

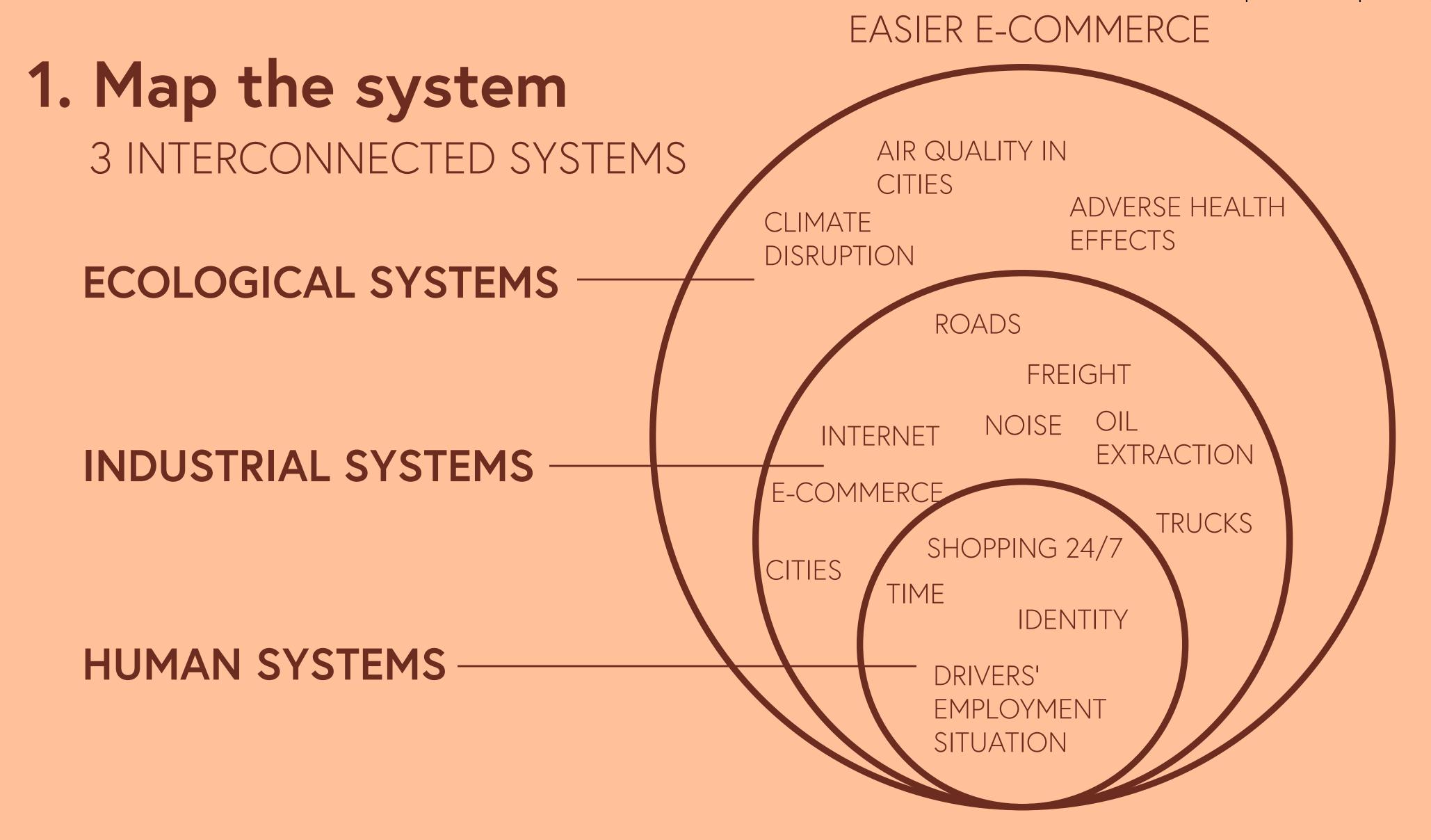
"...dividing the cow in half does not give you two smaller cows. You may end up with a lot of hamburger, but the essential nature of "cow"—a living system capable, among other things, of turning grass into milk—then would be lost. This is what we mean when we say system functions as a "whole". Its behavior depen on its entire structure and not just on adding u behavior of its different pieces."

