

Carbon footprints, change and choices.

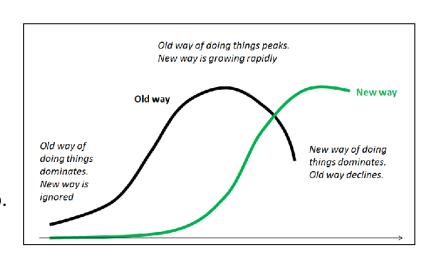
Anne Miller The Creativity Partnership <u>www.annemiller.eu</u>

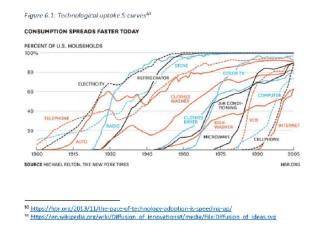
November 2016

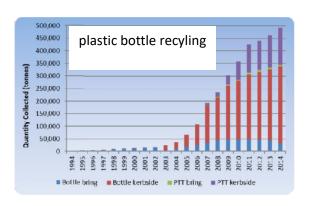
Change

Change sneaks up on us.

Important trends start small, while being ignored by those with an interest in the status quo.







The good news is that our personal choices make a huge difference to carbon emissions, and we can change fast when we want to

Here are some encouraging trends to keep an eye on

1. Global energy use and the economy

Global GDP growth is decoupling from energy demand, even in developing countries.

550 80 450 70 GDP (US\$ current (23/07/15)) 60 350 Energy Const 50 40 20 10 OECD GDP Non-OECD GDP OECD Energy Consumption Non-OECD Energy Consumption World Energy Consumption

Figure 3.1: Global GDP growth is decoupling from energy demand

Source: US EIA, World Bank

http://www.carbontracker.org/report/lost in transition/

Hydro

Solar PV

Onshore wind

■ Wave and tidal

Chart 6.1 Renewables' share of

electricity generation

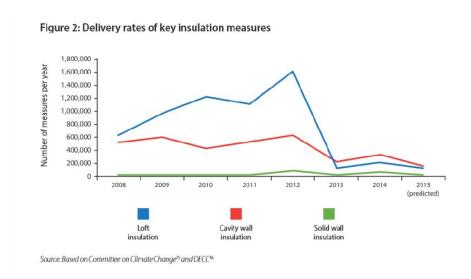
UK renewables

■ Bioenergy

Offshore wind

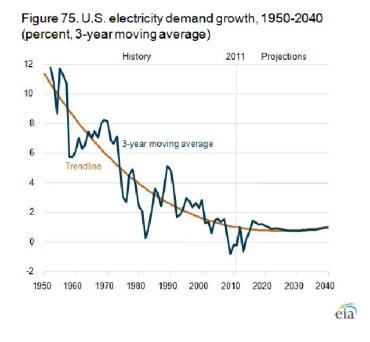
2. Home energy

Our homes are getting better insulated (although UK insulation installation rates dropped dramatically during the failed "Green Deal" scheme)



http://www.respublica.org.uk/wp-content/uploads/2015/09/After-the-Green-Deal.pdf

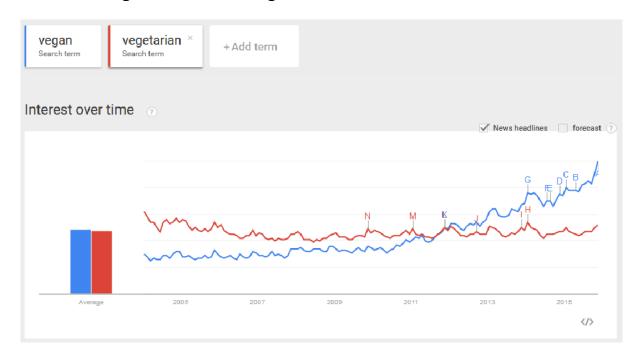
Electricity companies are complaining that demand growth is declining.



http://g.foolcdn.com/editorial/images/116983/eia-electricity-demand-growth_040714.jpg

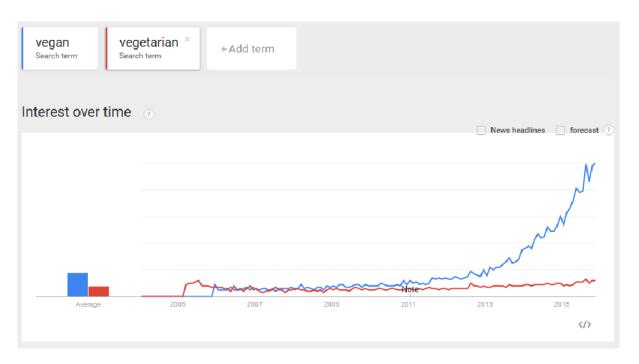
3. Food

Interest in Veganism is increasing worldwide.



