

**Shropshire Hills  
Environment & Climate  
Emergency Networking  
Event Thursday 27th  
February 2020**

Richard  
Davies  
MBE

Beyond  
Enlightened  
Self  
Interest

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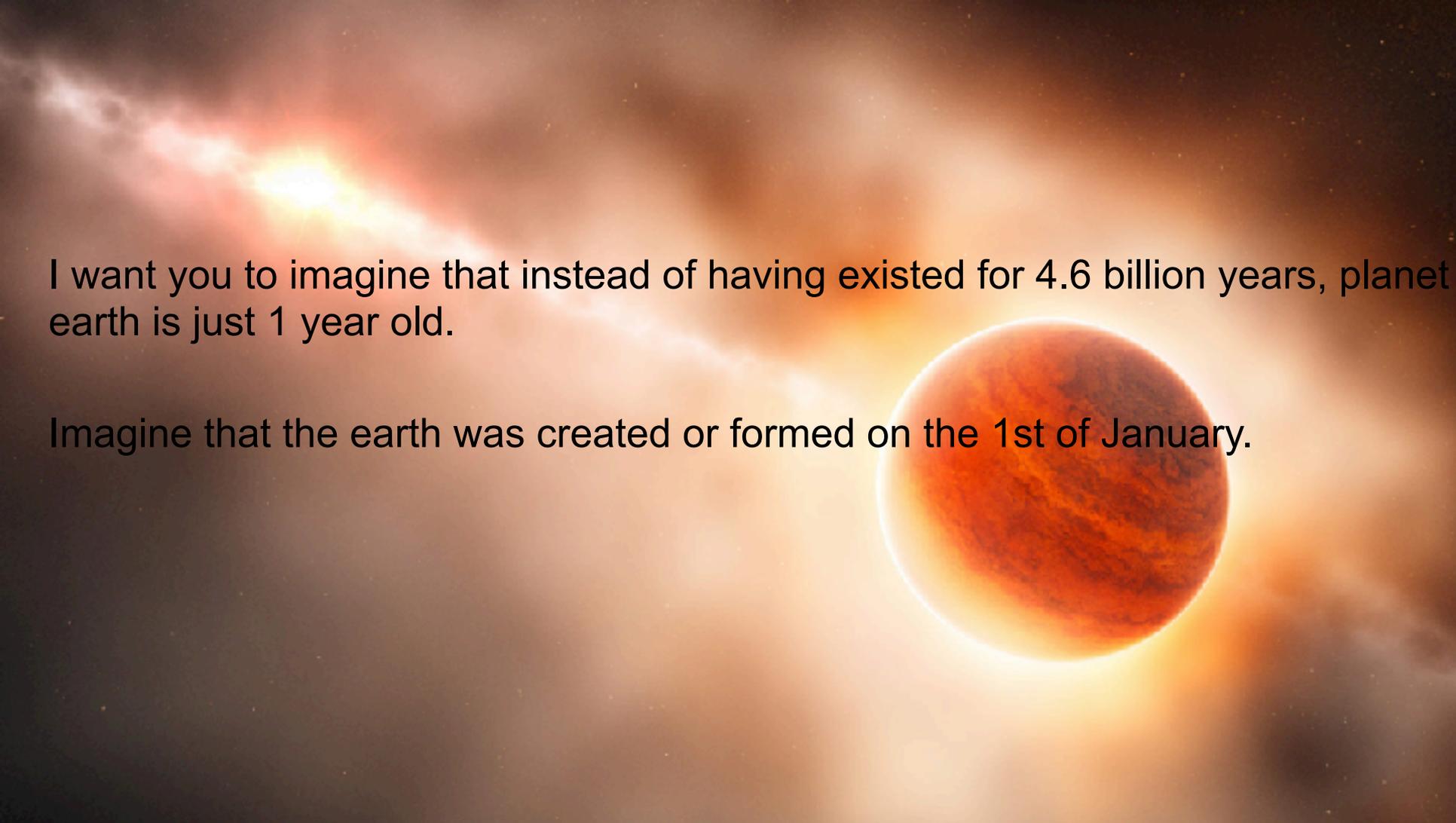
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**IT'S GETTING  
HOT ON HERE**



A dramatic space scene featuring a bright sun in the upper left, a glowing comet streak across the center, and a large, reddish planet in the lower right. The background is a dark, starry space.

I want you to imagine that instead of having existed for 4.6 billion years, planet earth is just 1 year old.

Imagine that the earth was created or formed on the 1st of January.

Well it took 87 days for the very simplest form of life, microorganisms, to appear on the 28th March.



A dark, spiny, segmented creature, possibly a fossil or a microscopic organism, is shown against a green background. The creature has a rounded, segmented body with many small, sharp spines protruding from it. It has several long, thin appendages extending from its sides. The overall appearance is that of a primitive, multi-segmented invertebrate.

Then there was a very long wait – a wait of 8 months. Until the 20th November, until after the great oxygenation of our atmosphere, when invertebrates appeared.



At lunchtime on the 11th  
December dinosaurs showed up.

And moments after the Queen's  
Speech on Christmas day they  
had become extinct.