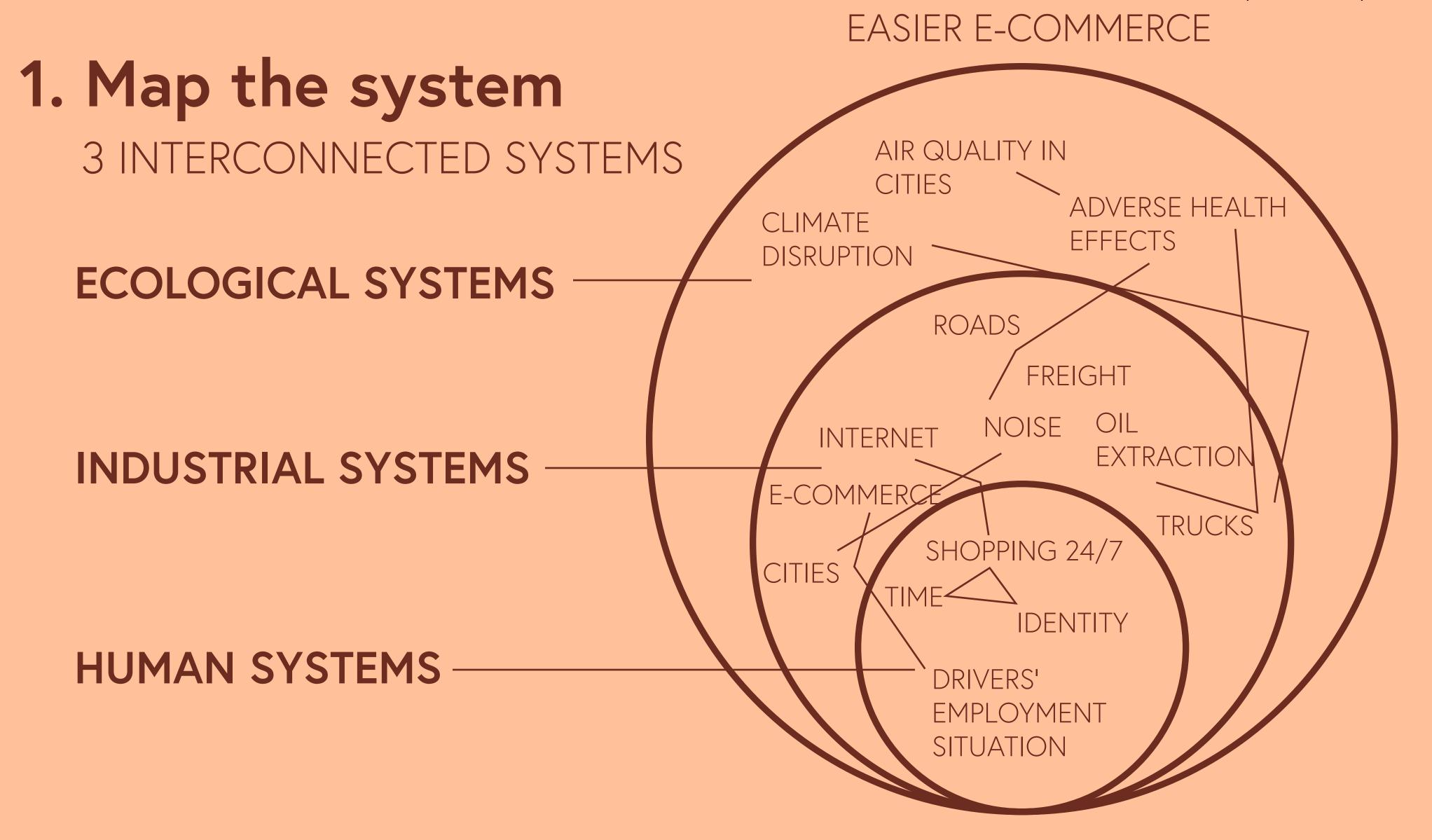
Draper Kauffman, 1980



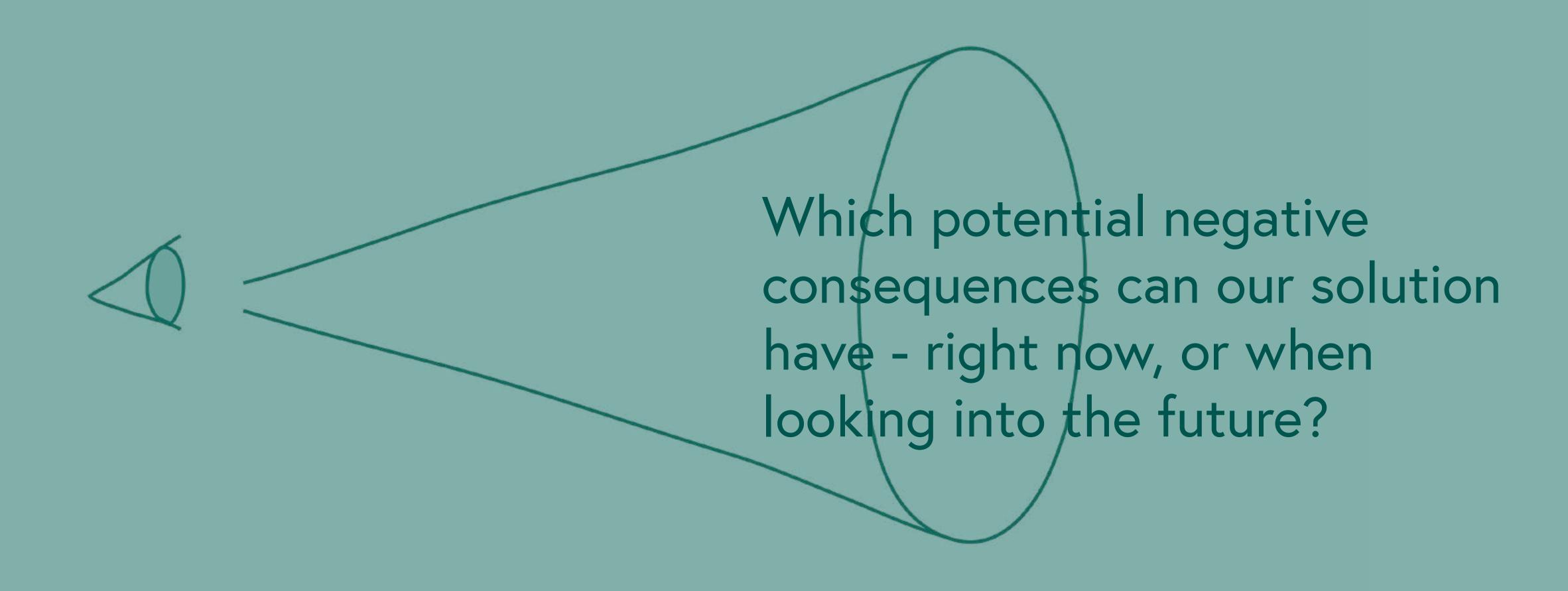


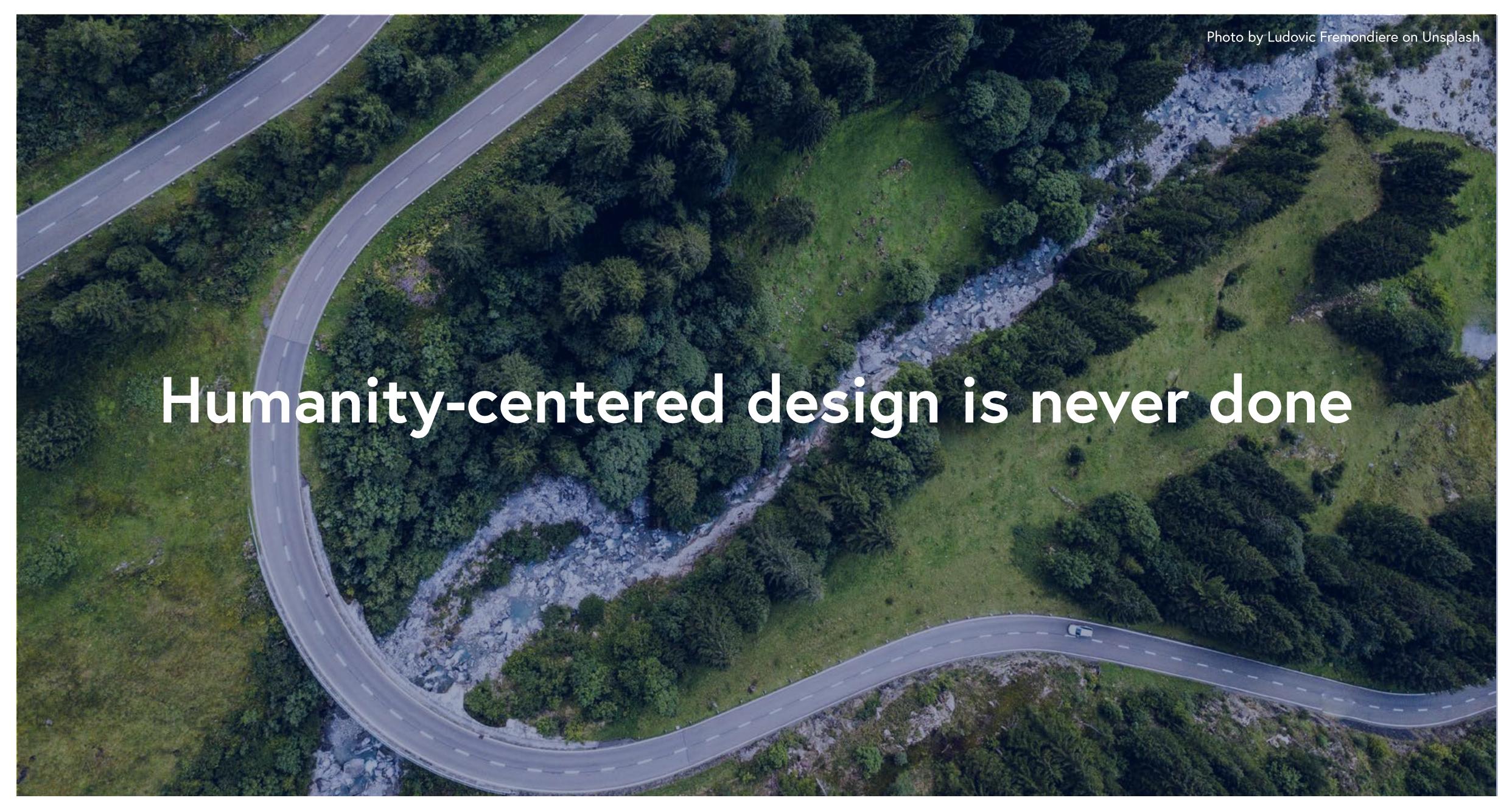






2. Spot unintended consequences





