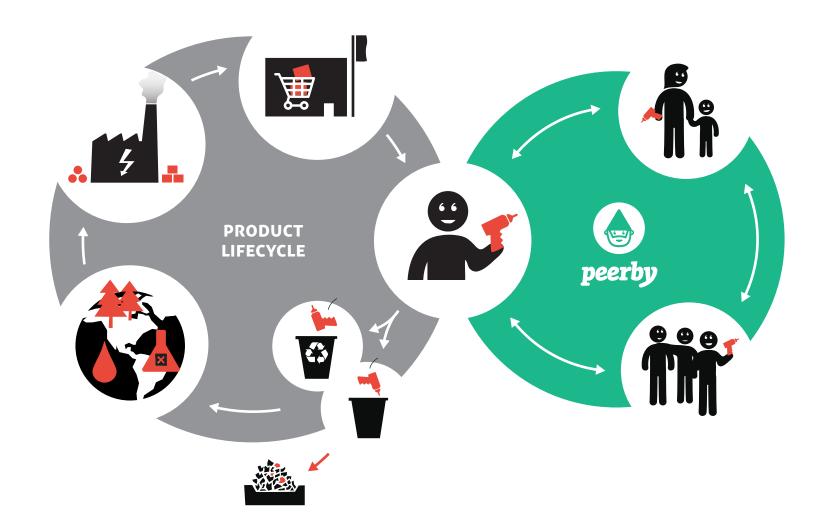
WHY PEERBY MATTERS

We believe Peerby helps move towards a more sustainable society. But what does that mean? And does Peerby truly have a positive impact? To find out, we asked our friends at the sustainability research and innovation firm Except Integrated Sustainability. Below they explain their analysis of Peerby's impact.



The impact of a product is the combination of impacts of all the

THE PRODUCT LIFECYCLE

phases of its life, from the extraction of raw materials to manufacturing, shipping to stores, its use and it being thrown away.

By sharing products with your neighbors with Peerby,

EXTENDING THE LIFECYCLE WITH PEERBY

the cycle's impact is reduced to only its use-phase, saving a huge amount of resources, and money.

THE LIFE OF A PRODUCT

PEERBY CHANGES LIFE CYCLES

Each phase of a product's life uses resources such as energy,

fuel, water, and materials. This has an effect on the environment by polluting and depleting materials, producing CO_2 and other impacts. That's the price we pay for having nice stuff. But there's something wrong with this life cycle...

Take a look: an average power drill has a lifetime of about 160 operational hours. But did you know that a drill typically only

its unused 99,9% available to your neighborhood?

gets used for about ten minutes over its lifespan? That is merely 00.1% of its potential lifespan! (Thackara 2005). The rest of the time it's just collecting dust on the shelf.

This means that all the impact of its life cycle is used for only 10 minutes of drilling. What a waste. What if you could make

PEERBY TO THE RESCUE

Your neighbour might also need to drill just a few holes. If he



those products yourself?

of you just saved an entire power drill from being manufactured, shipped, sold, and transported. A huge saving with little effort.

Imagine all the unnecessary energy, shipping and used materials saved by simply sharing stuff to some of your neighbors. And imagine the money you save if you don't have to buy all

That's what Peerby does: connecting people to have a lasting positive impact, while saving you some cash.





Peerby has a positive environmental, social, and economic impact, in several ways.

PEERBY'S IMPACT

PEERBY'S ENVIRONMENTAL IMPACT

many different products available on to share on Peerby. Also, not

Measuring Peerby's total impact isn't easy, because there's so

every 'share' has the same characteristics; for example, the positive

impact of sharing differs between sharing with your direct neighbour or someone half an hour's drive away. It also depends on whether you take you take your bike or car to pick it up, and many other factors. To give you an idea of Peerby's positive impact, we've made a rough outline of an ordinary vacuum cleaner shared with your neighbors.

EXAMPLE: SHARING A VACUUM CLEANER ON PEERBY





TRANSPORT

?? KM

ELECTRICITY



CO,/GHG

55 KG

WATER

700 L



924 MJ







CONNECTIONS

tion waste), 700 liters of water, 55 kg of ${\rm CO_2}$ eq, and it costs about 110 \in .*.

