

FAMILY

VS

PLANET



## FAMILY

### Intro

## EARTH



I wanted to understand what impact my family has on the planet and what actions I might take to change it for the better.

I decided to see what I could find online to help answer this question. I put all the data and calculations in a spreadsheet which you can find at the end.

Once I had identified the challenges I then wanted to use the innovation process to find solutions for the future...

I also wanted to understand how my consumption related to the rest of the planet.

I used online sources to compare my own use and decided to present them side by side.

**The results are shown in the slides below**

My family of **3**  
- 2 adults, 1  
child


# FAMILY

# Overview

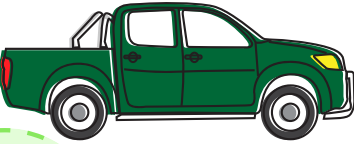
# EARTH

Average of **4.9**  
people per  
household

We rescued some horses!



3 people, 4 horses, 2 dogs & 3 cats



School run is **600km** / week



Work online from home farm



Satellite internet best option



DATA ACCURATE AS OF PUBLISHED DATE 18/04/2022

EACH MONTH

My family requires 1.1MWh for our home

FAMILY

Energy used & cost

EARTH

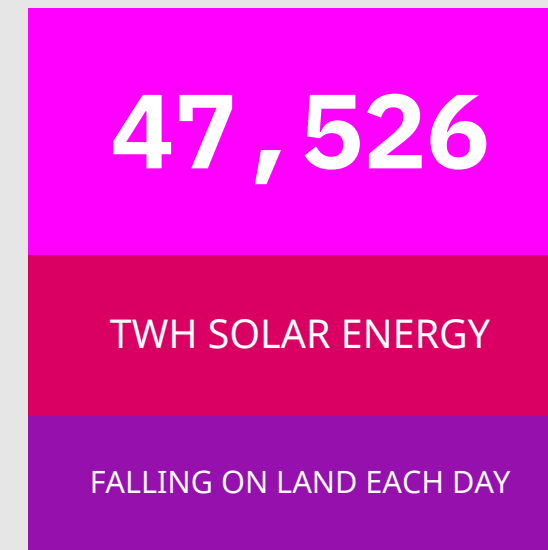
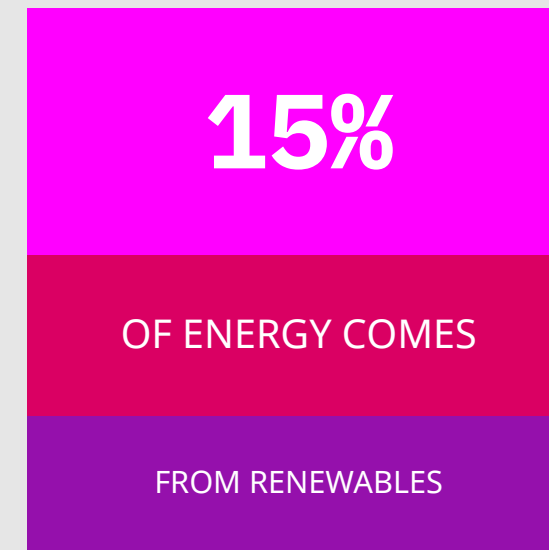
Globally we generate 13.2TWh

EACH MONTH

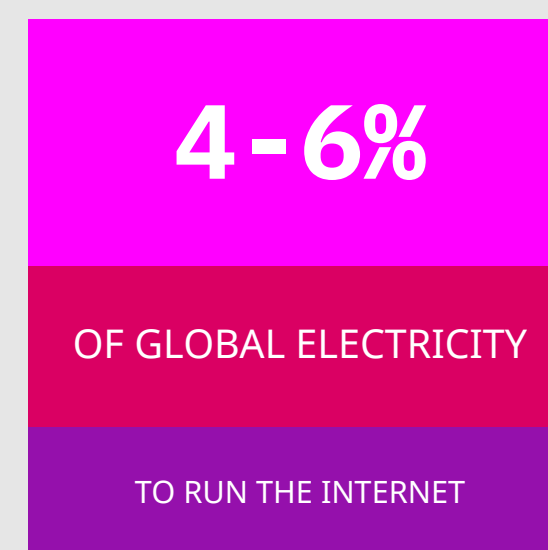


25kg CO2 emitted - supply is hydro & nuclear

€215 / mth family total spend on home energy



The poorest 20% of the UK still consume more than 5 times as much energy per person as the bottom 84% in India, a group of about a billion people.



What's the cost of global energy supply?

EACH MONTH

My family is responsible for **482 kg** of CO2 from food production

19 x more emissions than my home energy!