3. Use behavioural design



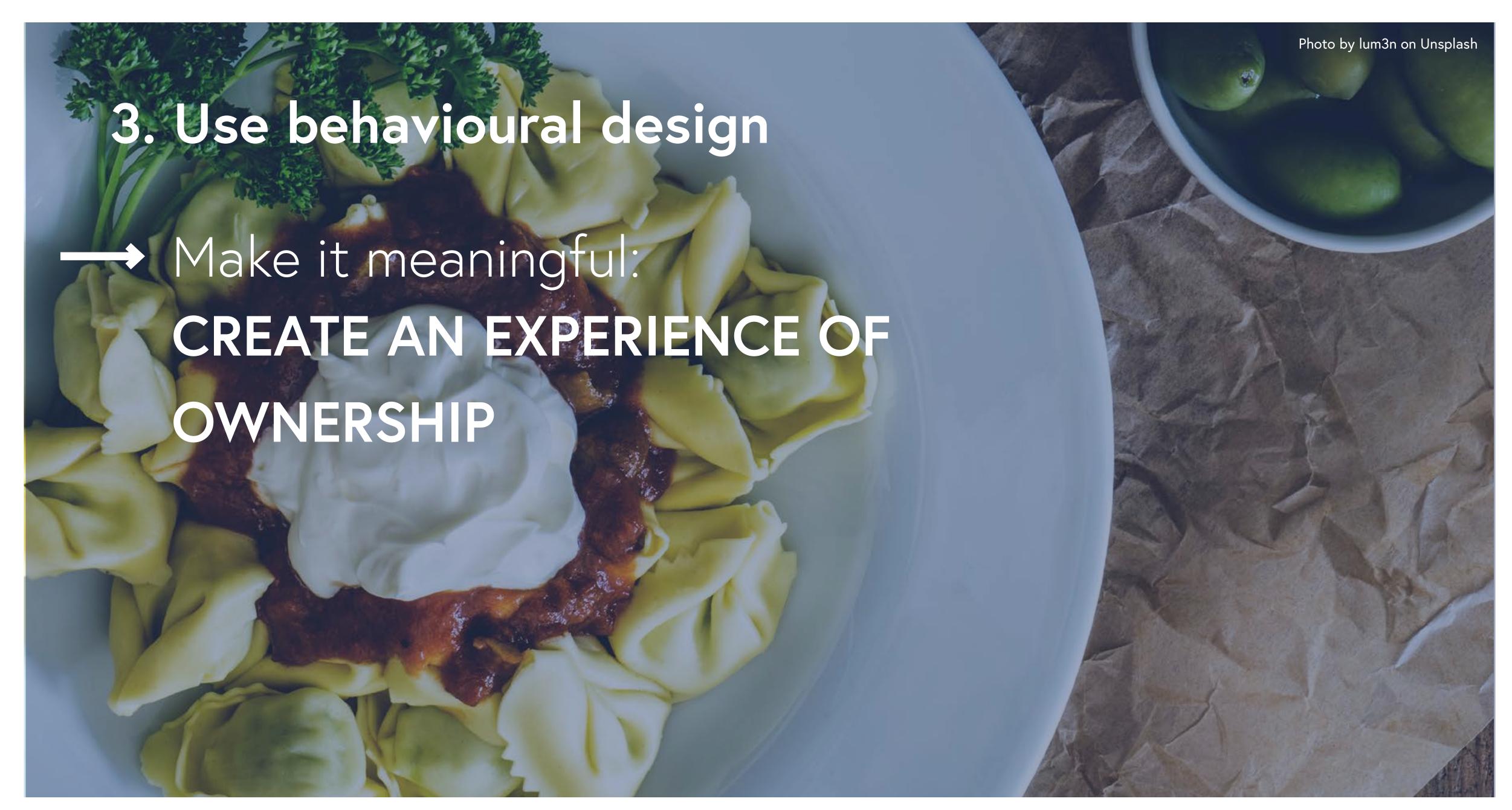






3. Use behavioural design

- --- Make it meaningful
- Make it attractive
- --- Make it social
- Make it easy
- --- Make it tangible



