

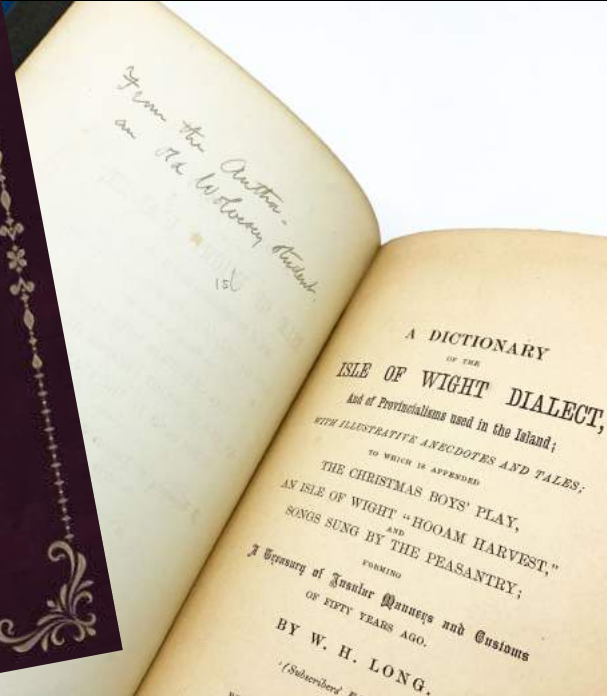
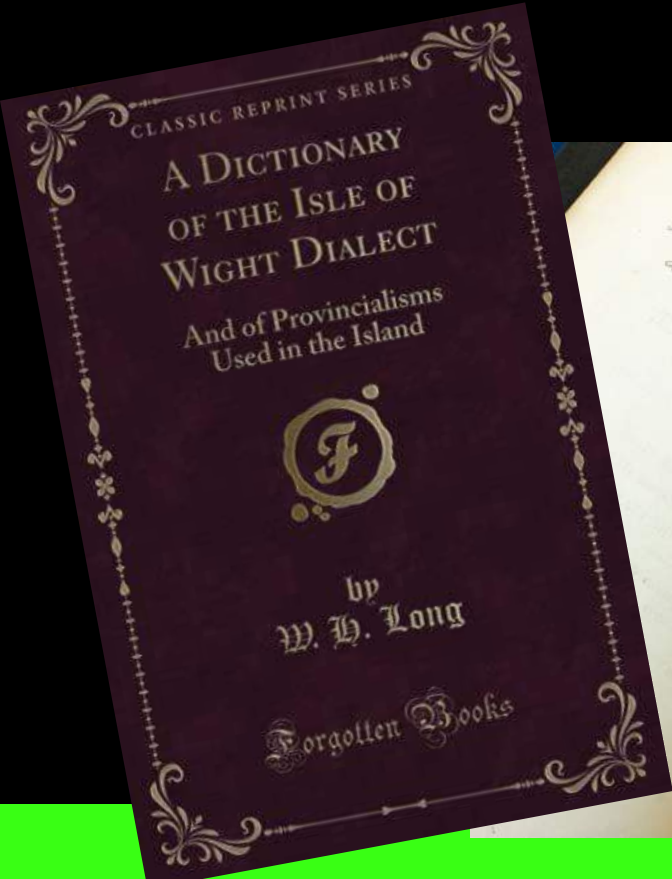
keert.

Cyclewight AGM



keert.

First, the name...



KEERT. A cart;
also, to carry
anything in a
cart or waggon;
to cart.

keert.

Where have we
come from?



Electric cargo bike feasibility study

Will Ainslie & Martin Gibson

People Powered CIC



2018



2021



MAR-MAY 2022

keert.

Why are we so
stuck on Cargo
Bikes?



Freight transport = 30% of global carbon emissions from road transport.

Light Goods Vehicles (LGVs) or vans, which are increasingly used to deliver or move goods.