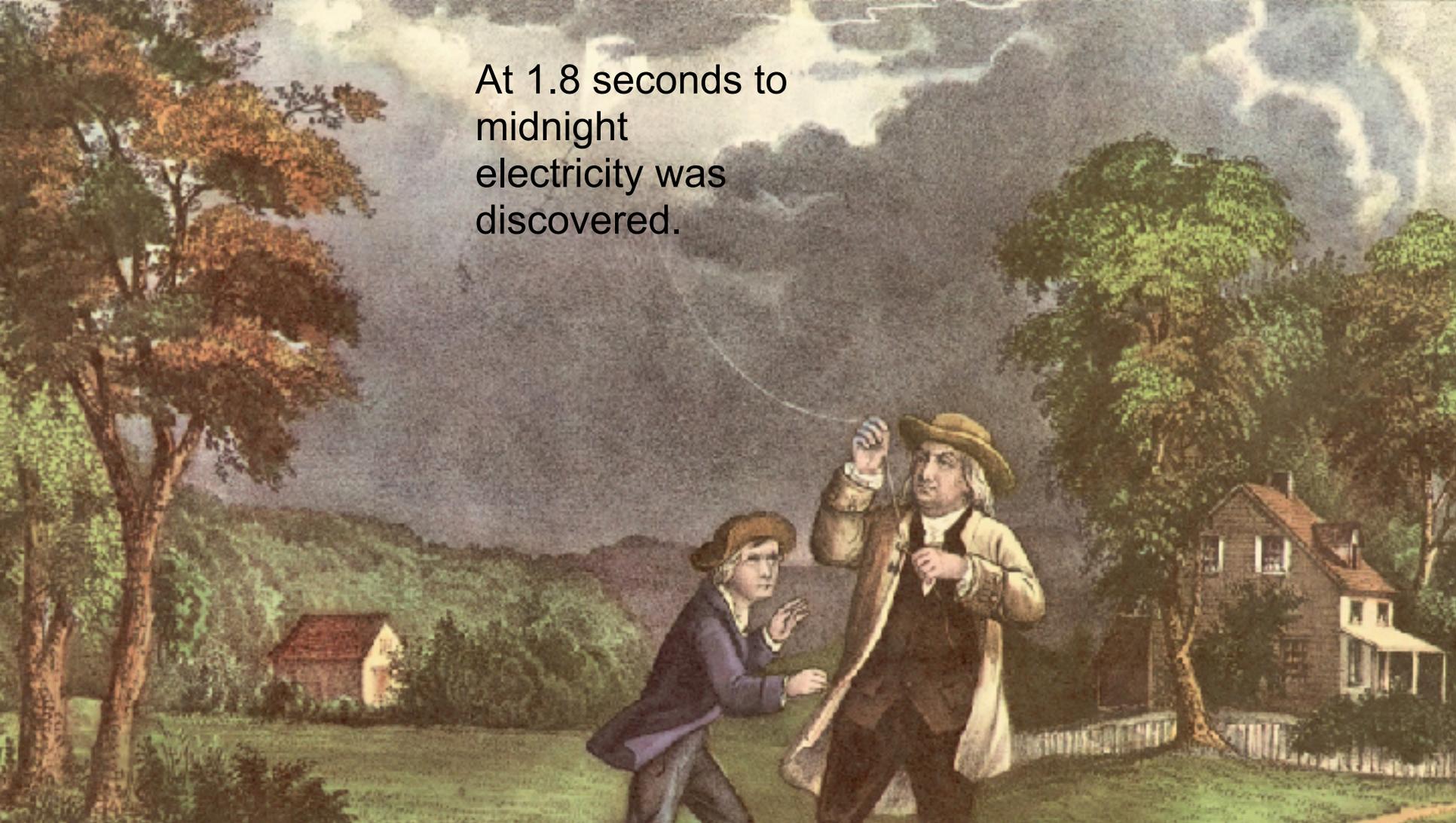
Let's now jump to just before midnight on New Year's Eve – the 31st December. Well at 23 minutes to midnight on New Year's Eve us modern humans arrived – Homo sapiens – just in time for the party!

