$$N = R^* \times f_p \times n_e \times f_l \times f_i \times f_c \times$$

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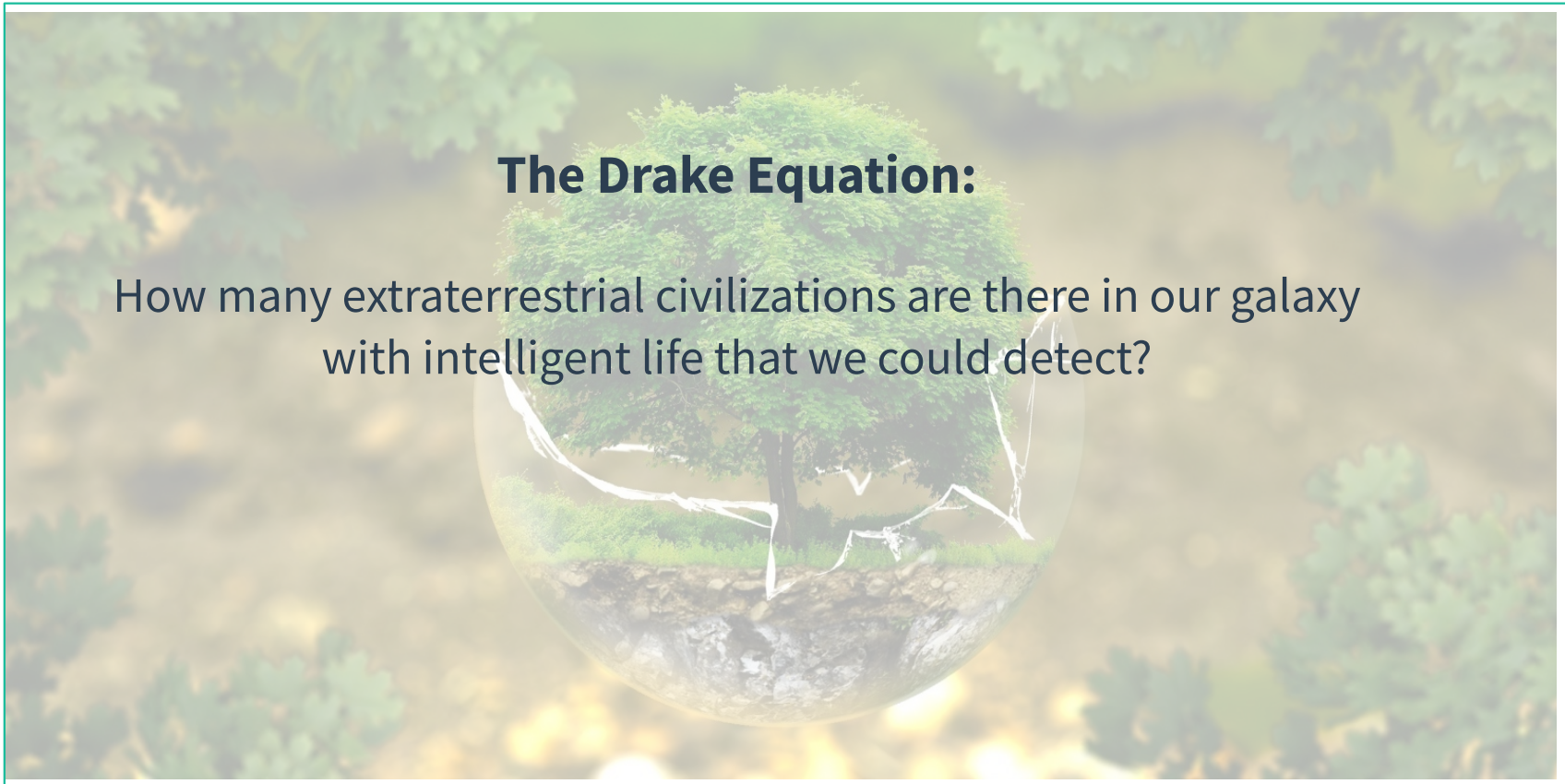
$$N = R^* \times f_p \times n_e \times f_l \times f_i \times f_c \times L$$

essentiell

essential “L”