43% of vans used to transport materials travel no further than 25 kms from their base

Same for 39% of vans used to deliver/collect goods

keert.

Why?

Carbon emissions as an indicator of energy use



240 g/km

Diesel van

Figures based on standard UK energy mix



49 g/km

Electric van

Zero emission = Zero Tailpipe emission



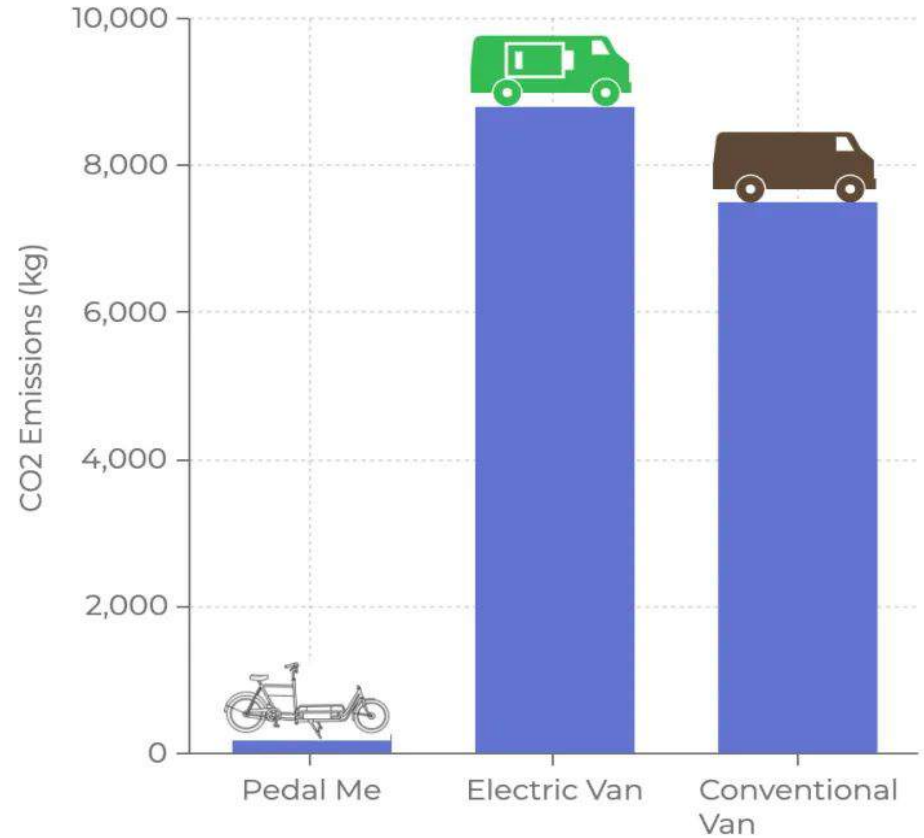
4.5 g/km

Pedal Me cargo bike

keert.