**FAMILY**

**Food production emissions**

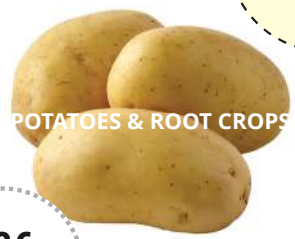
EARTH

We create **1.24** billion tons of CO2 from food production

**EARTH**

EACH MONTH


**3.1kg** CO2 emitted



POTATOES & ROOT CROPS

**13€** spend

**17.4kg** CO2 emitted



FRUIT & VEG

**€67** spend

**34.7kg** CO2 emitted



BREAD & GRAINS


**€16** spend

**0.4 Kg** CO2 per kg produced



POTATOES & ROOT CROP

**0.8 Kg** CO2 per kg produced




FRUIT & VEG

**2.1 Kg** CO2 per kg produced



BREAD & GRAINS

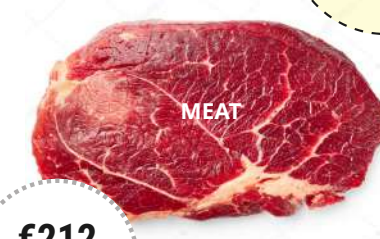
**4.8kg** CO2 emitted



FISH

**€3** spend


**320kg** CO2 emitted



MEAT

**€212** spend

**102kg** CO2



DAIRY

**€25** spend

Wow, eating meat is really planet expensive



FISH

**8 Kg** CO2 per kg produced

**19.7 Kg** CO2 per kg produced



MEAT

**9.3 Kg** of CO2 per kg



DAIRY

**€336 / mth**  
family total spend on food

**€8.6B / mth**  
spent on food in EU in 2021



EACH MONTH

My family generates **554kg** of CO2 from transport

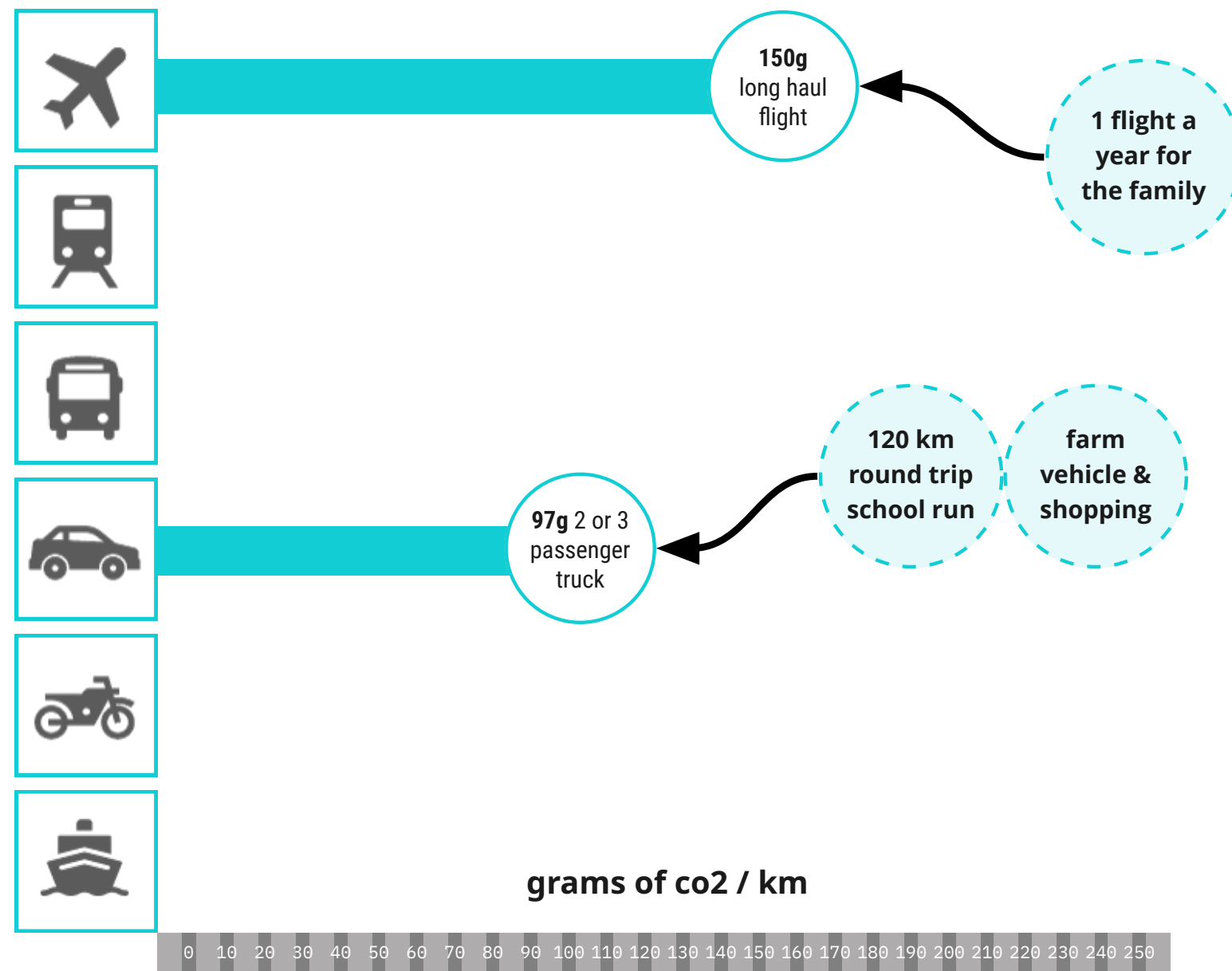
FAMILY

# Mobility cost & emissions

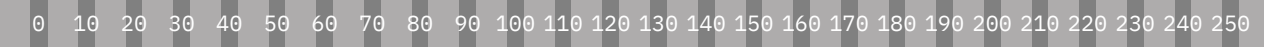
EARTH

We create **683** million tons CO2 from transport

EACH MONTH

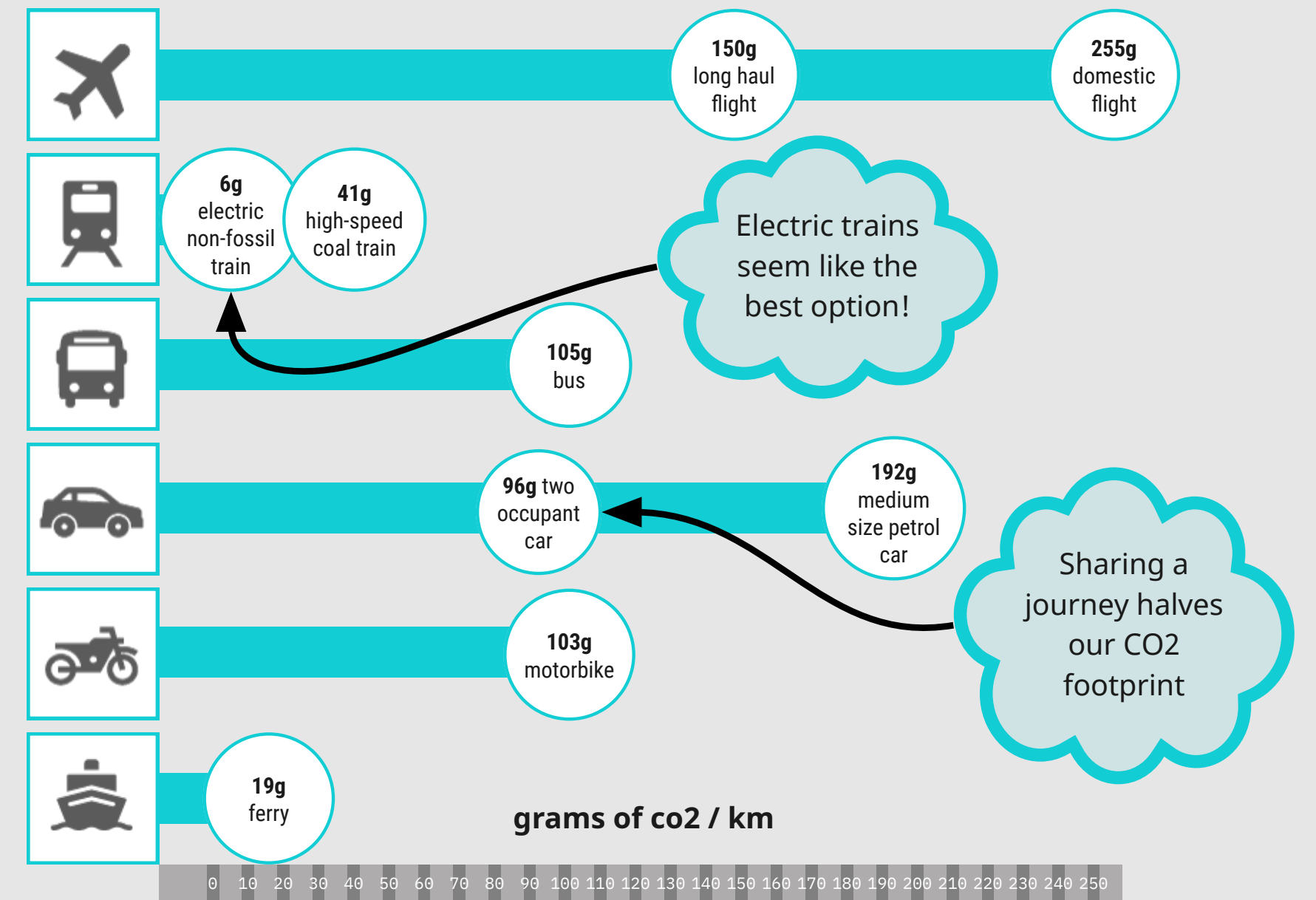


grams of co2 / km



€589 / mth

family total spend on mobility & transport



grams of co2 / km



Source: [ourworldindata](https://ourworldindata.org)