3. Use behavioural design

→ Make it attractive

MAKE IT FUN AND PLAYFUL

apps that gamify climate smart actions





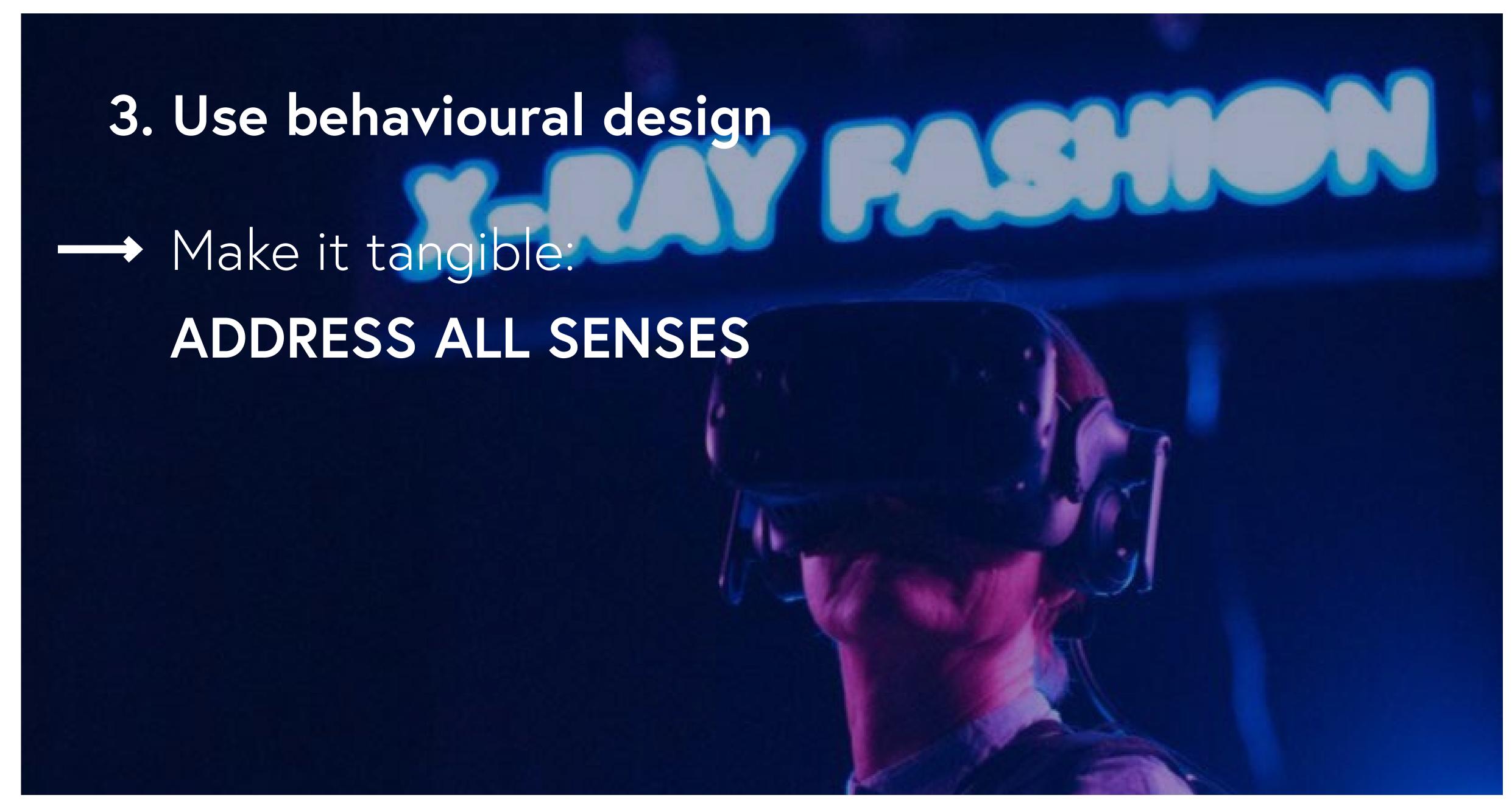
3. Use behavioural design

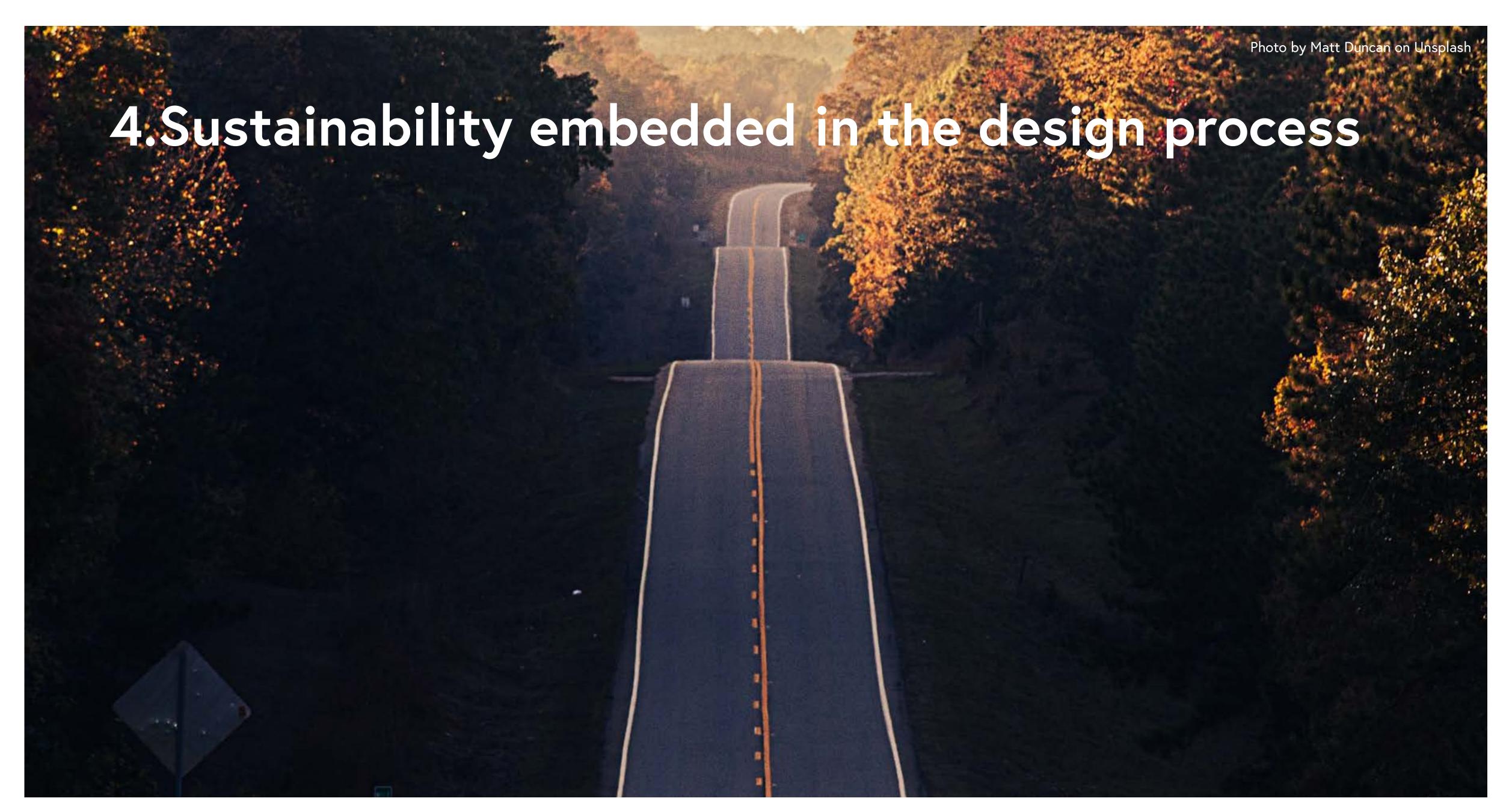
→ Make it easy:

