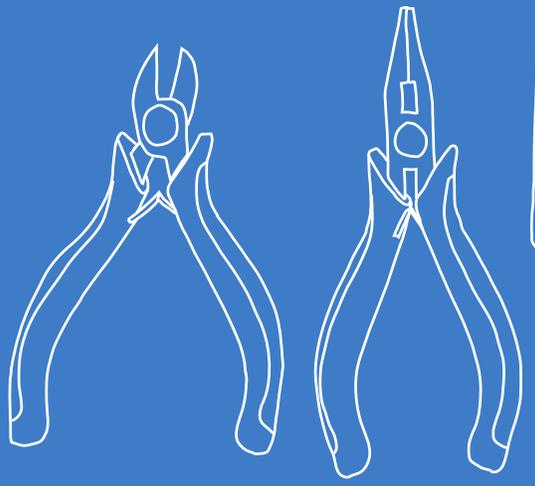


The Big Repair Project: Mobilising the General Public for a Circular Economy



UKRI Interdisciplinary
Centre for Circular
Metals



Mark Miodownik



Danielle Purkiss



Ayse Allison



Christian Partik

Right to Repair Roundtable



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Right to repair: how can we end built-in obsolescence?

- Events >**
- Events programme
- Catch up
- Event photo gallery

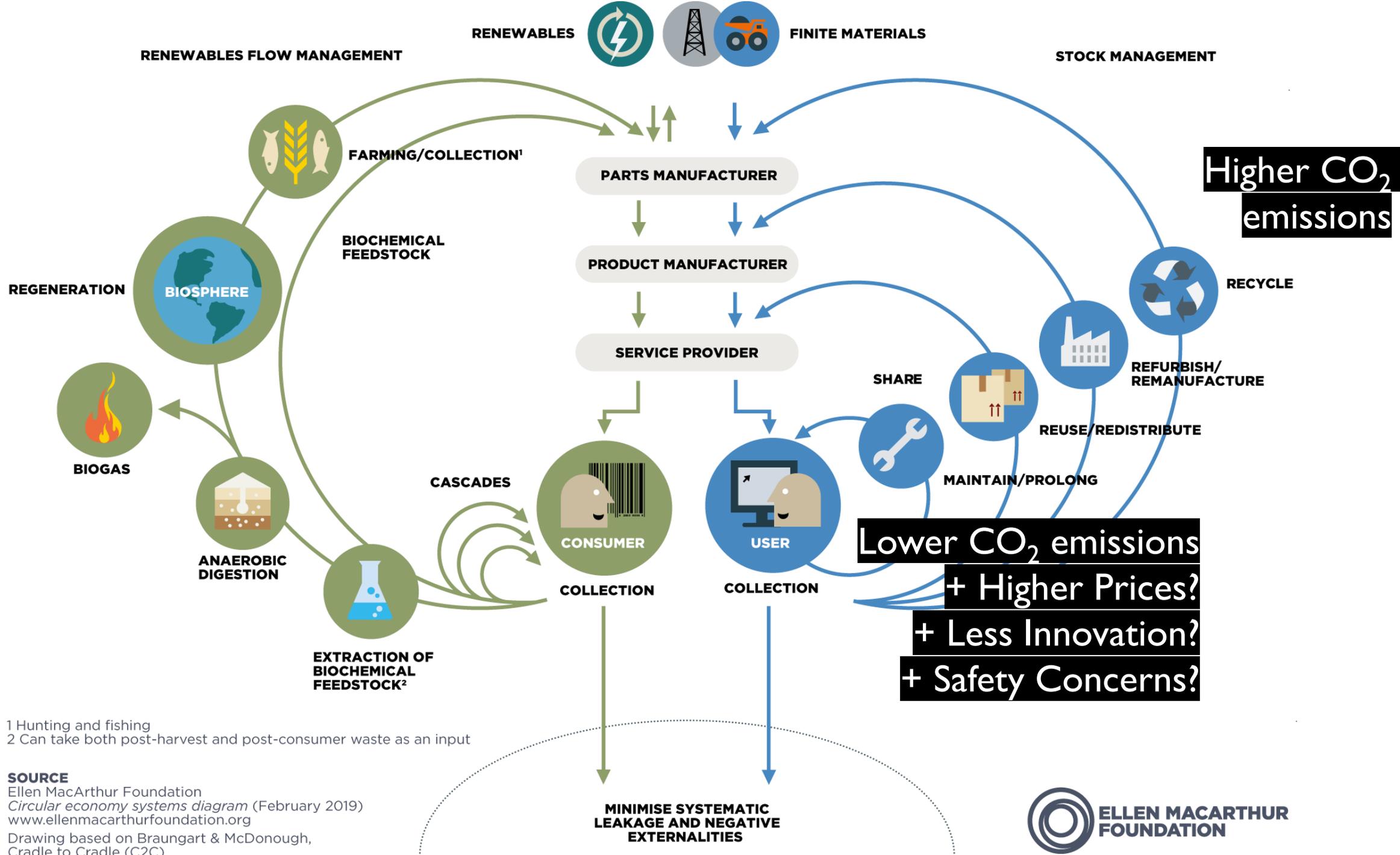
14 October 2021, 5:00pm - 6:00pm
ONLINE - LinkedIn



