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## 'Don't Look Up': Hollywood's primer on climate denial illustrates 5 myths that fuel rejection of science

Friday 7 January 2022, by HOFER Barbara, SINATRA Gale (Date first published: 5 January 2022).

Every disaster movie seems to open with a scientist being ignored. "Don't Look Up" is no exception - in fact, people ignoring or flat out denying scientific evidence is the point.

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Leonardo DiCaprio and Jennifer Lawrence play astronomers who make a literally Earth-shattering discovery and then try to persuade the president to take action to save humanity. It's a satire that explores how individuals, scientists, the media and politicians respond when faced with scientific facts that are uncomfortable, threatening and inconvenient.

The movie is an allegory for climate change, showing how those with the power to do something about global warming willfully avoid taking action and how those with vested interests can mislead the public. But it also reflects science denial more broadly, including what the world has been seeing with COVID-19.

#### Video

The most important difference between the film's premise and humanity's actual looming crisis is that while individuals may be powerless against a comet, everyone can act decisively to stop fueling climate change.

Knowing the myths that feed science denial can help.

As research psychologists and the authors of <u>"Science Denial: Why It Happens and What to Do About It"</u>, we recognize these aspects of science denial all too well.

### Myth #1: We can't act unless the science is 100% certain

The first question President Orlean (Meryl Streep) asks the scientists after they explain that a comet is on a collision course with Earth is, "So how certain is this?" Learning that the certitude is 99.78%, the president's chief of staff (Jonah Hill) responds with relief: "Oh great, so it's not 100%!"

Government scientist Teddy Oglethorpe (Rob Morgan) replies, "Scientists never like to say 100%."

This reluctance to claim 100% certainty is a strength of science. Even when the evidence points clearly in one direction, scientists keep exploring to learn more. At the same time, <a href="they recognize overwhelming evidence">they recognize overwhelming evidence</a> and act on it. The <a href="evidence is overwhelming">evidence</a> is climate is changing in dangerous ways because of human activities, particularly the burning of fossil fuels, and it has been overwhelming for many years.

When politicians take a "let's wait and see" attitude toward climate change (or "sit tight and assess," as the movie puts it), suggesting they need more evidence before taking any action, it's often a form of science denial.

## \_Myth #2: Disturbing realities as described by scientists are too difficult for the public to accept

The title phrase, "Don't Look Up," portrays this psychological assumption and how some politicians conveniently use it as an excuse for inaction while promoting their own interests.

Anxiety is a growing and understandable psychological response to climate change. Research shows there are strategies people can use to effectively cope with climate anxiety, such as becoming better informed and talking about the problem with others. This gives individuals a way to manage anxiety while at the same time taking actions to lower the risks.

Video

A 2021 international study found that 80% of individuals are indeed willing to <u>make changes in how</u> they live and work to help reduce the effects of climate change.

### \_Myth #3: Technology will save us, so we don't have to act

Often, individuals want to believe in an outcome they prefer, rather than confront reality known to be true, a response that psychologists call <u>motivated reasoning</u>.

For example, belief that a single technological solution, such as <u>carbon capture</u>, will fix the climate crisis without the need for change in policies, lifestyles and practices may be more grounded in hope than reality. Technology can help reduce our impact on the climate; however, research suggests advances are <u>unlikely to come guickly enough</u>.

Hoping for such solutions diverts attention from significant changes needed in the way we work, live and play, and is a form of science denial.

# \_Myth #4: The economy is more important than anything, including impending crises predicted by science

Taking action to slow climate change will be expensive, but not acting has extraordinary costs – in lives lost as well as property.

Consider the costs of recent Western wildfires. Boulder County, Colorado, lost nearly 1,000 homes to a fire on Dec. 30, 2021, after a hot, dry summer and fall and little recent rain or snow. A study of

California's fires in 2018 – another hot, dry year – when the town of Paradise burned, <u>estimated the damage</u>, including health costs and economic disruption, at about \$148.5 billion.

Photo: Nearly 1,000 homes burned in Boulder County, Colo., as strong winds whipped a grass fire through unusually dry landscape on Dec. 30, 2021.

When people say we can't take action because action is expensive, they are in denial of the cost of inaction.

#### \_Myth #5: Our actions should always align with our social identity group

In a politically polarized society, individuals may feel pressured to make decisions based on what their social group believes. In the case of beliefs about science, this can have dire consequences – as the world has seen with the COVID-19 pandemic. In the U.S. alone, more than <u>825,000 people with COVID-19 have died</u> while powerful identity groups actively discourage people from getting vaccines or taking other precautions that could protect them.

Viruses are oblivious to political affiliation, and so is the changing climate. Rising global <u>temperatures</u>, worsening storms and sea level rise will affect everyone in harm's way, regardless of the person's social group.

Video

## How to combat science denial - and climate change

A comet headed for Earth might leave little for individuals to do, but <u>this is not the case with climate change</u>. People can change their own practices to reduce carbon emissions and, importantly, pressure leaders in government, business and industry <u>to take actions</u>, such as reducing fossil fuel use, converting to cleaner energy and changing agricultural practices to reduce emissions.

In our <u>book</u>, we discuss steps that individuals, educators, science communicators and policymakers can take to confront the science denial that prevents moving forward on this looming issue. For example:

- Individuals can check their own motivations and beliefs about climate change and remain open minded to scientific evidence.
- Educators can teach students how to source scientific information and evaluate it.
- Science communicators can explain not just what scientists know but how they know it.
- Policymakers can make decisions based on scientific evidence.

As scholars who work to help people make sound decisions about complex problems, we encourage people to consume news and science information from sources outside their own identity group. Break out of your social bubble and listen to and talk with others. Look up.

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