



# Bath Tram-

Trampower



the right flavour ?



Talk 24<sup>th</sup> Nov. 2018

Bath Tram Conference.



Mary Baker Instant cake mix –  
imported from USA 1956



Trampower

NEW Mary Baker CAKE MIXES GIVE YOU ...



Home Sweet...



Home made Cakes



**Mary Baker** SAYS: "I am a cookery expert like Mother Jones of 'Housewife' to tell my new Mary Baker Cake Mixes, and I believe you'll agree with them when they say: 'These mixes give you real home-made cakes! They're made of finest ingredients you needed in a special way for high rising, light rising and even rising. I've told the rest for you to add leavening, so you don't know, there's no other way to make a 'Home Sweet Home Mix' cake."



that's right, too. So try my new cake mixes and write me what you think. Mary Baker of The Cake Mix Division, The Standard Wheat Co. Ltd., Wilmore Garden City, Illinois."

Mary Baker Cake Mixes  
Baking, Baking, Baking!







Tinned Rice Pudding –  
another 1950's culinary break through ?



Ford Model 'T' – any colour :  
as long as it black

TramPower



Oldsmobile 1923 –  
any colour





Our first car – we are so proud.  
We park it at a Bus Stop !

**Trampower**







Cars could be advertised on roads  
in 1970's !





A “dream product” ?

Tram**power**



Cars now advertised in fantasy locations –  
*The ultimate male status symbol ?*



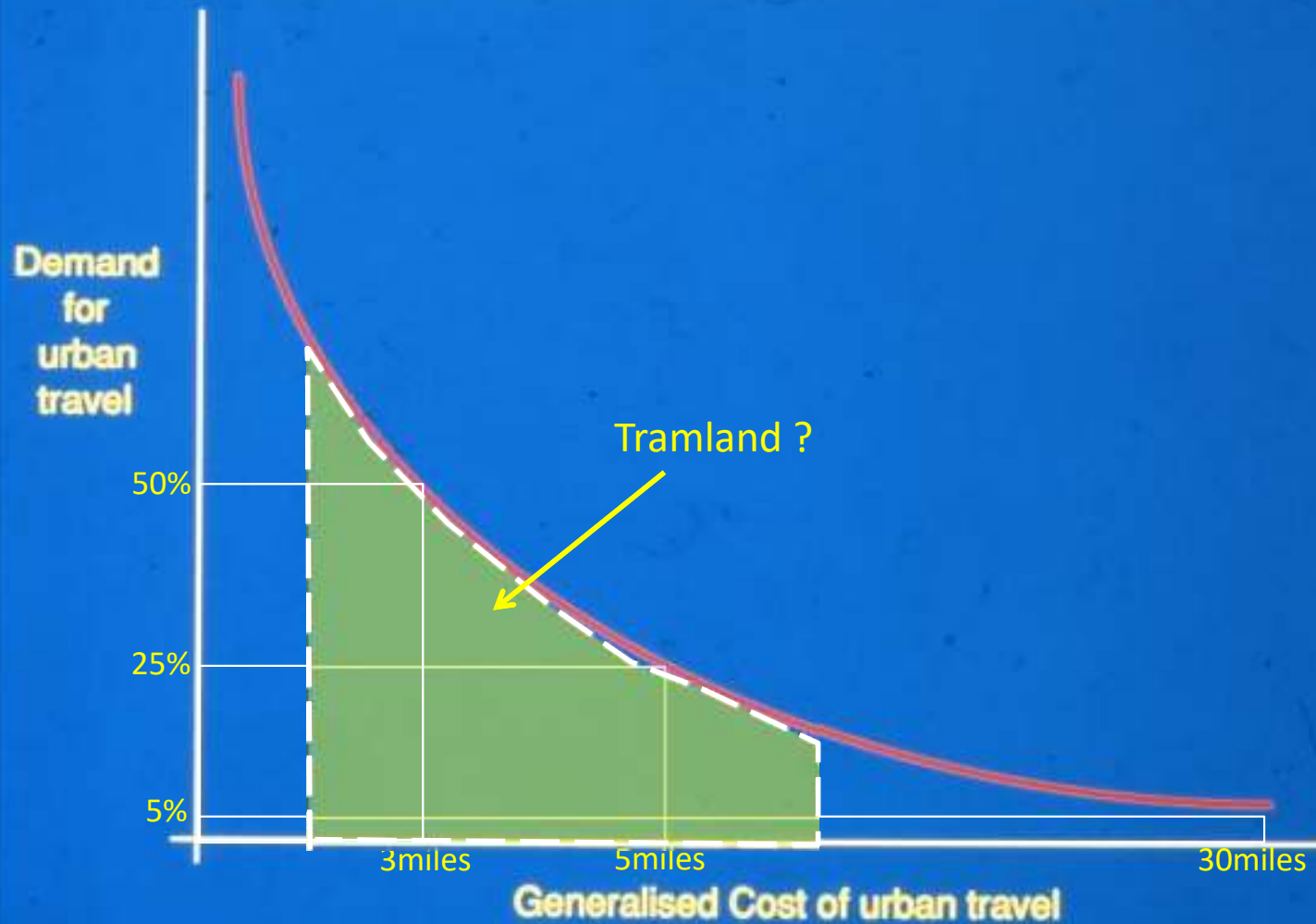




What travel do people buy ?