See last slide for more source information & calculations

EACH MONTH

My family generates **1.5 tons** of CO2 from goods & services

FAMILY

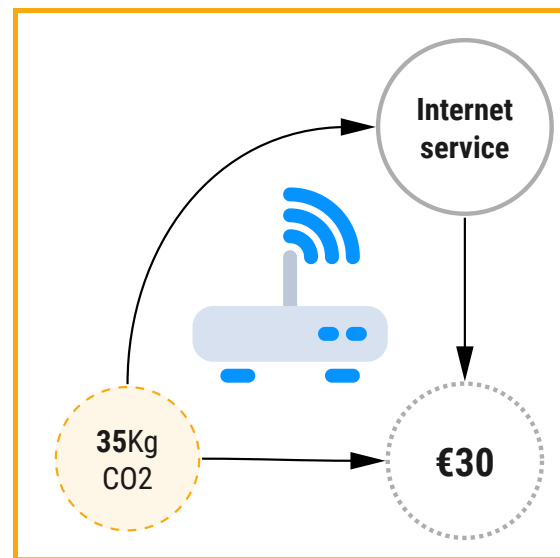
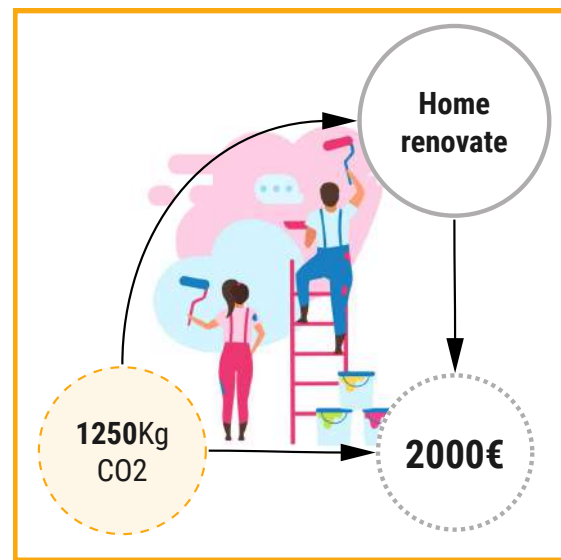
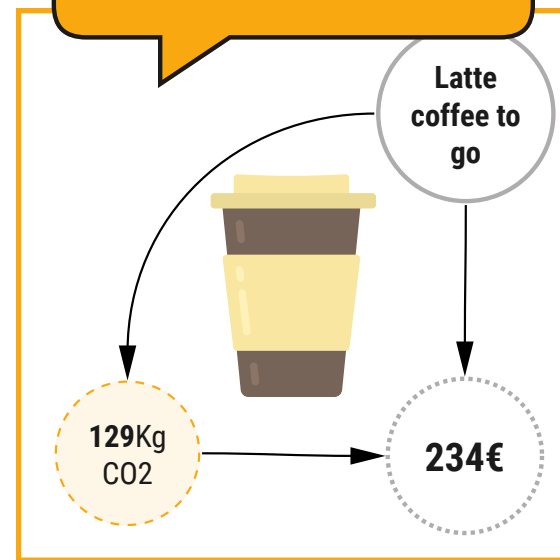
**Goods & services costs & emissions**

EARTH

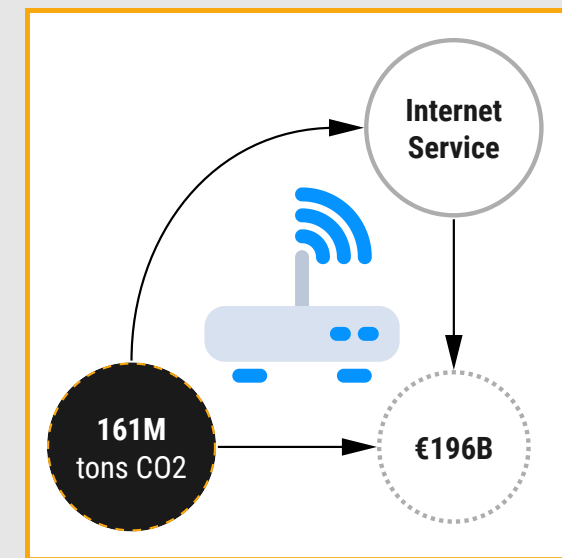
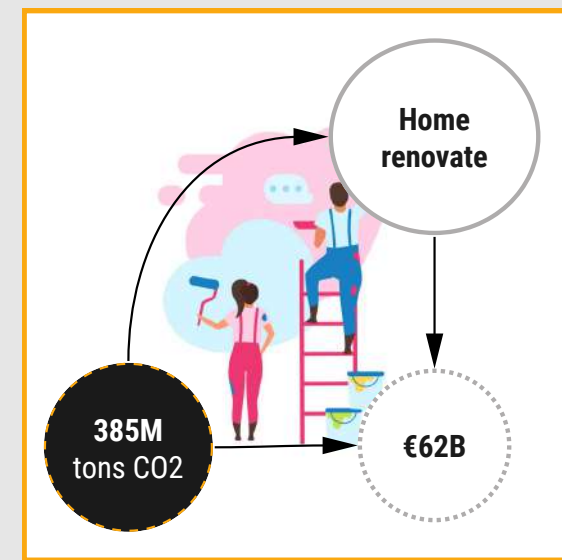
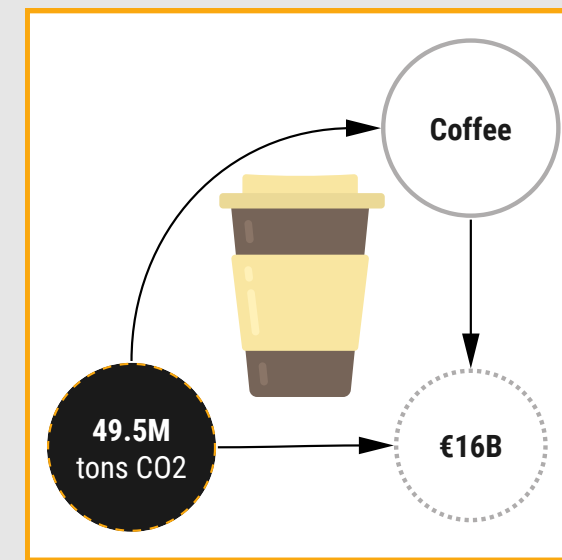
We generate **445 Million** Tons CO2 from goods & services

EACH MONTH

We may need to cut down on the coffee...