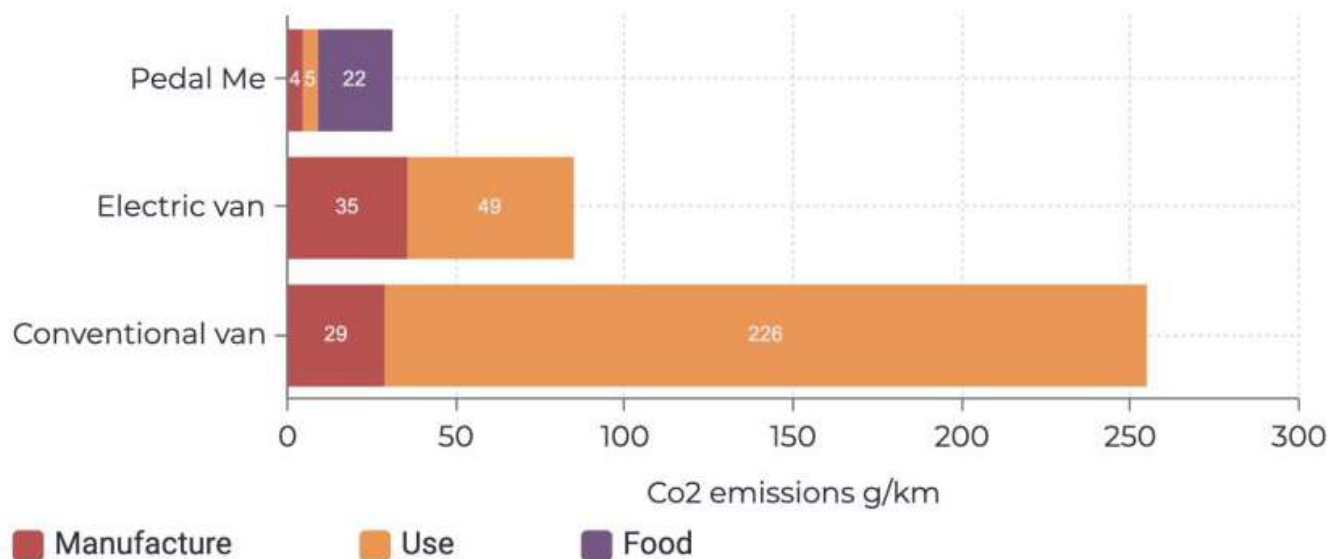
Why?

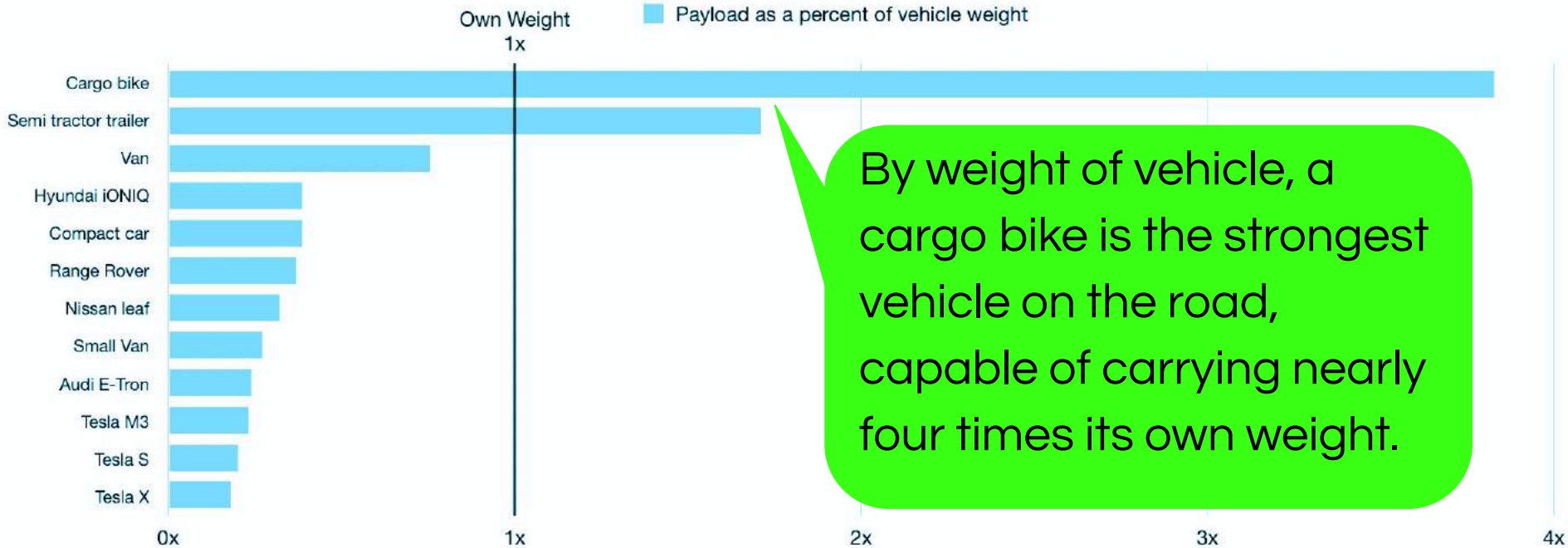
Manufacturing CO2 emissions



Why?

