

POST

I got my NASA certification as a "Planetary Defender"

November 9, 2021

... AI and Defending Nature

---“Without AI, nature and humanity has no chance at long-term survival. None.”

- Jed Anderson, EnviroAI

This was kind of fun to do: [NASA 5-question certification quiz as “Planetary Defender”](https://r20.rs6.net/tn.jsp?f=001-7fEUYcnPPIS8-wrDhkFZcrbpHOeeDei3LVs67PIDoIAN7BKwGxNzNlCSqKOKbEoSbBfvHt_QCArejcPYAl3H_OUryY3osk8AEoYnlYR-7fq5jBm5OuNhbhALNflpU-JDgTIUQBvVNeBvqY-dTooM77W9SLZm-begDLxg_pqTQ=&c=&ch=)) (https://r20.rs6.net/tn.jsp?f=001-7fEUYcnPPIS8-wrDhkFZcrbpHOeeDei3LVs67PIDoIAN7BKwGxNzNlCSqKOKbEoSbBfvHt_QCArejcPYAl3H_OUryY3osk8AEoYnlYR-7fq5jBm5OuNhbhALNflpU-JDgTIUQBvVNeBvqY-dTooM77W9SLZm-begDLxg_pqTQ=&c=&ch=)

**Odds of
Surviving
without
AI = 0%**

---“Artificial intelligence: ... the odds of us surviving with it I would currently put at 30%. The odds of us surviving without it ... 0%.”

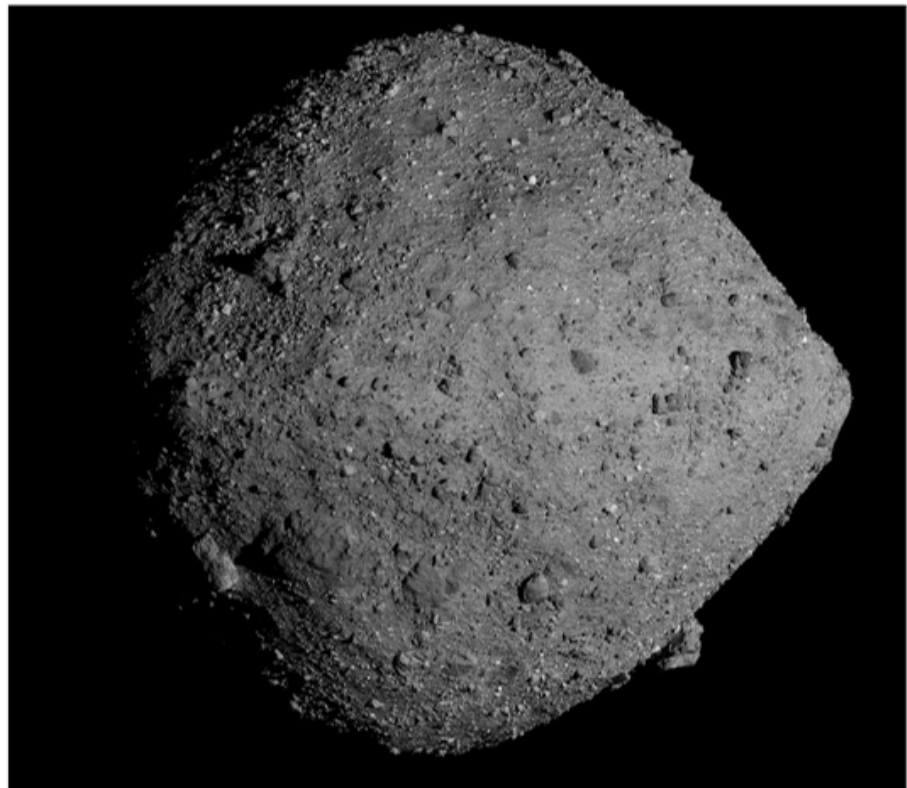
- Jed Anderson, EnviroAI



National Geographic Article:

“This asteroid is one of the most likely to hit Earth. Here’s what it means for our future (https://r20.rs6.net/tn.jsp?f=001-7fEUYcnPPIS8-wrDhkFZcrbpHOeeDei3LVs67PIDoIAN7BKwGxNzNlCSqKOkbEoLSLrfumk5xSxFhINivV248Lu9q1Jmn-okJUAYp8t3oeLz99_hBFh7jweQ

