What is your carbon footprint?

The Sunday Times looks at the carbon emissions racked up by a single traveller on a one-way trip from Singapore to Kuala Lumpur on four modes of transport.
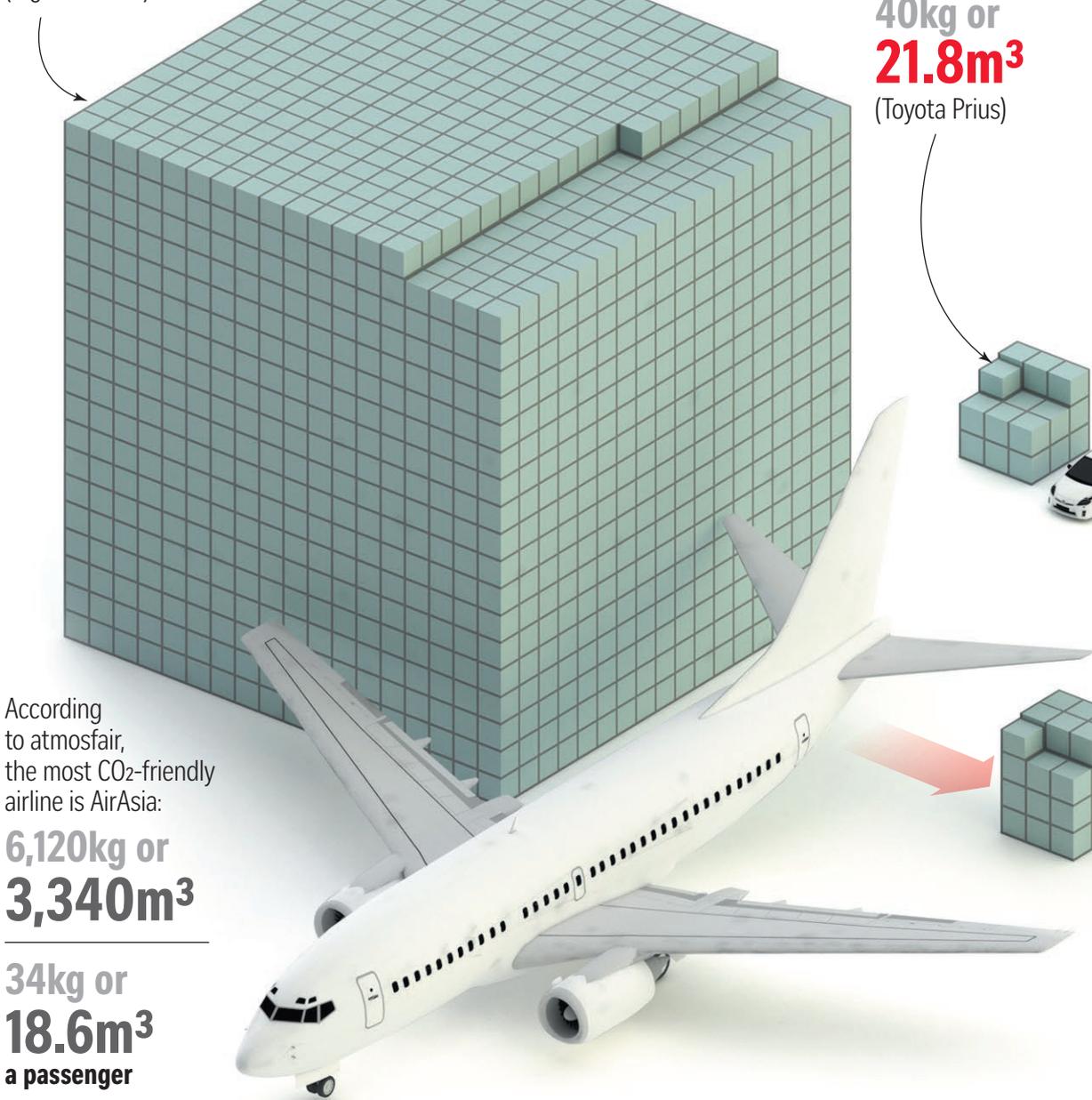
By plane
(distance: 316km)

Passenger load: 180

Cost: From $74 to $191 for flights a person, RM$55 (S$18) for KLIA Ekspres a person

Travel time: 1 hour flight time. Add 3 hours for check-in and immigration clearance at airports and 30 minutes travel from KLIA to Kuala Lumpur via KLIA Ekspres.

