













TOWARDS NET ZER®
CARBON EMISSIONS BY 2050











:15 CITY







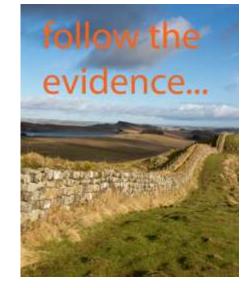


Joining up the dots Mike Gomm – 1960

BSc Hons Engineering (Electronics, Computing, Physics, Project)

PGCE Education (Science and Maths)

MIET (Member Institute of Engineering and Technology [IEE])



Taught 1982 - 2020

Physics Yrs 10 - 13

Computing Yrs 12 – 13

ICT Yrs 7 – 13

Science Yrs 7 – 9

Biology Yr9

Assistant Head of Year
Head of House
Head of Department
Network Manager
Data Protection Officer
UCAS Coordinator



Saved in 1980 on a Youth for Christ holiday

1 Thessalonians 4

¹³ But I do not want you to be ignorant, brethren, concerning those who have fallen asleep, lest you sorrow as others who have no hope.

¹⁴ For if we believe that Jesus died and **rose again**, even so God will bring with Him those who sleep in Jesus.

¹⁷ Then we who are alive *and* remain shall be caught up together with them in the clouds to meet the Lord in the air. And thus we shall always be with the Lord. ¹⁸ Therefore comfort one another with these words.

2 Timothy 1:7

For God has not given us a spirit of fear, but of power and of love and of a sound mind.

Philippians 4

⁶ Be anxious for nothing, but in everything by prayer and supplication, with thanksgiving, let your requests be made known to God; ⁷ and the peace of God, which surpasses all understanding, will guard your hearts and minds through Christ Jesus.

Electric cars

Sample calculation – EV 200 miles = 70 kWh (£35)

Cost = 17.5p/ml (50p/kWh)

Charge time = 2 hours



Sample Calculation – Diesel

250 miles = 25l (£40.25)

Cost = (25x1.16/250) 16.1p/ml

Fill time = 5 minutes

Fire risk - recommendations

Electric cars

Multistory Carparks

All designed to a 1971 loading around mini and Ford Cortina <1000kg

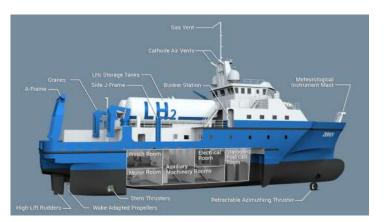
Today SUV and EV >2000kg





Hydrogen

- clean burn water the only product
- highly volatile
- highly corrosive, eats stainless steel, need lining dissolves silicon and rubber – o rings
- relatively low energy density
- bi-product from fertilizer manufacture or crude oil cracking.



Hydrogen can also be highly explosive, which you must consider when bunkering; there must be a very wide exclusion zone when the fuel is transferred. When we have planned it out as a marine fuel in Norway, it has to be bunkered in an empty fjord with no one living there.



Global Warming

Net Zero CO₂ – what does this mean?

How much CO² in the atmosphere?



Global Warming

Net Zero CO₂ – what does this mean?



How much CO² in the atmosphere?

0.04% CO₂ in the atmosphere. 95% from natural sources. (0.016% from humans) Up from 0.03% in 1950.

Romans grew grapes in the midlands 1700's record of grapes grown in Yorkshire.

China - solar panels up 10% - new coal power station every week.

Smart Meters





Mk4 devices connect to all devices in the home Help you use electricity more effectively!

Many Smart meters use 3G network!

If cannot contact base shut off the supply.





ANPR – Automatic number plate recognition





Resolution of cameras sufficiently good they can be used for facial recognition!