SOURCE
Ellen MacArthur Foundation
Circular economy systems diagram (February 2019)
www.ellenmacarthurfoundation.org
Drawing based on Braungart & McDonough,
Cradle to Cradle (C2C)

**MINIMISE SYSTEMATIC
LEAKAGE AND NEGATIVE
EXTERNALITIES**





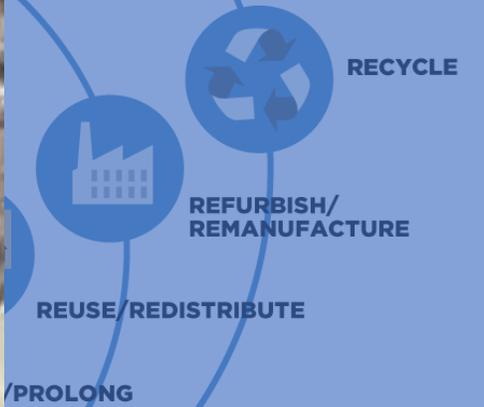
1 Hunting and fishing
 2 Can take both post-harvest and post-consumer waste as an input

SOURCE
 Ellen MacArthur Foundation
Circular economy systems diagram (February 2019)
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Service Models



MINIMISE SYSTEMATIC LEAKAGE AND NEGATIVE EXTERNALITIES



DIY Repair Models



REGI



RECYCLE

WASTEFUL/
MANUFACTURE

WASTE

1 Hur
2 Car

SOU
Ellen
Circu

www.ellenmacarthurfoundation.org
Drawing based on Braungart & McDonough,
Cradle to Cradle (C2C)

