



EMPOWERING ZERO EMISSION CITIZENS



AURORA

AURORA APP WEBINAR
2nd October 2025

Víctor Rodríguez



AURORA app Recommendations

Why do we need them?

WHAT IS A CARBON FOOTPRINT CALCULATOR?

A carbon footprint calculator is a tool that estimates the amount of greenhouse gas emissions generated by an individual usually measured in CO₂ equivalents.

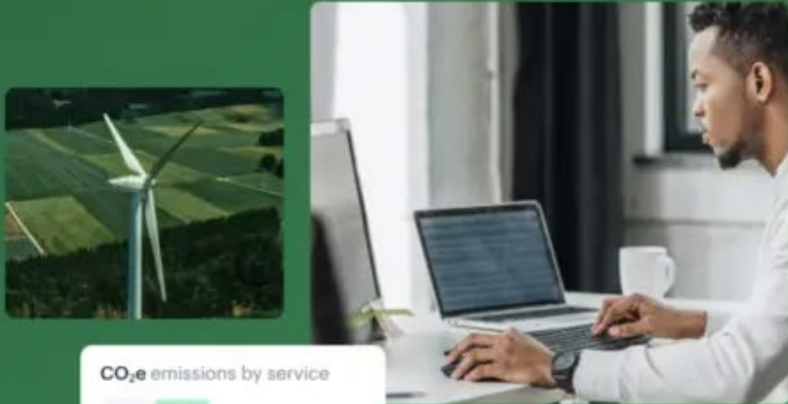
WHAT IS A CARBON FOOTPRINT CALCULATOR?

TravelPerk Solutions Pricing Resources Customers Careers English Sign in Sign up free

The ultimate API to reach your emission reduction targets

Drive down emissions through data. Reach net-zero. Set travel emission targets. Work with carbon compensation solutions.

Get in touch



CO₂e emissions by service

Trips	21
Total CO ₂ e emissions	693 t.

REWARDS

SEED BALANCE: **1100** (\$11.00 value)

REDEEM REWARDS

SPEND SUSTAINABLY. SAVE CARBON. EARN REWARDS.

Earn rewards on thousands of eligible, climate-friendly purchases, from thrift stores to public transit. It's free!

HOW IT WORKS: Connect your card to start tracking

NA JOHNSON
Los Angeles, CA
A devoted mother looking to raise her son in a more sustainable world.

ACHIEVEMENTS: 11, 2,345 KG CO₂e OFFSET, 550 LIFETIME SEEDS

ACHIEVEMENTS: SEASONED THRIFTER, PUBLIC TRANSIT COMMUTER, PLANT-BASED FOODIE, GREEN PLANTHROPIST, CLIMATE NEUTRAL SHOPPER, RENEWABLE HOME DWELLER

klima

Fight climate change.

You're offsetting **120%** of your footprint.

Calculate your personal carbon footprint.

Find out what your carbon footprint looks like and easily understand the effects of your lifestyle.

20.6 tons CO₂e

Shrink your footprint step by step.

Klima teaches you how to reduce your emissions by focussing on the lifestyle choices that really matter.

23.98 tons CO₂e

Offset the emissions you can't avoid.

Fund science-based climate solutions that remove or prevent carbon emissions on your behalf.

Planting Biodiverse Forests

Panama

Home Research Tools Programs Outreach Membership

CoolClimate Network

Get Started Travel Home Food Shopping Take Action

START WITH A QUICK CARBON FOOTPRINT ESTIMATE

- Where do you live?
Please enter city or zipcode
- How many people live in your household?
2.5 (avg.) 1 2 3 4 5+
- What is your gross annual household income?

Your footprint: **50** tons CO₂e/year (0% Same as Average)

Household tons CO₂e/year

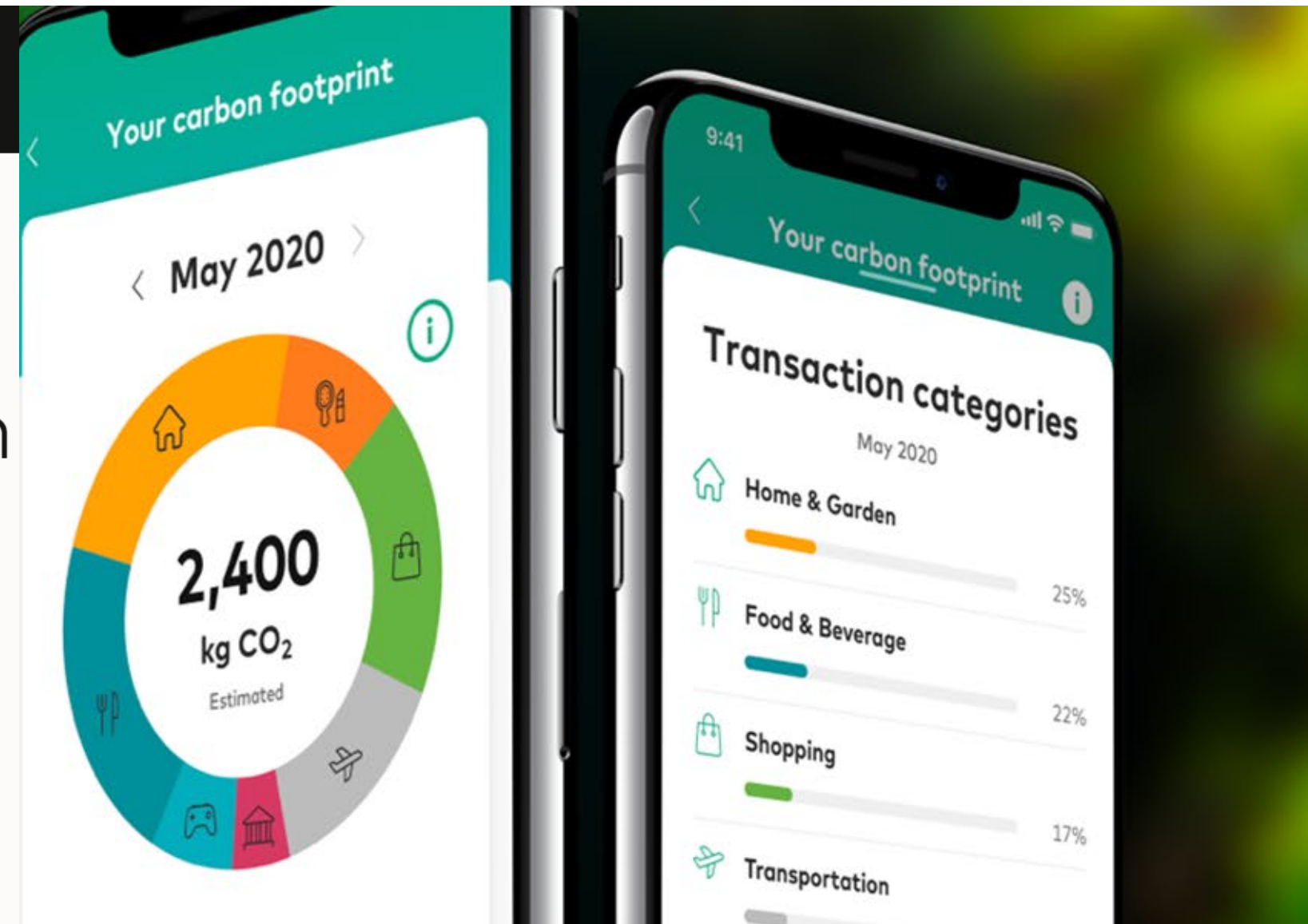
Air Travel	Construction
Car MFG	Water
Car Fuel	Other
	Natural Gas
	Other
	Other