[qBW3kE2eg1SgVv7oiSInX2CWglicYWdrKZ2uZLVybLToLyRH76H7ObJ3lznH5tdwOzmUX3Z-Ek_Vq8oTUKapIMOdpYkKs22NdhHPLJFQGXRnnZJBxd1woxmNY-ZDYrIwrBmOkJB9-jjDrAyXcLs68ftAjF78GoEp5CTEgiEJ_6xDrrUKQ=&c=&ch=\).](https://www.nationalgeographic.com/science/space/asteroids/asteroid-bennu-2019-09-13/)”



Though the risk remains low, NASA scientists have found that the asteroid Bennu, shown here, has a higher chance of hitting Earth in the next 300 years than thought.
VISUALIZATION BY KEL ELKINS, NASA GODDARD SPACE FLIGHT CENTER



Human's 1st asteroid defense mission is now fueled and ready for launch November 23rd ([https://r20.rs6.net/tn.jsp?f=001-7fEUYcnPPIS8-wrDhkFZcrbpHOeeDei3LVs67PIDolAN7BKwGxNzEF9bNyJY8IP5HR2YkoB2HmM_W_wsDpFMi1afvOkalyFMuCUcDbQFvx51NDmI1vyc_zSxL-x6Q-_i21cpKz-UYoKAuetExiGhoatJ13HPfonG41jzxjStoUM3mrWeMWosxup8TLISrXnal-K_o c2QSGjRMYAxSfeq0NbFfoVvihZ1pfY495SKpDioOx_z4UGQQ==&c=&ch=\)!](https://r20.rs6.net/tn.jsp?f=001-7fEUYcnPPIS8-wrDhkFZcrbpHOeeDei3LVs67PIDolAN7BKwGxNzEF9bNyJY8IP5HR2YkoB2HmM_W_wsDpFMi1afvOkalyFMuCUcDbQFvx51NDmI1vyc_zSxL-x6Q-_i21cpKz-UYoKAuetExiGhoatJ13HPfonG41jzxjStoUM3mrWeMWosxup8TLISrXnal-K_o c2QSGjRMYAxSfeq0NbFfoVvihZ1pfY495SKpDioOx_z4UGQQ==&c=&ch=)!))

We Don't Need Bruce Willis





----“It is simply a statement of fact. The Romans could have had the telephone; the Greeks could have had the cinema; the Babylonians could have had the automobile—had they been mentally ready. The laws of nature were the same in those ages as in ours, the same materials were in the ground—but the minds of the Ancients were not ready for those things, and so they had to go without them.” — Emmet Fox



---“Our intelligence is nature’s hope. Humans appear to be nature’s ultimate defense mechanism.”

- Jed Anderson, EnviroAI



You can read here about the artificial intelligence and machine learning systems (http://r20.rs6.net/tn.jsp?f=001-7fEUYcnPPIS8-wrDhkFZcrbpHOeeDei3LVs67PIDoLAN7BKwGxNzEF9bNyJY8IPchI_j43QVNXSz2KZjoPbE3GnegRaDrAMTebKn_HTfmJV83Oy5X8baGbVubIrPofYxVlMyG_5XzmQLJPzvMdnEArvKMx876vm1NugzxXDaNxqxtpJX218qcVV1WnPYo8IMyQrh-K7GM-8Z9gpG3dT8Rk1j1UCO4OHvnR1stGzQ-oXXr3FoJ1qZQ==&c=&ch=) in the autonomous navigation software SMART Nav (https://r20.rs6.net/tn.jsp?f=001-7fEUYcnPPIS8-wrDhkFZcrbpHOeeDei3LVs67PIDoLAN7BKwGxNzEF9bNyJY8IPMAj1vrJ42ImEXo2Ts-WTJjMdPuii25Y3Ps5nDhIXPrgKh5L8x2GEe2pc_2KnrCG_GHAA6zUv7j2tKNnO47bgt41hUKXaTGDJkd277DlD95q8t9wCD1iaswCkJEOmJseo9WKZTtSHqjV8NC8Z-WAaajfQvLV8VjLKtk_LT393IHA=&c=&ch=) (Small-body Maneuvering Autonomous Real-Time Navigation) onboard DART (<http://r20.rs6.net/tn.jsp?f=001-7fEUYcnPPIS8-wrDhkFZcrbpHOeeDei3LVs67PIDoLAN7BKwGxNzEF9bNyJY8IPjhgrKPlEAYuBum3sq8Hxa3SmFkmbIV2QEDmkaXZEDkThMKDzjmxBQy4PiatjuAy>

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Q==&c=&ch=).