Some have audio input

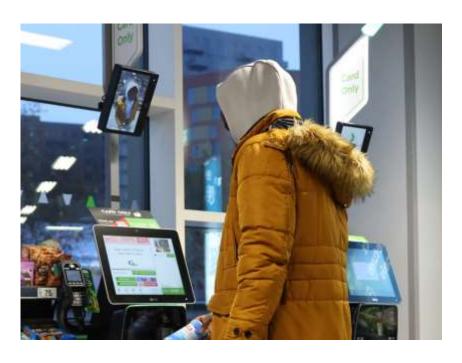
Second camera on mobile units used for facial recognition

Cameras at supermarket checkouts

Asda Sainsburys, Tesco and COOP

The supermarket giants insisted the screens, which show people a live feed of themselves as they pay for their produce, were in place to keep "customers and colleagues safe".

Asda – Data is not kept locally and only held for 48 hours





ANPR – Automatic number plate recognition





Procured all the cameras in April 2022 Consultation May - June 2022

Install started July 2022



LTN = Low Traffic Neighbourhood

Hundreds more planned



Reading Labour group if win on 4th May – aim to reduce car use by 50% in Reading in next 4 years. Defined Reading as north of M4 and south of the Thames. (Radio Berkshire 27/4/23)

15 minute city





Oxford

- Trial 2023 "very successful"
- Traffic gates from Autumn 2023

Canterbury

Southend

Banbury

Bristol

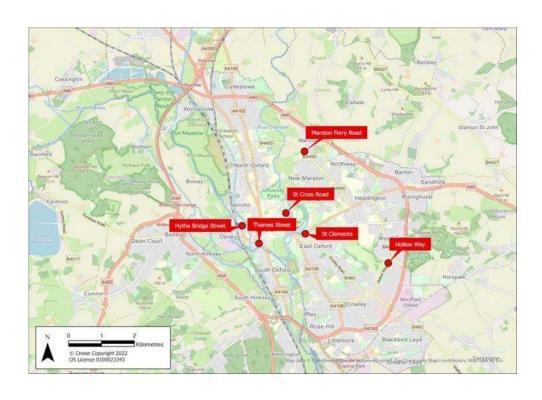
Sheffield

Colchester

Thetford

What is the real agenda?

Putting people at the center of urban transformation



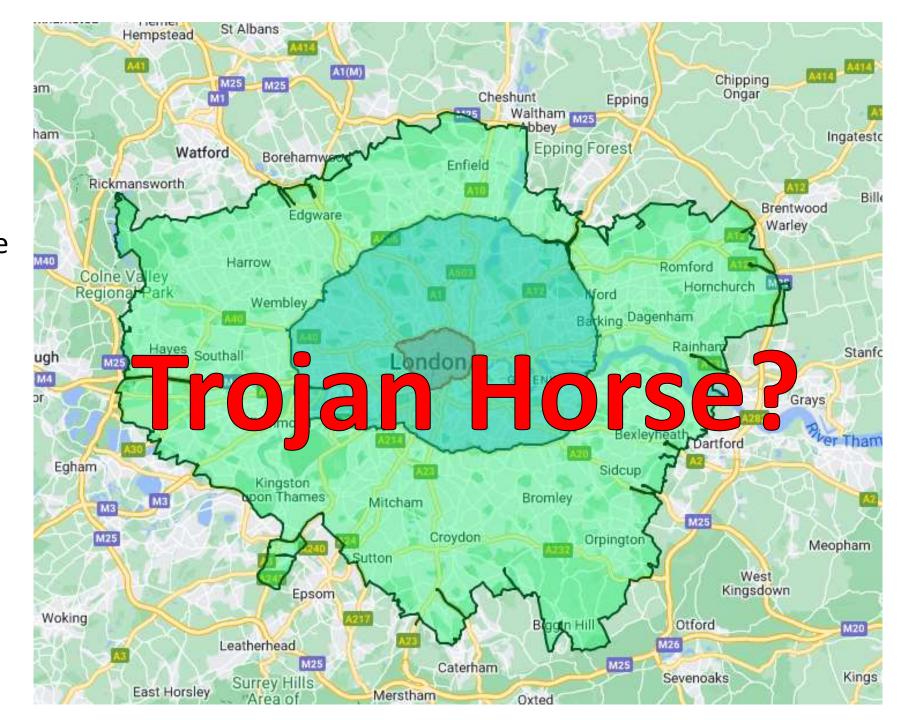
London

Congestion Charge Low emission zone Ultra Low Emission Zone

Sadiq Khan



Plan to extend beyond M25 by end of 2024





Pay-as-you-go parking machines are set to be removed from city streets leaving motorists wrangling with up to 30 smartphone apps to pay charges

