

POST

Latest news . . .

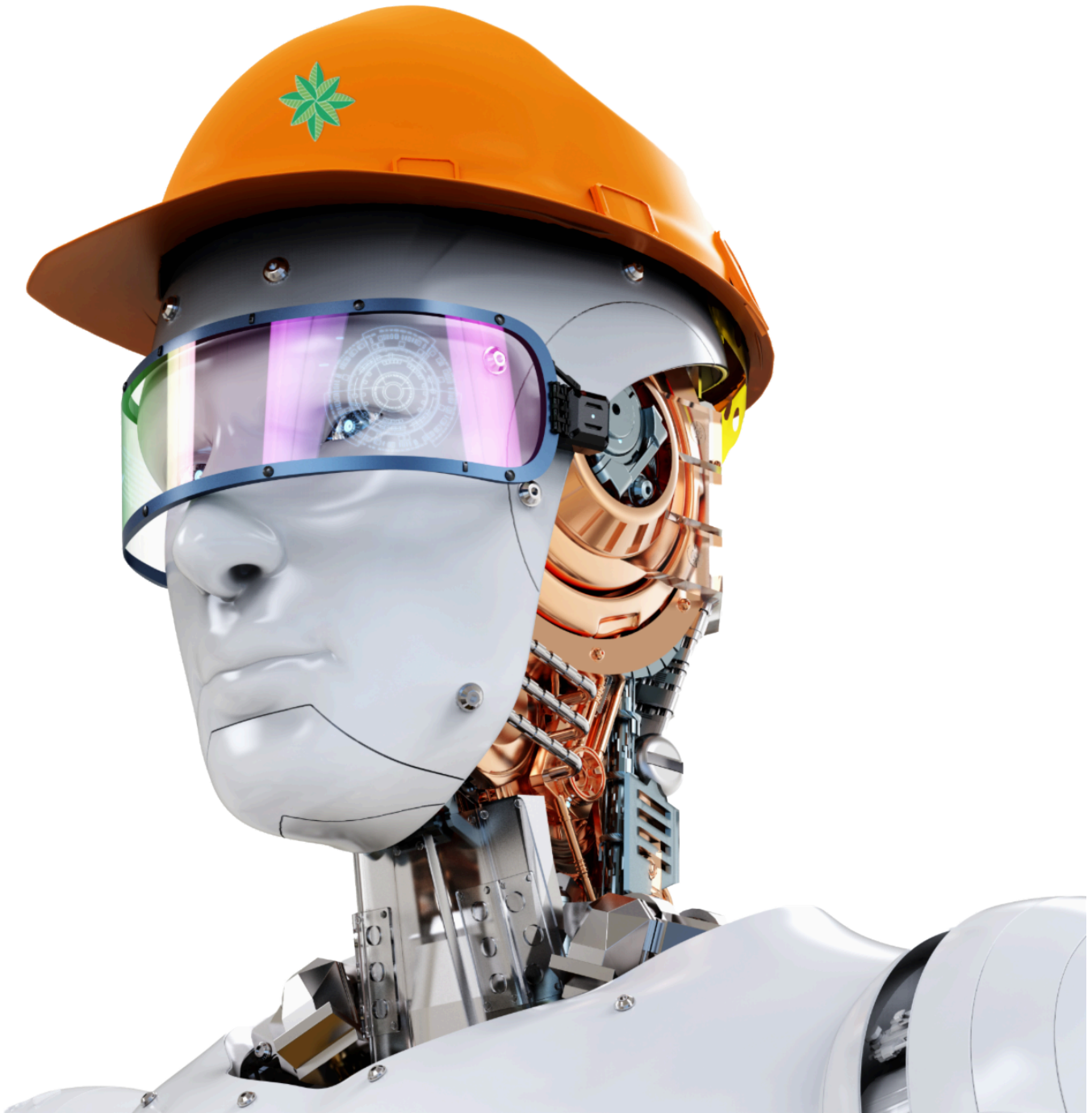
March 2, 2020

AI & the Environment

Volume III, March 2, 2020

---“Protecting the environment. Simpler. Faster.”

—Ceres AI



Environmental AI

Updates and recent headlines on matters affecting artificial intelligence and the environment.