OTHER CALCULATORS

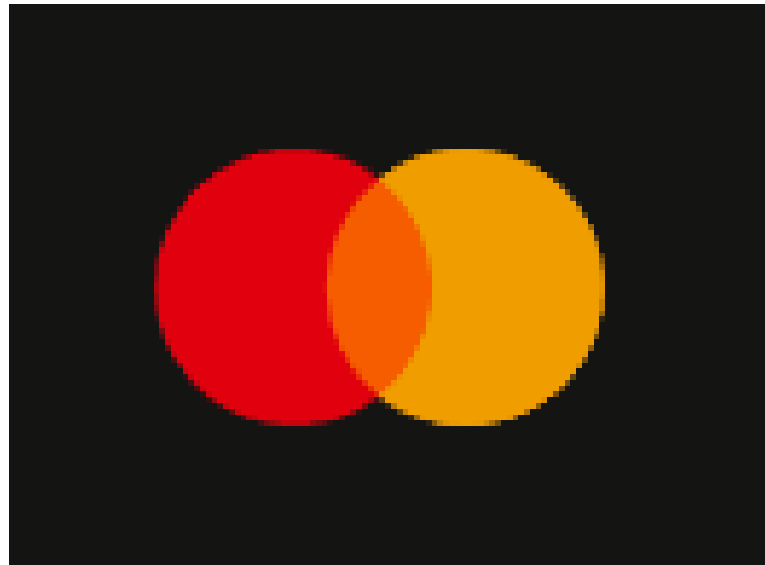
PRESS RELEASE

Mastercard unveils new Carbon Calculator tool for banks globally, as consumer passion for the environment grows

APRIL 12, 2021 | PURCHASE, NY

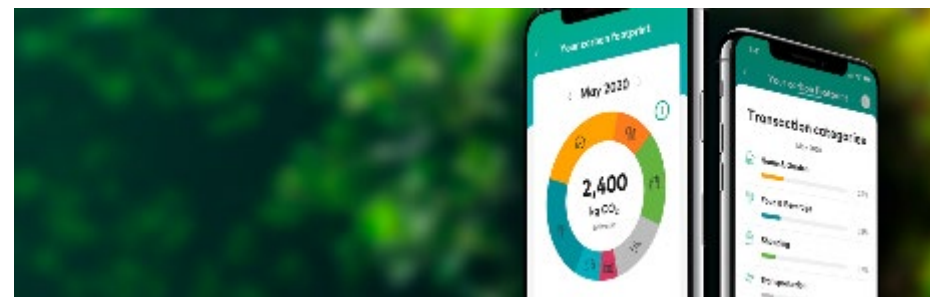


UNLIKE OTHER CALCULATORS...