- Pay-as-you-go parking machines are set to be scrapped from UK city streets
- The move, due to the end of 3G, leaves motorists at the whim of various apps



Pay-as-you-go parking machines set to be removed from city streets leaving motorists using 30 apps | Daily Mail Online

12th March 2023

London Assembly Transport Committee - 14 December 2022

Transcript of Agenda Item 6 - Road User Charging

Sadiq Khan's pay-per-mile plot: Mayor hatches plan to charge motorists depending on the time of day, how many passengers are in their car and how far they drive in London

'Road use charging is interesting,' he told the Financial Times. 'If you get rid of the congestion charge, get rid of ULEZ, get rid of road tax, and charge people depending on how many miles they drive, how polluting their vehicle is, what time of day they're driving, are there alternatives related to public transport, how many people are in the car, that's potentially quite exciting.

'The problem is the technology's quite a long way off.'

The Mayor last touched on the topic of per-mile charging in February, when he revealed to the London Assembly that ULEZ cameras could be used to enforce the measure.

He told Assembly members: 'ANPR cameras could form part of the potential operation of such a scheme but **no proposals have been developed**.' (10th April 2023)

Sadiq Khan hatches plan to charge London drivers per mile | Daily Mail Online



This project would not have been possible without our funders –Van and Eva DuBose, and our major sponsors, Arup, emovis, Mastercard and the C40 Cities Climate Leadership Group – and we would like to thank them for their generous support.

Van and Eva DuBose — chairs and major funders of Centre for London

Arup — leading development towards a Net Zero world

Emovis - a global leader in toll-based mobility solutions and services.

Mastercard - a leader in global payments and a technology company that connects billions of consumers, thousand of financial institutions, and millions of transactions.

C40 Cities -

The time has come to bring road user charging into the Digital Age

By 2025 London could have a growing number of charging schemes, each with differing:

- Vehicle standards
- · Hours of operation
- Charge amounts
- Payment arrangements



London should replace existing and planned schemes with a single system, which this report calls *City Move*.

City Move would:

- · Charge drivers per mile
- Apply in areas of high demand and poor air quality

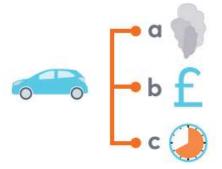
Rates would vary by:

- Vehicle class and emissions
- Local levels of congestion and pollution
- Availability of public transport alternatives



City Move would help people make informed travel choices.

It would be integrated with the rest of the transport system, comparing the costs and impacts of taking the bus, tube, train, car-sharing, taxi hailing, bike hire, cycling, walking, etc.



City Move would bring many benefits:



For users

- Simpler
- Smarter
- Fairer



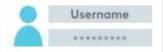
For the city as a whole

- More efficient
- Healthier
- Greener

The technology exists and the Mayor of London has powers required to implement such a scheme.

Cities around the world are beginning to develop *City Move* type schemes. If London wants to remain at the forefront of transport innovation and to create a better urban environment, it needs to act now.

User registers for an account, adding personal and payment details, any vehicle details and link to Oyster or contactless details.





User account receives Mobility Credits upon registration when applicable



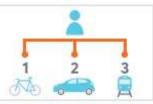


When planning a journey, user inputs journey start and end points





Platform calculates the best routes and presents a number of options, including train, bus, private car, car club, cycling, etc.