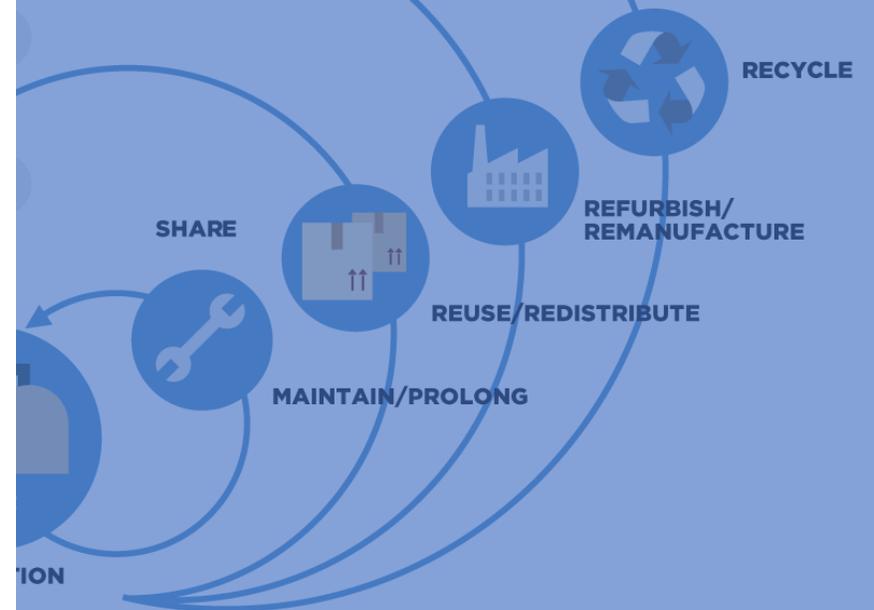
LEAKAGE AND NEGATIVE
EXTERNALITIES



MACARTHUR
FOUNDATION



Durability Models



1
2
S
E
C

RENEWABLES



FINITE MATERIALS

Durability Models



MANUFACTURER

MANUFACTURER

SERVICE PROVIDER

USER

COLLECTION

RECYCLE

REFURBISH/
REMANUFACTURE

REUSE/REDISTRIBUTE

MAINTAIN/PROLONG

SHARE

MINIMISE SYSTEMATIC
LEAKAGE AND NEGATIVE
EXTERNALITIES



REGEN

1 Huntin
2 Can ta

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www.elle

Drawing based on Braungart & McDonough,
Cradle to Cradle (C2C)

How to tip the balance towards a Repair Economy?

Higher Prices?

=Carbon pricing, Reduce VAT on Repair, Repairability Index

Stifles Innovation?

=Sustainability is Innovation, Right to Repair Legislation

Safety Concerns?