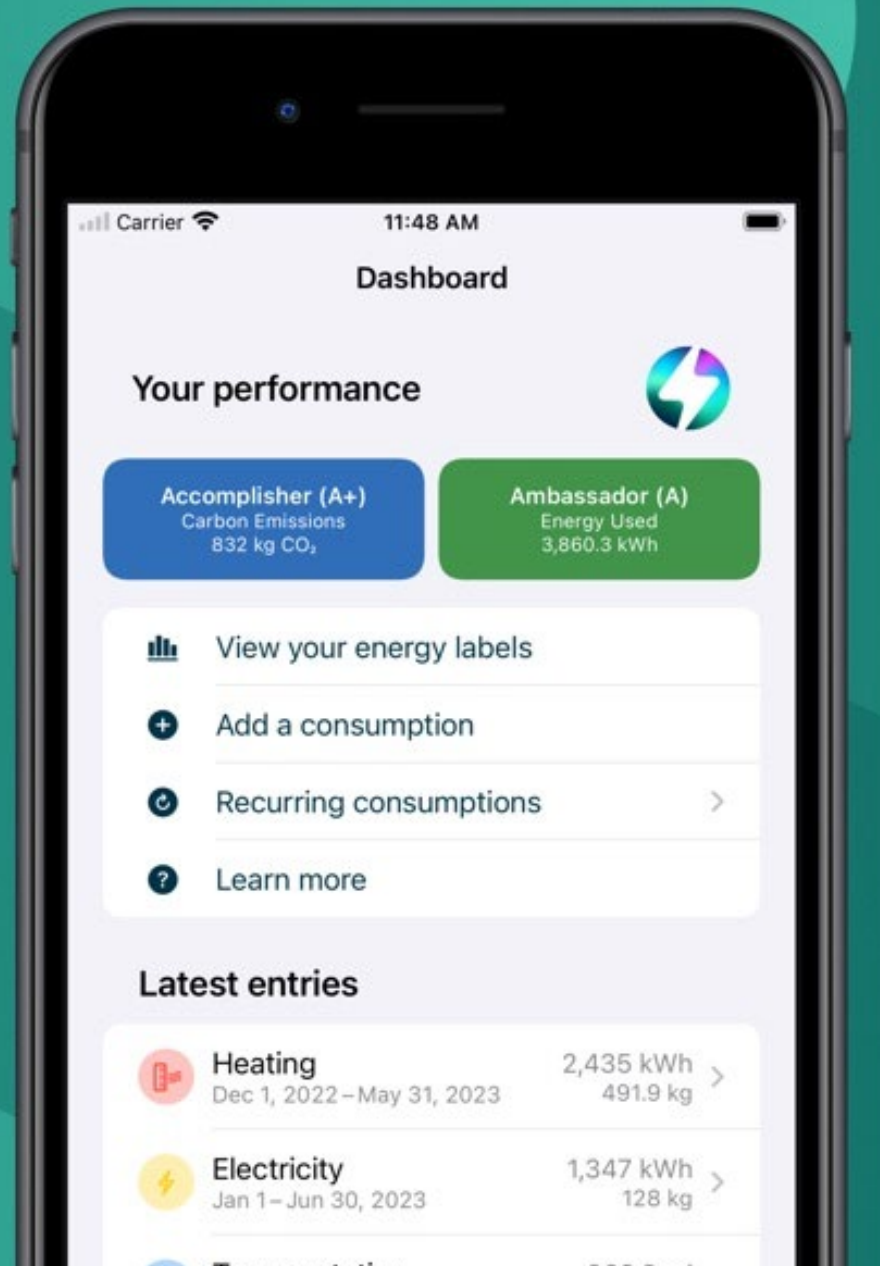
AURORA advantages

- . No personal-data intrusive
- . Transparent (formulae and data are public!)
- . Easier, visual label
- . You get additional info, not only opportunity to pay compensations (offset)



APP OVERVIEW

Track your energy behaviour



Year 2023

Carbon Emissions Energy Used



Overall 2023

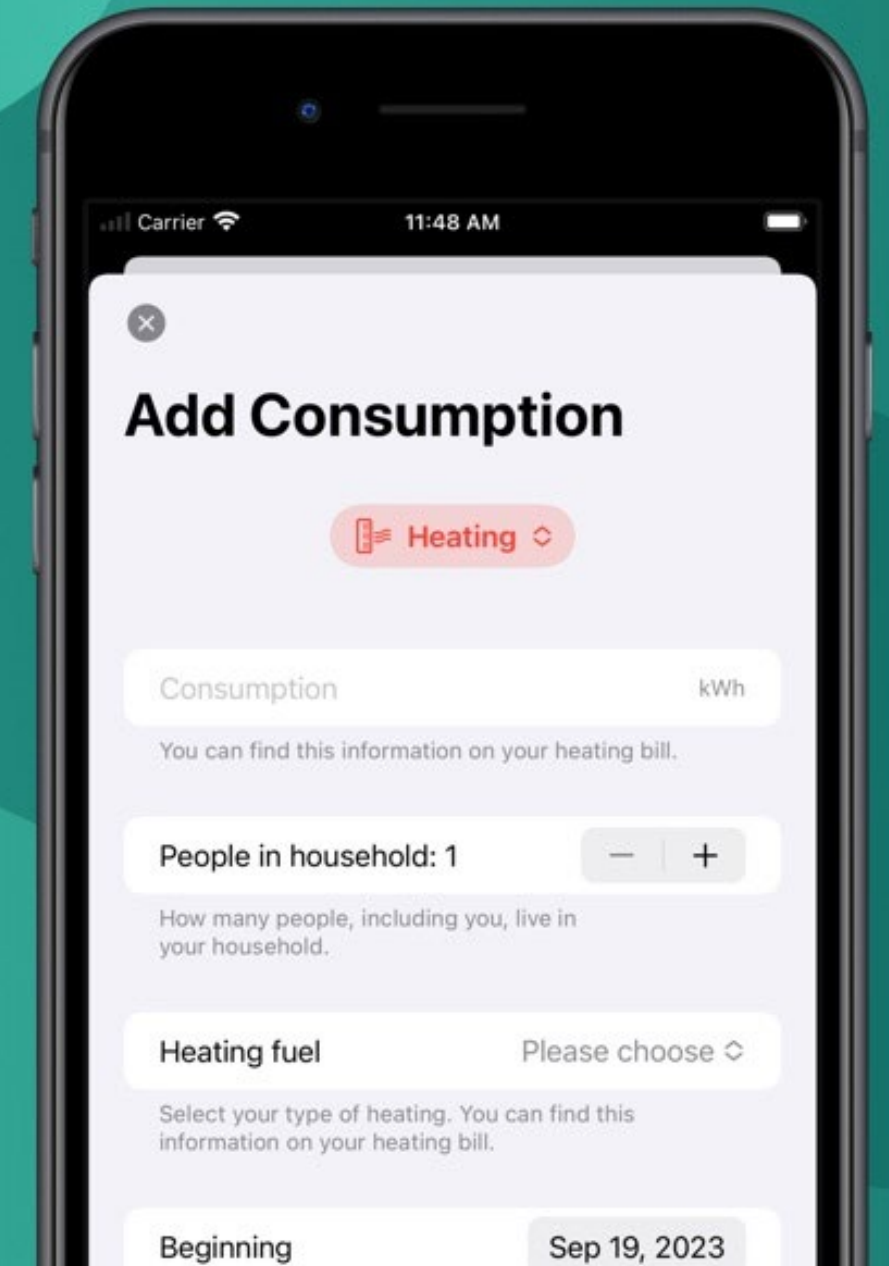
2023 Accomplisher (A+) 832 kg CO₂ produced