Platform compares the journey time, cost, emissions and physical activity impact of each option, and user selects preferred option





User is emailed monthly updates including journey history, itemised billing, emissions impact and activity levels to date







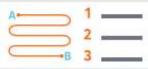
User has the option to find available car or bicycle parking space and pay for it via the app





Any train tickets can be booked in advance, train and tube journeys are paid via Oyster or directly through the app, any driving charge is applied at the end of the journey





Platform produces journey instructions along the route





User has the option to add fellow passengers to the same journey and to split the cost with them





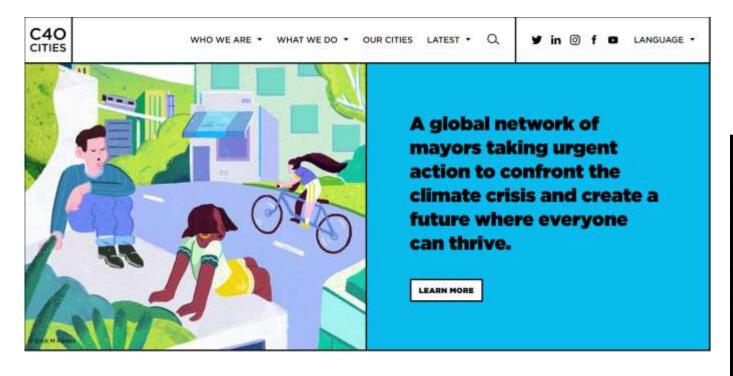
Platform verifies choice by presenting a number of alternatives, e.g. travel an hour later and it would be cheaper; drive to the station, then take the train and it would be faster, etc.

London – 30+ different ways for people to pay for parking

Oyster cards/debit cards

App ready to go – use Mastercard payment system

Based on NHS App

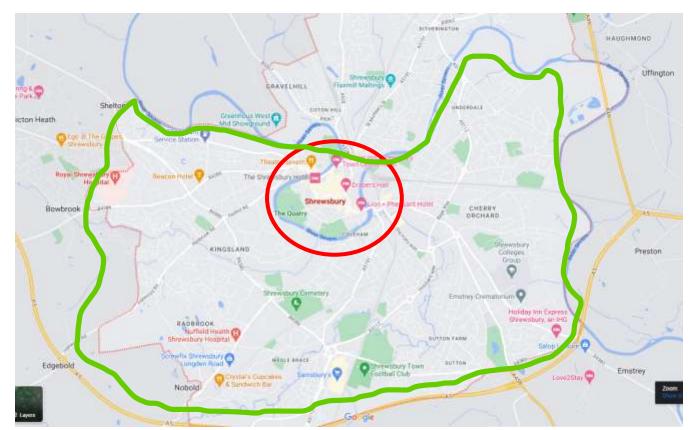






Sadiq Khan - Chairman - 2022 - 2025

Funded by UK government





Shrewsbury

Remove all the roads from town centre by 2025 New Park and ride Electric buses and delivery vehicles only

Extend to south of river Severn to inside A5

Digital ID/ Passport

- facial recognition at airports speed you through on your phone – secure access
- biometrics used in schools no dinner money
- make travel easy (Tony Blair WEF)
 passport + visa
 driving licence always correct, no fines



Based on NHS App

Convenient and safe
Links ALL your data together

Chinese social score!

What is the real agenda?

Implemented on 1st January 2024

Digital ID/ Passport



Wednesday 22nd March - Hansard

MP X

The Leader of the House will no doubt recall that we both ran on a manifesto commitment in 2010 to scrap Labour's plans for identity cards, and we were supported by the electorate on libertarian and privacy grounds. Given that there has been no public consultation on the matter since, can we please have a debate on any Government plans for the introduction of digital IDs, which have recently been trumpeted by Tony Blair, the heir apparent to the World Economic Forum throne and, interestingly, the original proponent of the identity card plans that the electorate rejected at the ballot box?

Leader of the House

I will say two things to the Hon. Gentleman. First, that is our record; it is incredibly important that such matters are debated, but there are no such plans to introduce the measures that he alludes to. Neither, I am afraid, is the mention of the World Economic Forum or some global conspiracy that sits behind all of this remotely accurate or based in fact.

I say to the hon. Gentleman, having seen some of the things that he has put out this week, that—he is very diligent—he might like to do some research as to the origins of some of the things that he has been putting on his Twitter account: for example, that the US Department of Defence is actually responsible for producing covid. The provenance of those falsehoods is Russia and China. If the hon. Gentleman wants to repeat such conspiracy theories and if he believes them, I pity him. If he does not believe them and he is repeating them for another matter, I would ask him to check his behaviour.