---“AI could spell the end of the human race.”

- Stephen Hawking

---“AI is a fundamental risk to the existence of human civilization.”

- Elon Musk

---“Without AI, humans and nature have no chance at long-term survival.”

- Jed Anderson

----“Yes ... AI can destroy us. I realize this more everyday as a developer of AI. And we must be careful. But without AI, humans and nature literally have no chance at long-term survival. None. Zilch. Nada. The most dangerous course for human civilization therefore is to fall into fear and dystopia and not move forward with as much courage, speed, and energy as possible. Nature gave us initial intelligence for a reason. We must further develop it to save her.” - Jed Anderson, EnviroAI



----“In a battle, or in mountain climbing, there is often one thing which it takes a lot of pluck to do; but it is also, in the long run, the safest thing to do. If you funk it, you will find yourself, hours later, in far worse danger. The cowardly thing is also the most dangerous thing.”

—C. S. Lewis (https://r20.rs6.net/tn.jsp?f=001-7fEUYcnPPIS8-wrDhkFZcrbpHOeeDeig3LVs67PIDoIAN7BKwGxNzEF9bNyJY8IPSGyDLz-e7Cc5k5nC3D9FaR7JtXIXMsXy9vwosZsouxGj8JefsNIWUnaAp8dmcIcCzf47Asofzmqb9VSLHQNPRHbgHf6KZBA1WshPn8O2QQC6deV9dnoAtg==&c=&ch=)). Mere Christianity

NASA's launch on November 23rd! ([https://r20.rs6.net/tn.jsp?f=001-7fEUYcnPPIS8-wrDhkFZcrbpHOeeDei3LVs67PIDo1AN7BKwGxNzHHeooDc3JLZ3U8uCJ1C43EgAve_EO8SvBtJlsn6JlFMtNdoQJJIFniDi9DdezL-QXzk8eqyQ6BB6izifelp4TCDZruMRFzwqsoiMdHuBzEW6YkqfF2UW5RlrB3LWx7b1sNblq16S3VzZFEtbgeIVRvCpE1YAwvbRqT8wb1lmJm_JOvkQooZ4g=&c=&ch=\)](https://r20.rs6.net/tn.jsp?f=001-7fEUYcnPPIS8-wrDhkFZcrbpHOeeDei3LVs67PIDo1AN7BKwGxNzHHeooDc3JLZ3U8uCJ1C43EgAve_EO8SvBtJlsn6JlFMtNdoQJJIFniDi9DdezL-QXzk8eqyQ6BB6izifelp4TCDZruMRFzwqsoiMdHuBzEW6YkqfF2UW5RlrB3LWx7b1sNblq16S3VzZFEtbgeIVRvCpE1YAwvbRqT8wb1lmJm_JOvkQooZ4g=&c=&ch=)...)...