From the Editor

---“Data complicated. AI simple.”

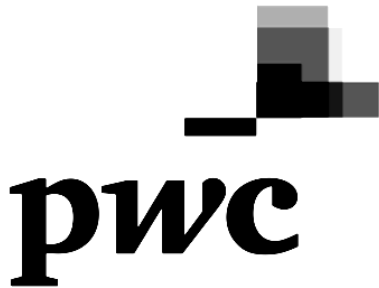
—Jed Anderson, Creator, Ceres AI



\$ Trillions

Leading business analysts are projecting that those companies who embrace artificial intelligence will create trillions of dollars in additional wealth for their companies over the next 10 years.

Read: **PWC report.** ([\(\[\\(\]\(http://r20.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebewH8IOcDekSI9GSOIxY7Zjh_uvSQFmvwNdWaVYKcOG297OJN9gGB4ZeoC_oWovEVtUQWeZiCRTc9WhZdV6j5NgsHjzEshyBx1F6Im6f-mOX5Br-u6YGmAAoAxbWm_ArZr6nohm6EYwbsh8OH1cxPDP7ezYHVFknfrRobh_tUV24mYvnhiElKgmhad5FK1Vu7OtoxBI3Z6j5pBJjJwLbYRZsMWiZHZohH287poNG3SQPn4DRqTBgYEZ35udpBqlNGtyvtJeVNProQc-6Csn6rWZnX6Q==&c=&ch=\) PwC report. \(<a href=\)](http://r20.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebewH8IOcDekSI9GSOIxY7Zjh_uvSQFmvwNdWaVs2lwwdsosqsH8wGCGQ8WtzpG82Au-UetIy09LbbAhHttTauKUj7NndBPgUD_qB9pLkHcz2RiVgQou43hSdY9Z22CLo1q8XRvvcUo4RGHOHTI9SK3ZELMejx1Mj9LdsHw8DHDND_4ruKSucViAETTF5c1b0ffow-Jvoc4dKTjxrqs=&c=&ch=) Gartner report. (<a href=)



McKinsey
& Company

Gartner®

Forbes

Ceres AI launches “Benchmarker”

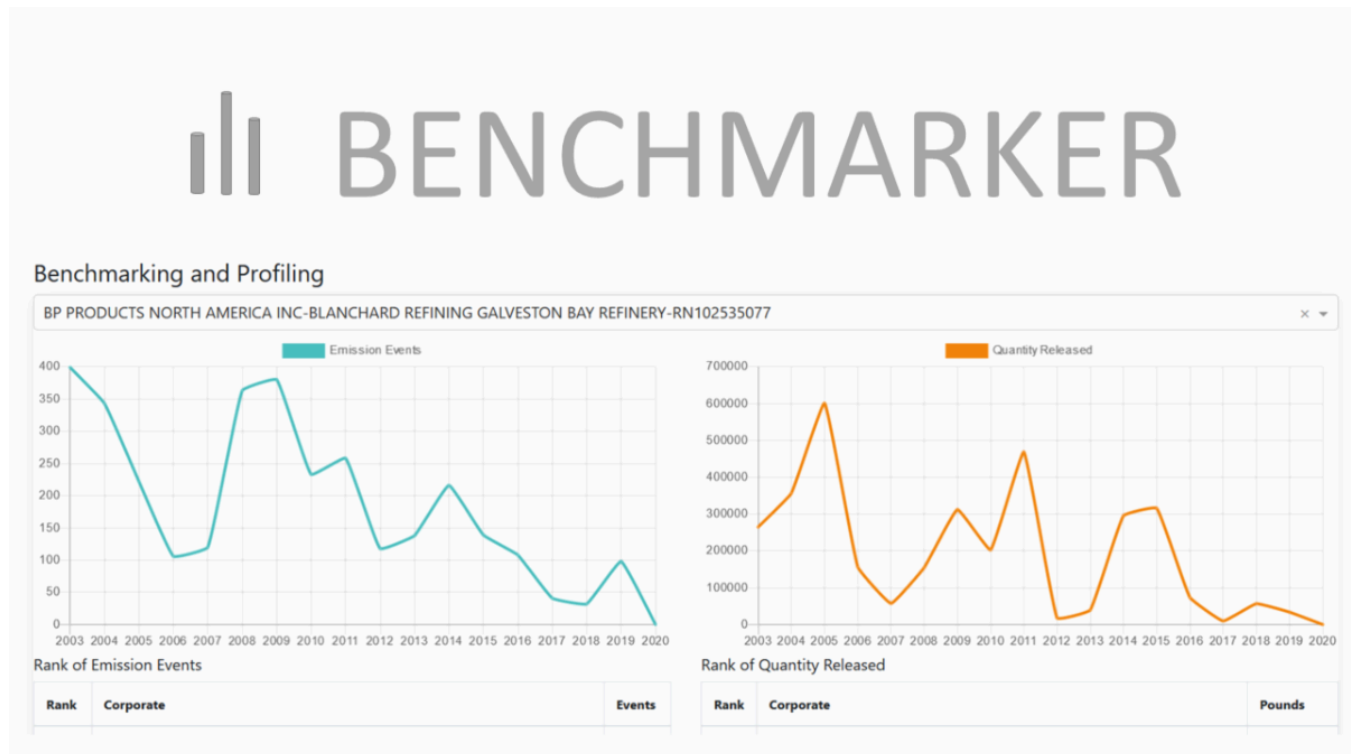
Ceres today unveiled a beta version of its environmental benchmarking tool.