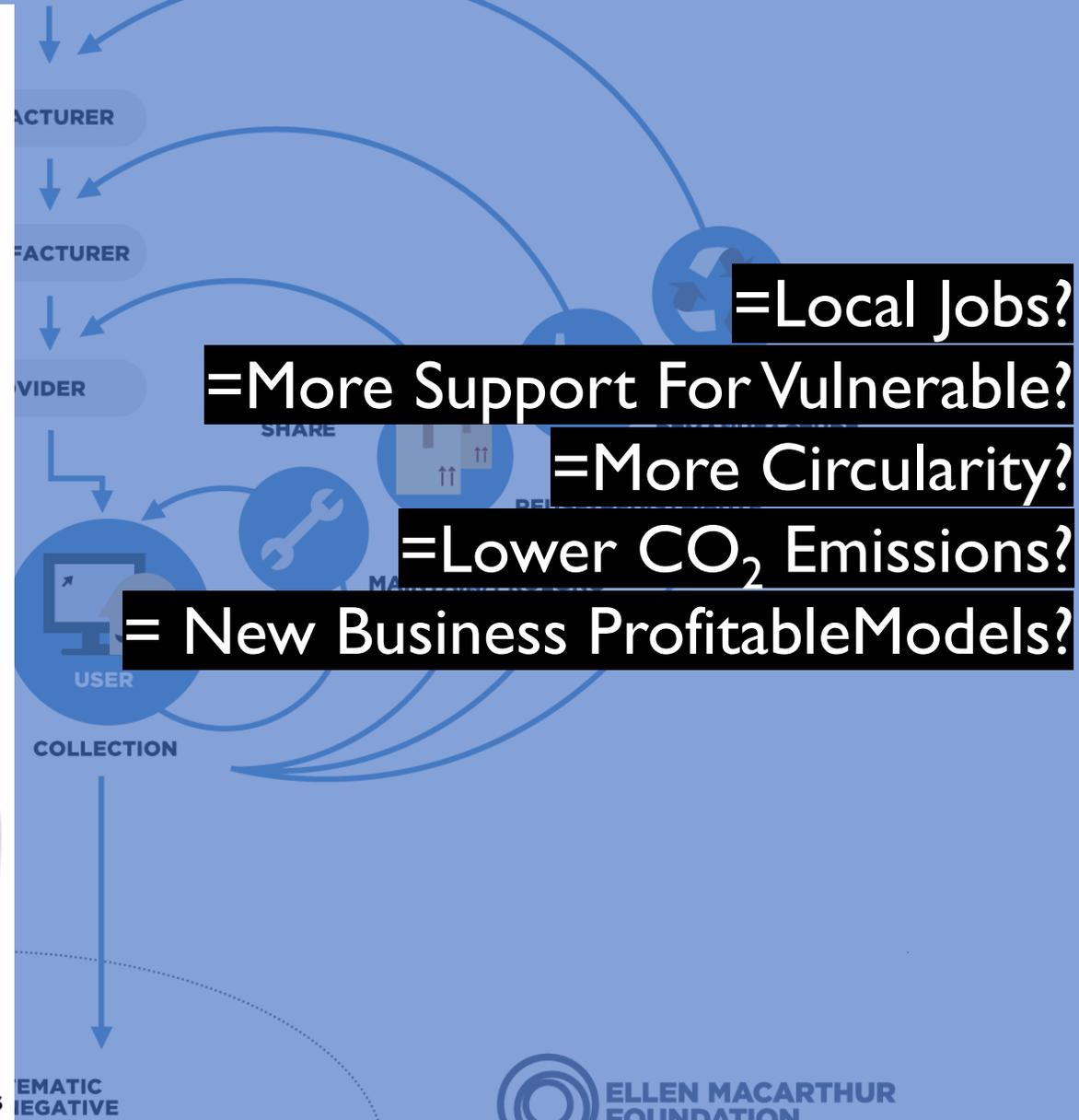
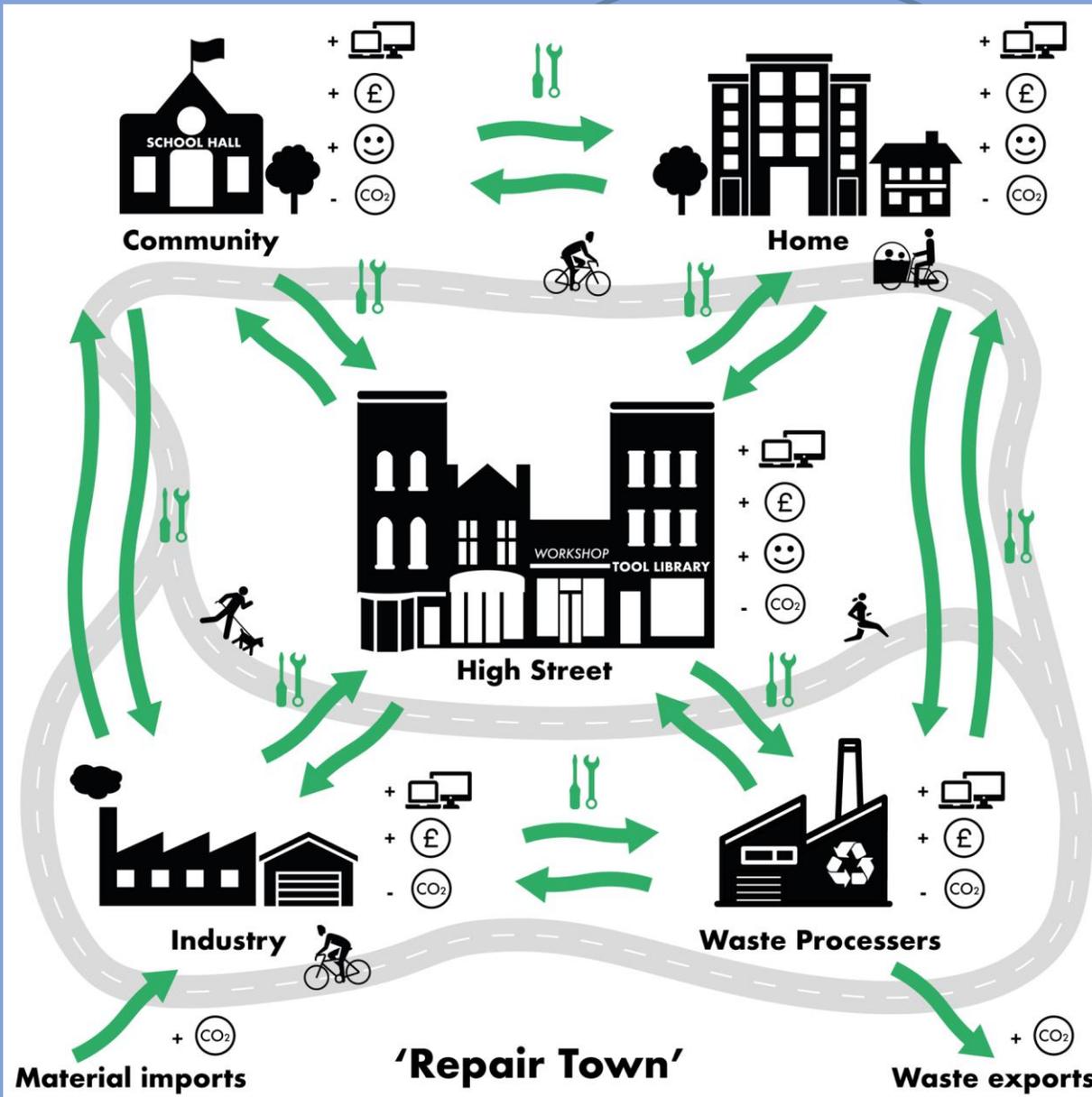
=Digital Passports

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Repair Ecosystem



=Local Jobs?