11,160kg or
6,091m³
(regular airline)

According to atmosfair, the most CO_2-friendly airline is AirAsia:

6,120kg or
3,340m³

34kg or
18.6m³
a passenger
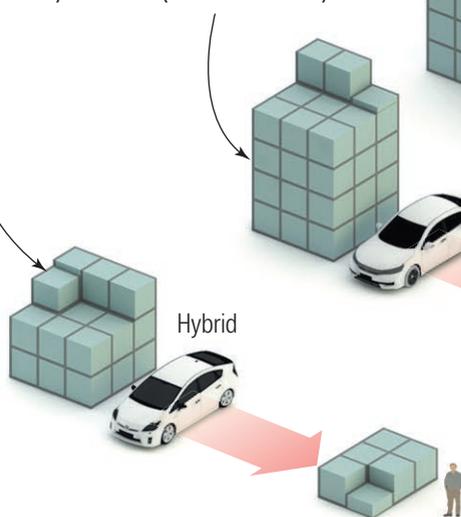
By car
(distance: 355km)

Passenger load: 4

Cost: $149.20 a car
Approximately $45 for petrol; toll charges at Woodlands ($1) and Tuas ($1.30 for off-peak, $2.50 for peak hours) checkpoints; Malaysia's Foreign Registered Vehicles Entry (VEP) fee (RM$25) and Plus Toll charges (RM$2.90).

Travel time: About 4½ hours. Add two-hour buffer for traffic and immigration clearance.

40kg or
21.8m³
(Toyota Prius)

70kg or
38.2m³
(Honda Accord)

Hybrid

10kg or
5.5m³
a person
(Toyota Prius)

62kg or
33.8m³
a passenger
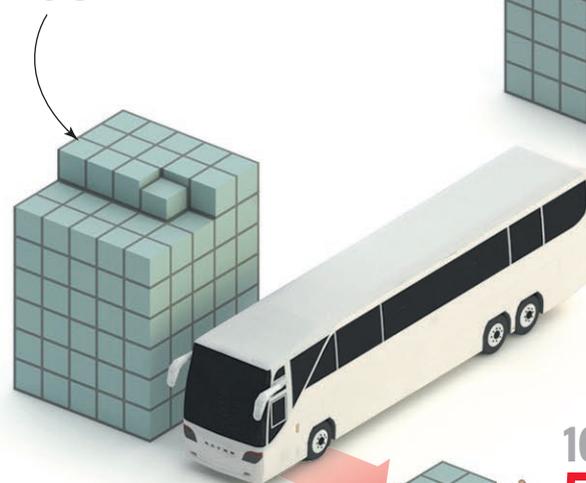(regular airline)

By bus
(distance: 350km)

Passenger load: 30

Cost: $28 to $50 an adult

Travel time: Average 6 hours. Traffic and immigration clearance could add anywhere from 45 minutes to a couple of hours, especially on long weekends.

300kg or
163.7m³

17.5kg or
9.6m³
a person
(Honda Accord)
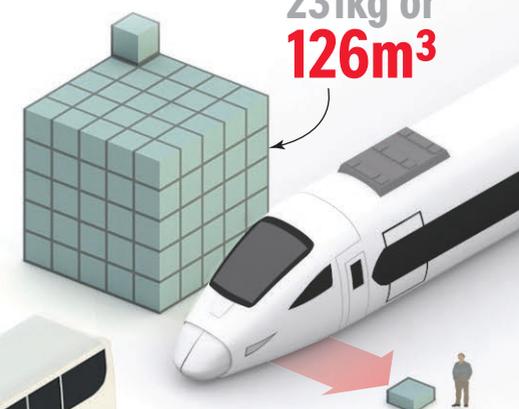
10kg or
5.5m³
a passenger

By train
(distance: 316km)

Passenger load: 300

Cost: $23.05 a person
Shuttle Tebrau from Woodlands to Johor Baru ($5), shuttle train from JB Sentral to Gemas (RM$21), ETS train from Gemas to KL Sentral (RM$31).

Travel time: 6 hours, but add 2 hours for transit buffer.

231kg or
126m³

0.77kg or
0.4m³
a passenger

— By plane — By train
— By car — By bus

Kuala Lumpur
to Kuala Lumpur via KLIA Ekspres train

South China Sea

Tioman Island

Kuala Lumpur International Airport

Gemas

MALAYSIA

Malacca Strait

Woodlands Checkpoint

INDONESIA

SINGAPORE

Changi Airport

PASSENGER LOAD
One car = 4 passengers
One bus = 30 passengers/7.5 cars
One plane = 180 passengers/45 cars/6 buses
One train = 300 passengers/75 cars/10 buses/1.6 planes