Tram**power**

## Urban Travel Demand



= walking time + waiting time + fare  
+ riding time + comfort/convenience





## Why not buses ?

The Stevenage Superbus 1968 - 1980



Tram**power**

Redditch "Reddibus " 1976 - 2003



Swansea 'bendy buses' scrapped six years after £10million spent on roads to accommodate 2009- 2015

York FTR 2006

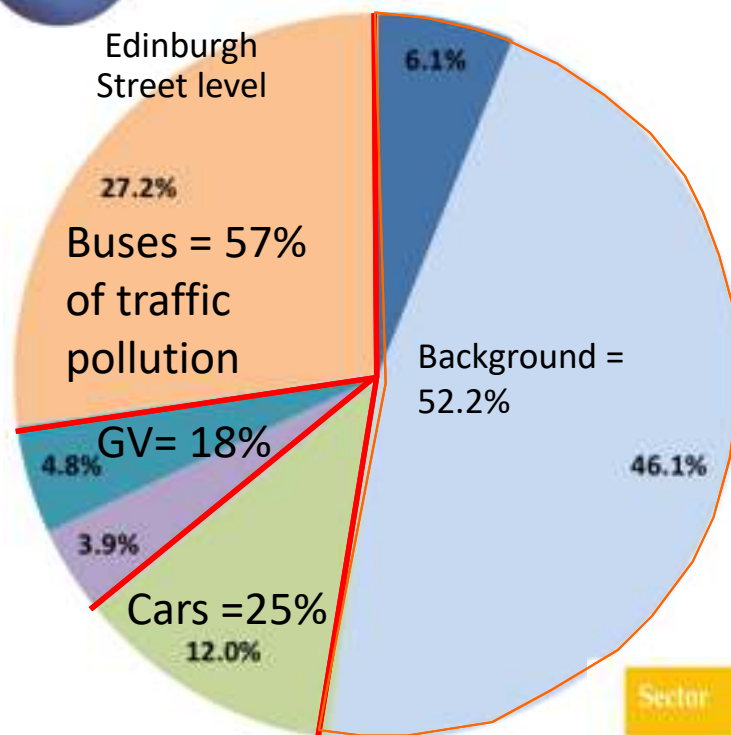


No UK bus service has got (m)any people out of cars

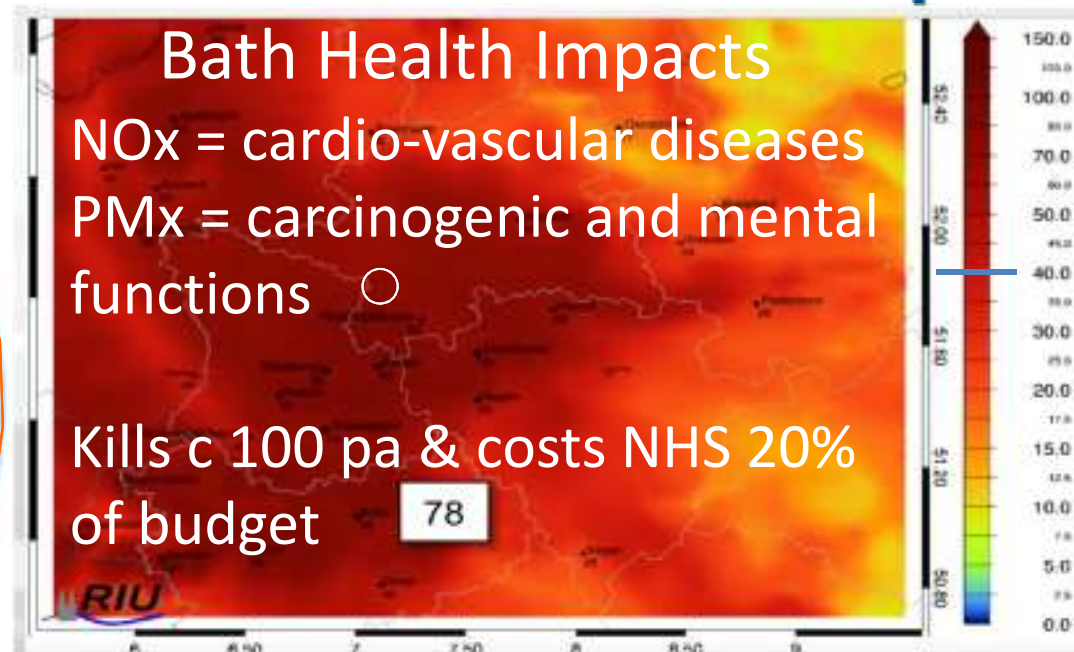


Never mind pollution ?

Trampower



Fuel Tax and conflicts of interest



Sector	SO <sub>2</sub>	NO <sub>x</sub>	VOC	PM <sub>10</sub>	PM <sub>2.5</sub>
Energy & Ind.	300	480	26.4	17.9	15.0
Road Transport	0.9	350	47.4	23.8	17.1
Other transport	10.6	91	11.0	3.7	3.5
Commerce & Domestic	40.9	87.7	36.3	27.6	26.8
Agriculture	na	na	75.2	12.6	2.2
Waste	0.7	1.4	43.2	2.2	2.0
Other	na	0.2	0.8	2.2	2.12





## Who Needs Buses ?



Urban Car trips are short:  
70% < 5miles  
50% < 3 miles

## Who needs trams ?

Local buses are big polluters  
(NO<sub>x</sub> & PM<sub>x</sub>)

And

Don't get people out of their cars





# What is the alternative ?

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- Ban all motor traffic – economic impacts
- Provide cycleways – on Bath's hills ?
- Electric vehicles – PMx from tyre, tarmac and brakes
- Wait for HM Treasury 'Magic Money Tree' ?



Bath Trams – an uphill challenge

## Max slope by adhesion

City	% Gradient
Montreal	14
Saarbrücken	13
Lisbon	12
Sheffield	10

Opinions TRUMP Facts