“Benchmarker” ranks and compares facilities based on emissions events and other environmental parameters.

WHAT’S YOUR COMPANY # RANK?

—“Companies can see how they environmental perform against their competitors—starting with emission events in Texas.” - Bradford Tuckfield, CIO, Ceres AI

[For more information.](http://r20.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebewH8IOcDekSIm9GSOIxY7Zjh_uvbt7LPRzWzkNxYHaasEIB-5CIQxUNz-48nY3SkEPQaeAEe5kHAS567CvYIQjdzZ5nB-wNtqsnBBRk_HgwJiYuNX3DUVhnuVRog==&c=&ch=) (http://r20.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebewH8IOcDekSIm9GSOIxY7Zjh_uvbt7LPRzWzkNxYHaasEIB-5CIQxUNz-48nY3SkEPQaeAEe5kHAS567CvYIQjdzZ5nB-wNtqsnBBRk_HgwJiYuNX3DUVhnuVRog==&c=&ch=)



MIT Top 10 Breakthroughs of 2020

MIT's list of Top 10 breakthroughs for 2020 includes:

- Unhackable internet (quantum)
- Satellite mega constellations

- Quantum supremacy
- Climate change attribution
- Tiny AI

Read More. (http://r20.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebewH8IOcDekSIIm9GSOIxY7Zjh_uvbT7LPRzWzkNTAEiYFmuzmL5JwYHUkQj2sVdUzfMxaOrqQvTE8tLgqv3d1ACHstL_MKRjvN6T8RvPwTQ3p8Rh8H2Z28GL8NZy_9SrSVfnPpvvowR9N87Ydm9_Mkah8y5odTosO1Zr_uWjohdt_qk6iA=&c=&ch=)



Ceres AI Meets with Rep. Dan Huberty on Diluvia Flood AI

After meeting with Ceres AI, Rep. Dan Huberty asked Houston business leadership to take the lead in creating a flood intelligence system.

Read letter. (http://r20.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebewH8IOcDekSI9GSOIxY7Zjh_uvbt7LPRzWzkNLIWO1RGfUWAMvoMfZwewJZwfrpxJBESiyPW4phKTBch-AX27CKR_x3gI5mYVjH06x6Qs5tL8ATO6ypYCPZZbSRKH6AvuJ_VKEjMyZPriXlHRYOOM3n5WfbFaHwzcty12TqkYo_h2oxGZ5LHs5nZgUkB_qarVAw95GnLpX1mE6JQ=&c=&ch=)



TEXAS HOUSE OF REPRESENTATIVES
DAN HUBERTY

February 13, 2020

Bob Harvey
President and Chief Executive Office
Greater Houston Partnership
701 Avenida De Las Americas #900
Houston, TX 77010

Dear Bob,

I am writing to ask you to lead the development of a Flood Intelligence System for the Greater Houston Area.