**€2,821 / mth**  
family total spend on goods & services



**> €286B / mth**  
spent on these goods & services

# MARIA

VS

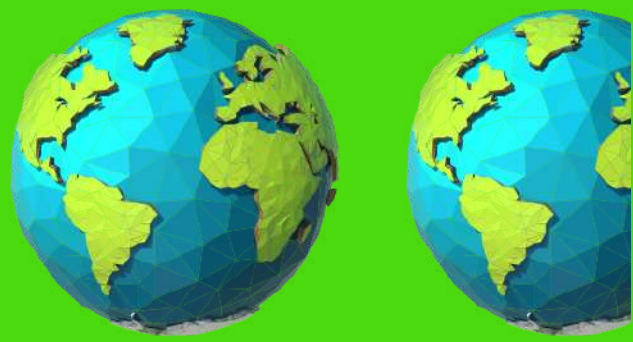
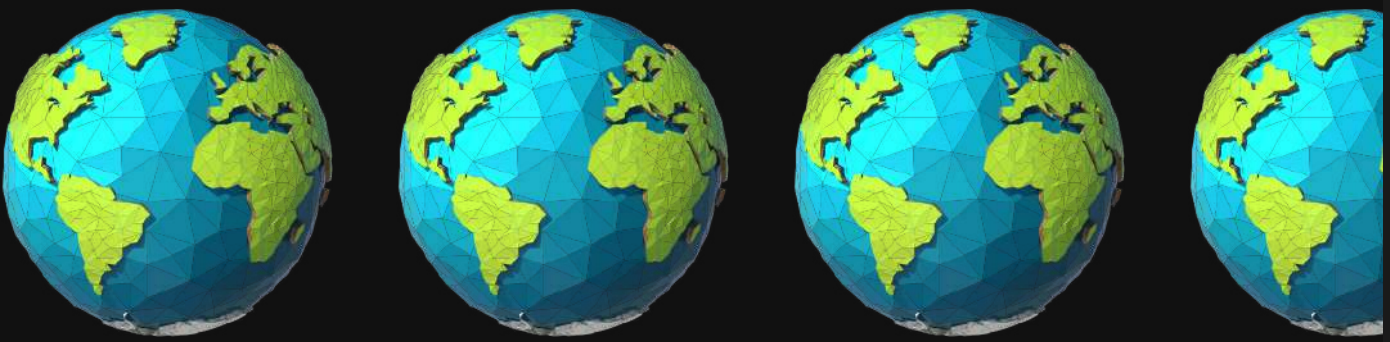
# PLANET

If we assume that all Earth's resources were shared equally between every person on the planet

If we assume that all Earth's resources were shared equally between every person on the planet

Maria's consumption ran out on **April 10th 2022**

Planet Earth ran out on **July 29 in 2021**



[Click here to try this yourself](#)

Maria's consumption requires: **3.6 Earths**

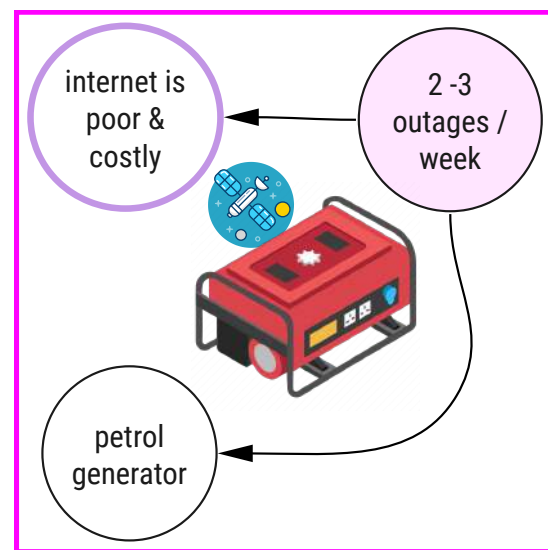
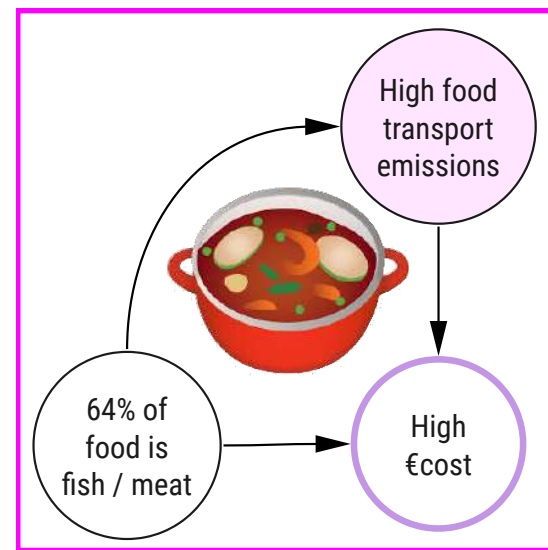
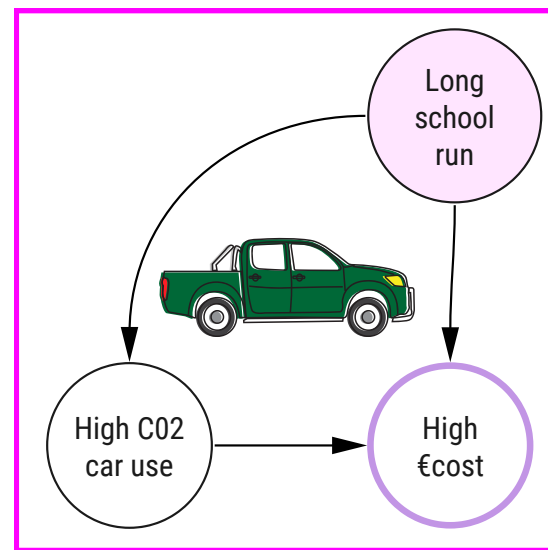
The world as a whole requires: **1.7 Earths**



# MARIA'S FAMILY

What are the energy problems?

# PLANET

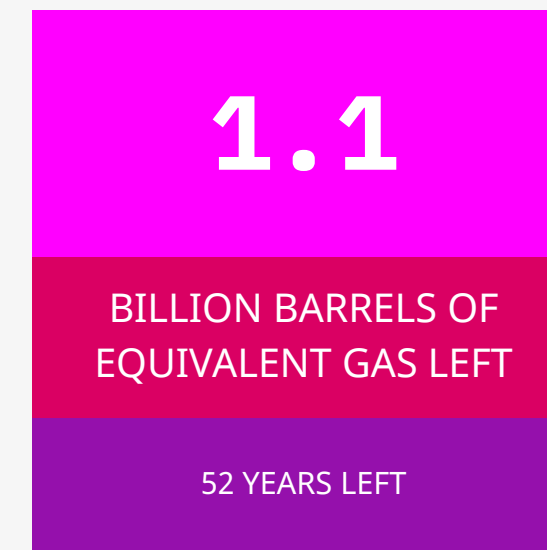


It's not easy to go green when you don't have the money

Dependence on finite resources



The US military emits more than the whole of Sweden. Its emissions account for 1.2 Billion tons - the same as the annual use of 257 million passenger cars