Life cycle CO2 emissions





keert.

Why?

← Tweet

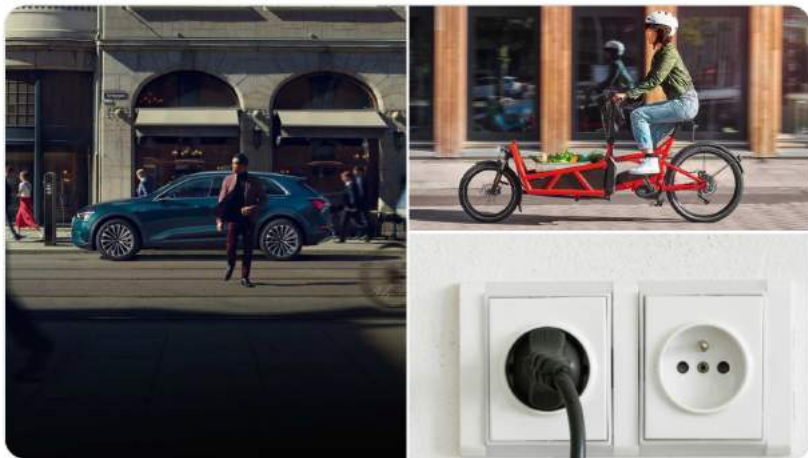


Jonathan Owen
@anotherJon

...

The 700kg (1500 lb) battery in a single Audi e-tron 55 could be split to power 200 electric bikes. For which the charging infrastructure already exists.

MT: [@jdavey_2](#)



Audi e-tron / Cargo volume

350 to 405 L
Audi e-tron GT

660 L, 1,725 L with seat area
Audi e-tron



The Cargo XL can carry up to 275kg of maximum gross vehicle weight and **280-620 litres**, and with three different box options, you can be sure this powerful product can get you and your load to your destination in record time.

keert.

Where are we
going?





Where are we going?

Keert moves things from A to B for the local Isle of Wight community.

We offer our reliable services in an innovative way to our clients leaving them feeling like they're making a real difference to the local environment as well as their business.

We also offer secure employment and a living wage making a real difference to the local community and their lives.