Artificial intelligence, IoT, and remote-sensing technologies are advancing. The business community has unique knowledge and access to these leading-edge technologies. The business community also has unique abilities in helping bring together various private sector and diverse governmental interests around technological innovation—especially where time is of the essence.

Attached is a proposal that was recently presented to me by Steve Reeves and Jed Anderson. Google and other AI-based companies have similar flood applications in development or deployed in other parts of the world ([see https://www.blog.google/products/search/helping-keep-people-safe-ai-enabled-flood-forecasting/](https://www.blog.google/products/search/helping-keep-people-safe-ai-enabled-flood-forecasting/)).

Thank you for your review and consideration.

Sincerely,

A handwritten signature in black ink that reads "Dan Huberty".

Representative Dan Huberty

cc: Chase Kronzer, Director, Public Policy, Greater Houston Partnership

Attachment

DISTRICT OFFICE:
4501 MAGNOLIA COVE, SUITE 201 A
KINGWOOD, TEXAS 77345
281-360-9410

CAPITOL OFFICE:
P.O. Box 2910
AUSTIN, TEXAS 78768-2910
512-463-0520



Diluvia

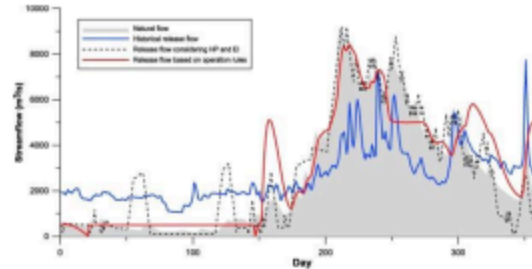
A Flood AI project for Houston, by CERES Environmental AI

Overview. This document is a description of Diluvia, a new product by CERES Environmental AI designed to use AI to prevent flooding and optimize water management in southeast Texas.

Dynamic Predictive Modeling

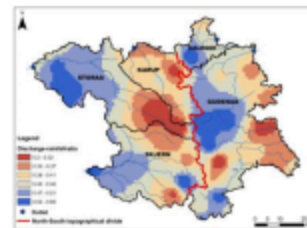
We'll make more accurate predictions than have ever been possible before, using state-of-the-art AI forecasting tools.

Our flood forecasts are based on a distributed hydrologic model, which is physics-based and event-driven, and proven to outperform other commonly used runoff prediction models. We update the forecasts in real-time based on the latest conditions. We also make a variety of related forecasts, of weather events, crowd conditions, traffic flow, and property damage.



Flow Optimization

We'll consider the greater Houston area holistically, and design and manage optimal water flow and storage based on local regulations, intentions, and conditions. Our optimization process will include recommendations for flow control, preventive maintenance, and infrastructure development, as well as real-time emergency protocol recommendations. We'll think long-term, preparing for population growth and water use trends, and also short-term, quickly making the right decisions in the minutes and seconds when they're most needed.



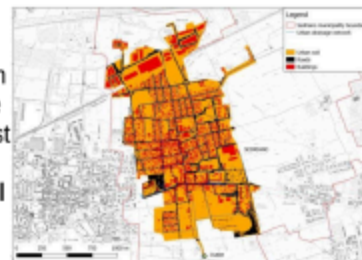
Crisis Simulation and Planning

We'll use agent-based modeling to simulate actions and responses of chaotic systems under crisis conditions, to create intelligent, evidence-based crisis plans. Our tools will enable the optimal design of evacuation routes and protocols, and give an understanding of the range of possible outcomes and their likelihood. We'll use the latest computational models of autonomous agents, incorporating AI to simulate the behavior of people and groups and prevent irrationality.



Information Sharing and Multiparty Coordination

We'll make information sharing and coordination easy with interactive visualizations, central data repositories, facilitated open communication, and real-time alerts. Our web applications will be easy for planners and local administrators to access to get the latest crucial information about current conditions and forecasts. By gathering decision-makers to a centralized, user-friendly app, we'll create a hub that enables better coordination and communication.