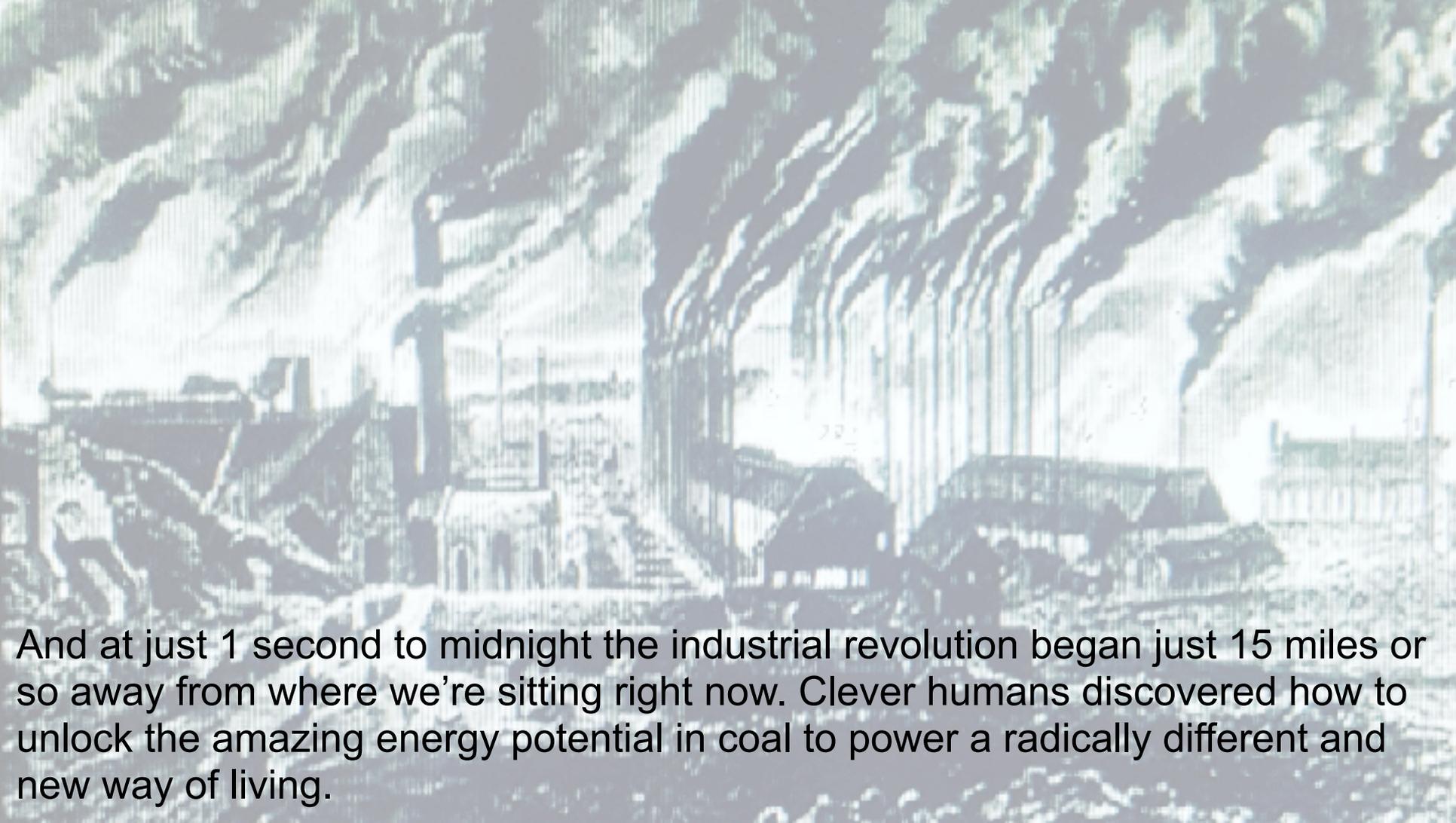


At 18 seconds  
to midnight  
Buddha was  
born.



At 1.8 seconds to  
midnight  
electricity was  
discovered.





And at just 1 second to midnight the industrial revolution began just 15 miles or so away from where we're sitting right now. Clever humans discovered how to unlock the amazing energy potential in coal to power a radically different and new way of living.

And in the last  
tenths of a  
second of the  
year we've  
been having  
one hell of a  
party.





US005639484A

# United States Patent [19]

White et al.

[11] Patent Number: **5,639,484**

[45] Date of Patent: **Jun. 17, 1997**

[54] **SPINNING CELL**

[75] Inventors: **Patrick Arthur White**, Sharnford, United Kingdom; **Malcolm John Hayhurst**, Coventry, England; **Alan R. Owens**, Nuneaton, United Kingdom; **Richard James Davies**, Birmingham, England; **Alan Sellars**, Birmingham, England; **Jacqueline Faye MacDonald**, Bebington, United Kingdom; **Michael Colin Quigley**, Meriden, United Kingdom; **Ralph Draper**, Coventry, United Kingdom; **Ronald Derek Payne**, Barrow-upon-Humber, United Kingdom

[73] Assignee: **Courtaulds Fibres (Holdings) Limited**, London, England

[58] **Field of Search** ..... 425/71, 72.2, 66, 425/67, 68, 69, 70, 378.2, 382.2, 464; 264/178 R, 179, 178 F, 203, 211.14, 211.15, 211.16