essentiell.org

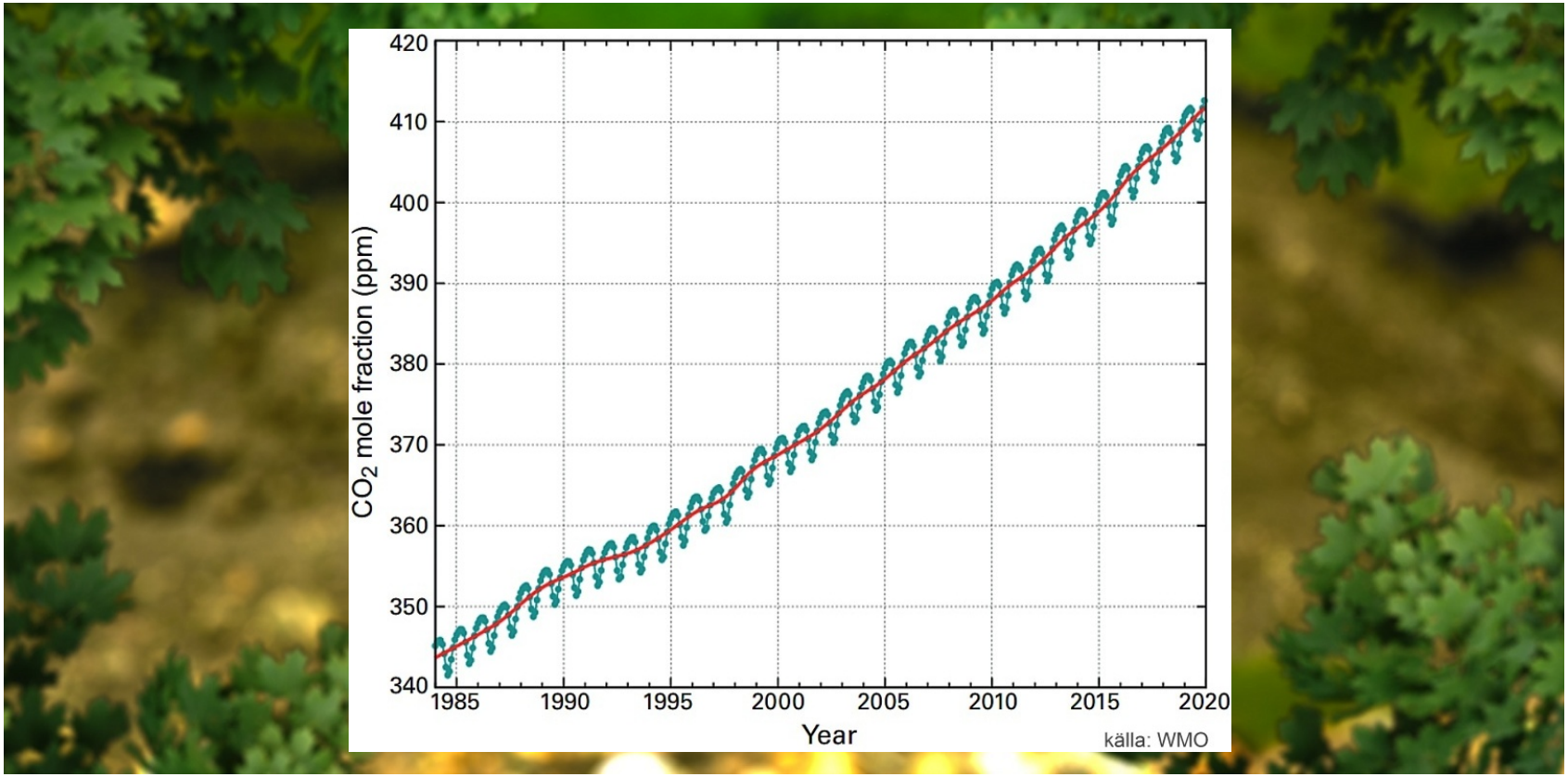
Drake equation



Are we stupid?

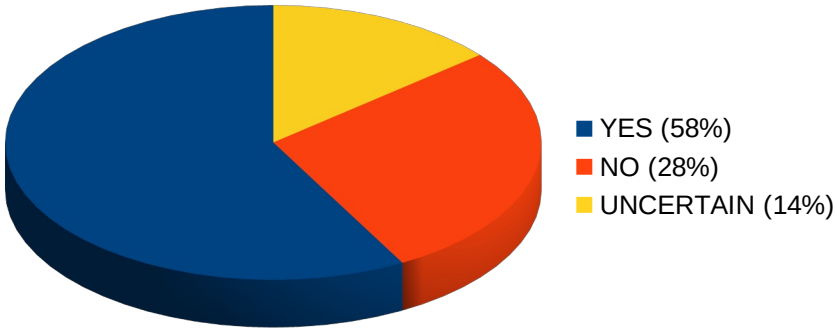


Are we stupid?

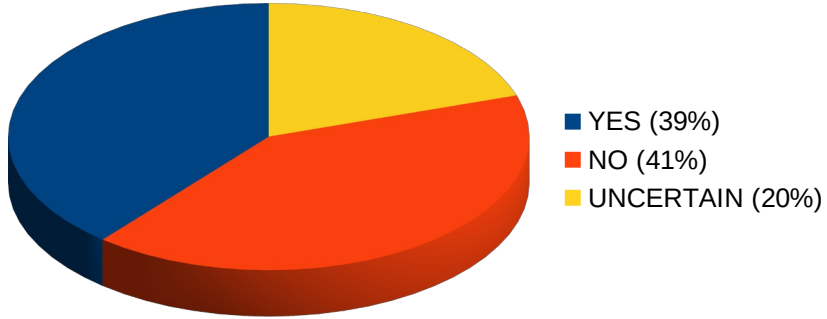


Global warming?

Europe



USA



Global warming?



Conspiracy theories

We will get back to Global Warming but first a section about conspiracy theories…

Conspiracy theories

We will get back to Global Warming but first a section about conspiracy theories…

Vaccines

- A way to control people
- Cause - autism, heart attacks, strokes, auto-immune diseases etc…
- Contains only things that make you worse (micro-chips etc)
- …and they don’t work. People are even more sick than before

More conspiracy theories…

- **Moon landing did never happen!**
- **Earth is flat and not a globe!**
- **The Holocaust never happened!**
- **Science is fake and an ideology run by the deep-state!**
  - Science is also very easy and conclusions can be drawn from children's books
- **QAnon, USA is governed by a pedophilia network.**
- **The democrats and Biden cheated in election 2020.**

Who believes in conspiracy theories?

To believe in conspiracy theories is at least in part a cultural and socioeconomic phenomenon.

- Education level - must have a basic level of education to understand phenomena in the world around us.
- Socioeconomically – Work to survive and also importance/need of belonging to a group is more important than "facts"
- Culturally/ideology – Someone to "blame" → "*the neighbor village has bewitched our crops*", "*a deep-state that control why I'm poor*" etc...

If we focus on the conspiracy theories in the so-called developed world…

→ …who believes in conspiracy theories?

Who believes in conspiracy theories?

Let’s gather 100 people...



Who believes in conspiracy theories?



Who believes that its fake news that we have Global warming or if we have a Global warming, it’s not caused by man and is a normal variation?

Who believes in conspiracy theories?



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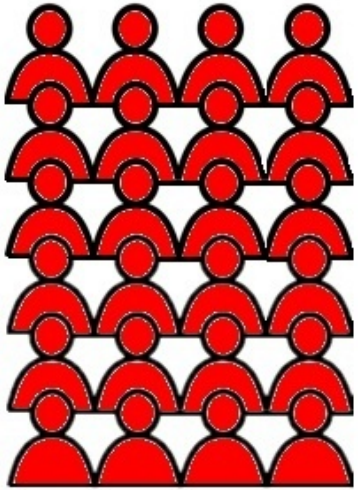

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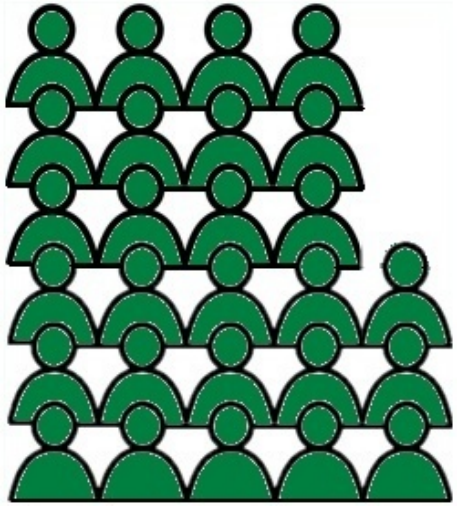

We don’t

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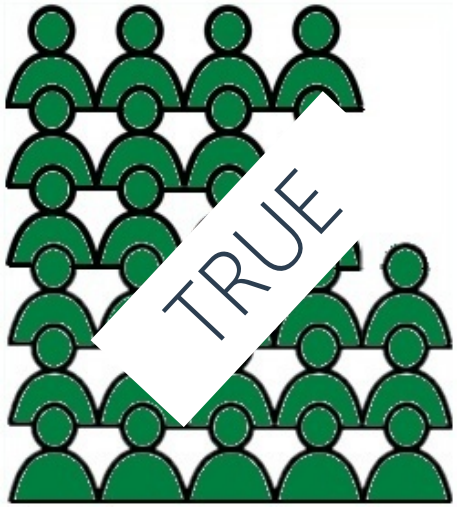

We don't

https://climatecommunication.yale.edu/app/uploads/2017/01/Climate-Change-American-Mind-November-2016.pdf

Who believes in conspiracy theories?