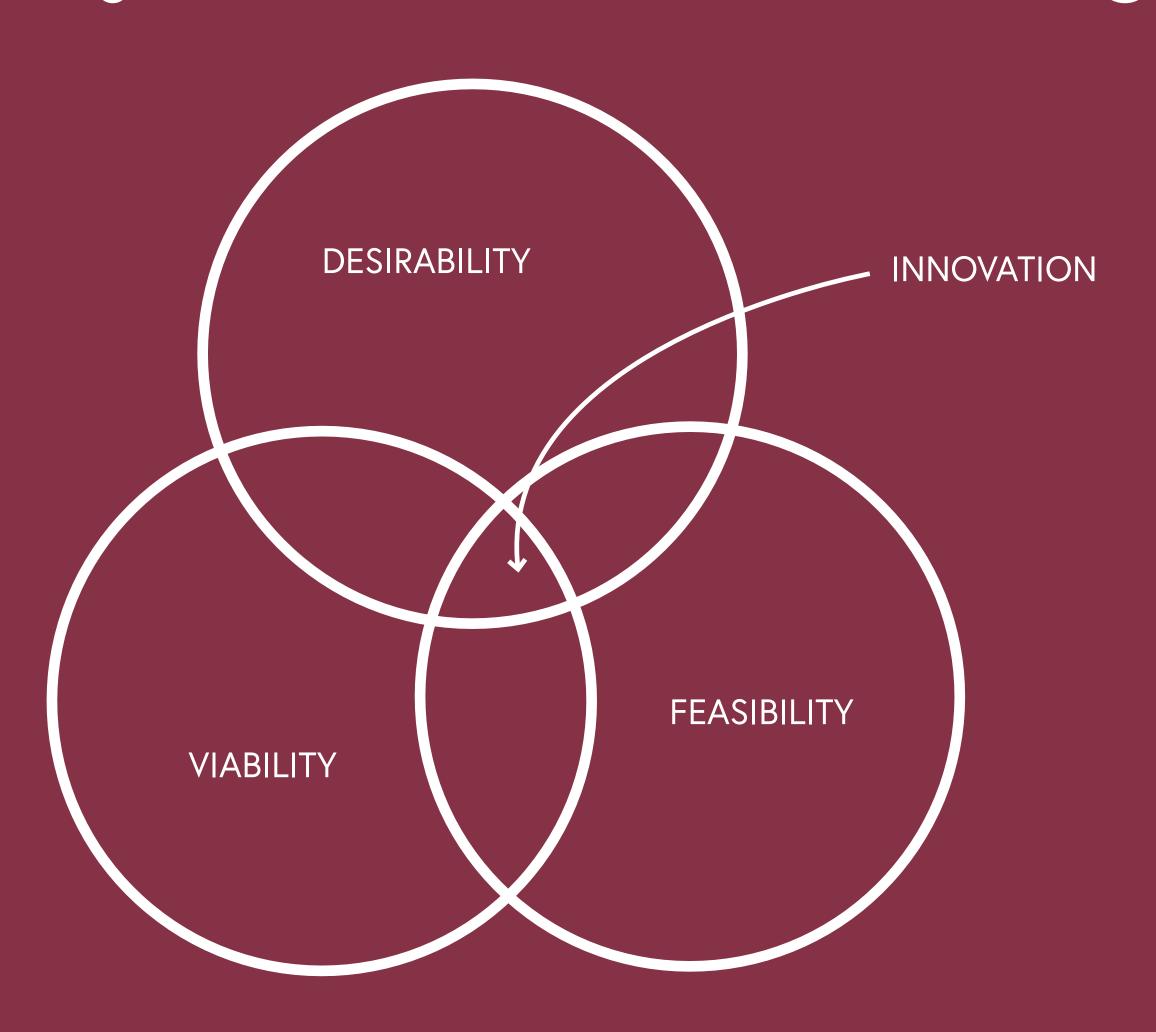
STANDARD SETTINGS

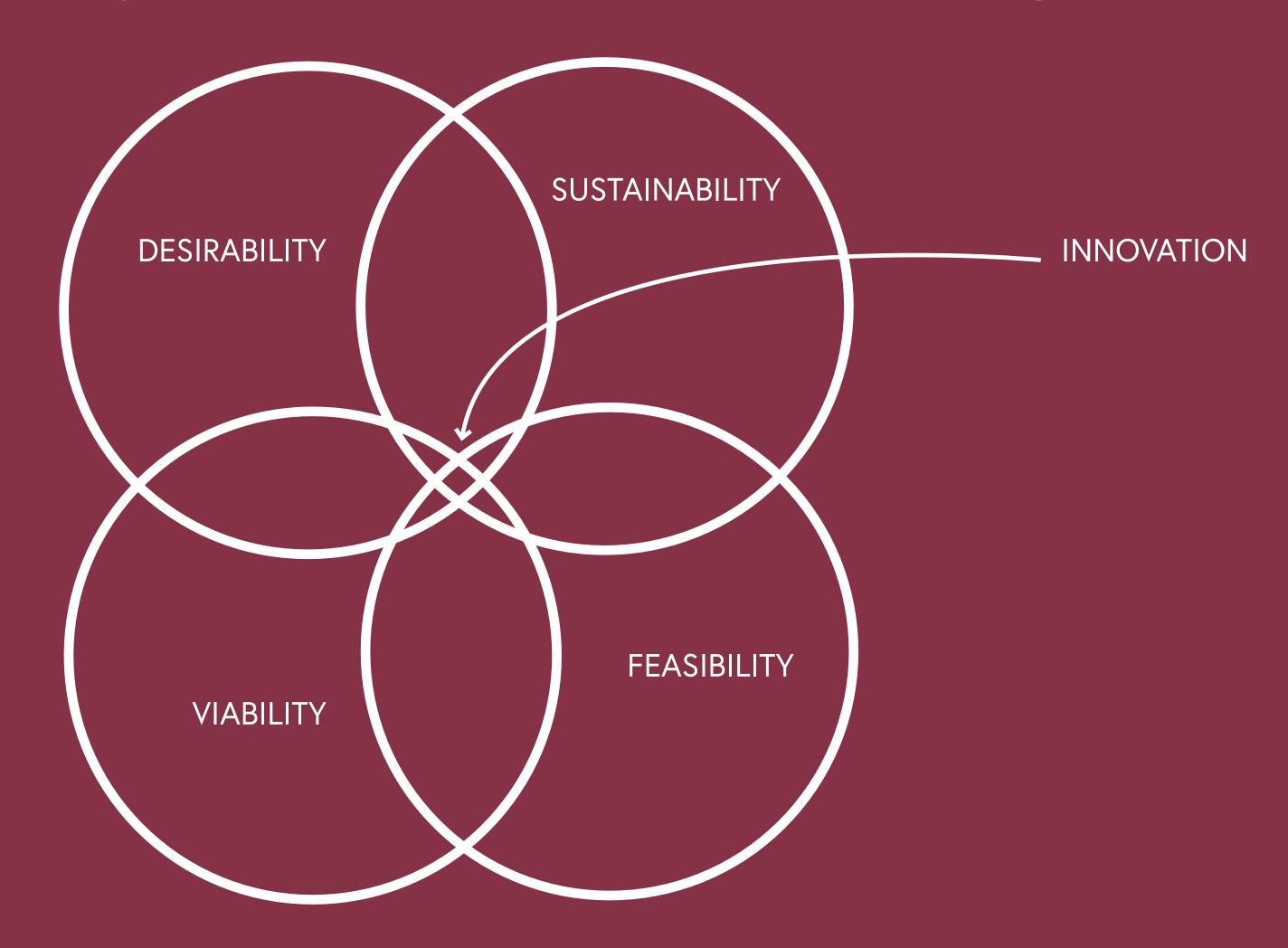
CLICK HERE, IF YOU WANT A VEGETARIAN OPTION VS.