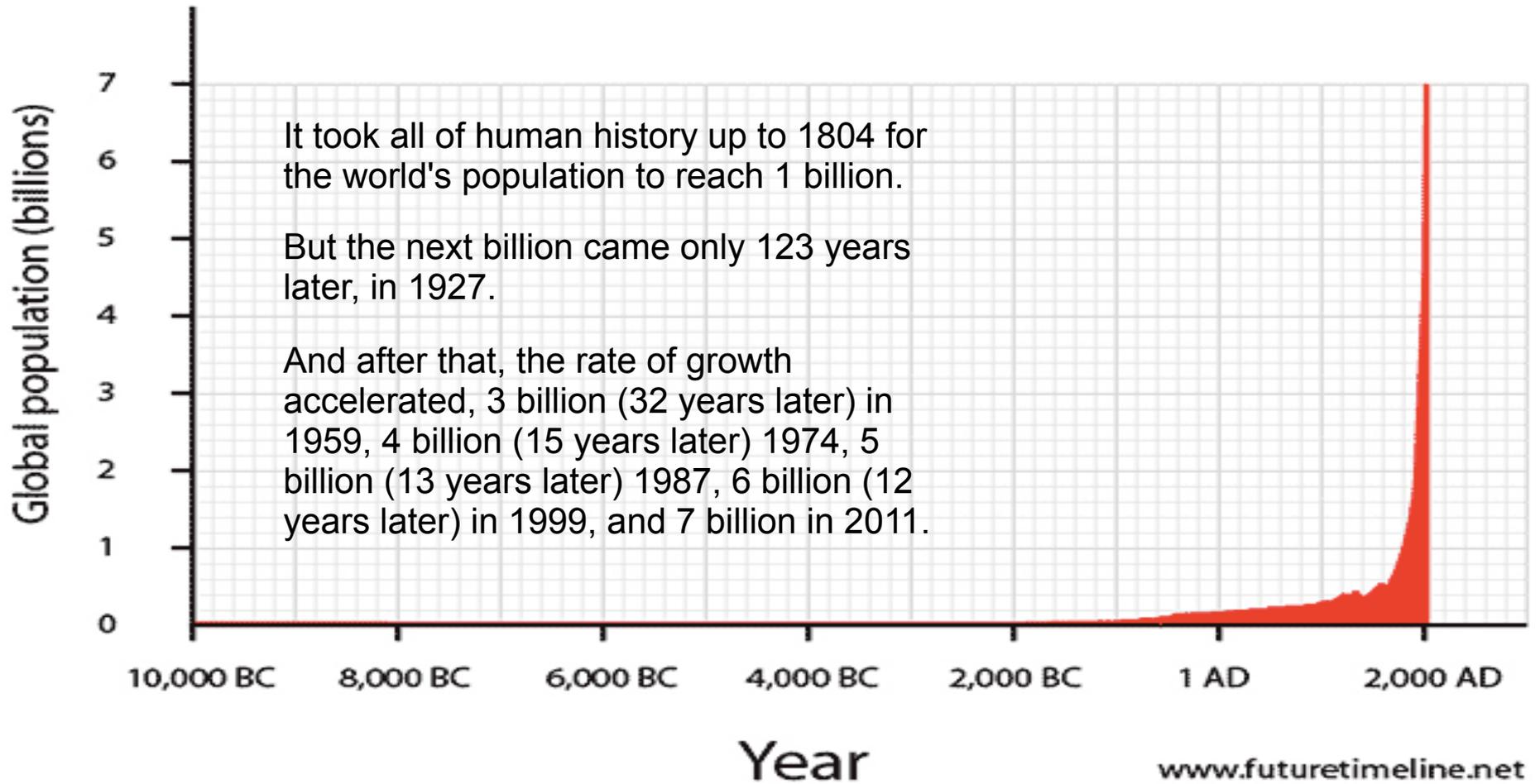
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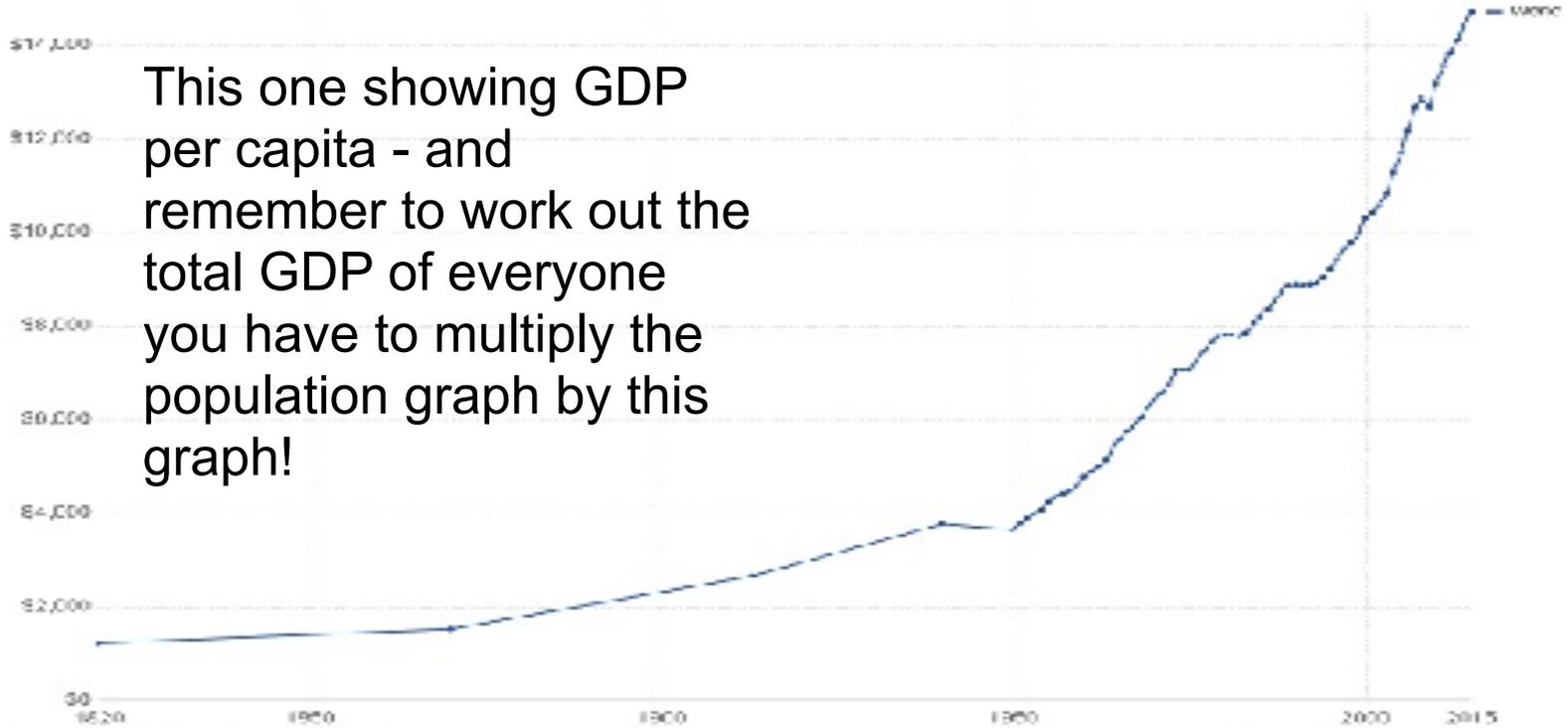
It took all of human history up to 1804 for the world's population to reach 1 billion.

But the next billion came only 123 years later, in 1927.

And after that, the rate of growth accelerated, 3 billion (32 years later) in 1959, 4 billion (15 years later) 1974, 5 billion (13 years later) 1987, 6 billion (12 years later) in 1999, and 7 billion in 2011.