Who believes the 2020 election was rigged by the democrats and the Biden administration?

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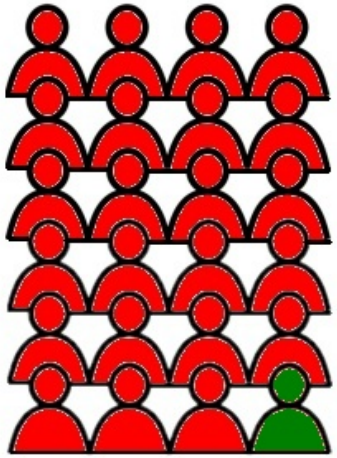

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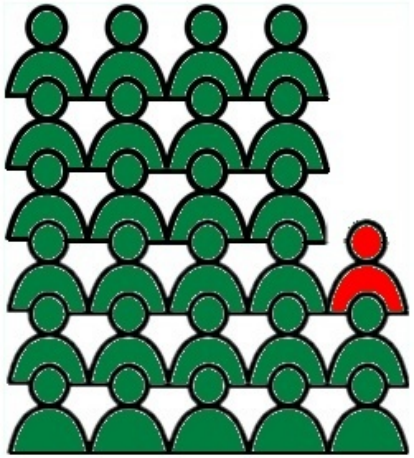

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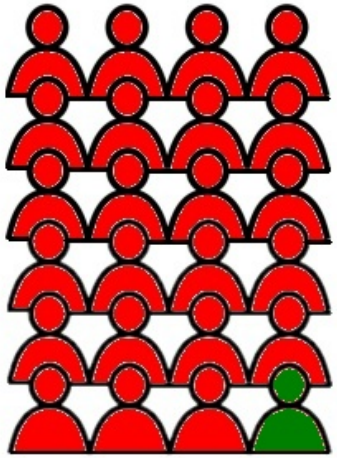

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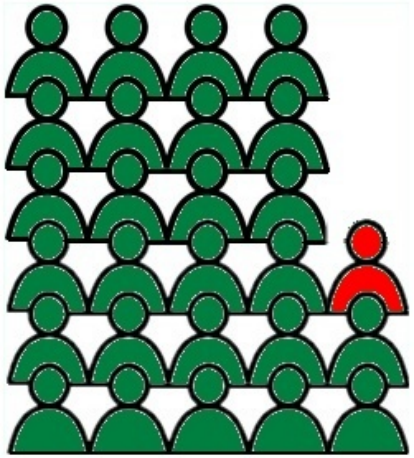

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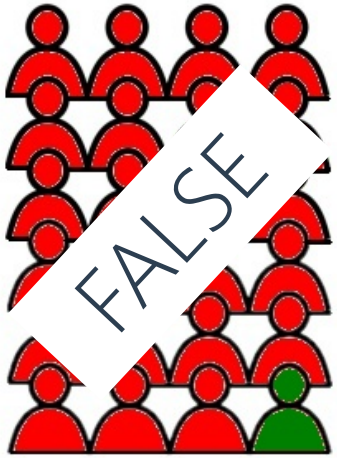

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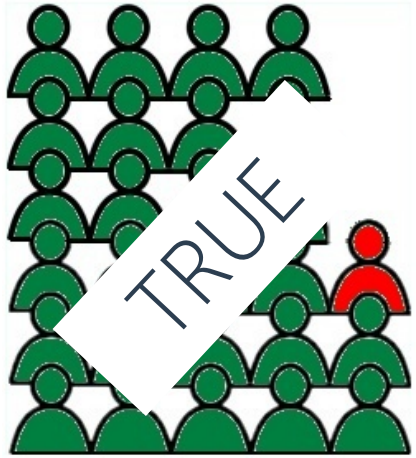

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Who believes in conspiracy theories?



Who believes that it's **possible** that the liberals and the media are allies in a conspiracy to control people and maintain in power via a deep-state pedophilia network (QAnon)?

https://www.forbes.com/sites/tommybeer/2020/09/02/majority-of-republicans-believe-the-qanon-conspiracy-theory-is-partly-or-mostly-true-survey-finds/#bf63be852131d

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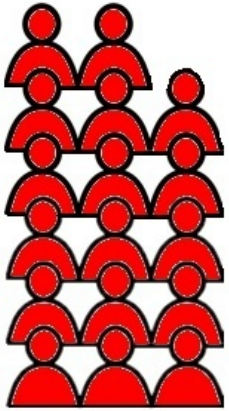

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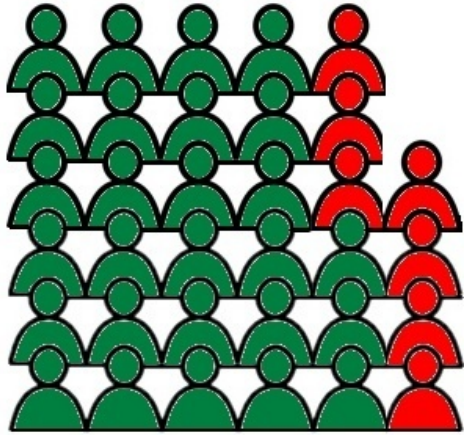

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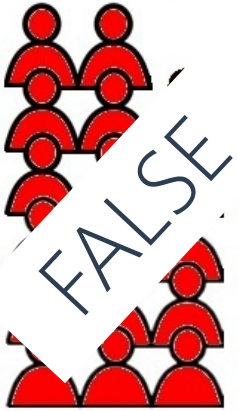