Electricity 128 kg CO₂ in 2023

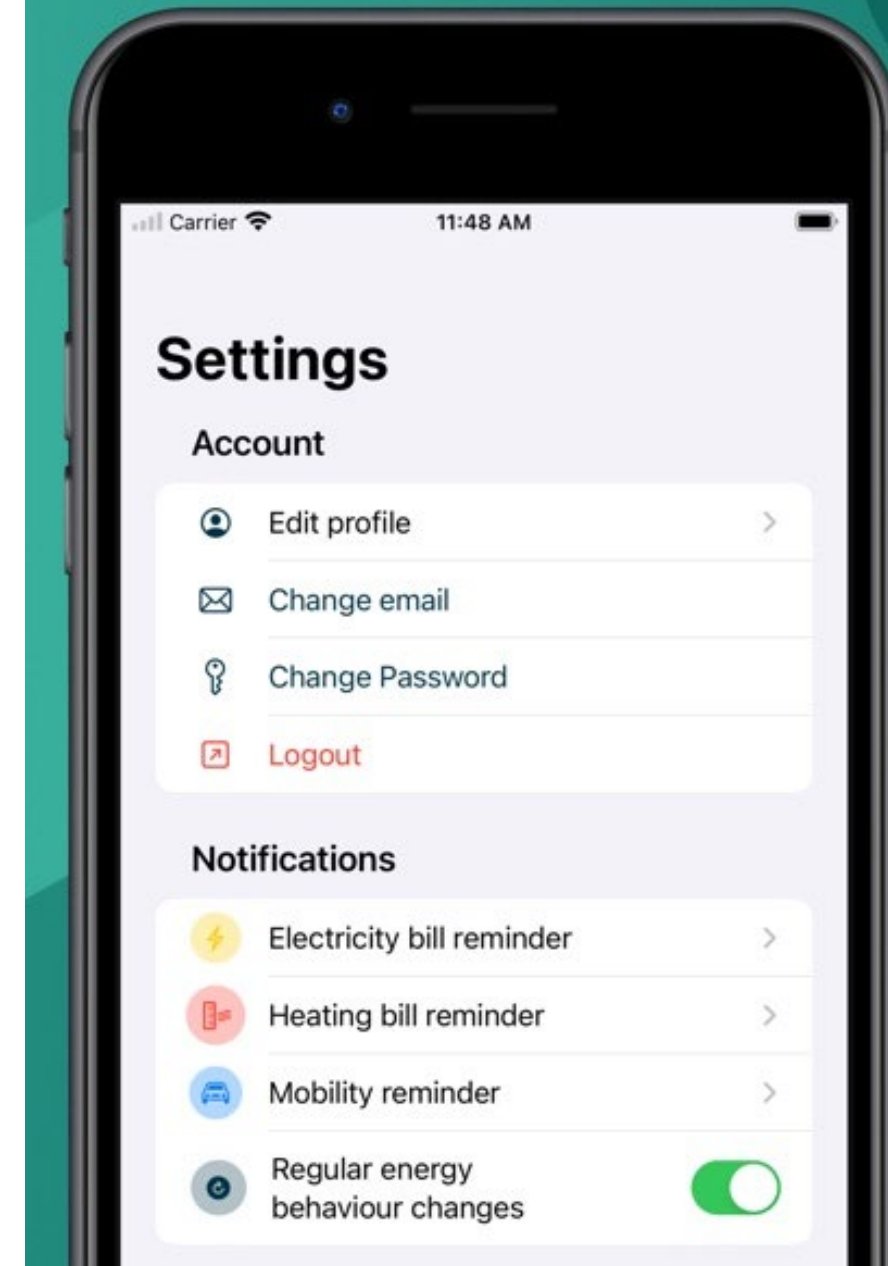
Ambassador (A)

Improve your labels by saving energy

Add electricity, heating, and transportation consumptions



Schedule reminders and control your data



CONSUMPTIONS

Electricity consumptions
Heating consumptions
Transport consumptions

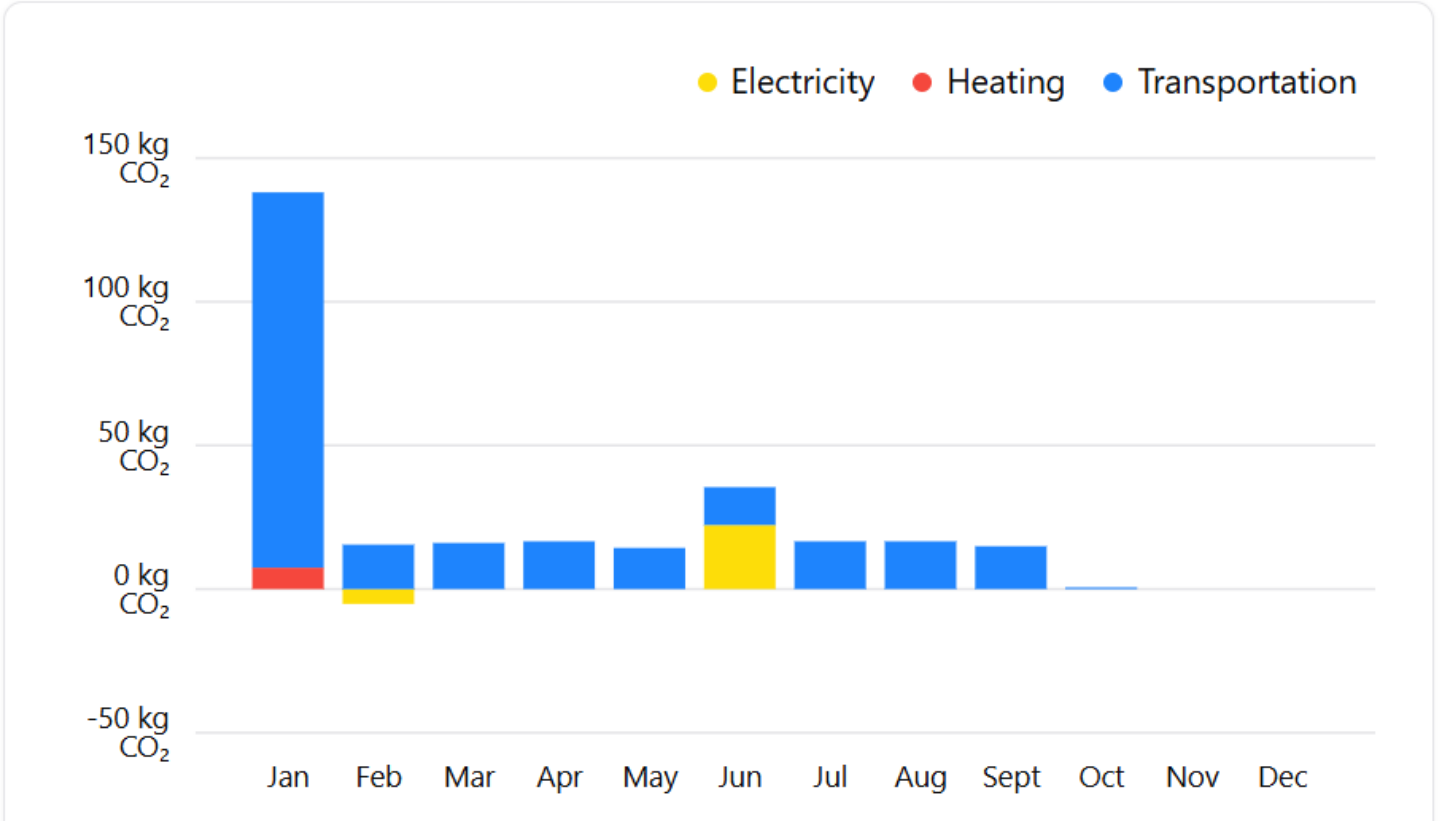
DASHBOARD

- Account
- Investment
- Recommendations
- Settings

ⓘ You do not have a unit system set and are currently using the metric system. Keep using metric Sw