## GDP per capita over the long run

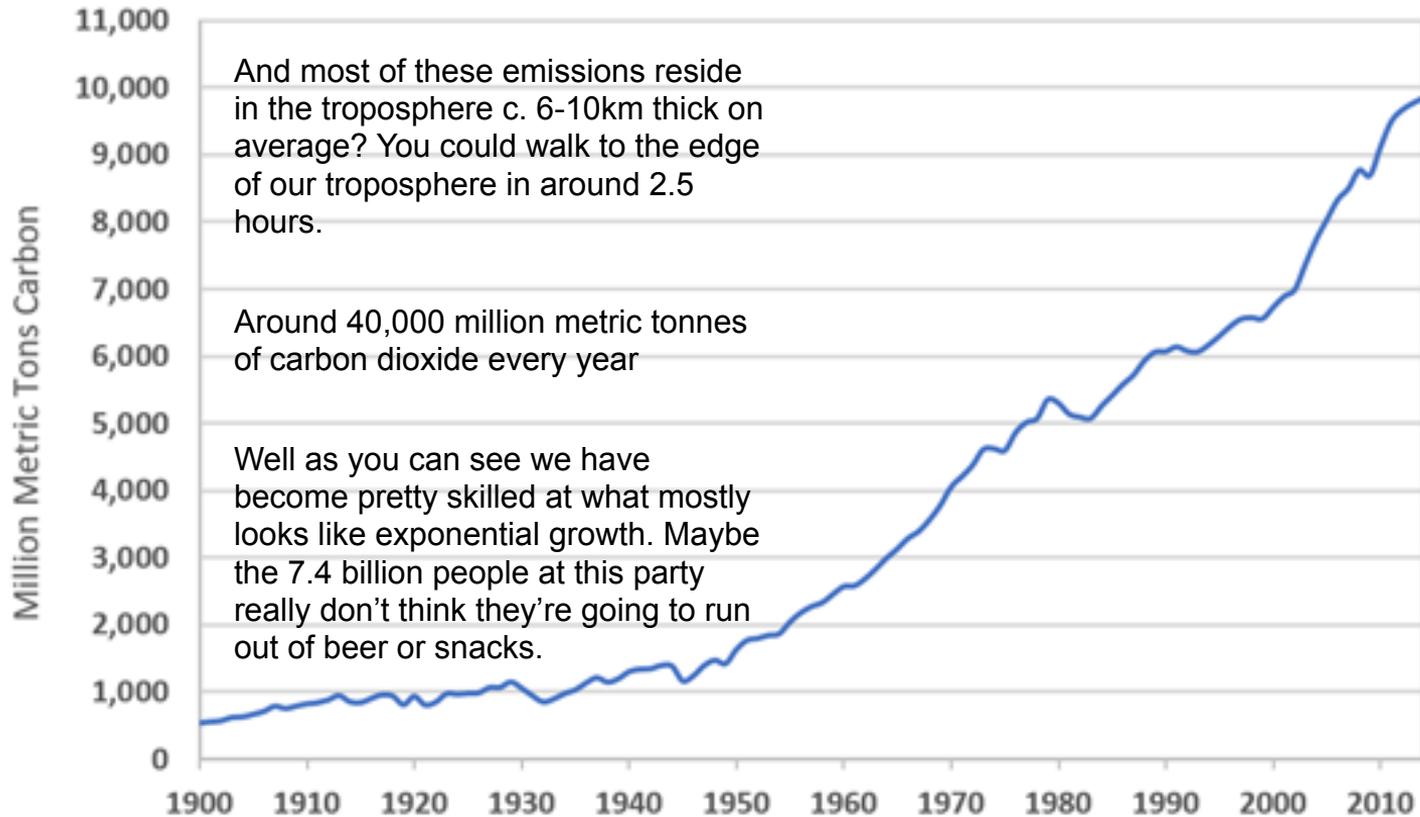
Line graph showing the long run trend of GDP per capita, indexed to 1980=100.



This one showing GDP per capita - and remember to work out the total GDP of everyone you have to multiply the population graph by this graph!

# Global Carbon Emissions from Fossil Fuels, 1900-2014

x3.66 to get from carbon to CO<sub>2</sub>





1 TON CO<sub>2</sub>

[www.EcoMotion.us](http://www.EcoMotion.us)