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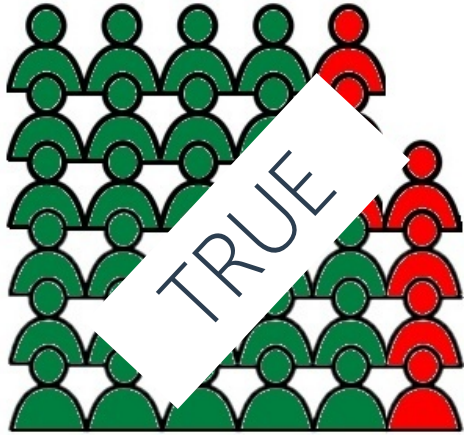

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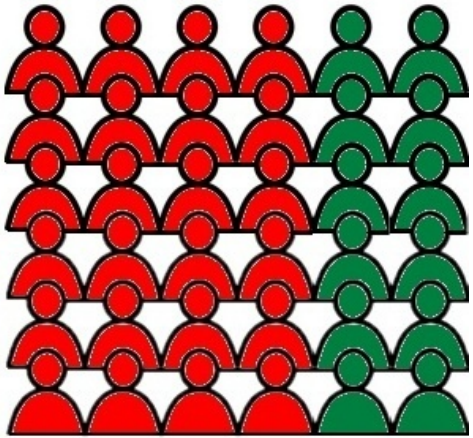

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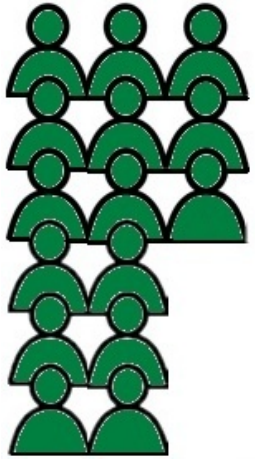

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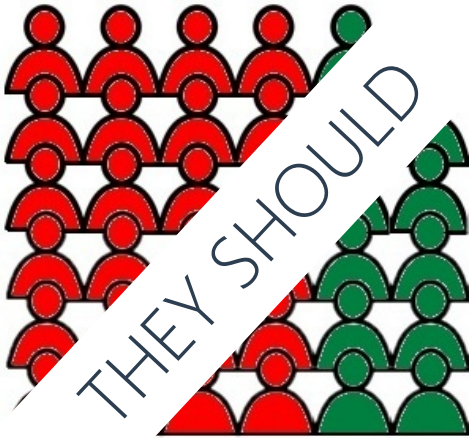

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Who believes in conspiracy theories?



Who believes that scientists' decision-making is no better than other people's? (I.e. "common sense" works just as well as scientists' theories, often referred to as **"they"** or "their" theories)

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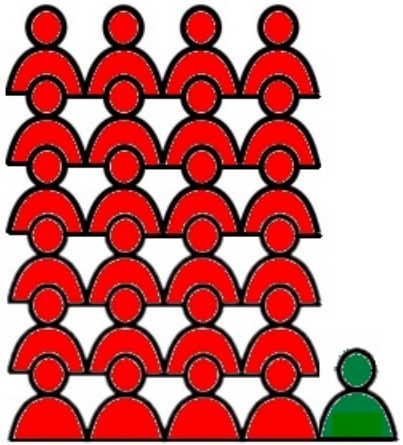

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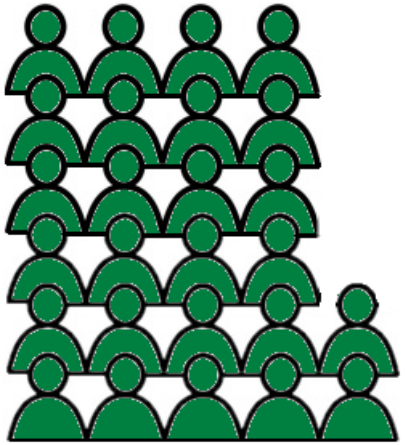

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Who believes in conspiracy theories?

Just a tangent addressing ”they”



https://youtu.be/XRMqhYXr5TY?si=Fq0wAv75yZoBx2wJ

Who believes in conspiracy theories?

Just a tangent addressing ”they”

”They” are a very common pronoun objectification in conspiracy theory circles.
It is always unspecified and refers colloquially to either an unspecific group in the field that the person see the conspiracy in or a general “they” that runs all conspiracies all together.
I.e. the so-called ***Deep state.***
Regardless, if you hear a ”they” that hide things, always be extra observant of the message and content. It is in the extreme majority of cases someone addressing issues that they are not educated or qualified to speculate on, so they must refer to the unspecified group of ”they”

SNT essentiell

https://youtu.be/XRMqhYXr5TY?si=Fq0wAv75yZoBx2wJ

Who believes in conspiracy theories?



Moving on…

Which of you believe that vaccines are just a way to make big-pharma make money with no other health benefits **and** even worse, to plant micro-chips into humans to control them?

https://www.businessinsider.com/20-of-americans-believe-microchips-in-covid-19-vaccines-yougov-2021-7 / https://docs.cdn.yougov.com/w2zmwpzsq0

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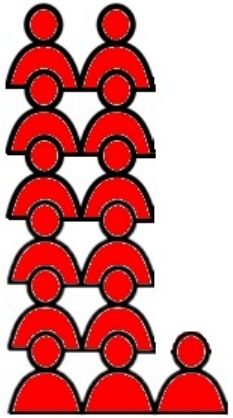

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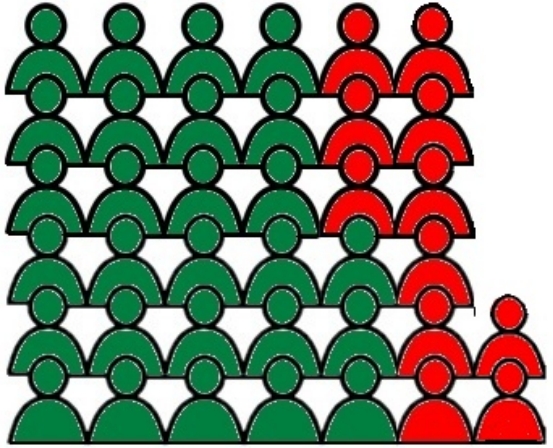

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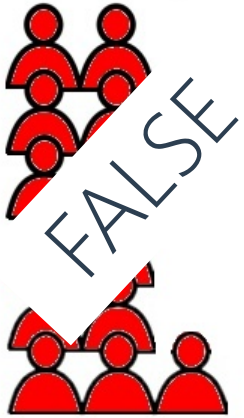

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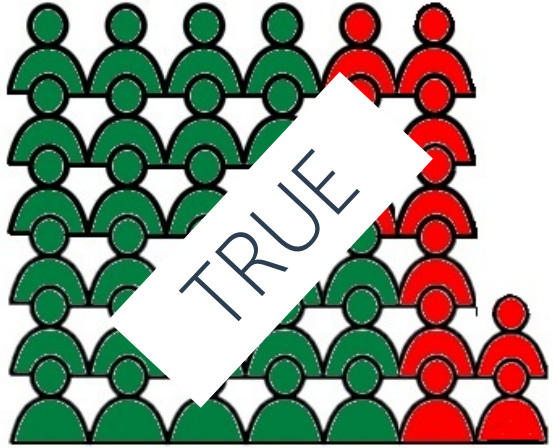

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Who believes in conspiracy theories?