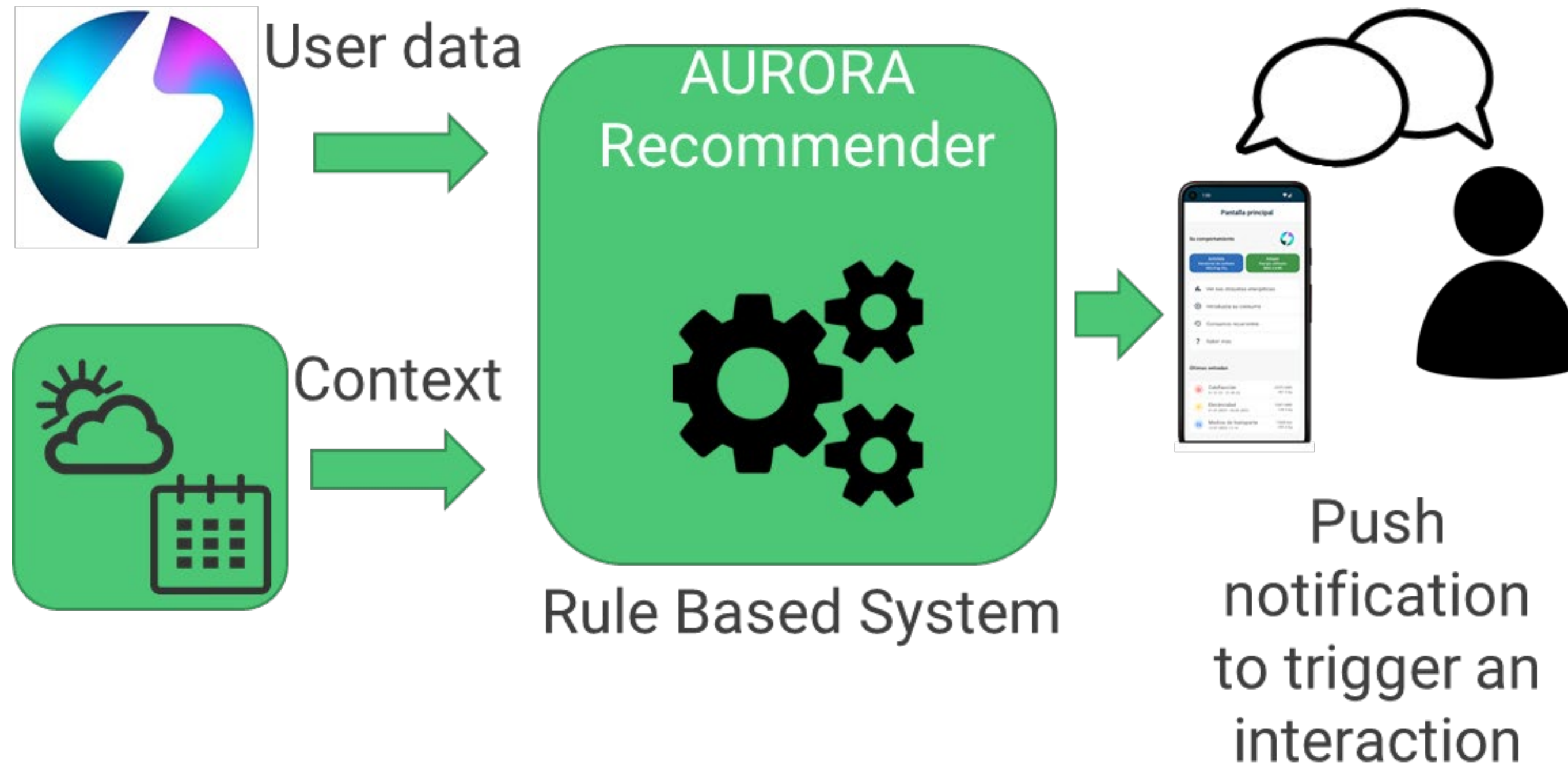
CO₂ Emissions Energy usage 2025 ⓘ

Consumptions Recurring Consumptions



- ↑↓ Order
- Transportation**
2 October 2025 at 00:05
 - Transportation**
1 October 2025 at 00:05
 - Transportation**
29 September 2025 at 00:05
 - Transportation**
28 September 2025 at 00:05

HOW DOES IT WORK?



EXAMPLES OF RECOMMENDATIONS?

Recommendation system

Recommendations to improve individual label:

- Alternative heating sources (less pollutant)
- Alternative transport suggestion (if user takes short distances on combustion vehicles)
- Carbon emission reductions if PV is installed (e.g. 1kWp produces x energy, offsetting y CO₂)
- House efficiency suggestions (did you know... and others)

RECOMMENDATIONS IN THE DASHBOARD



[Dashboard](#) [About](#) [Account](#) [Solar Power](#)

[Account](#)

[Investment](#)

[Recommendations](#)

[Settings](#)

Recommendations

To help you improve your energy behaviour, AURORA provides you with personalised recommendations based on your energy usage data. Recommendations are updated regularly as you enter more data.

Felicidades

Has proporcionado información sobre tus viajes, tu calefacción y tu consumo de electricidad. ¡Estás marcando la diferencia! Rastrear tu huella de carbono es un...