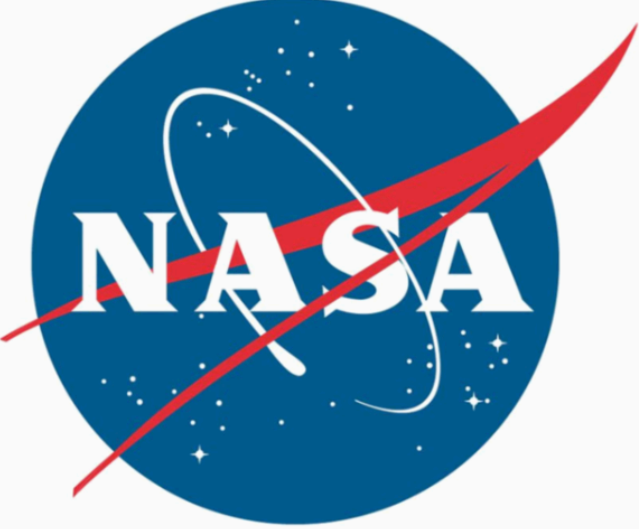
DART

Double Asteroid Redirection Test

—
NASA'S FIRST
PLANETARY
DEFENSE MISSION



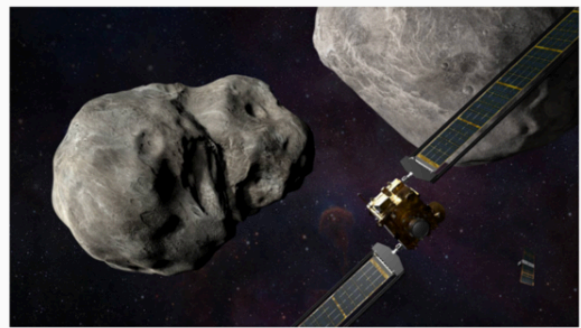
NASA launches a 'planetary defense' test aimed at redirecting an asteroid hazardous to Earth



DART (Double Asteroid Redirection Test)

Oct 4, 2021
MEDIA ADVISORY M21-125

NASA Invites Media to Launch of Double Asteroid Redirection Test



I've written extensively over the last several years on the epiphany I had that the evolution of human intelligence might be earth's defense mechanism ... that nature designed us in part to save her ... that we are her ultimate survival mechanism (see example email below).

NASA next month will launch the "DART Mission" (https://r20.rs6.net/tn.jsp?f=001-7fEUYcnPPIS8-wrDhkFZcrbpHOeeDei3LVs67PIDo1AN7BKwGxNzHHeooDc3JJLpYZg6UG7AqsvQFDC3nR-rwy_fJ_1eoDjzI-U6jmD8Fs8SrQIdwir3OvGf92hnEtUEyz2BZRuLskCKV5Ayt68KOqZItmB90oz4jEURRQlQpo=&c=&ch=) to crash a spacecraft into an asteroid. This will be NASA's first test of its 'planetary defense system'. It will be the first time in history that a celestial body moving through the heavens will be altered by intelligent beings (to our knowledge).

Protecting the Fate of Nature ...

Human beings.

---"Our intelligence is nature's hope. Humans appear to be nature's ultimate defense mechanism." - Jed Anderson, EnviroAI

Meteors hit earth. It's never a question of if. It's always a question of when. Nothing to fear. But on average, a collision with a 5 km object happens once every 20 million years. The last impact was 66 million years ago. That meteor knocked out 3/4 of earth's plant and animal species.

Humans have been hard on earth ... but meteors have been much harder. And a meteor 60 miles wide knocks out the whole earth.

"2021: An Earth Odyssey"



**HUMANS WILL BE
THE REASON
NATURE SURVIVES!**

▶ ⏪ 🔊 0.45 / 1:17

API
1:18

Guess who
would have been
a big fan of

AI?

These guys!





f If you are nature ... which would you prefer?

Option #1: Humans hurting me as they evolve and develop technology that might save me from a meteor that will destroy 75% of me.

Option #2: No human technology. Just let me get hit by the meteor.

... If I'm nature ...I prefer Option #1. Minimize the learning pain, but I like Option #1!!!

Email from earlier this year.



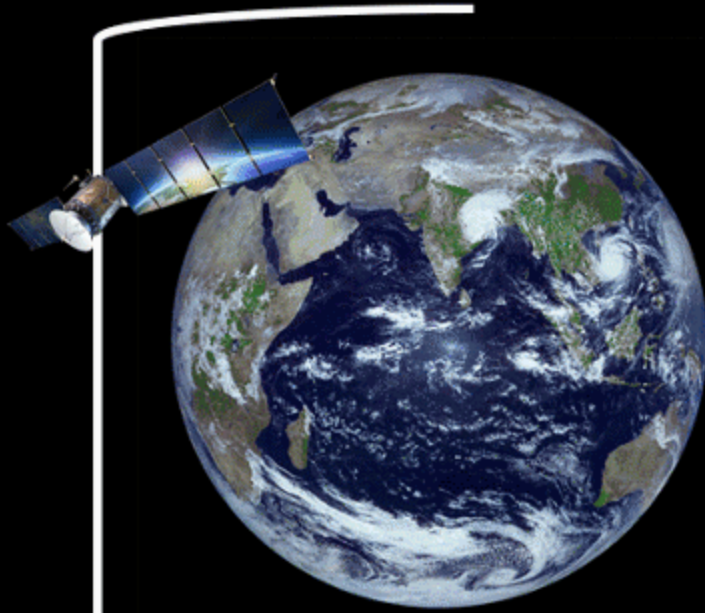
By 2050 ...

human technology will evolve to the point where we are not only protecting nature from humans, but protecting nature from nature.