How many are susceptible to authoritarian leadership? (rather than democratic leadership and values). N.B., authoritarian leadership is globally represented by leaders such as: Putin, Bolsonaro in Brazil, Orban in Hungary, Salvini in Italy, Netanyahu in Israel and France's Marin LePen

Who believes in conspiracy theories?



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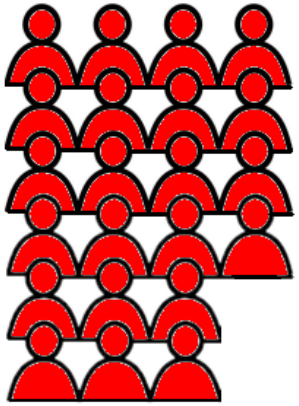

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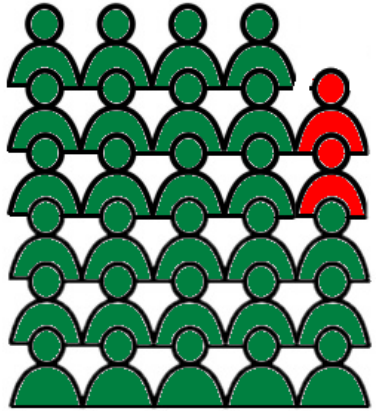

We are not.

https://prri.org/press-release/survey-four-in-ten-americans-are-susceptible-to-authoritarianism-but-most-still-reject-political-violence/

Who believes in conspiracy theories?



The ones that voted for Trump in the 2024 election, stand to the left and those of you that voted for Kamala Harris, stand to the right

Who believes in conspiracy theories?



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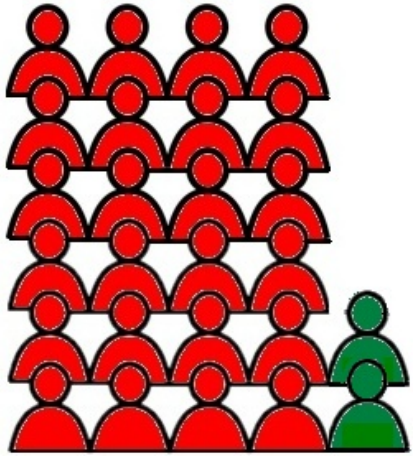
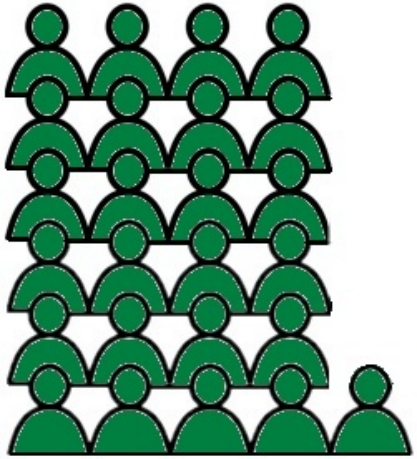


Trump



Harris

Who believes in conspiracy theories?



Those of you that have a high school degree or less stand to the left and those with a college degree or higher stand to the right.

Who believes in conspiracy theories?



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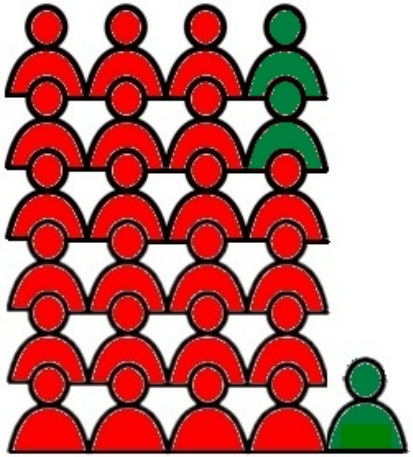
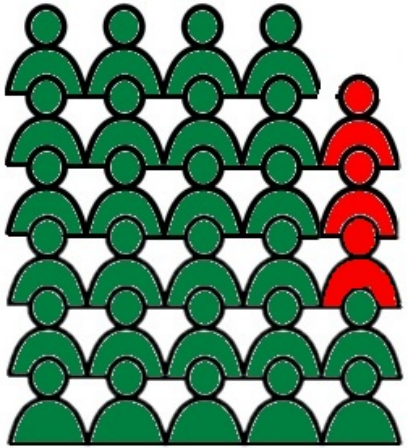


At most, HighSchool



College or more

https://www.legistorm.com/stormfeed/view_rss/2868399/organization/69381/title/census-bureau-releases-new-educational-attainment-data.html

Who believes in conspiracy theories?



Even though the “*header*” states ”Who believes in conspiracy theories”, given the questions we could just as well have written ”...conspiracy theories **or false information as in *fake-news*?**

http.www.essentiell.org/images/average_liberal.png

Who believes in conspiracy theories?



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There is obviously a tendency for less educated, right-wing conservatives that are prone for believing stuff that simply isn’t true.

http.www.essentiell.org/images/average_liberal.png

Who are decent?



Those who **support** gay rights, universal health care, paid sick- and parental leave, supporting aid to developing countries, free child care, free schools system– **stand to the right and vice versa**.

Who are decent?



