20s plenty for Hampshire

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County Lead

7 reasons why Einstein would support

20 MPH



BRISTOL CYCLING

Reason 1

Reduces accidents and makes people feel safer



A car travelling at 30 mph has DOUBLE the kinetic energy of a car only doing 20 mph.

Reason 2

Reduces Congestion and Journey Time



Lower speed limits mean less stops and starts, smoother traffic flow and faster overall journey times, especially in busy cities.

Reason 3

Reduces Fuel Consumption



A large car undertaking a 16 km daily commute through the city will use £197 less petrol and save the equivalent energy of a single person's annual electricity consumption.

Reason 4

Reduces Air Pollution and CO2 emissions



20 mph limits reduce CO2 emissions and air pollution from exhaust and non exhaust emissions

Reason 5

Reduces damage to Roads and Cars



A car braking from 30 mph puts more than twice the energy through brakes, tyres and the road surface than braking from 20 mph

Reason 6

Reduces Noise



A reduction of 3 decibels (db) equates to a halving of noise energy. Changes from 30 mph to 20 mph have been found to reduce noise by between 2 and 10 db. Quieter streets = more relaxed people.

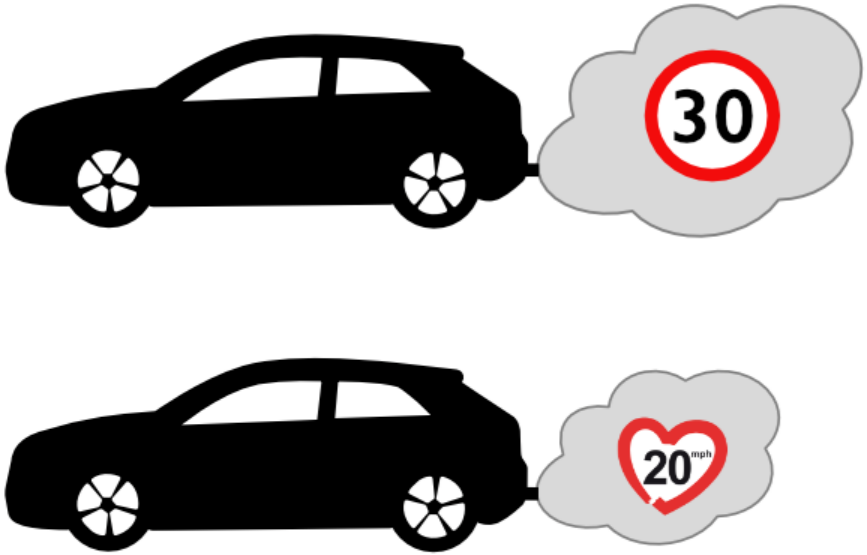
Reason 7

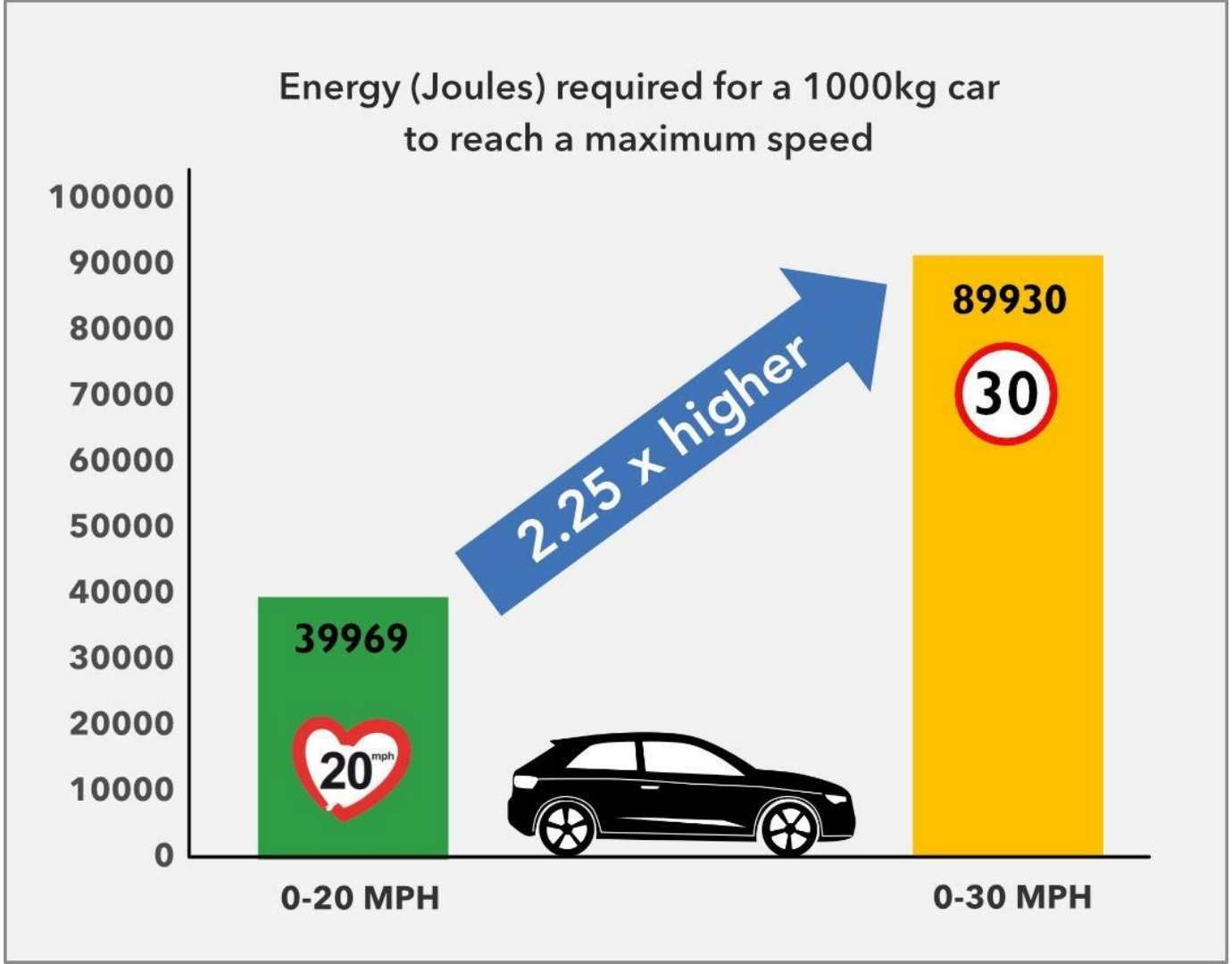
Enables Cycling

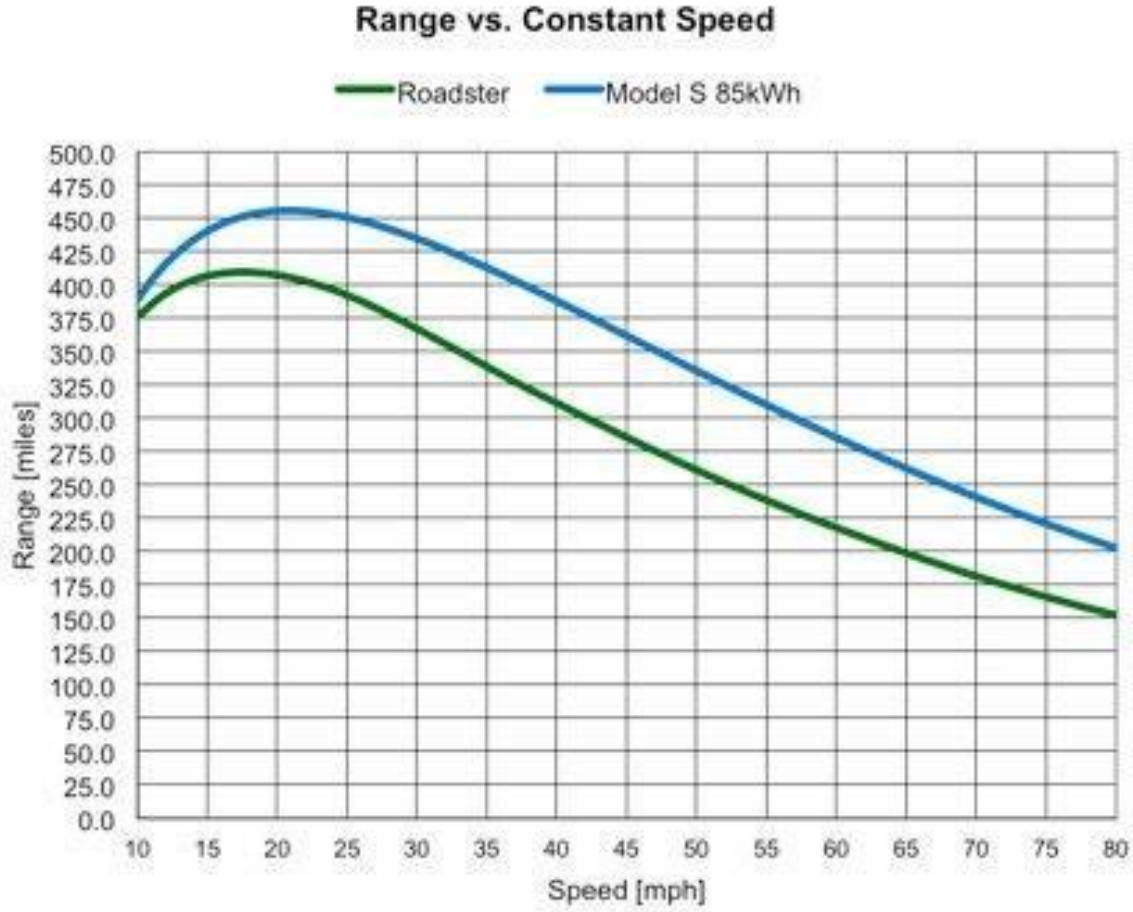


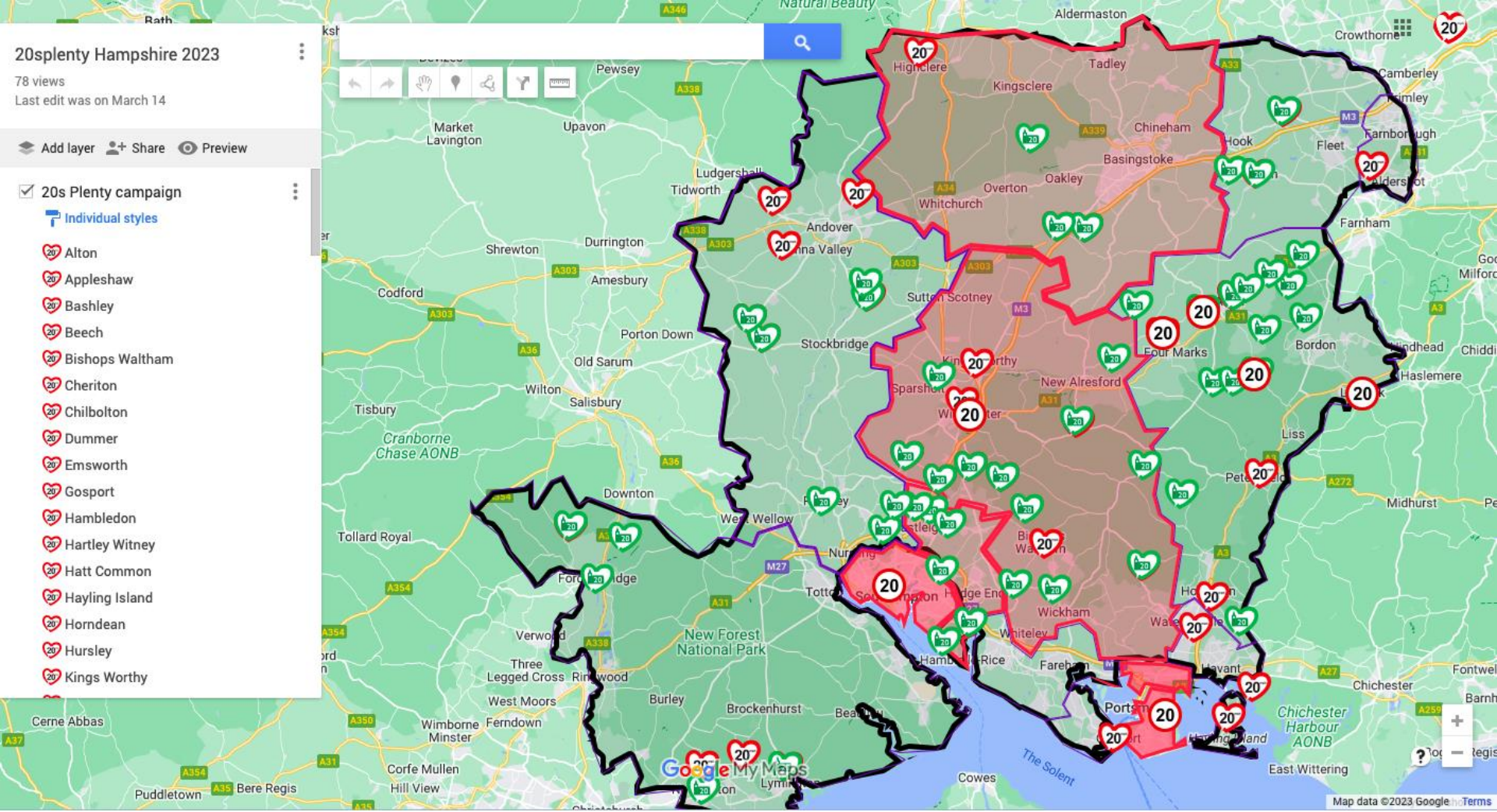
20 mph speed limits make it more likely people will cycle instead of taking the car. This will have the biggest effect on energy and fuel consumption.

New research shows that 20mph limits reduce CO_2 and NOx by 25% compared to 30mph




Energy (Joules) required for a 1000kg car
to reach a maximum speed
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
39969
20 mph
2.25 x higher
89930
30
0-20 MPH
0-30 MPH


Range vs. Constant Speed
Roadster
Model S 85kWh
Range [miles]
500.0
475.0
450.0
425.0
400.0
375.0
350.0
325.0
300.0
275.0
250.0
225.0
200.0
175.0
150.0
125.0
100.0
75.0
50.0
25.0
0.0
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
Speed [mph]


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Beech
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Gosport
Hambledon
Hartley Witney
Hatt Common
Hayling Island
Horndean
Hursley
Kings Worthy
Natural Beauty
Aldermaston
Crowthorne
Camberley
Farnborough
Fleet
Aldershot
Farnham
Haslemere
Liss
Midhurst
Petersfield
Bordon
Four Marks
New Alresford
Alresford
Basingstoke
Tadley
Kingsclere
Highclere
Whitchurch
Overton
Oakley
Chineham
Hook
Andover
Stockbridge
Sutton Scotney
Wickham
Fareham
Portsmouth
Havant
Chichester
Chichester Harbour AONB
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Cowes
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