30/09/2025



[View](#)

Bienvenido

Bienvenido a AURORA. Gracias por ser parte de la comunidad AURORA. Recibirás

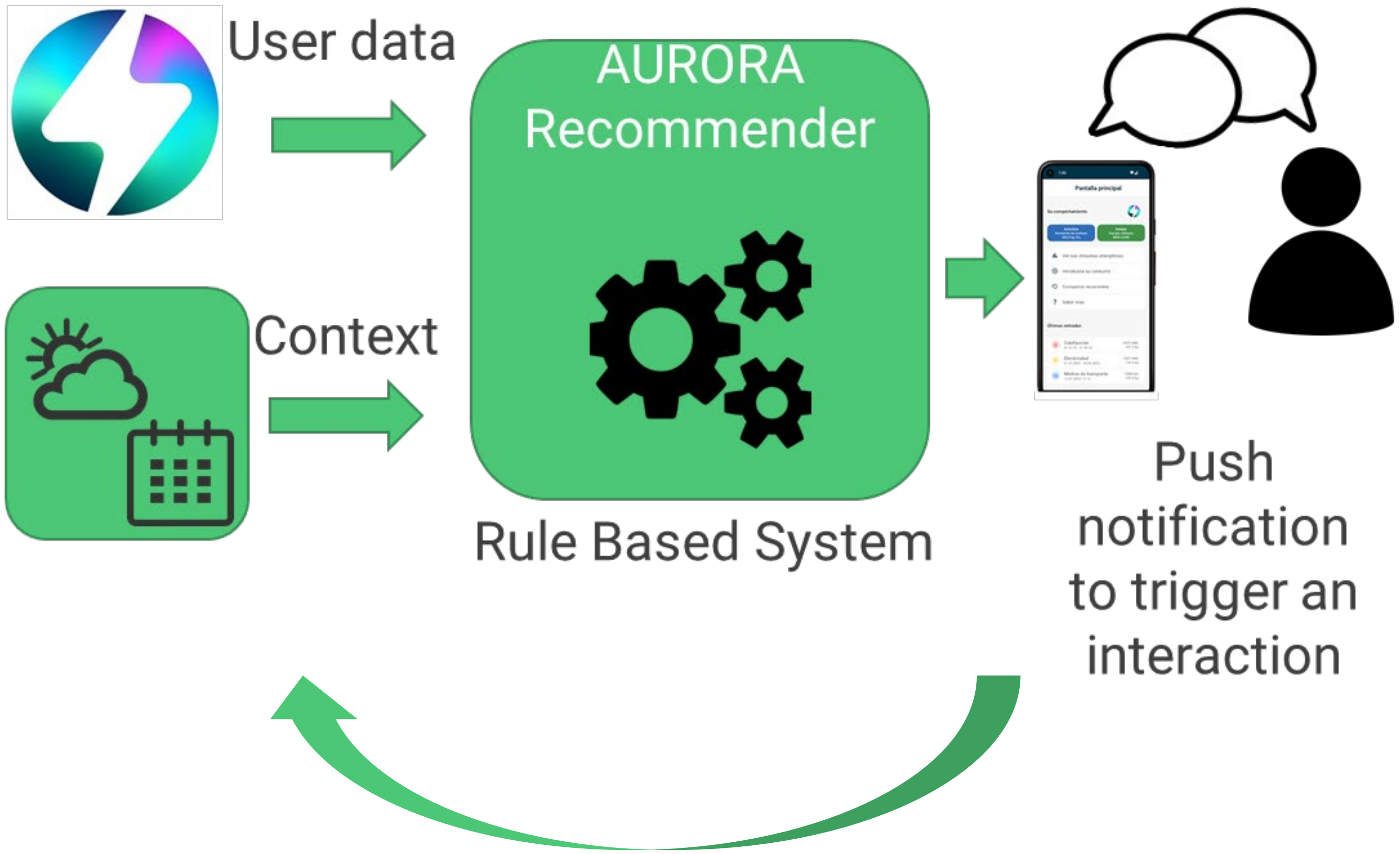


WHY DO WE NEED RECOMMENDATIONS?

Observations

- . You can sometimes save money and reduce the carbon footprint!
- . You can sometimes reduce the carbon footprint and get other benefits! -- e.g. better health, faster commuting, etc.
- . But discovering this requires information nudges.
- . AI unveils new opportunities -- feedback loops the next step

HOW DOES IT WORK?