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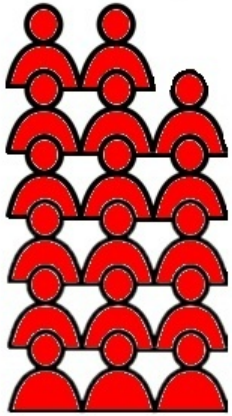
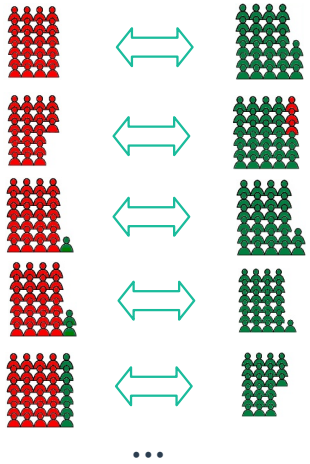


We don't (on average)



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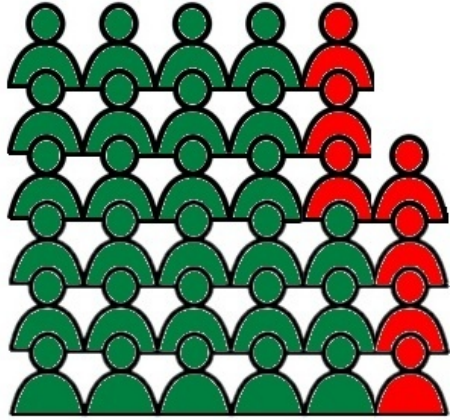

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Who are decent?



Lets introduce the term **decency** (as opposed to indecency).

Synonyms?

Who are decent?



Lets introduce the term **decency** (as opposed to indecency).

Synonyms?

Respect?

Civility?

Empathy?

Consideration?

Generosity?

Solidarity?

essentiell

Who are decent?



Lets introduce the term **decency** (as opposed to indecency).

Synonyms?	Antonyms?
Respect?	Meanness
Civility?	Rudeness/Bad manners
Empathy?	Narcissistic tendencies
Consideration?	Ignorance
Generosity?	Greed/Meanness
Solidarity?	Separation/polarization

Who are decent?



Lets introduce the term **decency** (as opposed to indecency).

So trying to manifest an ideology or political orientation from these ideas, where would we land as a society?

Synonyms?	Antonyms?
Respect?	Meanness
Civility?	Rudeness/Bad manners
Empathy?	Narcissistic tendencies
Consideration?	Ignorance
Generosity?	Greed/Meanness
Solidarity?	Separation/polarization

- An inclusive society as opposed to a polarized where neither skin tone nor sexual orientation should be labeled inferior.
- A generous society where cost of health care and school and sickness should not infringe on someones personal economy or prosperity. I.e. even if you end up paying more to welfare systems than you get, that's fine. (maybe it will be the other way around for your daughter)
- A solidary society where you contribute progressively to the public expenses after your capacity and where wealth is not accumulated with a few.
- An empathetic society where you take care of, sick, elderly and disadvantaged people without expect anything in return.
- A respectful society where we don't make fun of or look down on someone with another skin tone, a disability or with another sexual orientation.
- A society where all have the same right to higher education regardless of income.

Who are decent?



Ideology of decency?

- Freedom to marry and love who you want, regardless of: gender, culture or race
- Paid sick leave
- Paid parental leave
- Supporting aid to developing countries
- Universal health care
- Free child care
- Free school system

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Given previous definitions, can we agree that this is a ***decent*** society?

Who are decent?



This is interesting since one would have presumed that different conspiracy ideas and stand points on decency issues - would be randomly distributed in society.

Given the previous separation of ”red” and ”green” groups starting with the question of the validity of Global Warming, the same separation seem to hold even for (in)decency

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* around 30% for US population

Who are decent?



This is interesting since one would have presumed that different conspiracy ideas and stand points on decency issues - would be randomly distributed in society.

I.e. why is it the ***same*** people* that adhere to the beliefs that both objectively are “FALSE” and in addition, adhere to values that are “INDECENT?”

Isn’t this tremendously interesting?

* around 30% for US population

Who are decent?





So we seem to have a considerable fraction (slightly less than ½) of humanity* that are:

- consistent and **homogeneous**
- prone to **FALSE** (conspiracy) theories or ideas
- **fact resistant** (do not accept anything than from either common sense or their media with same description of reality)
- Seem to consistently adhere to **indecent ideologies.**
- have an inherent need to **spread these conspiracy theories.**

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* An extrapolation from the US data

The Indecent



If we look at the type of “FALSE” ideas or conspiracy theories:

<u>INDECENT (false) theories</u>

- Holocaust deniers
- Climate skeptics
- QAnon
- Science skeptics
- Anti-vaccine

<u>”Harmless” (false) theories</u>

- Flat earth
- Moon landing deniers
- Murder JFK => CIA

etc...



The INDECENT

This is one of the key points brought up on the site and we refer to more in-depth data on the main site. www.essentiell.org

There, is also an analysis of the effect of having ½ of humanity that are indecent and what things we can do to mitigate the implications of that fact.

Global Warming

We return to where we began this slide show..

Global Warming

Global Warming

We return to where we began this slide show..

Global Warming

How can the global climate models correctly predict a Global warming caused by man when:

- the coldest local temperature ever was recorded as late as 2010?
- the warmest local temperature ever was recorded in 1913?
- these same models have previously been shown to be wrong?
- both CO_2 and global temperatures have been much higher in earths history? (i.e NORMAL!)
- ice sheets in the polar regions are growing, not shrinking?

Global Warming

These are some of the questions or ambiguities that climate skeptics usually address in the public debate about Global warning.

Global Warming

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- The coldest local temperature ever was recorded as late as 2010!
- The warmest local temperature ever was recorded in 1913!
  (Shouldn't it be the other way around and going from coldest to warmest if we have a global warming?)
- Climate models have previously been shown to be wrong!
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- Climate models have previously been shown to be wrong!
- Both CO_2 and global temperatures have been ***much*** higher in earths history, hence normal!
- Ice sheets in the polar regions are growing, not shrinking!

This seems strange when the consensus in the scientific community unequivocally say we have a global warming! **Is it true?**

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Global Warming

YES, it is actually very true!

Have anyone heard of a so-called ”straw man”?

It’s a rhetoric expression in philosophy for a counter argument proposed by one side in a debate that is either completely false or focusing on outliers in the initial argument that the other side aren’t even trying to make.

Implied that this argument is either easier to defend or the vice versa, easier to argue against.

Global Warming

An example could be the following in an argument:

Person 1 says – Water is essential for humans. If we don't have access to water we die.

Person 2 counter with – I don't agree and how would that look like? If we only have water surrounding the earth we would be forced to swim everywhere...and how would it even be possible to live somewhere?

Global Warming

An example could be the following in an argument:

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Person 2 counter with – I don't agree and how would that look like? If we only have water surrounding the earth we would be forced to swim everywhere...and how would it even be possible to live somewhere?