---“Humans are not the only forces in the world that can harm nature.”

As ironic as it might sound, the evolution of humans and human technology will likely prove to be the reason nature survives for as long as she will. In other words, without humans showing up on earth and beginning with our very crude and harmful technology to the earth, nature might not have survived for as long as she will in the first place. Paradoxical. Redemptive. Transcendent. Humans evolving to save nature. That’s a story-line that only God could write.

AI



Infinity-Imagined.tumblr.com

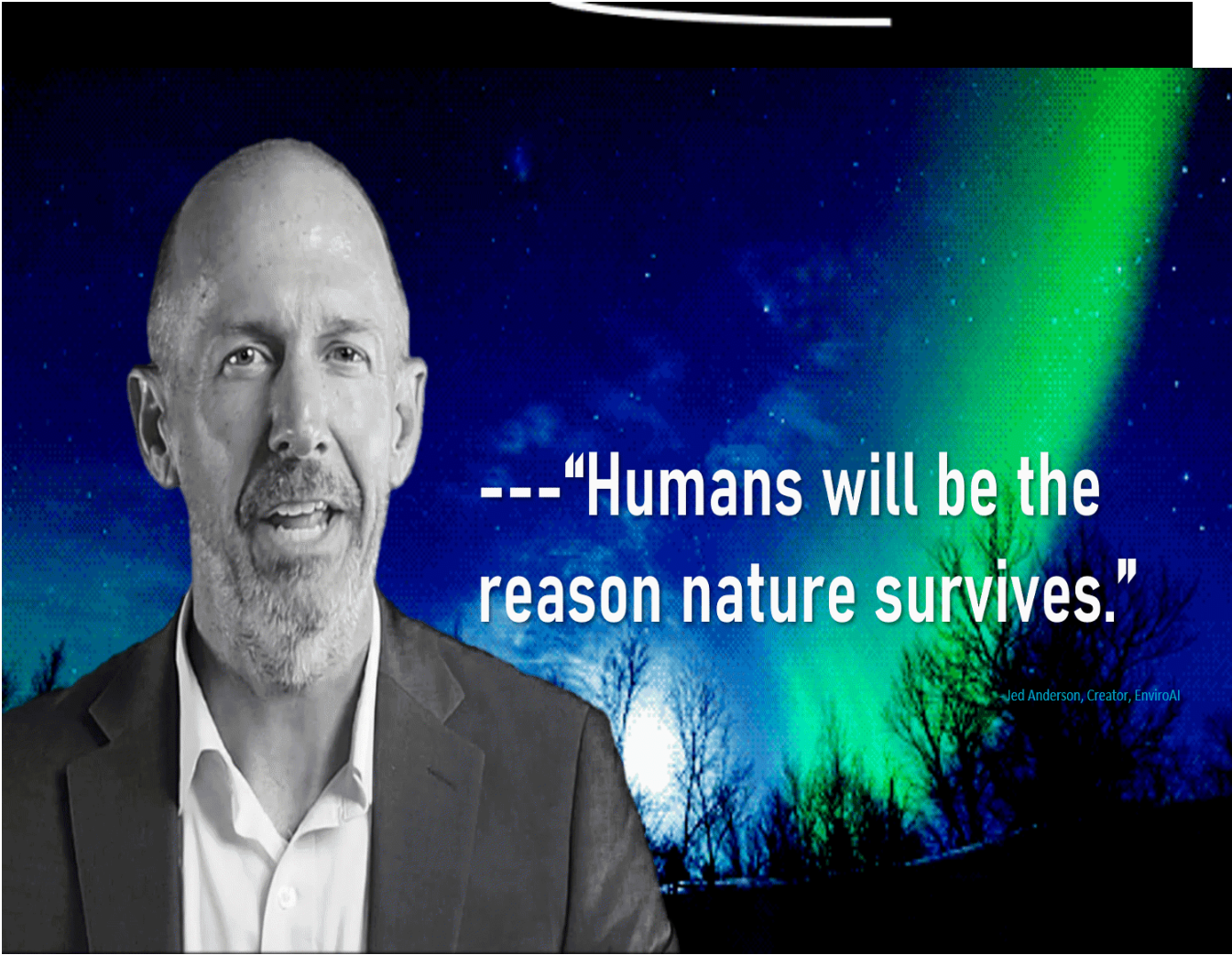
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AI and Quantum Computing