=More Support For Vulnerable?

=More Circularity?

=Lower CO₂ Emissions?

= New Business Profitable Models?

Drawing based on Braungart & McDonough, Cradle to Cradle (C2C)

Big Repair Project



🔴 Surveys completed
5 6 9 7

🔴 Activities logged
0 3 6 1

Take part in the Big Repair Project!

The UCL Plastic Waste Innovation Hub would like your help to better understand the factors affecting household maintenance and repair (carried out yourself or using professional services) of home appliances and electronics across the UK. Your participation will help develop 'Right to Repair' policy and support the UK towards meeting important environmental targets.

The first part of the project is a short survey about your opinion and behaviour towards maintenance and repair of home appliances and electronics. See [Participant Information](#) for details. The second part is an optional Logbook to share a few details about your maintenance and repair experiences. See [Logbook Guidelines](#) for details.

#bigrepairproject

Take part →

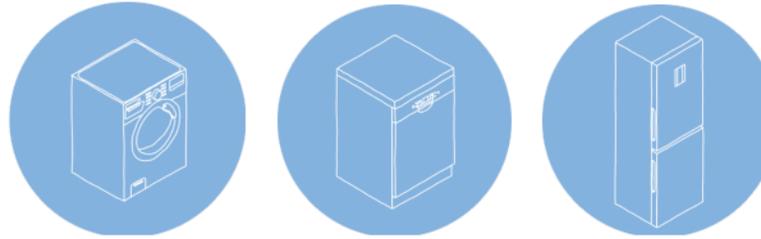
Log in →

Please see [Participant Information](#) for details about taking part.



Big Repair Project

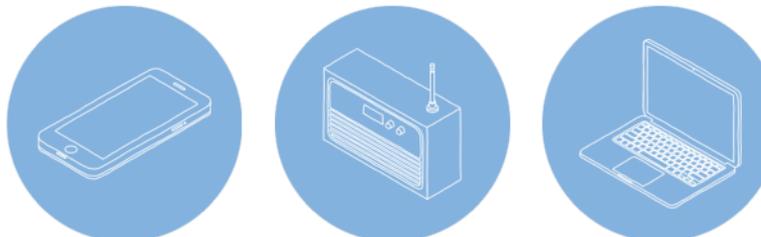
- **Large appliances** - Larger non-portable or semi-portable machines used for routine housekeeping tasks such as washing machines, dishwashers, fridges.