So, what's the ”straw man” here?

Global Warming

It’s important to recognize that **both** persons are correct in their respective assessments.

Person 2 , however argues as if person 1 necessarily implies that just because water is essential, we have to drown the earth with water.

This is an argument Person 1 neither hold nor imply.

Hence, the argument of person 2 (although true) is a *straw man* since it’s not an argument that person 1 holds.

Global Warming

It’s important to recognize that **both** persons are correct in their respective assessments.

Even though this example was made very obvious, the phenomena of *straw manning* is something important to recognize in argumentation in not only conversational social media but in news media in general.

It’s very common in *far-right* and *-left* media platforms.

So…

Global Warming

What about the facts that the **coldest** temperature ever recorded was in **2010** and vice versa, the **hottest** temperature ever recorded was in **1913**. And these facts are evidence for us ***not*** having a Global warming and rising Global annual temperatures ?

Is that a straw man?

Global Warming

What about the facts that the **coldest** temperature ever recorded was in **2010** and vice versa, the **hottest** temperature ever recorded was in **1913**. And these facts are evidence for us ***not*** having a Global warming and rising Global annual temperatures ?

Is that a straw man?

Yes, its true...and **yes** it's a straw man.

Global Warming

A **local** extreme and a single value in temperature for a given day is vastly different from a **global average** over a year.

A person who use this *straw man* is either not aware of the difference between *local* and *global* or isn't familiar with the concept of *average* OR is willfully mixing the concepts so that his or hers argument looks better.

The fact that a local geographic location in Antarctica happen to have an all time low on August of 2010, has of course nothing to do with a measurement of the average *Global* temperatures annually.

Global Warming

Same for the hottest temperature as late as in 2010, is that a straw man?

Global Warming

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Again, its true...and **yes** it's a straw man.

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The fact that a specific location in Death Valley, California have an all time high on July of 1913, has of course nothing to do with a measurement of the average *global* temperatures annually, seen in a long term perspective.

Global Warming

What about the fact that Climate models have been shown to be wrong and show miscalculated predictions?

Global Warming

What about the fact that Climate models have been shown to be wrong and show miscalculated predictions?

Completely true also.

Machine learning and computational models of the effects of a Global warming and rising sea levels between the years 2011 and 2012 **were wrong.**
The predicted rise of sea levels were 17mm but were in reality 13 mm.

The year before however it was the opposite:
A predicted sea rise level of 12mm was in fact 15mm.

Global Warming

What about the fact that Climate models have been shown to be wrong and show miscalculated predictions?

So yes, the models were in fact wrong in the details (and not only for the years mentioned) but it's still a *straw man* since ***the overall trend were correctly predicted.***

The research behind Global Warming has never claimed that the models are error-free. After all, models are supposed to make **predictions** with the absolute best available data, of course they can't be exactly accurate all the time.

Note that the models still predict continuous increases but miss by millimeters.
Would this contradict the entire theory of Global Warming? Nonsense of course!

Global Warming

What about the ice sheets in the polar regions are growing, not shrinking!

Is that a a fact and a straw man?

What about the ice sheets in the polar regions are growing, not shrinking!

Yes it's true but also a straw man.

If you focus on the years 2016 and 2017, the ice sheets actually grew in the eastern parts of Antarctica.

However, in general and ***globally***, Ice sheets, especially in the northern Arctics, are shrinking fast. But also in Antarctica ice sheets are shrinking as a whole.

Global Warming

What about the ice sheets in the polar regions are growing, not shrinking!

So as an argument from Global warming skeptics, it's true in an objective way (that it's shrinking locally).

But it can't be used as an argument against Global warming since its only true locally and during and short time span and neither in a ***Global*** sense nor ***continuous time span***.

Hence, its a Straw man since it's not reflecting the real or intended facts against Global warming and climate change.

Global Warming

What about the fact that both CO_2 levels and global temperatures have been *much* higher in earths history, hence normal!

Is that a a fact and a straw man?

Global Warming

What about the fact that both CO_2 levels and global temperatures have been *much* higher in earths history, hence normal!

True, the Earth's average temperature has been more than 8°C higher than today, and yet scientists are afraid and warn of a 2-3°C increase.

Is it a straw-man?

Global Warming

What about the fact that both CO_2 levels and global temperatures have been *much* higher in earths history, hence normal!

Yes, its a straw man.

The straw man is that this is normal seen in the “evolution” for earth.

Hence, it may be normal for the Earth. But an increase in the Earth's average temperature of 8°C **today**, would raise sea levels by ~100m over a period of 50 years.

Global Warming

What about the fact that both CO_2 levels and global temperatures have been *much* higher in earths history, hence normal!

Which is normal for Earth, seen in a perspective of millions of years of oscillating temperatures. Certain adaptable animal species would certainly cope.

But as the civilization we live in today, we would face a collapse of epic proportions following 100m sea level rising in a time frame of 50years (given 8°C increase as per today).

Global Warming

Some (boring) numbers and references..

When science talks about Global Warming, it is talking about the cumulative effect that greenhouse gas emissions, especially CO_2, have on the Earth's average temperature compared to pre-industrial levels - 1850-1899

It is estimated that a doubling of atmospheric CO_2 levels will result in a temperature increase of between 1.5° and 4.6° C by the year 2100.

If we manage to adjust our net emissions by 0 (zero) by 2050, the global average temperature compared to pre-industrial times will stay at 1.5°C.

Global Warming

So, is Global warming true, caused by man and a threat to civilization?

Yes!

But why is it so hard to do anything about it?

Global Warming

So, is Global warming true, caused by man and a threat to civilization?

If we continue with today's CO2 emission levels, the global average temperature is predicted to reach 2°C sometime in 2038/2039, 2.4°C in 2050 and thus 4.6°C in 2100.

Global Warming

So, is Global warming true, caused by man and a threat to civilization?

If this happens, which nothing in the actual actions of the world's countries reflects, we look forward to the following scenario:

Global Warming

So, is Global warming true, caused by man and a threat to civilization?

AFRICA:

Hundreds of millions will become "climate refugees" as droughts hit this continent particularly hard. It will simply not be possible to grow anything. Large parts of southern Africa and the Sahel region will become uninhabitable for humans. There is a very high risk of increased regional armed conflicts if the remaining resources run out due to drought.

Global Warming

So, is Global warming true, caused by man and a threat to civilization?