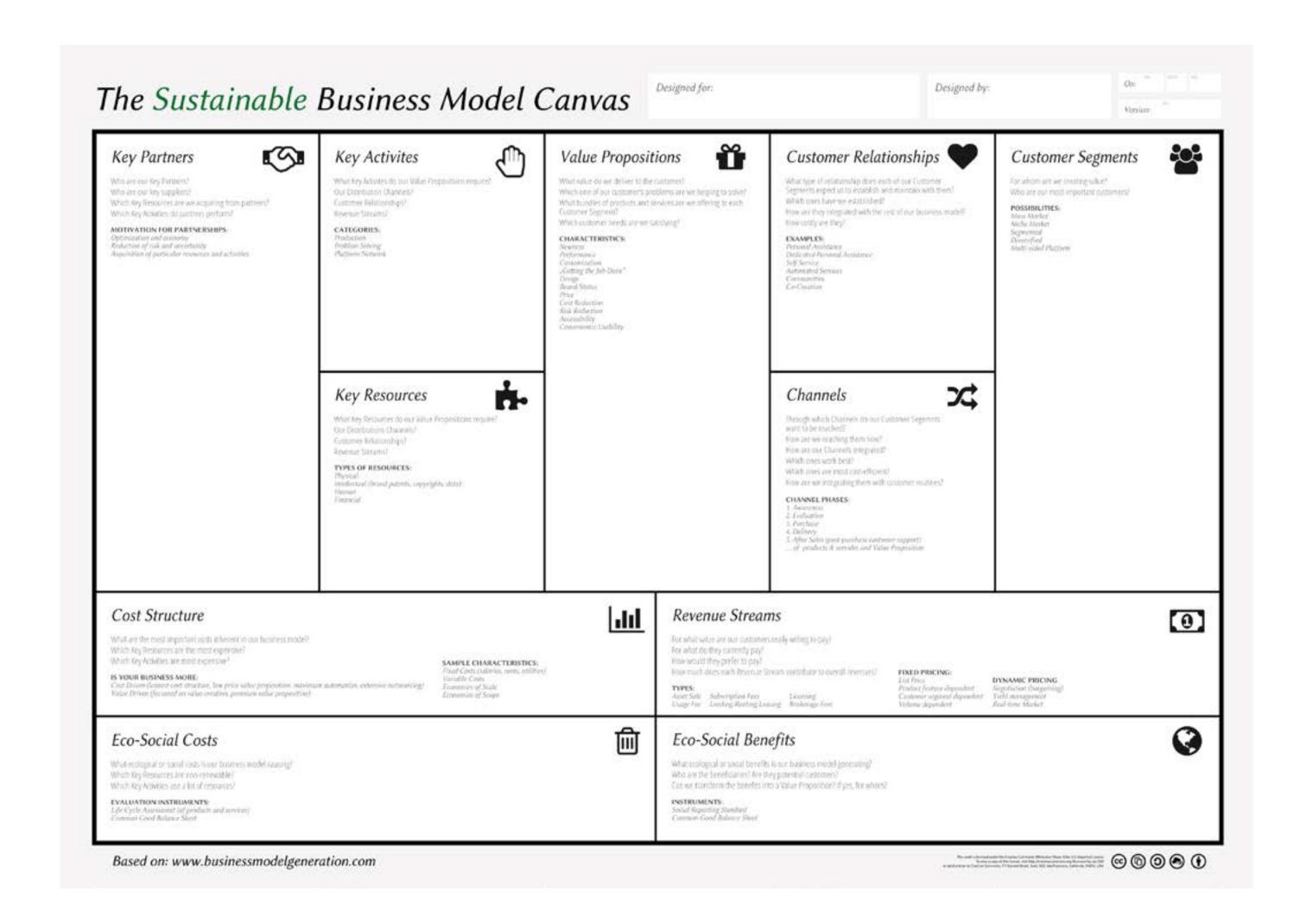
CLICK HERE, IF YOU WANT A MEAT OPTION













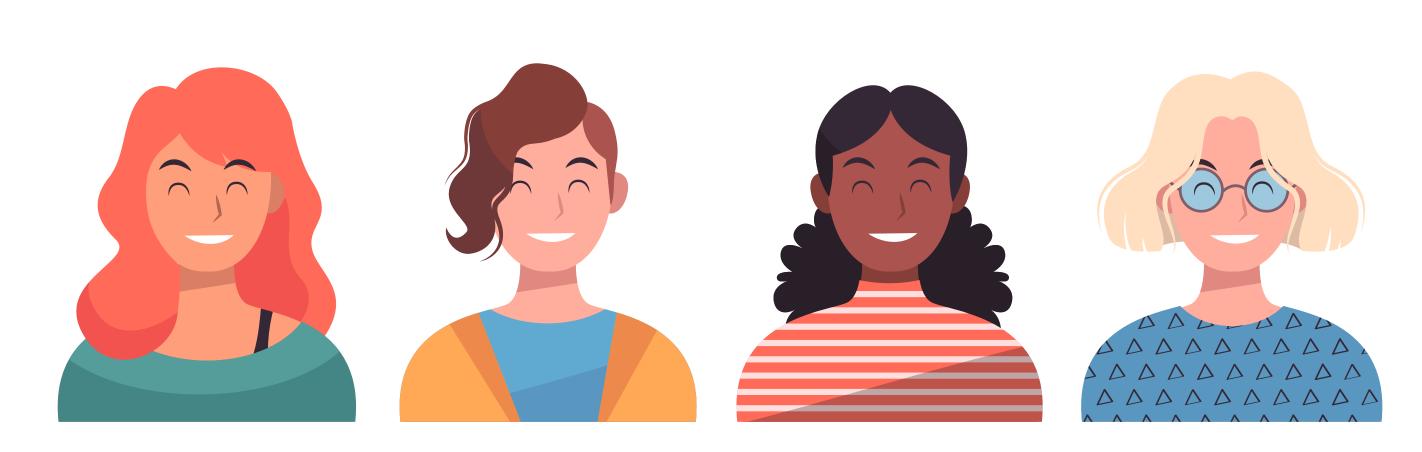
WHO IS IN MY TARGET GROUP?

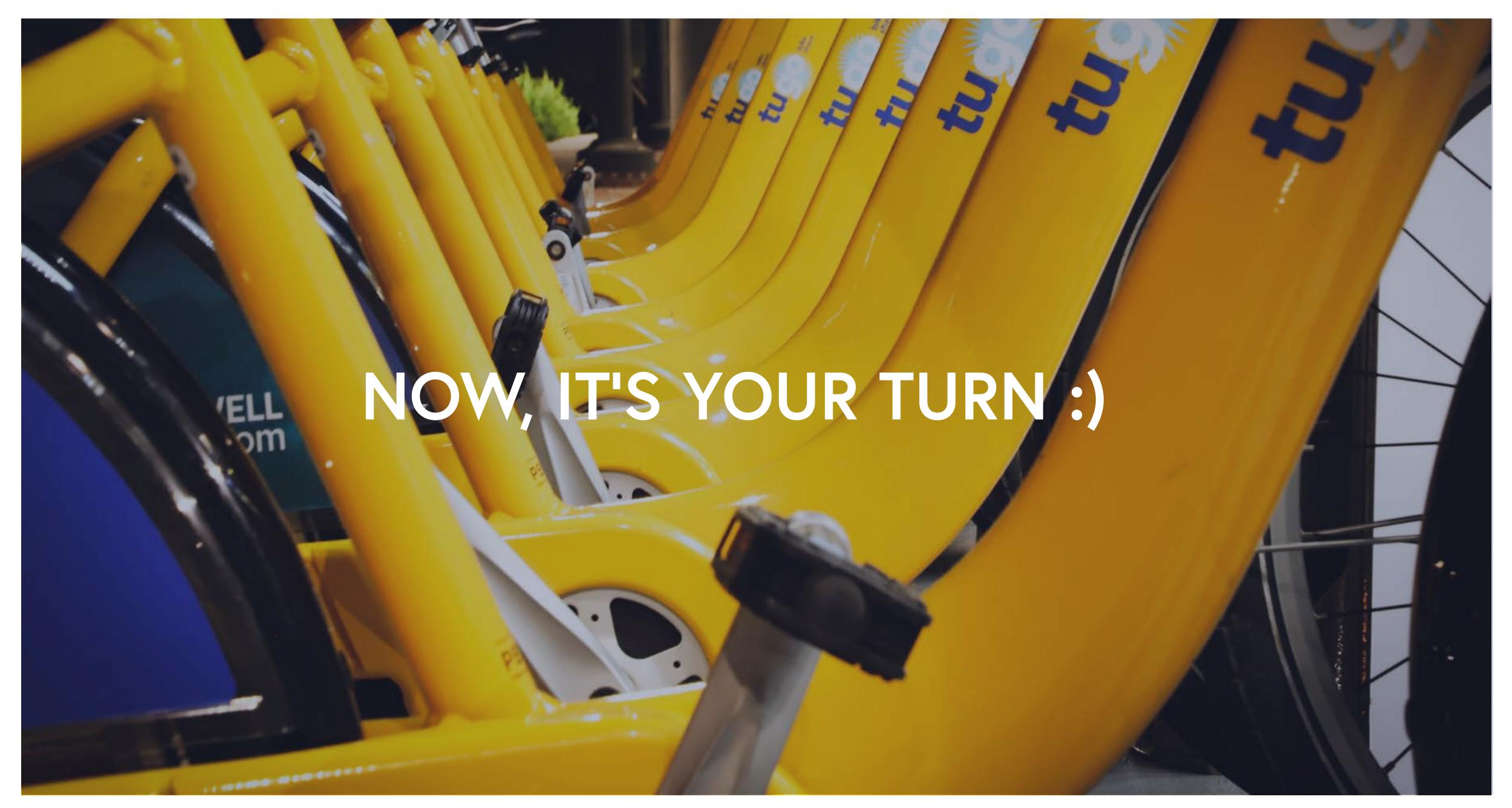


WHO IS IN MY TARGET GROUP?