What is the real agenda?

Digital ID/ Passport

Friday 24th March – Hansard



MP X

On a point of order, Mr Deputy Speaker. Yesterday, during business questions, I asked the Leader of the House to bring forward a debate on the Government's plans for the introduction of digital IDs. In her response, the right hon. Lady stated that the Government have

"no such plans to introduce the measures" — [Official Report, 23 March 2023; Vol. 730, c. 457.]

that I alluded to. On 4 January 2023, the Cabinet Office published a consultation titled "Consultation on draft legislation to support identity verification". The ministerial foreword to that consultation states:

"This Government has made a commitment to improve the way that data and information is shared and used across the public sector to deliver better, joined up services and exceptional outcomes for our citizens... the government is committed to realising the benefits of digital identity technologies without creating ID cards."

My question yesterday was substantively about digital ID. The Leader of the House's answer was demonstrably factually incorrect. I would welcome your advice as to how the Leader of the House may set the record straight, Mr Deputy Speaker.

Mr Deputy Speaker (Sir Roger Gale)

First, I thank the hon. Gentleman for giving notice of his intention to raise this point of order. He is aware that the contents of answers to parliamentary questions and contributions is not a matter for the Chair. However, I must remind the House that the Government's own ministerial code requires Ministers to correct any inadvertent errors in answers to parliamentary questions at the earliest opportunity. If an error has been made in this instance, I am sure that the Government will seek to correct it as quickly as possible. Of course, the Leader of the House may take the view that there is no inaccuracy.

What is the real agenda?



Policy paper

UK digital identity and attributes trust framework beta version (0.3)

Updated 11 January 2023



In 2021, we published an 'alpha' prototype of the UK digital identity and attributes trust framework - a set of rules and standards designed to establish trust in digital identity in the UK. Over the past 18 months, we have worked with over 250 organisations across civil society, industry, standards bodies, and academia to test whether we've got these rules and standards right.

What is the real agenda?



Civil Service Jobs



BETA Your feedback will help us to improve.

Home Sign in / create an account Cymraeg

Head of Central Bank Digital Currency



HM Treasury

Apply before 11:55 pm on Tuesday 7th February 2023

Apply now

Reference number

263804

Salary

£61,260 - £66,500

£61,260 - £63,500 (National), £64,260 - £66,500 (London). If the successful candidate is a current Civil Servant joining on level transfer, HM Treasury will honour their current substantive salary if higher

Job grade

Grade 6 E2

Contract type

Permanent Secondment

Length of employment

24 months

Contents

Location

About the job

Benefits

Things you need to know

Apply and further information

Location

The post can be based in London (1 Horse Guards Road) or Darlington (Feethams House).

About the job

Job summary

About HM Treasury

If you're interested in making a difference to people's lives across the country, the Treasury is the department for you! We sit at the centre of everything that the Government does and have provided advice on

Money

US Digital Dollar

1st April – become a recognised currency

23rd April – Commercial digital accounts

(23rd April – alarm test)

UK Digital Pound

23rd August 2023– become a recognised currency

1st October 2023 – Commercial digital accounts

23rd December 2023 – Personal accounts available

DATES MAY BE PUSHED BACK – 29/4/23 for operational reasons

Joining up the dots Money

UK Digital Pound



From 1st January 2024 – Universal Credit paid into new digital accounts

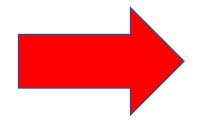
Control how it is spent, so it cannot be spent on un necessary things!

- Housing, utilities, transport (certain)
- prevent money laundering

Other benefits later on any be paid this way.

WEF - World Economic Forum





Klaus Schwab's vision of a post-COVID world, and how the economy can work with nature - The Great Reset podcast





We must maximise the use of technology to develop a safe society

WEF – World Economic Forum

Tony Blair calls for digital libraries to track vaccines - 'You need the data, you need to know'

vahoo!news













Tony Blair: "You need the data: you need to know who's been vaccinated and who hasn't been." (World Economic Forum)

Tony Blair has called for digital libraries that can record the vaccination status of people around the world in future pandemics.