Each time a vacuum cleaner is bought, this impact happens. So each time a vacuum cleaner is shared, you save all that energy, materials, water, waste and CO_2 . The vacuum cleaner also needs to be transported to your home, which will produce extra CO_2 . For a

vacuum cleaner, you typically shouldn't drive more than a mile.

Cars are pretty impactful, so it's best to share with direct neighbors

or people just a few blocks away which you can cover by foot or on

Producing a typical household vacuum cleaner, bringing it into your home and disposing it afterward, costs (without using it)

about 300 kWh in energy, 19,2 KG of materials (including produc-

a bike. Or of course, if you happen to pass anyway on your way somewhere else.

The environmental impact of Peerby is bigger than only CO₂, it also saves water which is typically used a lot in the production of any product and a resource getting increasingly scarce. In addition, waste, both toxic and non-recyclable, are saved, as well as energy and land use for factories and material extraction.

*This does not include CO₂ emissions produced from the store to your home.

are also other impacts on social and economic level. Peerby brings people closer together, and perhaps you'll meet people you would otherwise never have contact with, which increases social connec-

Also, instead of buying new products with your hard-earned

tivity and generally leads to happier people, safer and more thriv-

money, you can save it for things that mean more to you. Sharing

Next to the positive environmental impact of sharing stuff, there

THE SOCIAL AND ECONOMIC IMPACT OF PEERBY

ing neighborhoods.

with Peerby therefore saves money, and increases the economic strength of your neighborhood. On the other hand, sharing stuff with your neighbours and using it more does increase risk of something happening to it. That's why Peerby is offering insurance to take that risk away. But of course, its better to simply take care of all the stuff.

DETAILED PERFORMANCE INDICATORS

are therefore higher.

Sharing products avoids electricity use During each stage of the production of in all life cycle steps, but increases products water is consumed for tation produces emissions. CO₂ emis-

cooling, running machines, cleaning,

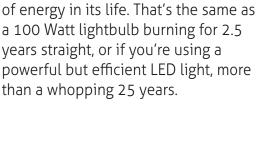
and other manufacturing operations.

WATER

22.000 L

extracting and making materials,

The detailed numbers below are for the entire life cycle of a vaccuum cleaner, including its use phase, and



ENERGY

8056 MJ

energy consumption during its use

buy one that's energy efficient. A

phase. So if you need to buy a product,

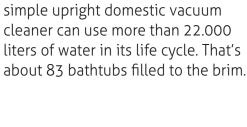
vacuum cleaner uses about 8000 MJ

FUEL
924 MJ

Fuels are used to produce energy, to run machines and to transport products all around the world. Fuels are typically fossil in nature: they are not

renewable and add additional CO₂ to the atmosphere. Some can be renew-

able, but still cause local air pollution



This amount can be staggering. A

WASTE
20 KG

Waste is not only generated at the end

of a product's life, it happens through-

out the whole life cycle. Actually

typical production produces many

times more waste than the product

itself. For the Vacuum cleaner this

amounts to about 20 kg of waste.

A vacuum cleaner produces the equivalent of about 400 kg of CO_2 .

CO,/GHG

404 KG

sions cause climate change. Other emissions cause acidification and air

pollution.



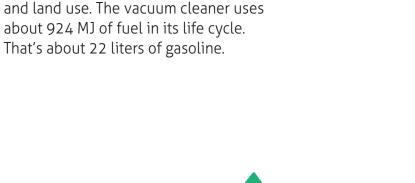
transported twice around the world

before it gets to our stores. Even as

waste it is transported around. Transport uses energy and fuel, but also uses roads, ships, trucks and cars, and causes air pollution.

The assessment of the transport miles of a vacuum cleaner are still in progress.

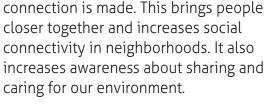
CONNECTIONS



LAND USE

The extraction of materials, building factories, roads for transportation, stores etc all consume land. This land is then no longer available for wildlife and people to live on. Land is one of the most scarce resources we have.

Land use is extra important because every area of land used for something cannot be used for something else through recycling. Double land use is rare, and hardly present in industries, such as those that produce vacuum cleaners.



Each time a product is shared a

Peerby has, in total, connected more than XXX people, and counting.

ANALYSIS AND SUSTAINBILITY
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