WHO IS NOT IN MY TARGET GROUP, BUT WILL BE AFFECTED?





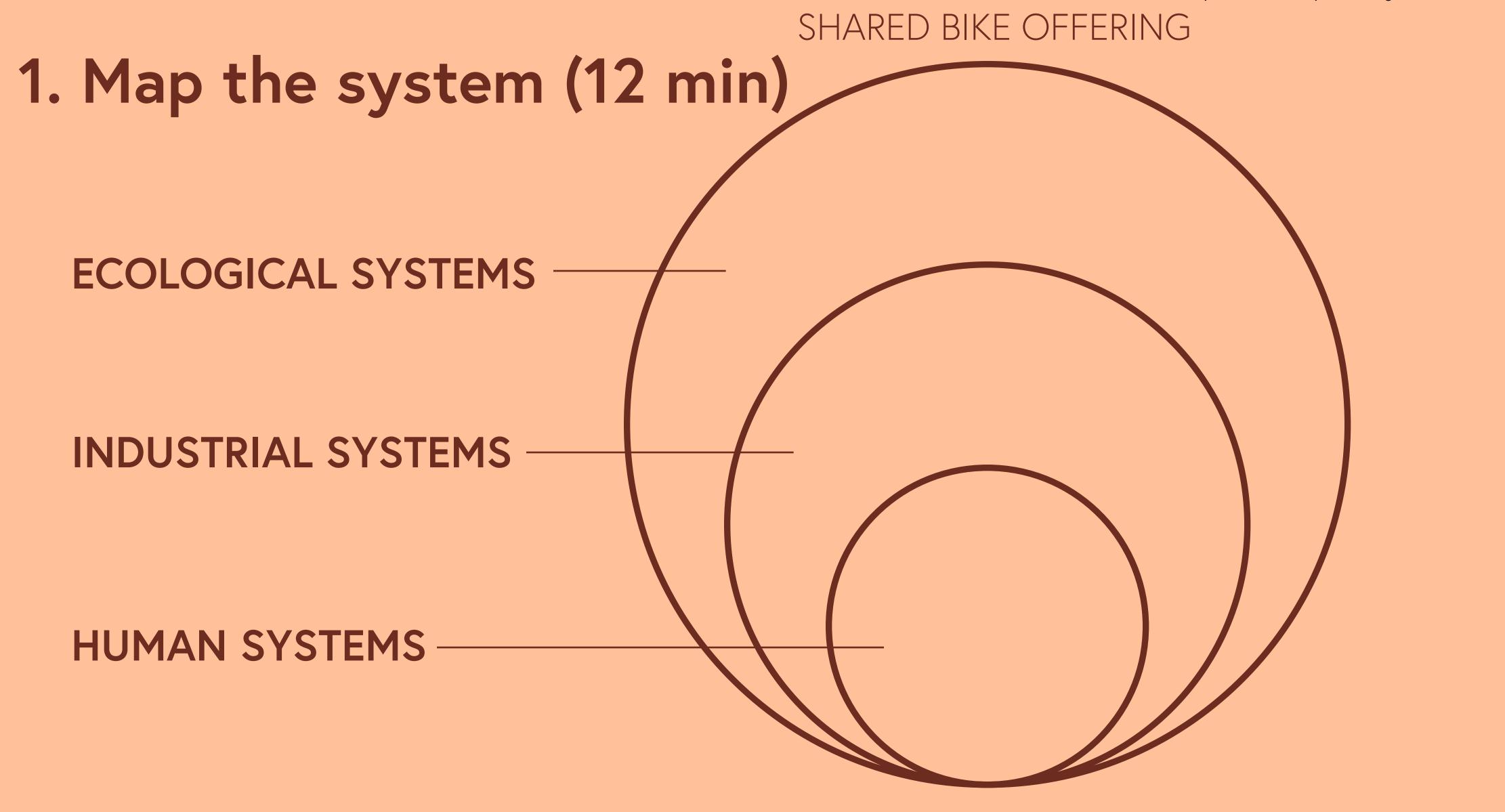
IMAGINE:

YOU ARE A COMPANY ON A MISSION TO HELP CITIES ACHEIVE A LARGE SCALE TRANSPORTATION MODE SHIFT - MOVING THE MASSES FROM FOSSILE FUEL BASED PRIVATE CARS TO MICROMOBILITY.

TODAY, YOU FOCUS ON OFFERING SHARED BICYCLES RENTED THROUGH A STATE-OF-THE ART APP. MOVING FORWARD, YOU WANT TO ENSURE YOU PROVIDE AN OUTSTANDING SERVICE AND USER EXPERIENCE - WHILE ALSO PROVIDING A SOLUTION WITH MEASURABLE SUSTAINABILITY EFFECT.

THEREFOR, YOU'LL NOW:

- 1. EXPLORE THE SYSTEMS YOUR MICROMOBILITY OFFERING ARE AFFECTING
- 2. SPOT UNINTENDED CONSEQUENCES
- 3. IMAGINE A REVISED OR NEW CONCEPT THAT CAN HELP YOU ON YOUR MISSION
- 4. PRESENT YOUR IDEAS TO EACH OTHER