Blair's call is the latest of several that he and his nonprofit, The Tony Blair Institute for Global Change, have made for an expansion of mandatory digital surveillance infrastructure.

His institute has called for digital IDs and said increased surveillance is a "price worth paying." Blair himself has also called for mandatory vaccine passports.

digital ID. It has proposed a system that monitors online behavior, biometrics, purchases, and more to determine access to a wide range of services.

WHO – World Health organisation



Intergovernmental Negotiating Body

3–6 April 2023





FIFTH MEETING OF THE INTERGOVERNMENTAL NEGOTIATING BODY TO DRAFT AND NEGOTIATE A WHO CONVENTION, AGREEMENT OR OTHER INTERNATIONAL INSTRUMENT ON PANDEMIC PREVENTION, PREPAREDNESS AND RESPONSE Geneva, 3–6 April 2023

Two documents of concern:-

- International Health Regulations
- Pandemic Prevention, Preparedness and Response

WHO – World Health organisation



Proposals received modifications from 33 nations – Ratification of International Health Regulations (IHR)in May 2023 at 76th World Health Assembly:-

- 1. WHO move from advisory to governing with statutory proclamations.
- 2. IHR expanded to include situations with potential impact on health, pandemic, environmental, economic.
- 3. Remove respect for dignity, human rights and fundamental freedoms
- 4. Director General control over health pandemic products and require states to supply those products as directed
- 5. Authority to require medical examinations, proof of prophylaxis, vaccine status, contact tracing, quarantine and treatment
- 6. Implement a system of global health records in digital or paper format including treatment, vaccine recovery, certificates, passenger locator forms, travellers health declaration. Local and international
- 7. Disclosure of personal health data
- 8. WHO capacity to censor mis and dis-information
- 9. Obligation to build and maintain IHR infrastructure at points of entry.

WHO – World Health organisation





The WHO Pandemic Preparedness Treaty The next pandemic may be health, financial, environmental or digital.

Bill Gates – ready for the next pandemic in 2024

Treaty Document updated 18th May 2023

WHO – World Health organisation



Who funds WHO? Q4 2021 Income = \$7,583,258,000

Total 2021 ~ \$28 billion

| Germany | 17.13% |
|-----------------------------------|--------|
| Bill and Melinda Gates Foundation | 9.49% |
| USA | 7.15% |
| EU | 6.53% |
| GAVI Alliance | 6.43% |
| UK | 5.99% |
| UN | 4.20% |
| World Bank | 2.54% |

Who is GAVI?

Global Alliance for Vaccine Immunisation







Global Alliance for Vaccine Immunisation



The new health product for

Experimental Medical Intervention

Pfizer Report January 2021



Nonclinical Evaluation Report

BNT162b2 [mRNA] COVID-19 vaccine (COMIRNATYTM)

Submission No: PM-2020-05461-1-2

Sponsor: Pfizer Australia Pty Ltd

January 2021

mRNA – spreads to vital organs in the body in 24 hours

Did not prevent infection transmission.

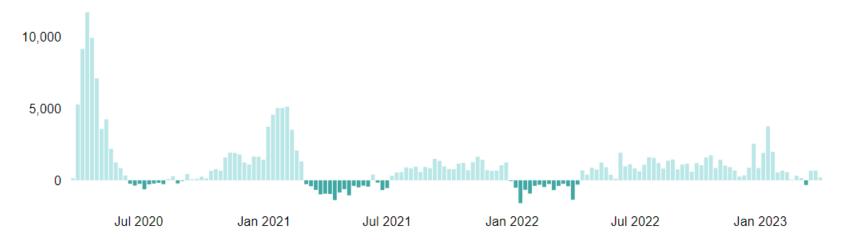
Possible Cytokine Storm

Shingles – adverts! why

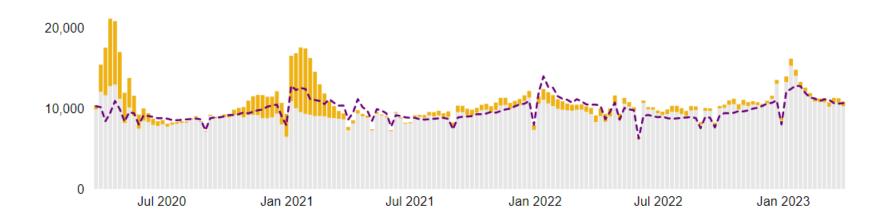
Excess Mortality in England by Age Group