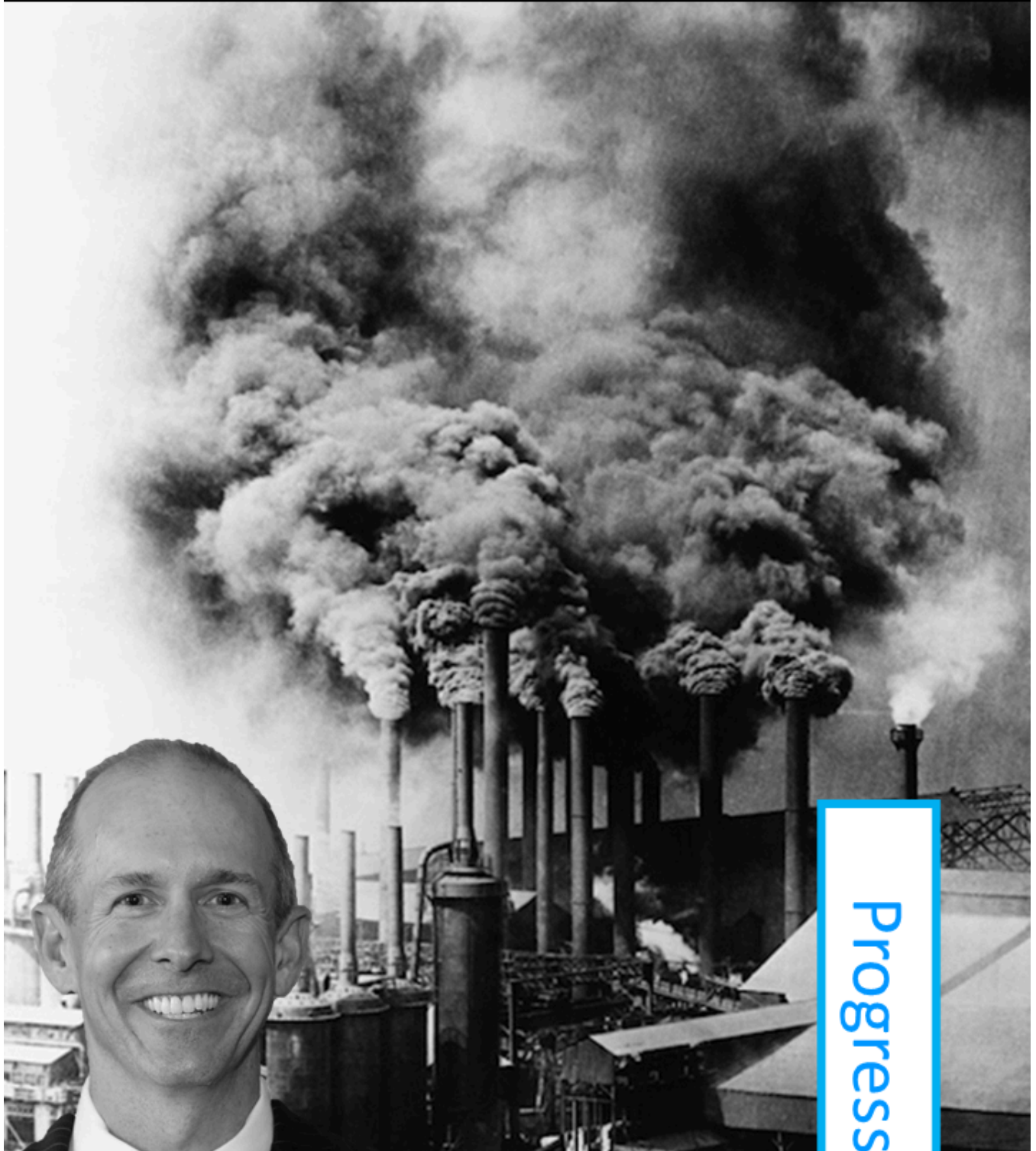
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---“Humans will be the
reason nature survives.”