***Positive proof of global warming.***



**18th  
Century**

**1900**

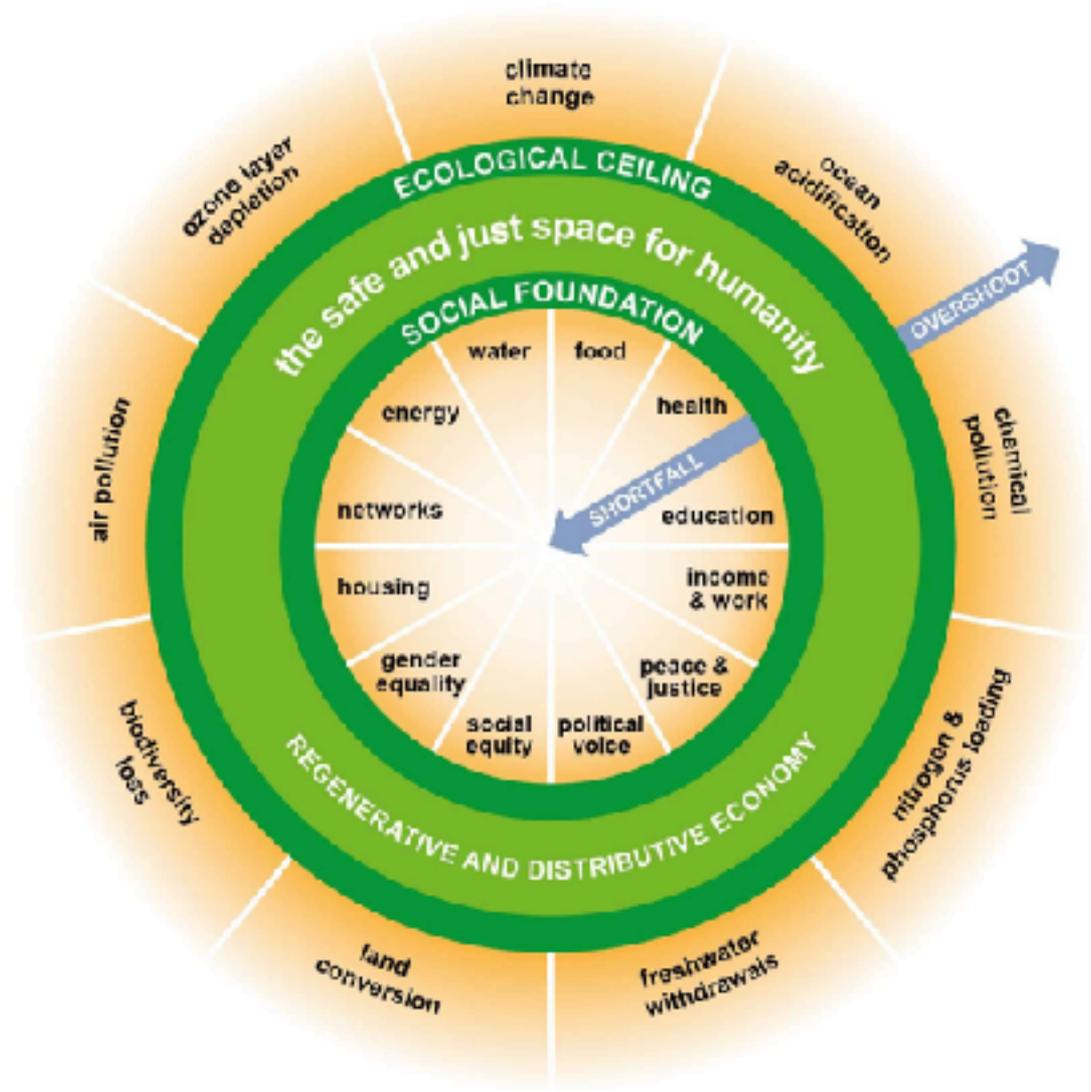
**1950**

**1970**

**1980**

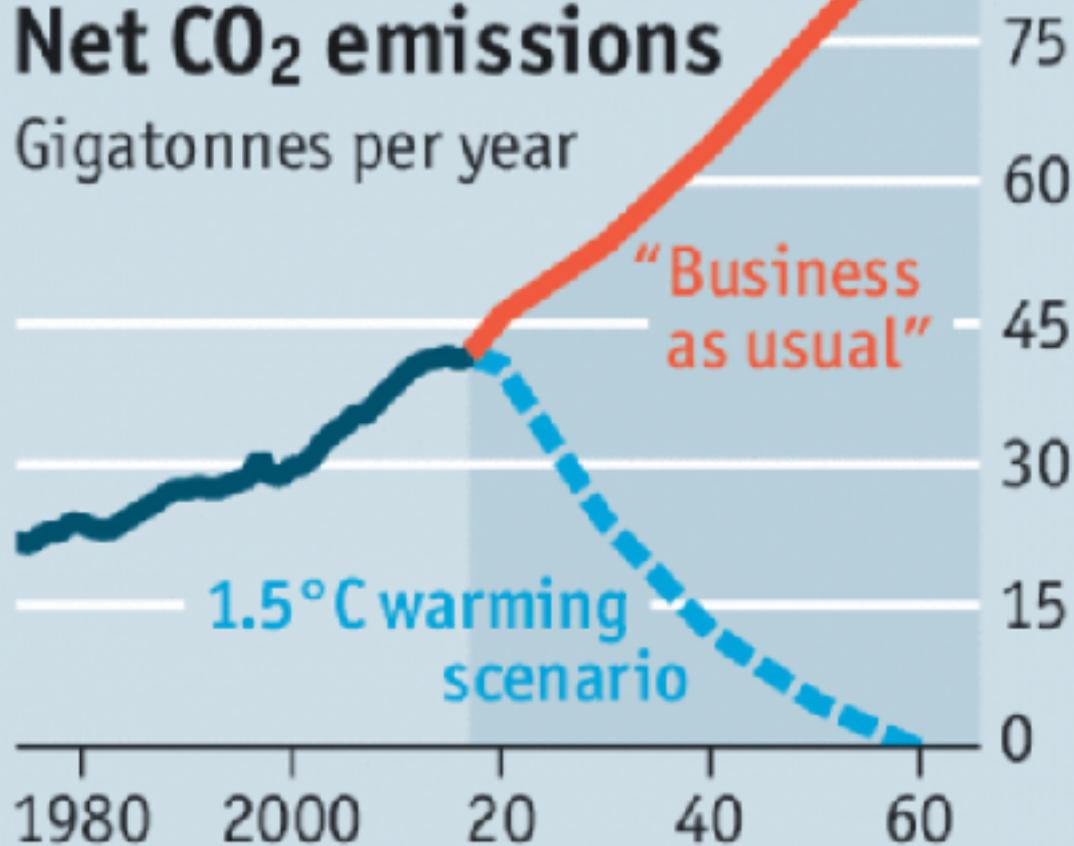
**1990**

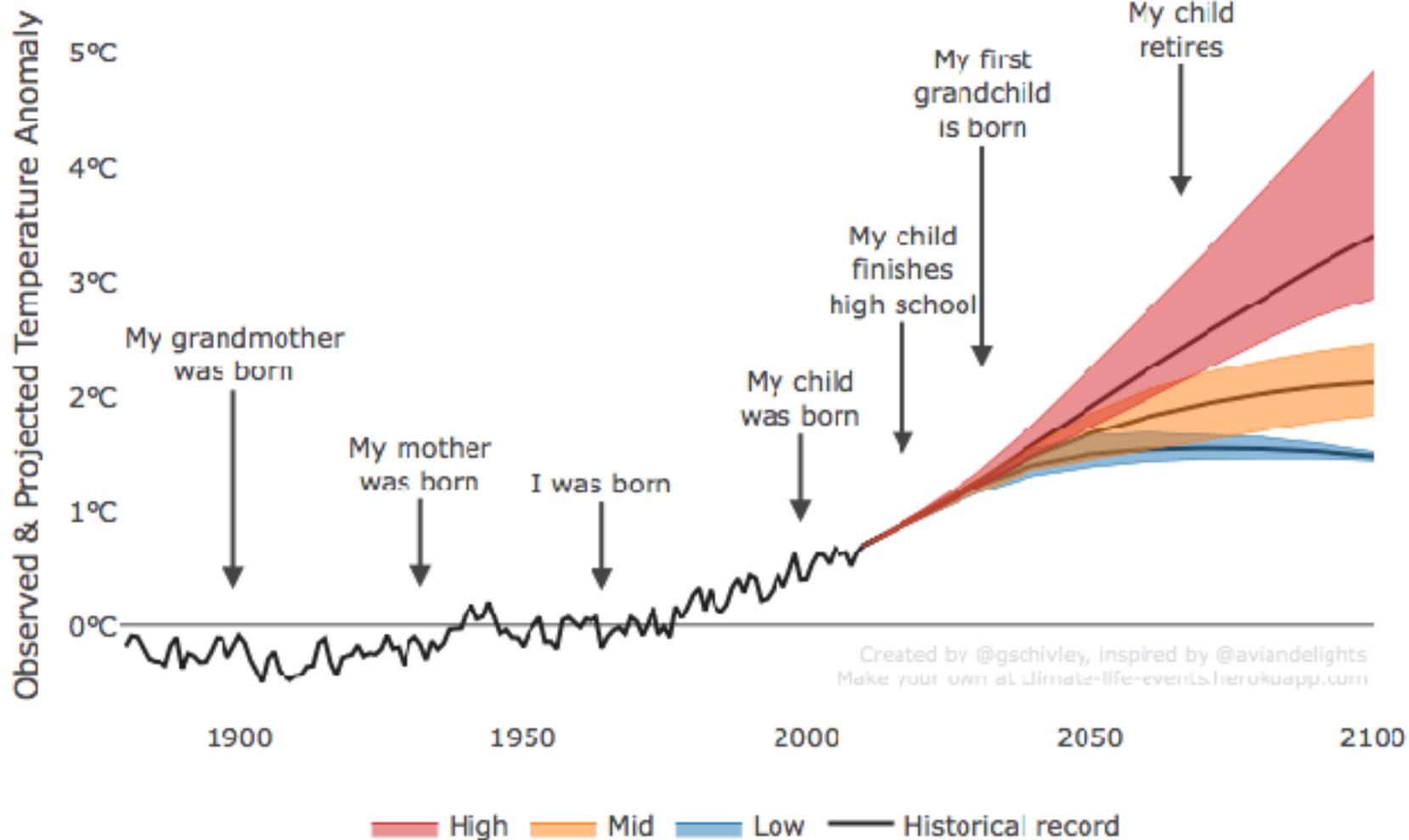
**2019**



# Net CO<sub>2</sub> emissions

Gigatonnes per year





# Three things to share.....

1. Opt In vs. Opt Out

2. Experimentation

3. Making our Politicians  
a 'tiny' bit braver



# 1. Low Carbon Opt In vs. Opt Out





From spring 2020  
**the law around  
organ donation in  
England is changing**

To find out about your choices, including  
how to opt out, visit [organdonation.nhs.uk](https://organdonation.nhs.uk)  
or call 0300 303 2094

PASS IT ON