Bezos Spending \$10 Billion on Climate Change ... much likely to go to AI

[Read article. \(http://r20.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebewH8IOcDekSI_m9GSOIxY7Zjh_uvbt7LPRzWzkN2adcYbLcYD36_oweo_YdyuZgjc1SXbmBX8jl13ULbtKID7o7LR_bsRE9KTHOEH5fdzT8lXGKrF6Qa3uXgbtoXcFNAwhRjdk6WSyJU8YU1F3Q==&c=&ch=\)](http://r20.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebewH8IOcDekSI_m9GSOIxY7Zjh_uvbt7LPRzWzkN2adcYbLcYD36_oweo_YdyuZgjc1SXbmBX8jl13ULbtKID7o7LR_bsRE9KTHOEH5fdzT8lXGKrF6Qa3uXgbtoXcFNAwhRjdk6WSyJU8YU1F3Q==&c=&ch=))

Amazon is now an artificial intelligence company ([that happens to deliver packages. Amazon rebuilt its company around artificial intelligence back in 2014 \(\[.\]\(http://r2o.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebewH8IOcDekSIm9GSOIxY7Zjh_uvb6GU1ZmgSAntg9uAhqDB_25tZ4OsrWSCnOMhoqORVh31UFB_aPgjzJolFV-tINNIjQZg9KopBjq6uAJ1bbcXSHPMc_M4oq5HbLkq1rJ3hKvYbaDHjBU34dlFeQNW5hmMDi8tlZa1vay9yH_5T2bx43eg2RCgZnIhQ==&c=&ch=\)\)](http://r2o.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebewH8IOcDekSIm9GSOIxY7Zjh_uvbT7LPRzWzkNgeFD9iLE7eXSognyTLzj35_dB-bl9t5c4hzHl4g7hKGEYUch5EIL14O2nMSy-oUK654hKp_TUxbEPY2Qqv3X9lckKcznQKyYS5no9Rp9DoQJi8RSwQIKHYeWfVT5RPTPpK6jNMwWS1JzGUGlcPxHTqjotsTa7jfGw3koreJoJQ9SVyqcrzz7WlRVL3wvqL-F7bOxX2hQuflE168hx1SuKjFqt1abXjT3wowl8gH2l2jogsl71sswV16h2bRKgeevSx-WMrG2yII=&c=&ch=))

Bezos sees AI has a solution to intractable problems:

---“We are now solving problems with machine learning and artificial intelligence that were ... in the realm of science fiction for the last several decades.” - Jeff Bezos, CEO, Amazon

It is likely that much of Bezos’ \$10 billion climate funding will be spent on AI-based projects.

\$10 BILLION



Ceres “Air AI” in Development

“Air AI” is scheduled for deployment on June 1. Air AI will provide users access to coordinated TCEQ and EPA information ... along with social media, news articles, internet results, agency documents, permit information, enforcement proceedings,

emissions inventory information, emissions event information, and other air quality data. Ultimately the technology will provide real-time emissions data along with unit attribution data ... all on a geocoded platform.

Read more. (http://r20.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebewH8IOcDekSIIm9GSOIxY7Zjh_uvbt7LPRzWzkNzo-wwuj-siikX6y56P6Gun75H-RoFjB1Z8hcP38jyyfmAJozQah_flg-AjZMvN77NZv-Cdmx2h-zdMJCjobAsg==&c=&ch=)





Document Query

"emissions event" b

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RN100235266

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2. Certifications - OCE / Air Compliance - 2018-08-24
3. Investigation - OCE / Air Compliance - 2018-04-26
4. Air Emission Event Report - OCE / Air Compliance - 2014-05-19
5. Air Emission Event Report - OCE / Air Compliance - 2012-12-18
6. Air Emission Event Report - OCE / Air Compliance - 2012-10-01
7. Air Emission Event Report - OCE / Air Compliance - 2012-09-06
8. Air Emission Event Report - OCE / Air Compliance - 2012-07-30
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Type: Investigation

Release Date: 2018-04-26

Category: OCE / Air Compliance

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Identify the cause or causes of the **emissions event** and include all contributing factors that led to the **emissions event**. Discuss how the **emissions event** could not have been avoided by good design, maintenance, or operation practices, if applicable.