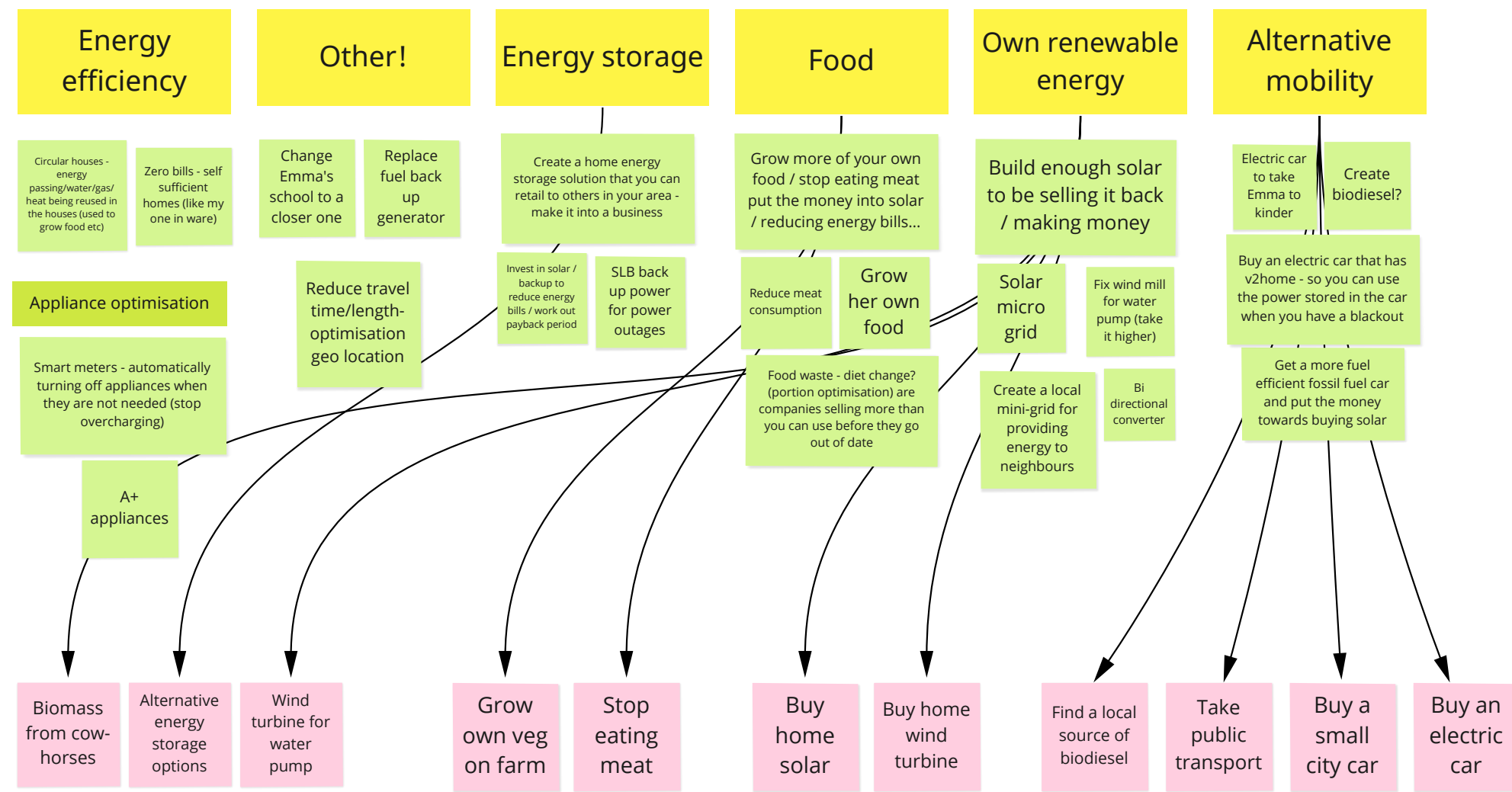


Use of finite resources

# MARIA'S FAMILY

How might we solve them?