Jed Anderson, Creator, EnviroAI

The Beginnings



Progress



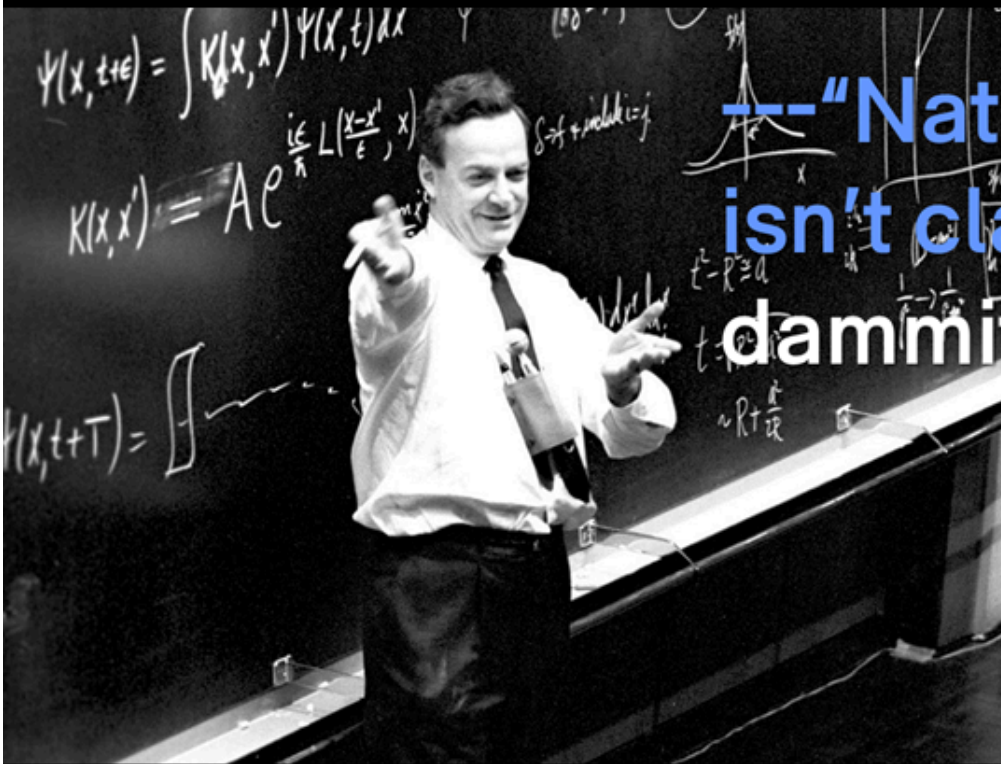
Human Technology Evolving to Save Nature

Now humans are heading into ...

The Environmental Renaissance

Humans are moving from a focus on environmental protection to environmental enhancement

Quantum Computing
Artificial Intelligence
Remote Sensing



---“Nature
isn't classical,
dammit . . .

--Richard Feynman

**---"Nature isn't classical, dammit . . .
and if you want to make a simulation
of nature, you'd better make it
quantum mechanical."**

-Richard Feynman

**---“The grand aim
of science and
technology is
simplicity.”**

- Jed Anderson, Creator, EnviroAI





EnviroAI™

—“Building a quantum AI environmental protection system

...one commercialized application at a time.”

Jed Anderson, Creator, Enviro.AI



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(<https://jedanderson.org/posts/i-got-my-nasa-certification-as-a-planetary-defender.md>).

Source on GitHub: [/src/content/posts/i-got-my-nasa-certification-as-a-planetary-defender.md](https://github.com/jedanderson432/jedanderson-site/blob/main/src/content/posts/i-got-my-nasa-certification-as-a-planetary-defender.md) (<https://github.com/jedanderson432/jedanderson-site/blob/main/src/content/posts/i-got-my-nasa-certification-as-a-planetary-defender.md>)