ASIA:

When the glaciers in the Himalayas melt, the river basins, Ganges, Brahmaputra, Yangtze, Mekong and Indus, will be hit very hard. Billions of people will become climate refugees and will live on the verge of starvation. Bangladesh risks losing half its land area due to rising sea levels. A relatively moderate increase in the global average temperature of 2°C in this context and as of today means a run-away effect of the thawing of the Siberian permafrost layer.
If the permafrost of the Arctic regions melts, many predict a goodbye to the civilization we know today.

Global Warming

So, is Global warming true, caused by man and a threat to civilization?

EUROPE:
The southern part would still be habitable but unusable for agriculture or farming. Most of Spain's surface would be defined as "desert area". However, Northern Europe and Scandinavia are one of the few areas on Earth that would benefit from a continued global increase in average temperatures, but that is only on the condition that nothing happens to the Gulf Stream.

The Gulf Stream, as part of the so-called AMOC*, is already showing signs of collapse => New ice age in northern and central Europe

Global Warming

So, is Global warming true, caused by man and a threat to civilization?

North America:

The northern part of Canada has the same conditions as Siberia regarding the melting of the permafrost. Large parts of the US "breadbasket states" would both suffer from such drought that cultivation becomes impossible and be affected to an even greater extent by extreme weather such as tornadoes and massive hailstorms. The western US and California risk becoming almost uninhabitable and in the category of "desert area".

Global Warming

So, is Global warming true, caused by man and a threat to civilization?

South America:

Due to the melting of glaciers in the Andes, countries like Peru and Bolivia risk becoming completely uninhabitable due to water shortages. This will (maybe) start in 10-20 years.
Even if the global average temperature is around 3°C, which is likely to happen if we reach 2°C and the permafrost in Siberia and Canada melts, the Amazon will become more like the savannah areas of West Africa.
The Amazon of today, the “lungs of the world”, will be wiped out.

Global Warming

So, is Global warming true, caused by man and a threat to civilization?

Oceania:

Between 30-50% of all small (atoll) islands will cease to exist and must be evacuated.
Australia, apart from the coastal areas, will basically become uninhabitable in terms of a normally functioning society.

Global Warming

Some important references for the last couple of slides:

https://www.dn.se/klimatet-just-nu/#temperatur
(baserat på data från https://climexp.knmi.nl/plot_atlas_form.py)
https://climate.nasa.gov/evidence/
https://www.ipcc.ch/apps/njlite/srex/njlite_download.php?id=5866
https://www.ucsusa.org/climate/science
https://www.sciencemag.org/news/2020/07/after-40-years-researchers-finally-see-earths-climate-destiny-more-clearly
https://en.wikipedia.org/wiki/Effects_of_climate_change_on_humans

Global Warming

Why are we not doing anything given the horrible scenarios that were described?

If what has just been described is a scenario's that will be realized if we continue as we are today, and there is no indication that we will not continue as we are today - do you not believe this?
Is it really the case that people do not believe this?

Yes, is the answer we have already discussed. Many people do not believe it. It is a hoax and fake news.
The second part of the answer is that we are too short-sighted. We humans simply do not possess the ability to think long-term.

Global Warming

Why are we not doing anything given the horrible scenarios that were described?

For the *in-depth* reasoning, please refer to essentiell.org “SHORTSIGHTEDNESS”

In short, we can draw the following parallels:

While we are shocked when we see pictures of forest fires, atoll islands in the Maldives that have disappeared, kilometer-sized blocks of ice breaking off in Antarctica, reports that the Gulf Stream is at risk of collapsing within 50 years, cities in central Europe that are swept away by flooded rivers, etc...

Global Warming

Why are we not doing anything given the horrible scenarios that were described?

We are still like “cry babbies”...
When the petrol tax is going to be raised to be put on high-speed train infrastructure
("I can’t afford that, so do they mean my kids have to take the bicycle to school/football practice etc?”
When you are forced to take the train to a meeting..
("But I save 45 minutes on the flight!")
When the public transport fee is raised
("But I already pay 1000kr a month for it!")
When child care benefits are reduced to invest in more climate friendly incentives in society
("But that would mean I would have to start to mend my childrens clothes instead of buying new ones!”)
When wind turbines/solar panels are built
("But my view of the nature is going to be less beautiful")
...and so on

Global Warming

Why are we not doing anything given the horrible scenarios that were described?

The point is that we either don't understand that climate adaptation will cost money and some efforts in everyday life, or we naively believe that it won't cost anything!

Global Warming

Why are we not doing anything given the horrible scenarios that were described?

The point is that we either don't understand that climate adaptation will cost money and some effort in everyday life, or we naively believe that it won't cost anything!

Or just ignore it with the motivation that: ”Nah...future technological innovations will fix it, it always has!”

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Global Warming

Why are we not doing anything given the horrible scenarios that were described?

2020 The annual costs in the West are estimated at $70 billion for various climate adaptations by society.

2030 $140 - $300 billions per year

2050 $280 - $500 billions per year

...if we manage to stop Global Warming so that it does not reach higher than +1.5°C compared to pre-industrial times.

Global Warming

Why are we not doing anything given the horrible scenarios that were described?

And that is:
1. NOT counting climate investments needed in China, India or Brazil's need for investments to stop Global Warming so that it does not reach higher than +1.5°C compared to pre-industrial times.

Global Warming

Why are we not doing anything given the horrible scenarios that were described?

And that is:
2. NOT counting additional investments needed if we are on our way towards an even higher global average temperature than +1.5°C...which we are.

Global Warming

Why are we not doing anything given the horrible scenarios that were described?

So the answer is – we have no idea...

99% of the scientific community is ***screaming, ”Please stop this or we will not have a functional civilization to give our or your grand kids”***

and that is ”***our***” and ” ”***your***” as in

Global Warming

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99% of the scientific community is ***screaming, ”Please stop this or we will not have a functional civilization to give our or your grand kids”***

and that is ”***our***” and ” ”***your***” as in  you, sitting in front of me.

Thank you for listening!

We hope you have gained some knowledge and some food for thought.

The most important take away's are:

Realize for yourself that we must start transforming our society to be fossil-free!
Realize for yourself that we may not be able to do this without compromising welfare

If you think this is important, go out and create debate, go home to wife/boyfriend/familly...etc and start "the start" at home.

Thank you for listening!

We hope you have gained some knowledge and some food for thought.

The most important take away's are:

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If you think this is important, go out and create debate, go home to wife/boyfriend/familly...etc and start "the start" at home.
...and watch out for "straw-mans" in social media and conspiracies in social media.

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