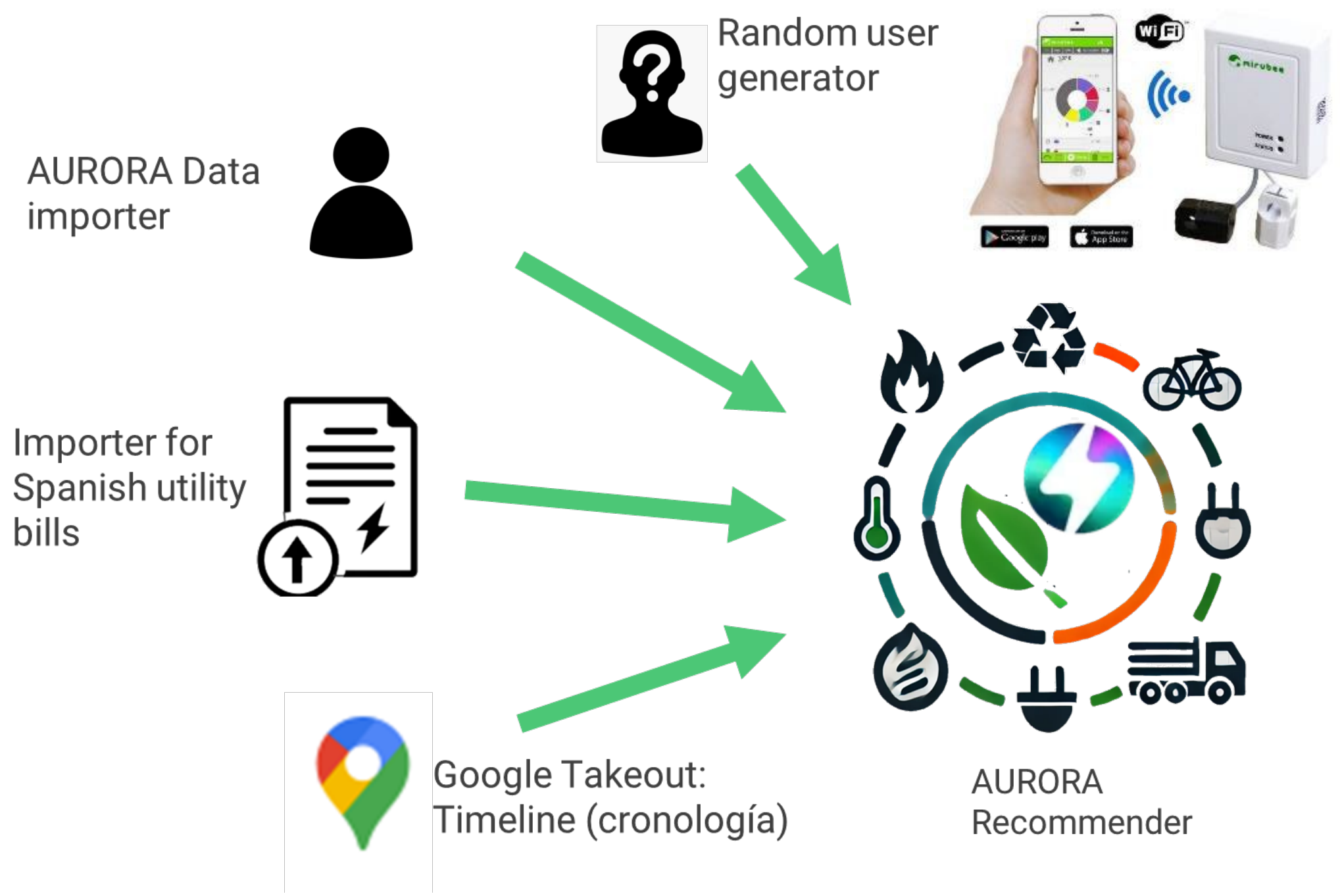


PUSH RECOMMENDATIONS IN THE APP (FORTHCOMING)

Overview

- . Users will receive **personalised notifications** on how they can improve their energy behaviour.
- . Recommendations are **based on data** entered by users.
- . Non-intrusive approach, personal-data respectful

FURTHER INTEGRATIONS?



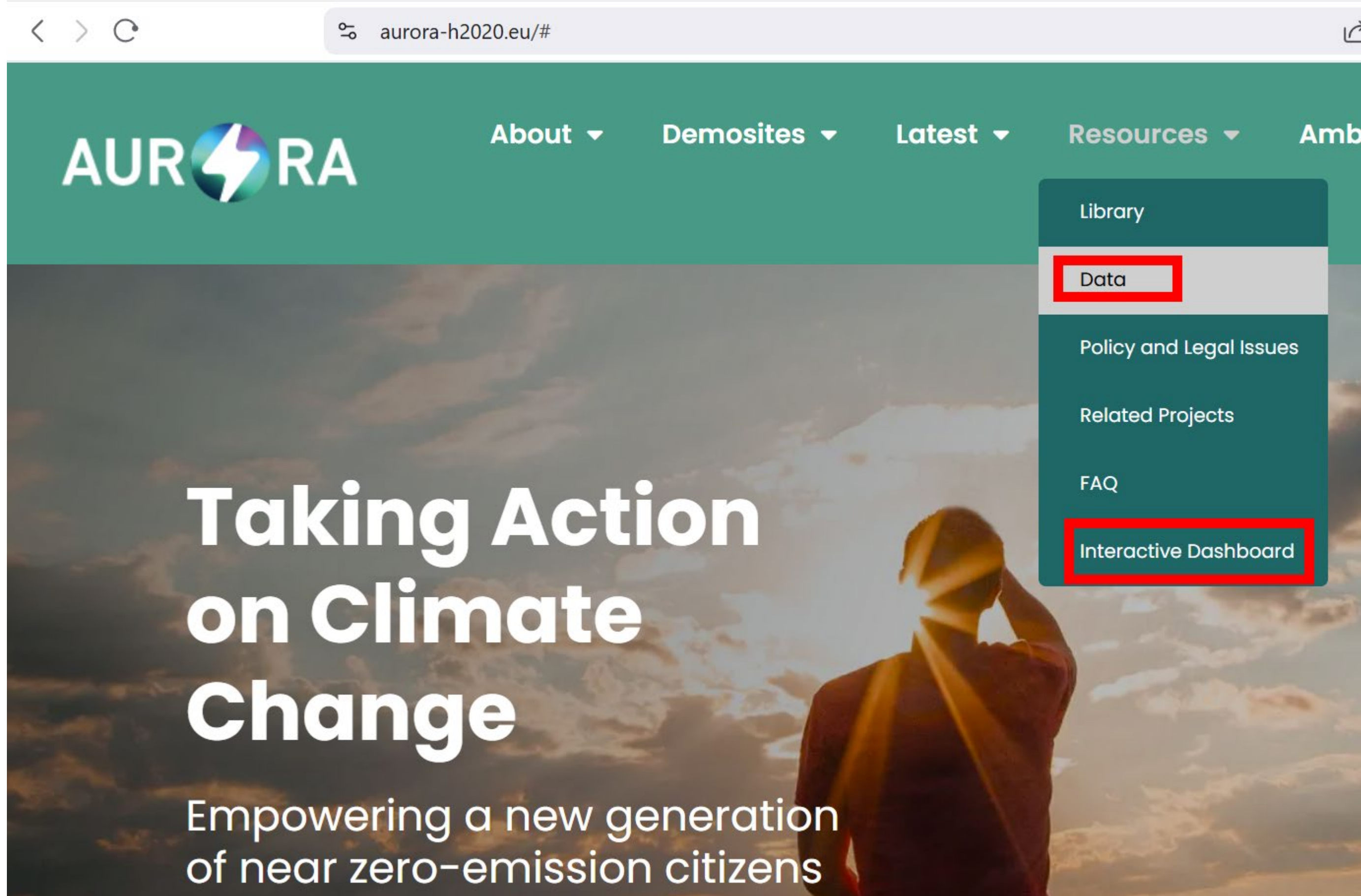
Raw data given to the geek users!

IFTTT

QUESTION 2

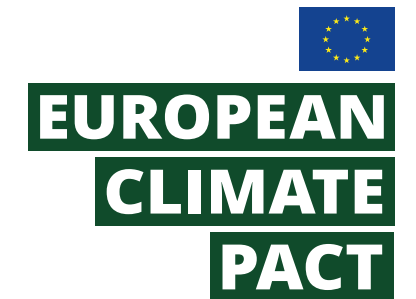
Do you want to
know more?

Do you have your own projects?



DATA IS PUBLIC!