Data from Google Trends

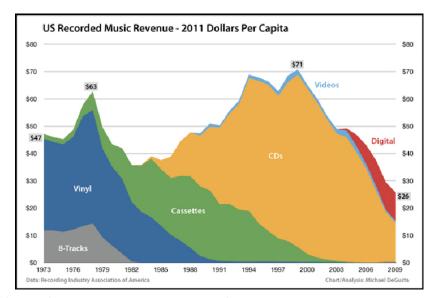
..even in France.



Data from Google Trends

4. Consumption

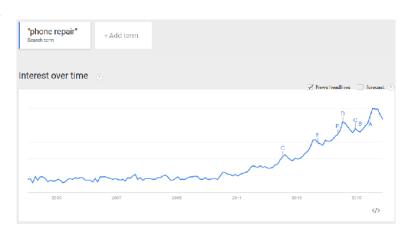
Digital products are replacing physical products



http://static2.businessinsider.com/image/4d5ea2acccd1d54e7c030000/music-industry.jpg

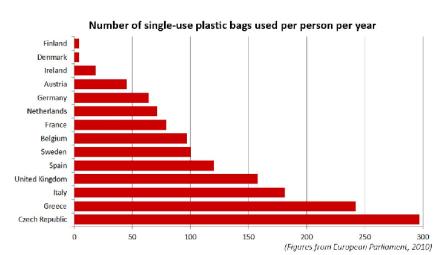
Interest in repairing things is growing, worldwide.

Data: Google trends



We can change wasteful habits within months... eg plastic bag usage





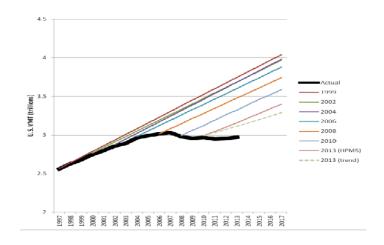
https://www.theguardian.com/environment/2016/jul/30/england-plastic-bag-usage-drops-85-percent-since-5p-charged-introduced

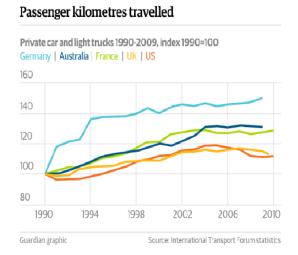
5. Travel

Car use is declining. The official projections of growth are increasingly unrealistic.

In the US....

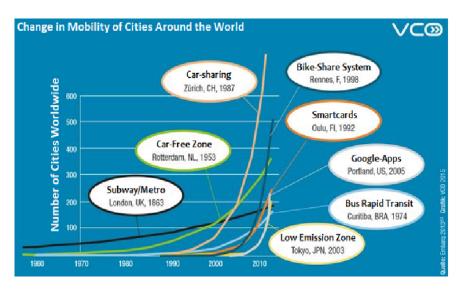
and elsewhere in the developed world too...





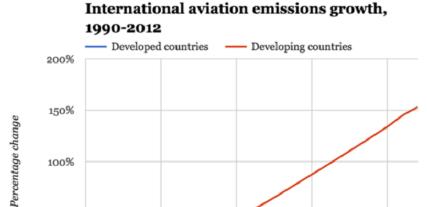
From http://transportationist.org/2014/12/03/extrapolations-in-traffic-vs-reality/

Low carbon "mobility services" are booming, worldwide.



From https://twitter.com/DewanMKarim/status/618586219950272513

But flying is a huge and growing problem ... Emissions are growing at 50% p.a. in developed countries, over 150% p.a. in developing countries.





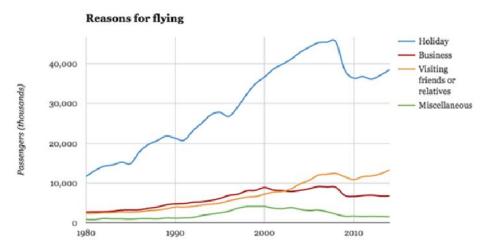
Source: Carbon Brief, using IEA data

100%

50%

The good news is that UK business flights have been declining since 2000....

2010



Reasons for UK passengers travelling abroad by air. Credit: Carbon Brief, based on ONS statistics

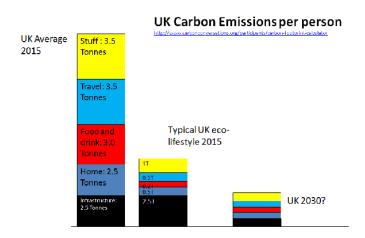
http://www.carbonbrief.org/explainer-aviations-battle-to-limit-rising-emissions

....and in the UK: 14% of people were voluntarily choosing not to fly in 2014, up from 13% in 2010.

https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/336702/experiences-ofattitudes-towards-air-travel.pdf

6. Personal Carbon Footprints

As we make these lower carbon lifestyle choices, we make big reductions in our personal carbon emissions.



http://www.carbonconversations.org/participants/carbon-footprint-calculator

But have patience and be persistant. Big lifestyle changes and often take time..

Helps grow the wave of change, by teling others what you're doing and why.