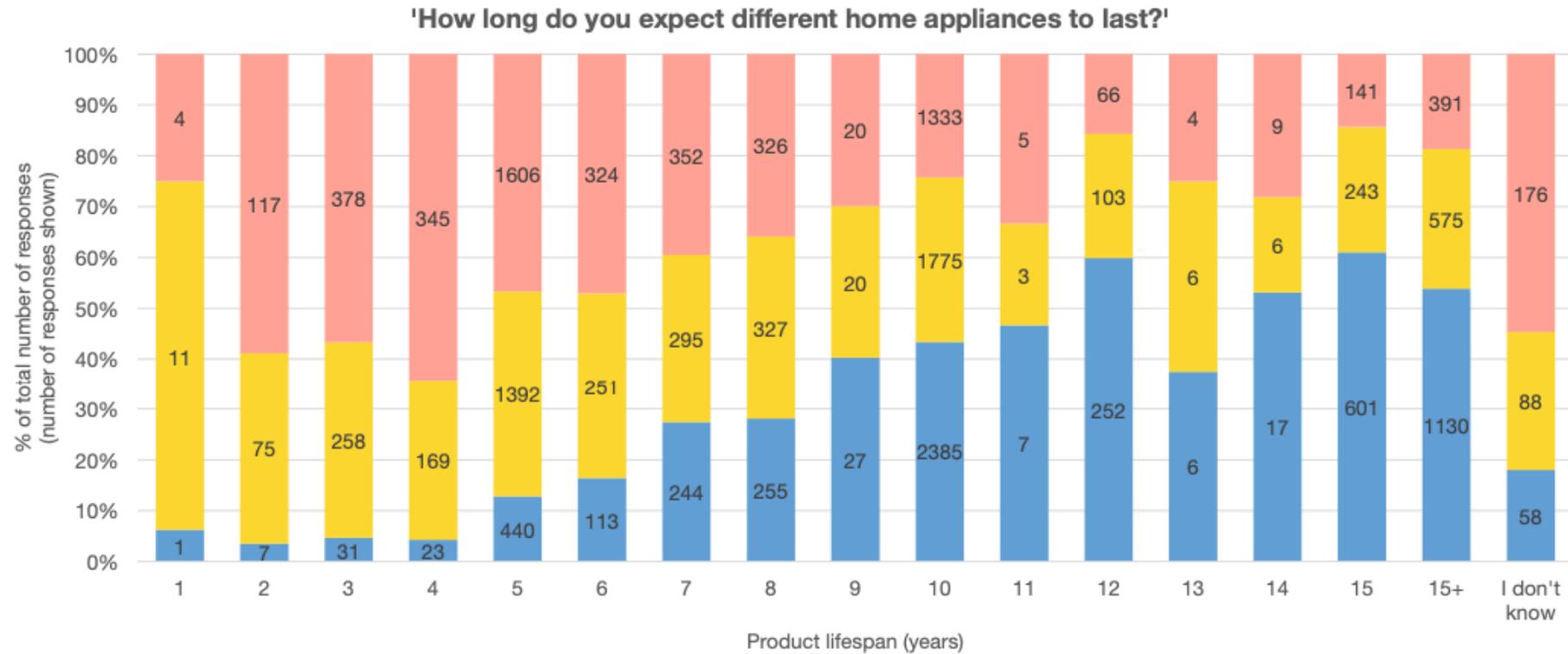
- **Small appliances** - Smaller more portable machines used for household tasks such as kettles, toasters, microwaves, vacuums, light fixtures.



- **Home electronics** - Electronic devices used for entertainment, communication or recreation such as televisions, laptops, printers, radios, mobile phones, digital cameras, games consoles.



Attitudes Survey



Note: Values calculated from 5597 survey responses (19/01/22- 02/03/22). Multiple responses included.

■ Large appliances ■ Small appliances ■ Home electronics

Figure 03. Responses to survey question 'How long do you expect different home appliances to last?'

Repair Log



Item Mouse 3
Date acquired Mar 2021
Activity Basic
Result Item works perfectly
Region North West



Item Radio 2
Date acquired Jan 2020
Activity Basic
Result Item works perfectly
Region North East



Item Lamp 3
Date acquired Dec 2005
Activity Maintenance
Result Item works perfectly
Region South East