# PLANET



Stop using finite resources

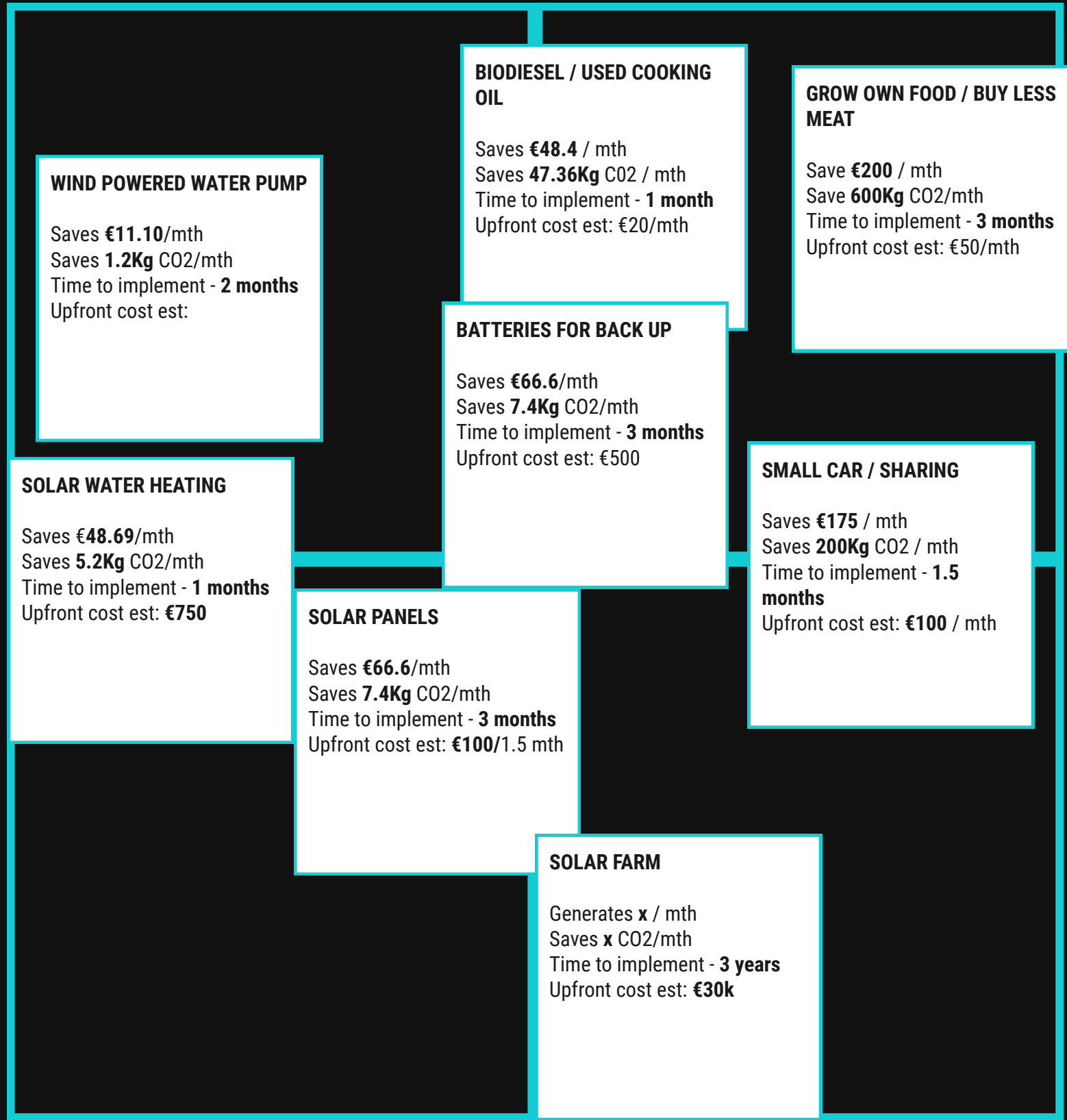
Transition to net zero solutions

Develop solutions to reverse human impact

Take personal responsibility for the planet

# MARIA'S FAMILY

low cost



low impact

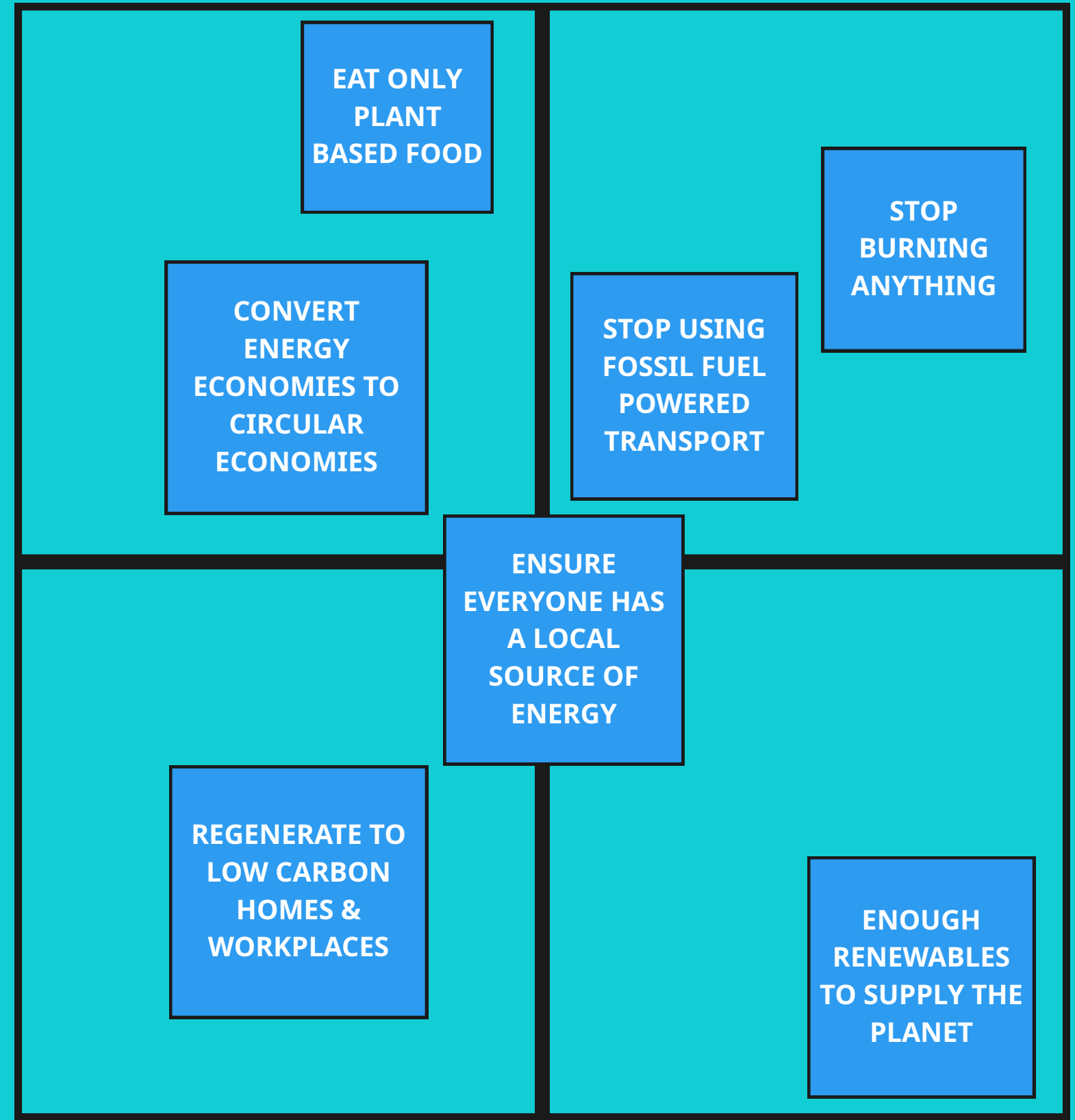
high impact

high cost

Let's rank the solutions

# PLANET

low cost



low impact

high impact