<https://www.aurora-h2020.eu/>



Admin Victor Rodriguez Doncel Dashboard 0 Settings Log out

AURORA Datasets Organizations Groups About Search

Search data

E.g. environment

Popular tags: emissions energy ENSPRESO

The scope of this portal is (1) data produced by the AURORA project (<https://www.aurora-h2020.eu/>) (2) data consumed by AURORA and (3) other data of direct interest

AURORA statistics

28	3	19
datasets	organizations	groups

..AND CODE, PRESENTATIONS, WORKSHOPS MATERIAL....



zenodo Search records... Communities My dashboard

Planned intervention: On Monday, October 6th, 06:30 UTC, Zenodo will be unavailable for 1-2 minutes to perform an upgrade to our compute cluster.

AURORA Achieving a new European Energy Awareness.

Part of [EU Open Research Repository](#)

[Records](#) [Members](#) [Curation policy](#) [About](#)

38 results found

Versions

View all versions

Access status

Open

Restricted

Resource types

August 21, 2025 (v1) Presentation Open

Workshops materials at Evora

Cavaco, Afonso

UEvora ESP32 workshop presentations and additional exercises. Report on Energy training sessions, UÉvora thermophotography workshop presentation contents. Presentation in Conferência "Inovação

Part of [EU Open Research Repository](#) , [Achieving a new European Energy Awareness](#)

28

Uploaded on August 21, 2025

10

August 21, 2025 (v1) Dataset Open

Energy consumption of some Evora buildings

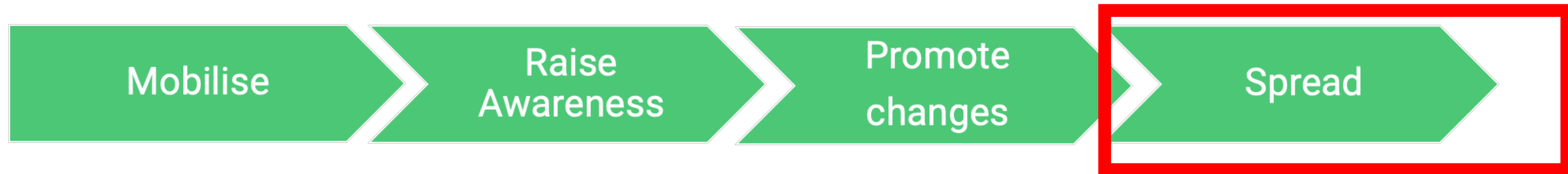
RESOURCES IN THE AURORA WEB

<https://www.aurora-h2020.eu/>

	A	B	C	D	E	F	G	H	I	J	K	L
19		Heating oil (L)	Biomass (kg)	Wood burning stoves (kg)	Butane (kg)	LPG (L)	period tracked (number of days)	thermal consumption (kWh)	Thermal consumption per capita (kWh/capita)	Emissions associated to thermal consumption (kg CO2/capita)		
20								#N/A	#N/A	#N/A		
21								#N/A	#N/A	#N/A		
22								#N/A	#N/A	#N/A		
23								#N/A	#N/A	#N/A		
24								TOTAL PER DAY	#N/A	#N/A		
25												
26		TRANSPORT DATA						car (L/100 km), fill the following cells. It is important to fill the distance travelled in the left table				
27		Date of travel	TYPE OF VEHICLE	LEVEL OF OCCUPANCY*	DISTANCE TRAVELLED (km)	ENERGY CONSUMPTION	EMISSIONS (kg CO2)	Energy consumption of you car (L/100 km)	Energy consumption (kWh)	Emissions (kg CO2)		For the plane and internatic select anythir
28												
29						#N/A	#N/A		#iDIV/0!	#iDIV/0!		
30			Walking			#N/A	#N/A		#iDIV/0!	#iDIV/0!		For the bus, if options of tra for buses will
31			Bike			#N/A	#N/A		#iDIV/0!	#iDIV/0!		
32			Fuel car			#N/A	#N/A		#iDIV/0!	#iDIV/0!		
33			Electric car			#N/A	#N/A		#iDIV/0!	#iDIV/0!		
34			Hybrid car			#N/A	#N/A		#iDIV/0!	#iDIV/0!		Not all count Denmark the
35			Motorcycle			#N/A	#N/A		#iDIV/0!	#iDIV/0!		Slovenia, bus options go fro
36			Electric motorcyc			#N/A	#N/A		#iDIV/0!	#iDIV/0!		Alternative fu (LPG) and bio
37			Electric bike			#N/A	#N/A		#iDIV/0!	#iDIV/0!		*LEVEL OF O
38						#N/A	#N/A		#iDIV/0!	#iDIV/0!		
39						#N/A	#N/A		#iDIV/0!	#iDIV/0!		

PORT DATA


TO OPERATIONALIZE AN ENERGY BEHAVIORAL CHANGE RATIONALE




LOCAL ENERGY COMMUNITIES



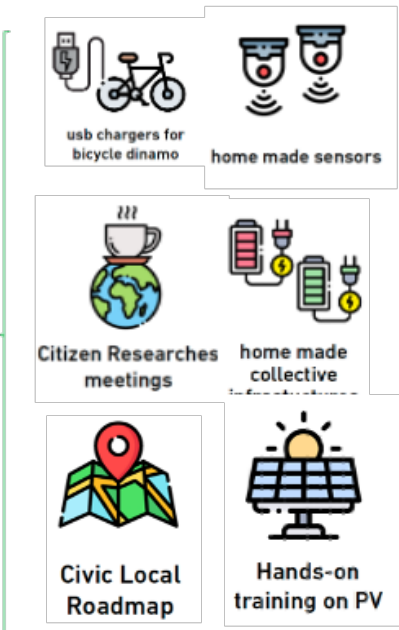
- **5 DEMOSTRATORS**
- 7000 PEOPLE**



Behaviour Monitoring – Energy demand and CO2 emissions



PV production Monitoring



- usb chargers for bicycle dinamo
- home made sensors
- Citizen Researches meetings
- home made collective
- Civic Local Roadmap
- Hands-on training on PV



ZERO EMISSION

AMBASSADORS



3500 PEOPLE NEAR ZERO

You can also become a developer! Use AURORA data and code! Become a **AURORHACKER!**



EMPOWERING ZERO EMISSION CITIZENS



AURORA

AURORA APP WEBINAR
2nd October 2025

Víctor Rodríguez

www.aurora-h2020.eu



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 101036418.