Date Range (week ending): 27/03/2020 to 31/03/2023

Weekly Excess Deaths by Date of Registration, Persons (All), England



Weekly Registered Deaths, Persons (All), England

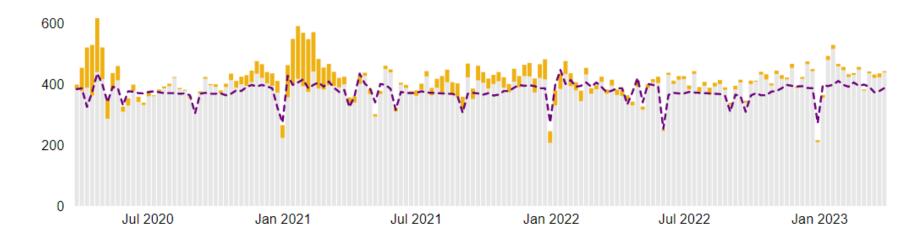


31st March 2023





Weekly Registered Deaths, Persons (25-49), England



We connect life sciences and healthcare companies to patients to help them provide the drugs, devices, and services people need. Our industry expertise combined with advanced technology and analytics transform operations to improve patient experience and outcomes while lowering the cost of care.

UK Yellow card scheme

Comonwealth Data Solutions - Al monitoring of yellow card data

Major shareholder Genpact

Genpact funded by Astra Zeneca and Pfizer

Revelation 6

First Seal: The Conqueror (by deception)

¹ Now I saw when the Lamb opened one of the seals; and I heard one of the four living creatures saying with a voice like thunder, "Come and see." ² And I looked, and behold, a white horse. He who sat on it had a bow; and a crown was given to him, and he went out conquering and to conquer.

Second Seal: Conflict on Earth (ethnic)

³ When He opened the second seal, I heard the second living creature saying, "Come and see." ⁴ Another horse, fiery red, went out. And it was granted to the one who sat on it to take peace from the earth, and that *people* should kill one another; and there was given to him a great sword.

Third Seal: Scarcity on Earth (famine)

⁵ When He opened the third seal, I heard the third living creature say, "Come and see." So I looked, and behold, a black horse, and he who sat on it had a pair of scales in his hand. ⁶ And I heard a voice in the midst of the four living creatures saying, "A quart of wheat for a denarius, and three quarts of barley for a denarius; and do not harm the oil and the wine."

Fourth Seal: Widespread Death on Earth (wars, sudden death, plague)

⁷When He opened the fourth seal, I heard the voice of the fourth living creature saying, "Come and see." ⁸So I looked, and behold, a pale horse. And the name of him who sat on it was Death, and Hades followed with him. And power was given to them over a fourth of the earth, to kill with sword, with hunger, with death, and by the beasts of the earth. (plague/sickness)

Fifth Seal: The Cry of the Martyrs

⁹ When He opened the fifth seal, I saw under the altar the souls of those who had been slain for the word of God and for the testimony which they held. ¹⁰ And they cried with a loud voice, saying, "How long, O Lord, holy and true, until You judge and avenge our blood on those who dwell on the earth?" ¹¹ Then a white robe was given to each of them; and it was said to them that they should rest a little while longer, until both *the number* of their fellow servants and their brethren, who would be killed as they *were*, was completed.

Sixth Seal: Cosmic Disturbances

¹²I looked when He opened the sixth seal, and behold, there was a great earthquake; and the sun became black as sackcloth of hair, and the moon became like blood. ¹³ And the stars of heaven fell to the earth, as a fig tree drops its late figs when it is shaken by a mighty wind. ¹⁴ Then the sky receded as a scroll when it is rolled up, and every mountain and island was moved out of its place. ¹⁵ And the kings of the earth, the great men, the rich men, the commanders, the mighty men, every slave and every free man, hid themselves in the caves and in the rocks of the mountains, ¹⁶ and said to the mountains and rocks, "Fall on us and hide us from the face of Him who sits on the throne and from the wrath of the Lamb! ¹⁷ For the great day of His wrath has come, and who is able to stand?"