## 2. Experimentation



### What benefits do Enterprise Zones offer businesses?

Businesses that locate in an Enterprise Zone can access a number of benefits:

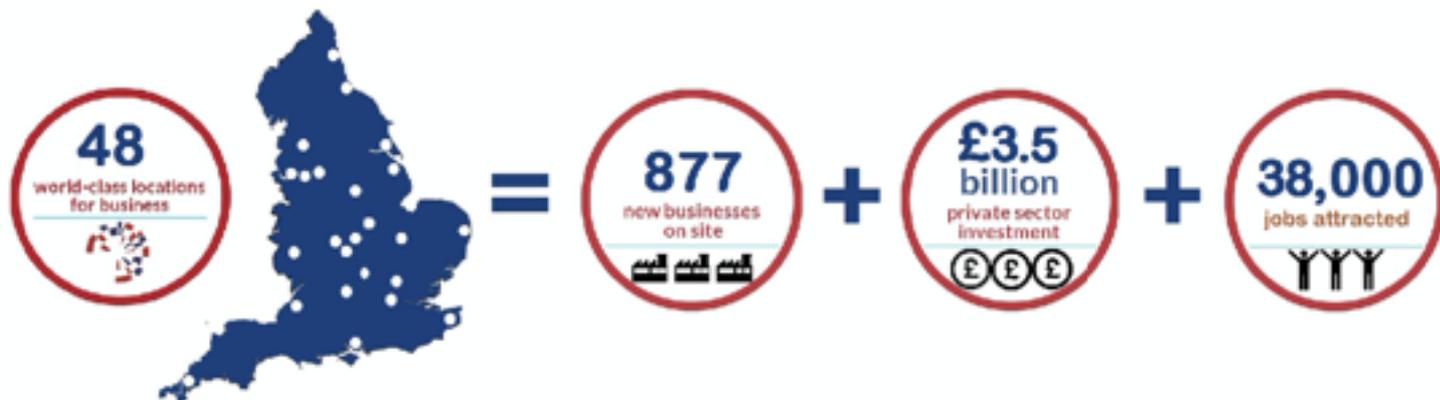
- Up to 100% business rate discount worth up to £25,000 per business over a 5-year period

OR:

- 100% enhanced capital allowances (tax relief) to businesses making large investments in plant and machinery on E Zones in Assisted Areas

AND:

- Simplified local authority planning, for example through Local Development Orders that grant automatic planning permission for certain development (such as new industrial buildings or changing how existing buildings are used) within specified areas.