high cost

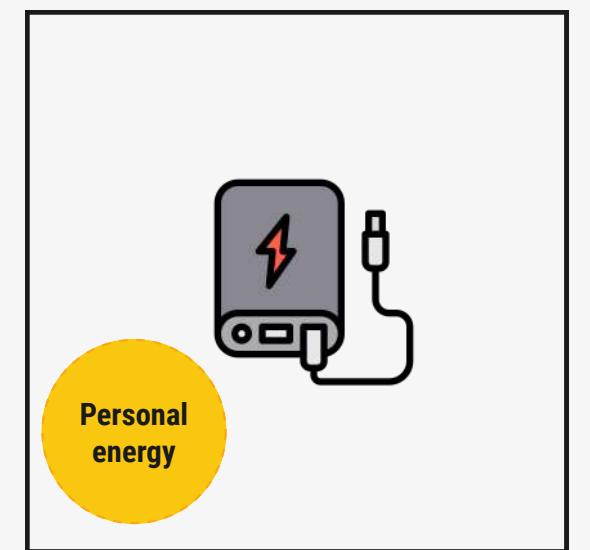
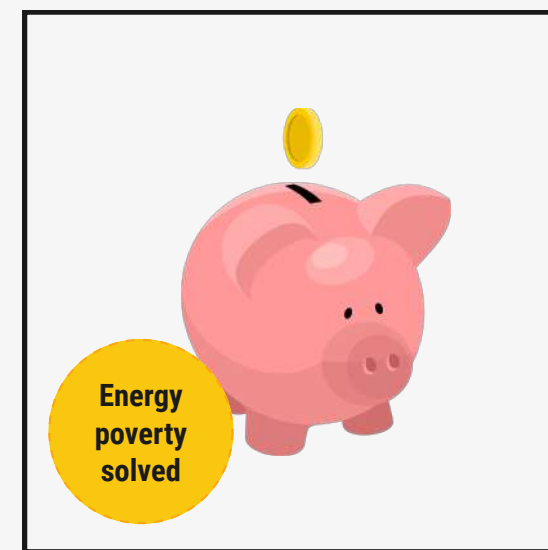
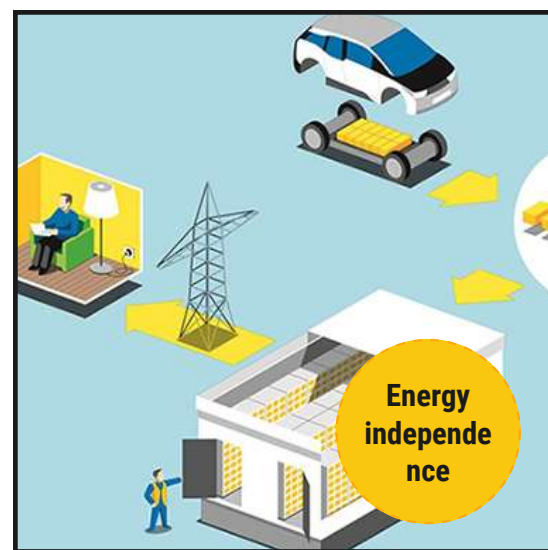
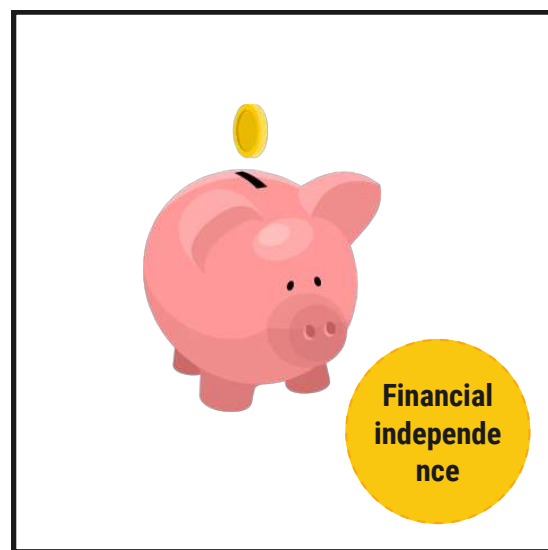
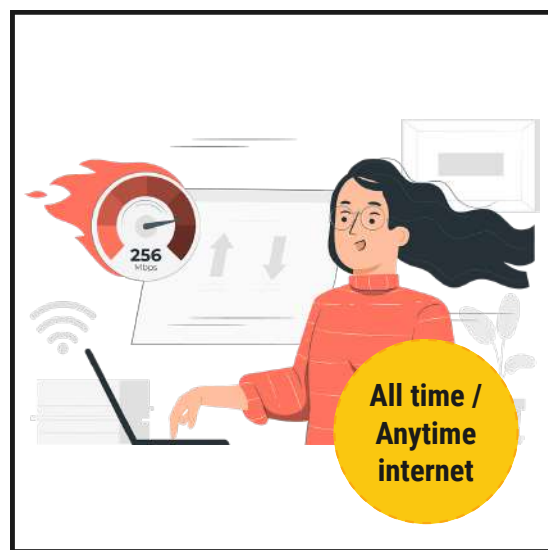
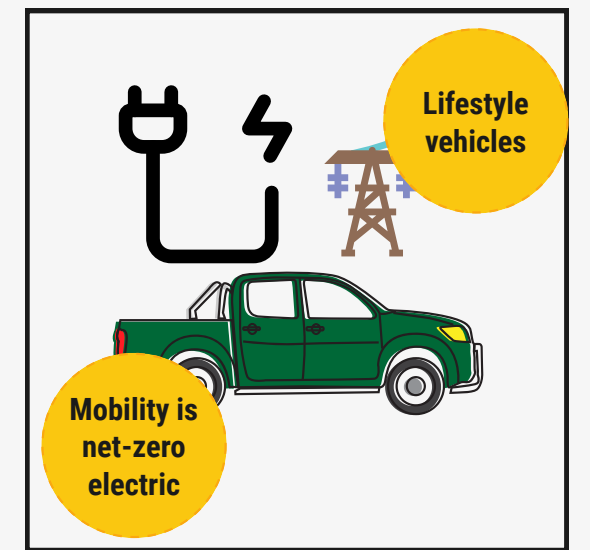
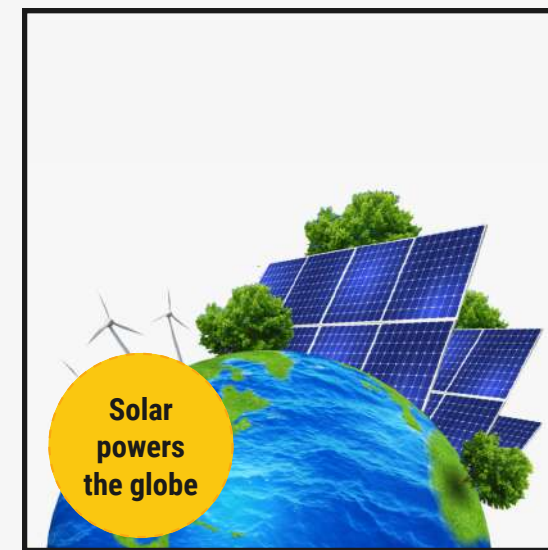
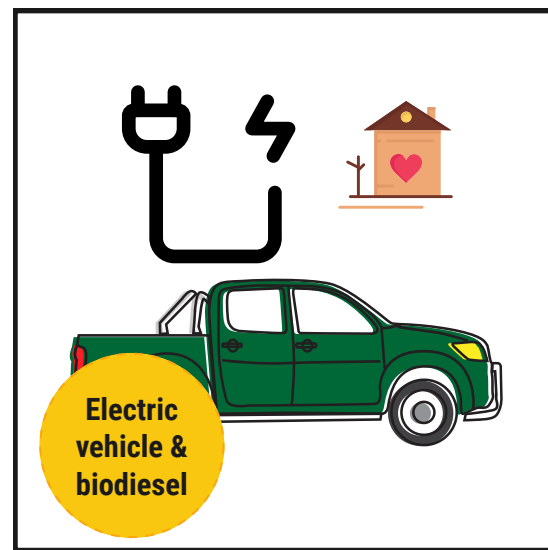
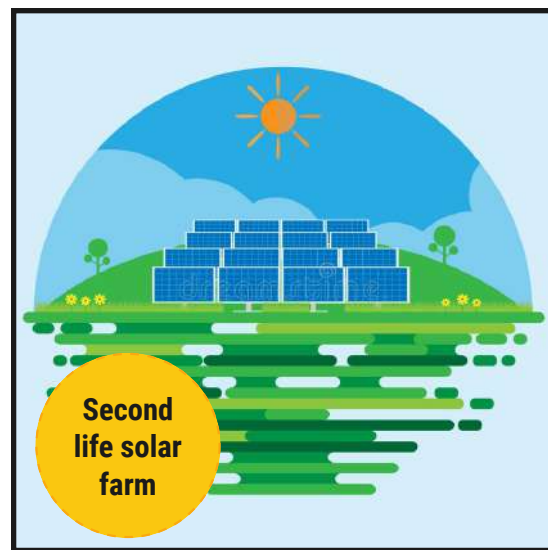
FAMILY