Revelation 6

First Seal: The Conqueror (by deception)

Second Seal: Conflict on Earth (ethnic cleansing)

Third Seal: Scarcity on Earth (famine)

Fourth Seal: Widespread Death on Earth (wars, sudden death, plague)

Fifth Seal: The Cry of the Martyrs

Sixth Seal: Cosmic Disturbances, massive earthquakes etc

Matthew 24

- ³ As Jesus was sitting on the Mount of Olives, the disciples came to him privately. "Tell us," they said, "when will this happen, and what will be the sign of your coming and of the end of the age?"
- ⁴ Jesus answered: "Watch out that no one deceives you. ⁵ For many will come in my name, claiming, 'I am the Messiah,' and will deceive many.
- ⁶ You will hear of wars and rumours of wars, but see to it that you are not alarmed. Such things must happen, but the end is still to come. ⁷ Nation will rise against nation, and kingdom against kingdom. There will be famines and earthquakes in various places. ⁸ All these are the beginning of birth pains.
- ⁹ "Then you will be handed over to be persecuted and put to death, and you will be hated by all nations because of me. ¹⁰ At that time many will turn away from the faith and will betray and hate each other, ¹¹ and many false prophets will appear and deceive many people. ¹² Because of the increase of wickedness, the love of most will grow cold, ¹³ but the one who stands firm to the end will be saved. ¹⁴ And this gospel of the kingdom will be preached in the whole world as a testimony to all nations, and then the end will come.

James 1

⁵ If any of you lacks wisdom, let him ask of God, who gives to all liberally and without reproach, and it will be given to him.

1 Corinthians 12

⁷ But the manifestation of the Spirit is given to each one for the profit of all: ⁸ for to one is given the word of wisdom through the Spirit, to another the word of knowledge through the same Spirit, ⁹ to another faith by the same Spirit, to another gifts of healings by the same Spirit, ¹⁰ to another the working of miracles, to another prophecy, to another discerning of spirits, to another different kinds of tongues, to another the interpretation of tongues. ¹¹ But one and the same Spirit works all these things, distributing to each one individually as He wills.

Revelation 13

¹¹ Then I saw another beast coming up out of the earth, and he had two horns like a lamb and spoke like a dragon. ¹² And he exercises all the authority of the first beast in his presence, and causes the earth and those who dwell in it to worship the first beast, whose deadly wound was healed. ¹³ He performs great signs, so that he even makes fire come down from heaven on the earth in the sight of men. ¹⁴ And he deceives those who dwell on the earth by those signs which he was granted to do in the sight of the beast, telling those who dwell on the earth to make an image to the beast who was wounded by the sword and lived. ¹⁵ He was granted *power* to give breath to the image of the beast, that the image of the beast should both speak and cause as many as would not worship the image of the beast to be killed. ¹⁶ He causes all, both small and great, rich and poor, free and slave, to receive a mark on their right hand or on their foreheads, ¹⁷ and that no one may buy or sell except one who has the mark or the name of the beast, or the number of his name.

¹⁸ Here is wisdom. Let him who has understanding calculate the number of the beast, for it is the number of a man: His number is 666.

2 Timothy 1:7

For God has not given us a spirit of fear, but of power and of love and of a sound mind.

Philippians 4

⁶ Be anxious for nothing, but in everything by prayer and supplication, with thanksgiving, let your requests be made known to God; ⁷ and the peace of God, which surpasses all understanding, will guard your hearts and minds through Christ Jesus.

What is the real agenda?

CONTROL

One world Government – The Great Reset

Own nothing and be happy

What is the real agenda?

How will we deal with the storm now upon us?

Have you been changed and know Jesus as your saviour and Lord?

Do you know the gifts of the Holy Spirit moving in our lives?

Are we in the right place with God, are you ready?