Shropshire Hills  
Area of Outstanding Natural Beauty



## »» KfW's programmes for energy-efficient construction and refurbishment have positive impacts on the climate and public coffers

Press Release from 2018-06-04 / Group, KfW Research

- They reduce pressure on public budgets by up to EUR 10.6 billion, according to the Jülich Research Centre
- It estimates that each euro of funding relieves public finances by up to EUR 5.40
- Programmes combine cyclical impetus with energy conservation and climate action

KfW's promotional programmes for energy-efficient construction and refurbishment increase net revenues of the federal, state and local governments as well as social security funds by up to EUR 10.6 billion. This is the finding of a study conducted by the Jülich Research Centre on behalf of KfW. Every euro invested acts as a multiplier and reduces the burden on public coffers by a net EUR 3.80 to EUR 5.40. KfW's promotional programmes ease pressure on public budgets by leading to increases in public revenues or reductions in public expenditure that exceed the costs of the programmes.

**Coca-Cola**

4x0,33-l Dose + 1.- Pfand

Einzeldose 0,33-l: -.59 + -.25 Pfand

0120385

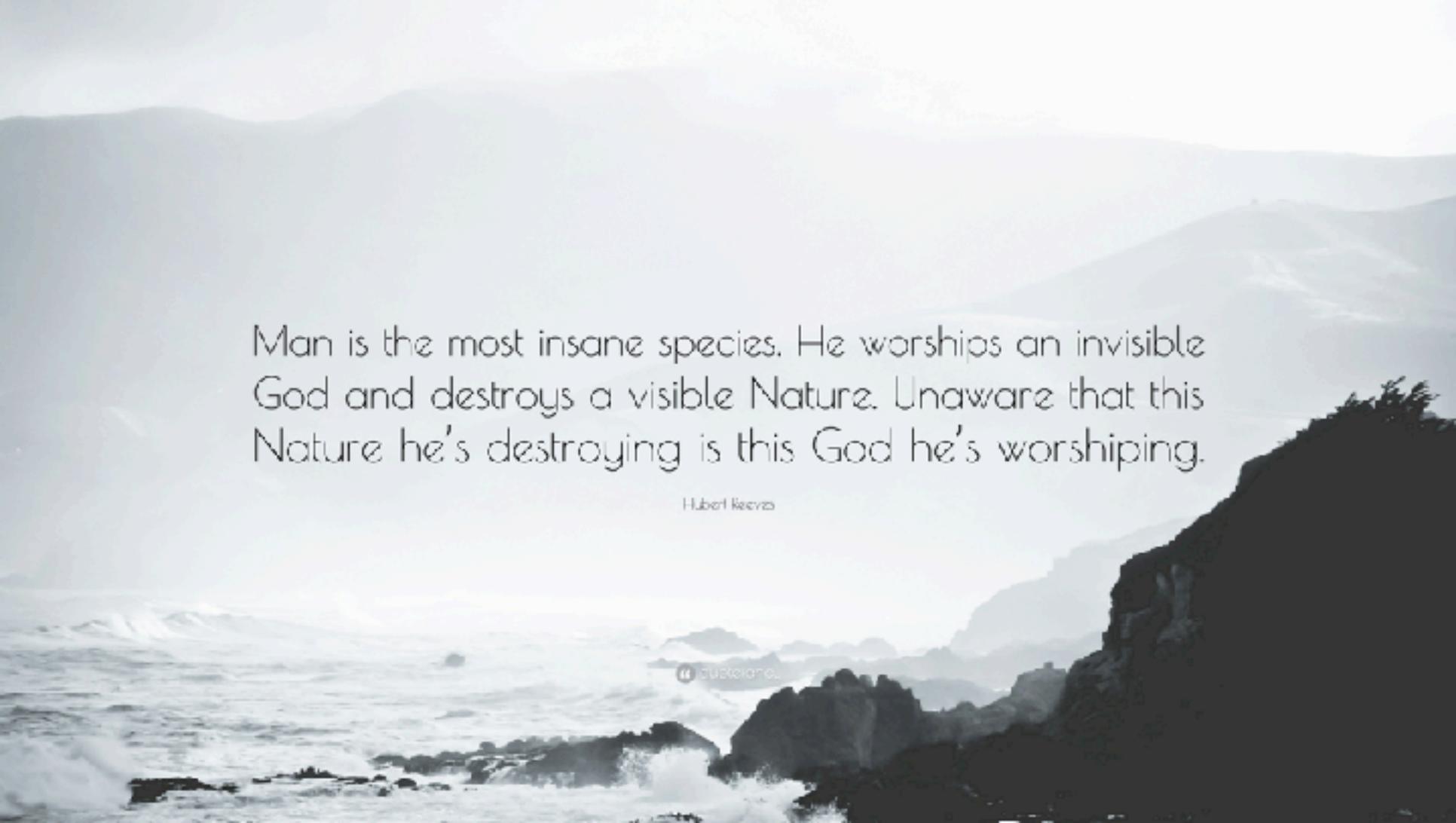
P 1 M

**2.35**

**1 L = 1.79 / 1 L = 1.79**

# 3. Making our Politicians a tiny bit braver





Man is the most insane species. He worships an invisible God and destroys a visible Nature. Unaware that this Nature he's destroying is this God he's worshiping.

Hubert Reeves

quotation

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**Thanks for**

**listening!**