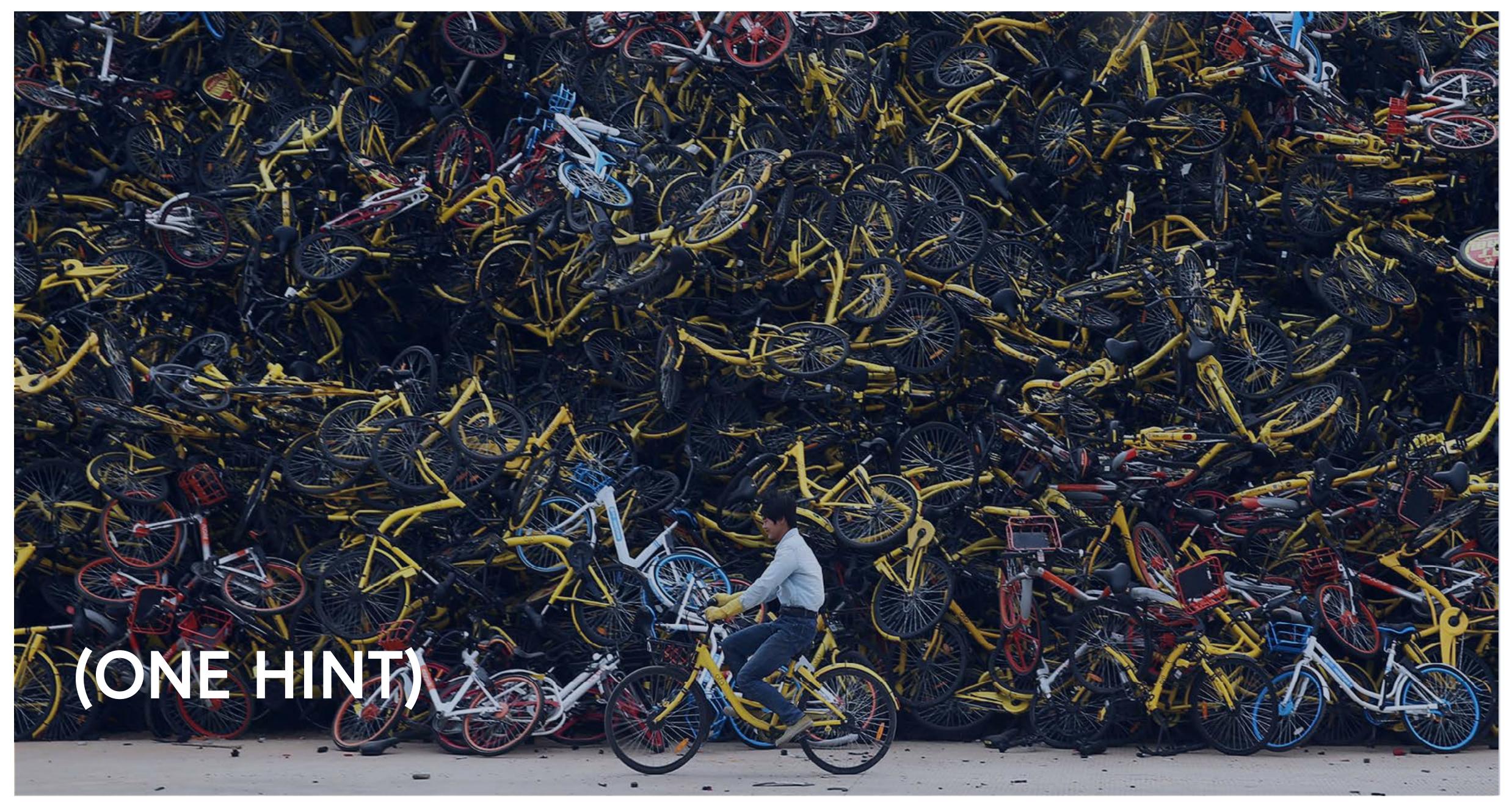
2. Spot unintended consequences (8 min)

1.

2.

3.

Challenge your optimism bias:
Which potential negative consequences can our offering have - right now, or when looking into the future?



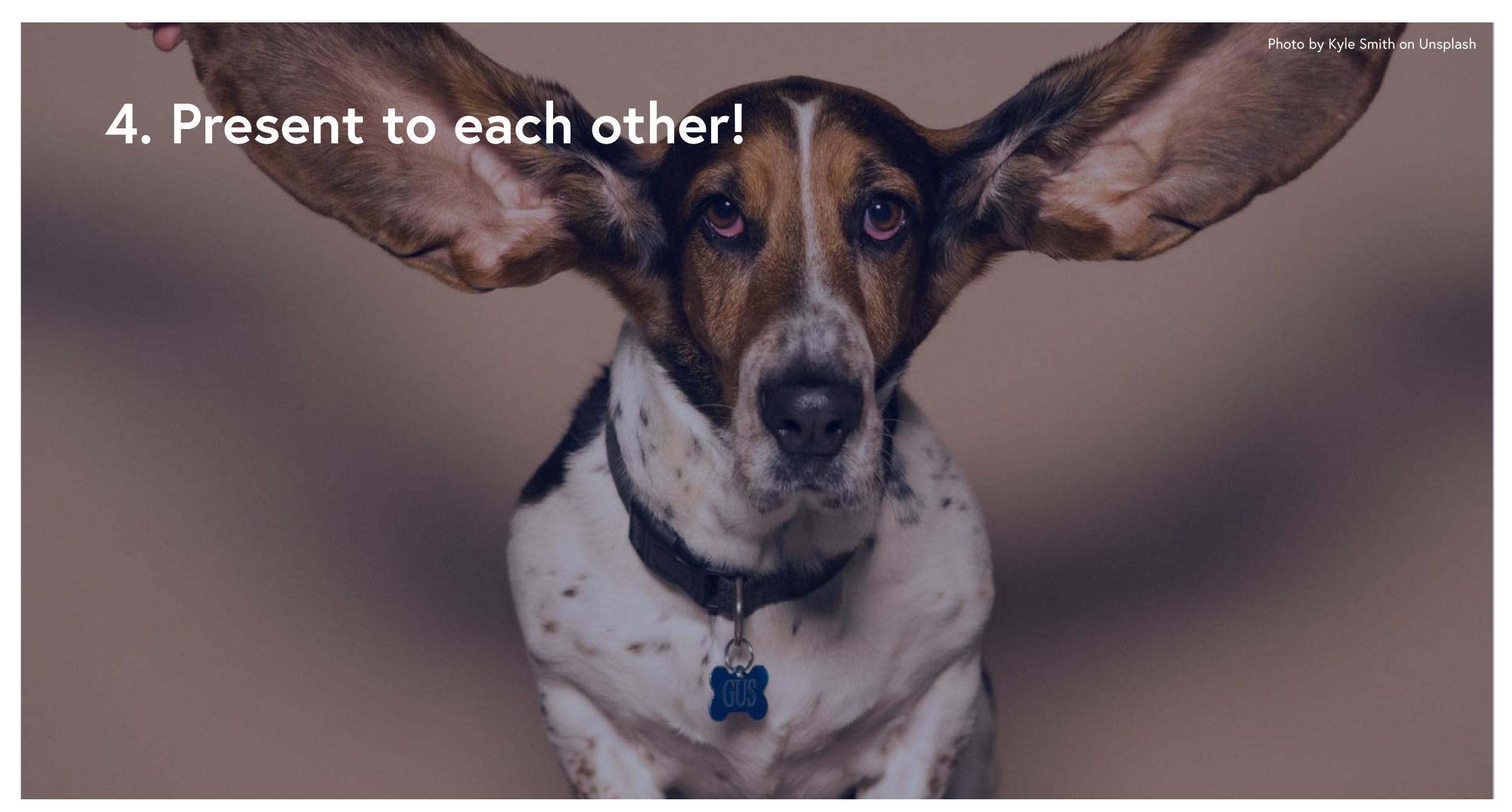
3. Create ideas for an improved or new offering, addressing one of the unintended consequences (30 min)

- use the green behavioural design actions as inspiration
- brainstorm on ideas
- detail a selected idea together
- present the idea on an A3 sheet with:
 - -concept name
 - -drawing
 - -selected unintended consequence

Design principles for creating green engagement and behaviour

TOOLBOX WORK IN PROGRESS - V.1.0 EXPECTED IN AUTUMN 2022 - REACH OUT IF YOU'RE INTERESTED!

- Make it meaningful (eg create ownership, address values, use cognitive dissonance...)
- Make it attractive (eg make it fun, cheap, healthy, tasteful, beautiful, ...)
- Make it social (eg support communities, use social proof, storytelling, mentors, ...)
- Make it easy (eg use standard settings, simplify, make unwanted behaviour more difficult, ...)
- Make it tangible (eg make it visible, talk to all senses, use emotions, ...)



Thanks for today!

I'd love to connect!

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x sara@thisfuturedesign.com