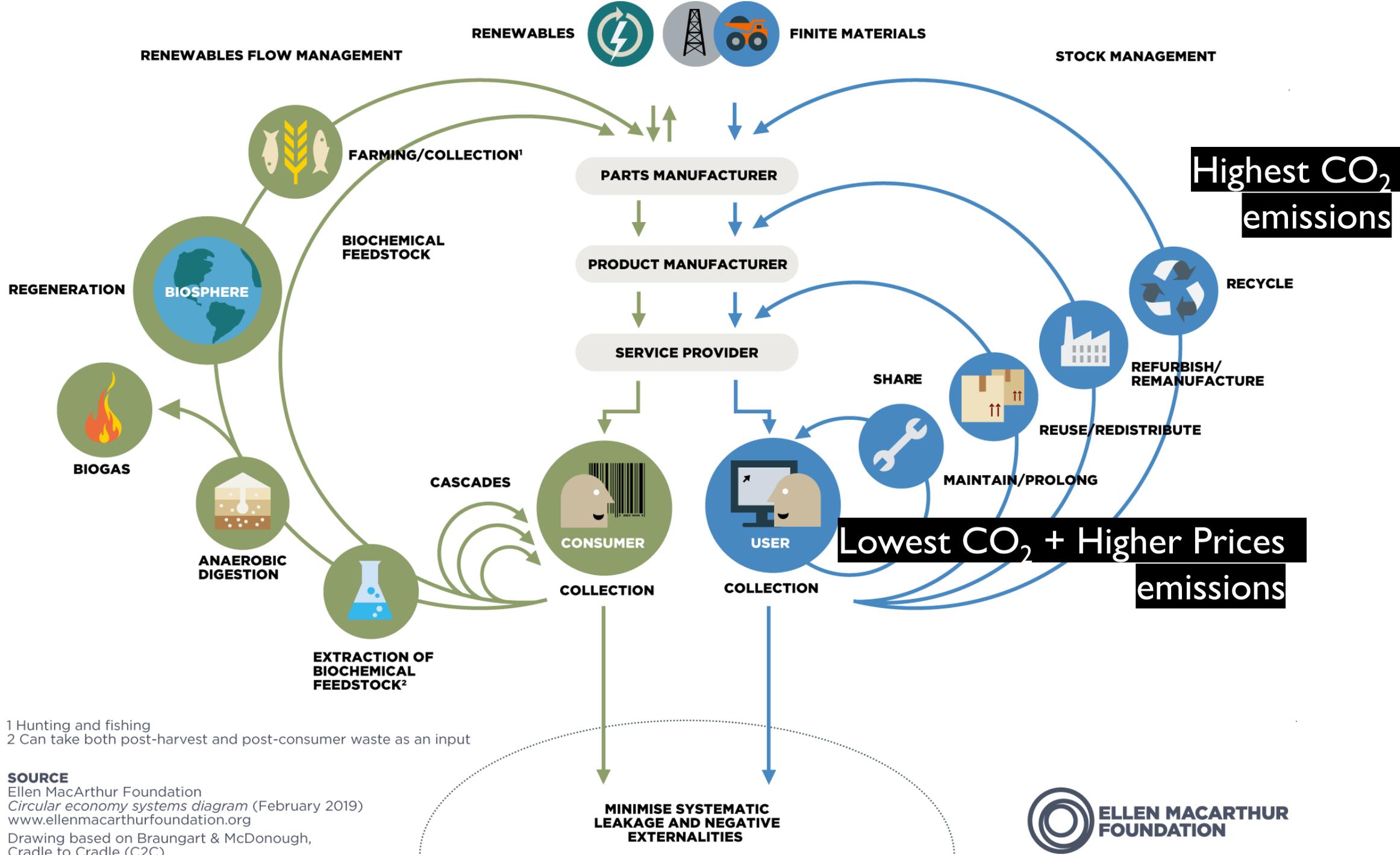
Item Vacuum cleaner 1
Date acquired Sep 2020
Activity Advanced
Result Item works perfectly
Region North West



Item Musical instrument (electric) 3
Date acquired Jan 1987
Activity Advanced
Result Item works perfectly
Region Greater London



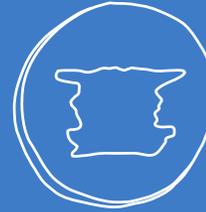
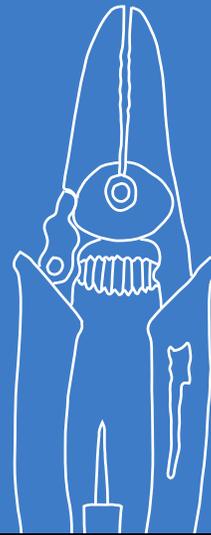
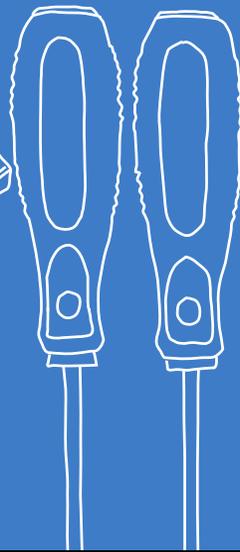
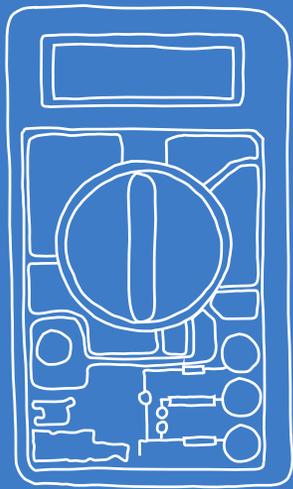
Item Printer 1
Date acquired May 2022
Activity Complex
Result Item does not work
Region Greater London



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www.bigrepairproject.org.uk