2028

Vision of the future

2050

EARTH





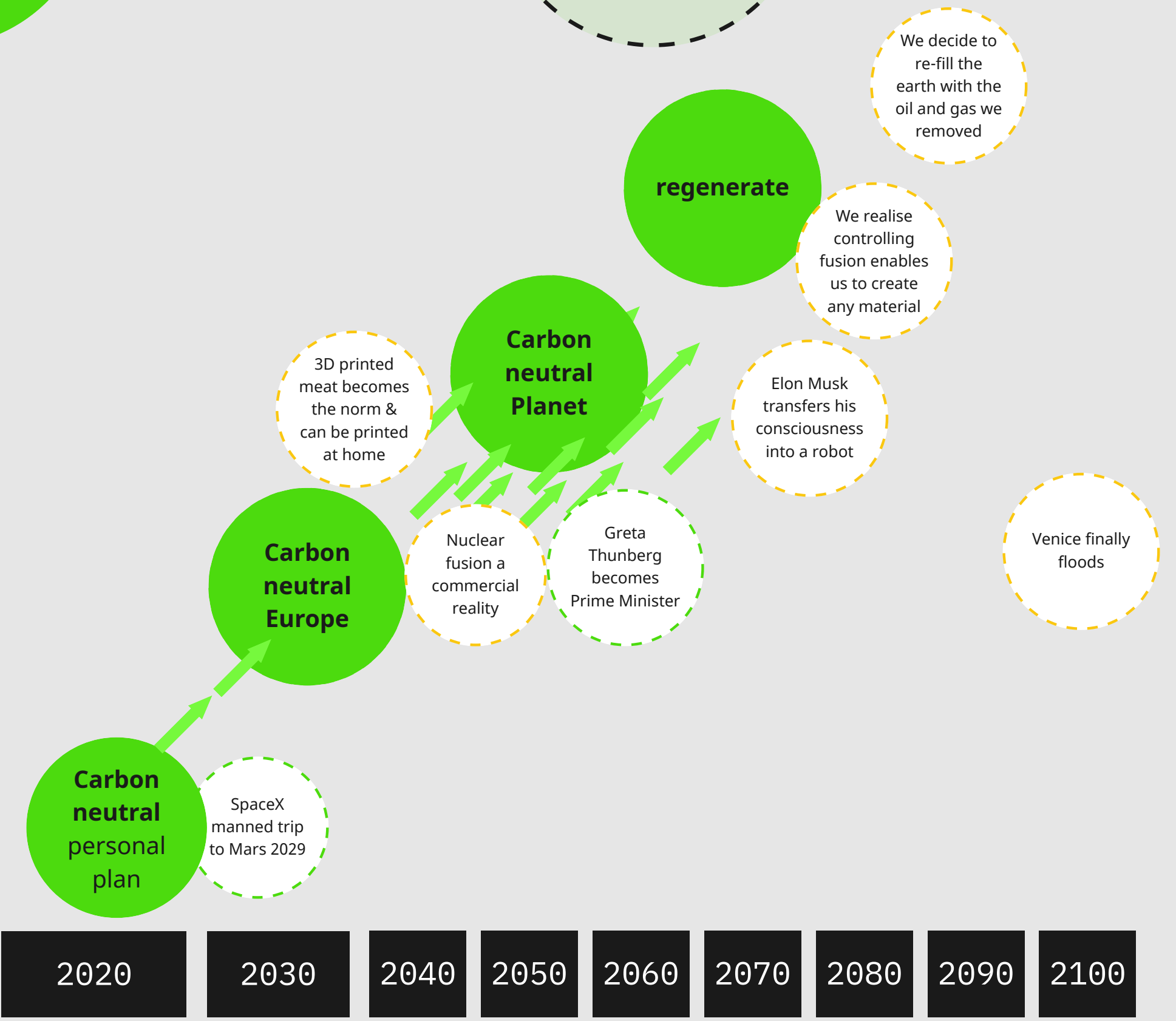
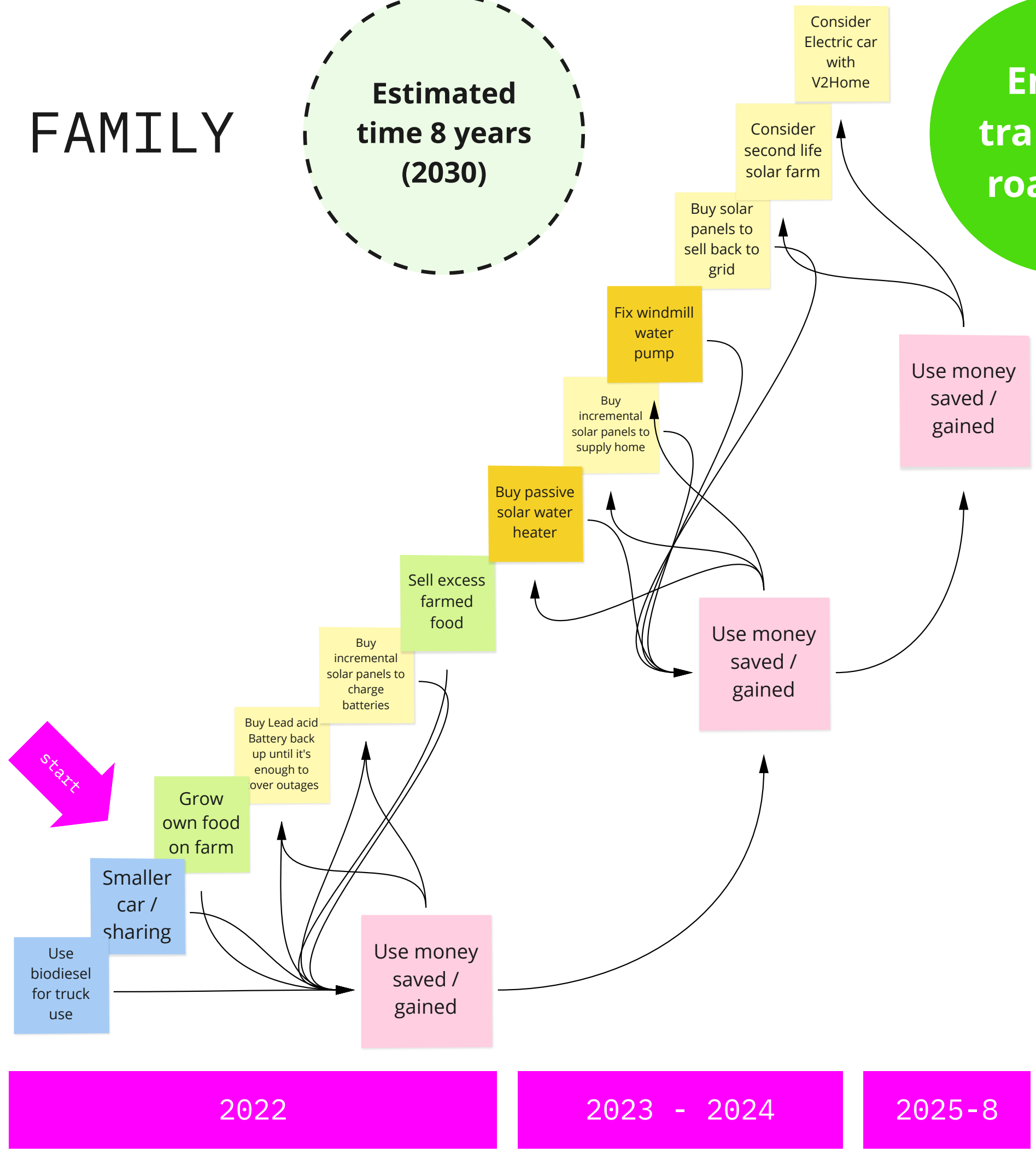
# FAMILY

Estimated time 8 years (2030)

# Energy transition roadmap

Estimated time 30-40 years (2050+)

# EARTH





# THANK YOU!

THE END?

# TRY IT YOURSELF

Made with love by:

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Rich Garner - [rich@baked.ee](mailto:rich@baked.ee)



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## REFERENCES & CALCULATIONS

Baked



	€Cost / mth	CO2 kg / mth
Energy	€214.70	25
Food	€300.48	360
Monthly	€500.00	384
Goods	€2,281	1428
Services	€340.48	66
<b>TOTAL</b>	<b>€3,436.66</b>	<b>1939</b>

[Or click this link for the spreadsheet](#)