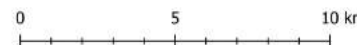
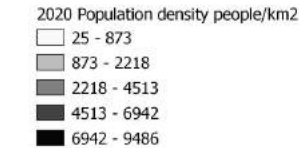
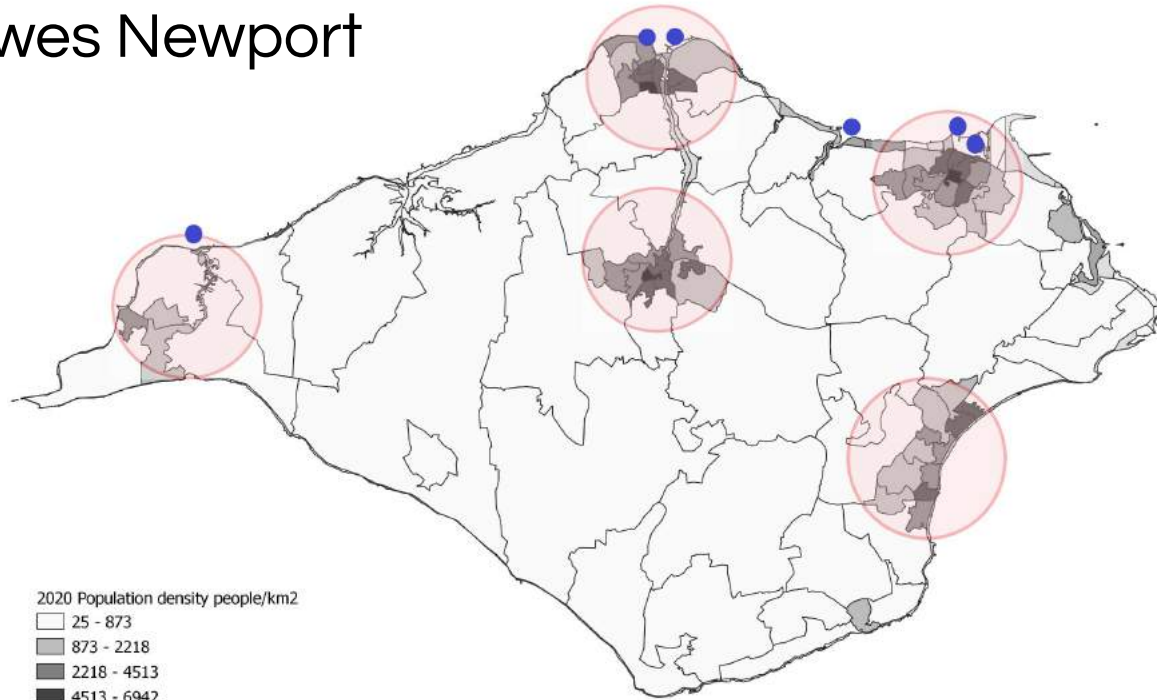
Where are we going?

Today: Cowes, East Cowes Newport

Tomorrow, Ryde

Next, the Island

...and then?



keert.



Changing Delivery. Delivering Change

keert.

Reference slides

keert.

What is a cargo bike?

keert. What is a Cargo Bike?



What is a Cargo Bike?

Name

Messenger



Payload

20-40 kg
0.03-0.05 m³

Width

50cm

Name

Front-load cargo trike



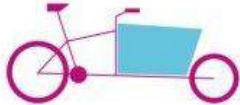
Payload

100-200 kg
0.2-0.6 m³

Width

80-90cm

Front-load cargo bike



100-125 kg
0.1-0.7 m³

50-90cm

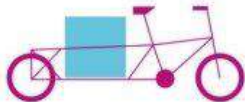
Rear-load cargo trike



200-300 kg
0.5-1.5 m³

80-120cm

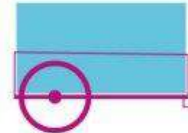
Rear-load cargo bike



100 kg
0.4-0.8 m³

50cm

Trailer



60-150 kg
0.2-2.1 m³

80-110cm

keert.

How are
Cargo
Bikes
used?



keert.

How are Cargo Bikes used?

By families:

As a car replacement!

Commercially: delivering and collecting...

- Last mile
- First mile
- Legal post
- Printed matter
- Flowers
- Off license



- Groceries
- Pharmacies
- Local government
- Libraries
- Waste & Recycling
- Washing
- Micro-mobility



keert.

How are Cargo Bikes used?



March 2020: U.K. entered lockdown in response to Covid-19 cases

Lambeth Council partnered with Pedal Me to assist with the delivery of thousands of care packages, consisting of essential home products and food, to the individuals and families most in need. This was a large scale logistics operation for the council

From the answer to a FOI request to Lambeth Council (IR339027):

“Pedal Me were selected as they were able to commit to the highest drop rate per hour at the most competitive overall rate”

[Possible and the Active Travel Academy released a report](#), that finds that, on average, cargo bikes can deliver goods in London 1.61 times faster than delivery vans.

The report used GPS data from Pedal Me cargo bike routes and compared them to the routes that vans would have had to take to deliver the same parcels - with this remarkable variation in efficiency coming to light.

keert.

Where are
Cargo
Bikes
used?



keert.

Where are Cargo Bikes used?

...and the Isle of Wight

With thanks to the European Cycle Logistics
Federation <https://eclf.bike/>