Yvonne Subject: RE: FHR Corpus Christi West Plant **Emissions Event** Incident 269678 Sent by an external sender.

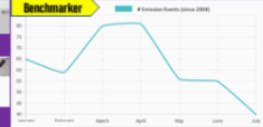
Lindsey Environmental Engineer Resources Corpus Christi, LLC (360) 3 Incident 269678 Identify the cause or causes of the **emissions event** and include all contributing factors that led to the **emissions event**.

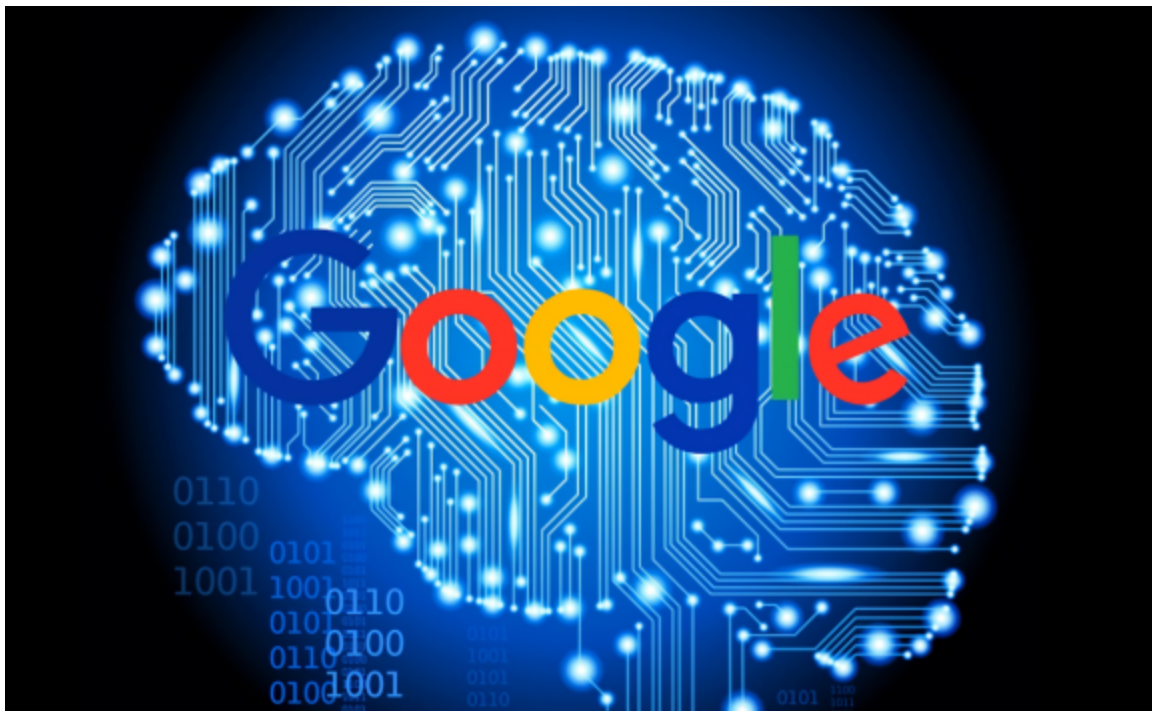
Terms and Conditions



FHR Corpus Christi

Date	Duration	Cause	Total Amount Released	Link to Emission Report
03/23/2018 08:00:00	00:00:00	000000	0.00	Link to Report
03/23/2018 08:00:00	00:00:00	000000	0.00	Link to Report
03/23/2018 08:00:00	00:00:00	000000	0.00	Link to Report
03/23/2018 08:00:00	00:00:00	000000	0.00	Link to Report
03/23/2018 08:00:00	00:00:00	000000	0.00	Link to Report





Google AI launches new ultra-high resolution neural network image analysis

Google recently announced new ultra-high resolution neural network image analyses, localized narratives, and new AI tools for language grounding tasks.

Read more. (http://r2o.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebewH8IOcDekSIm9GSOIxY7Zjh_uvbt7LPRzWzkNI9Mn2boWJvuOXOFo1T6ne9ELj6mUPLWIMRhzNcNkBzmSSNTmqeBBe_100N7M6va9EtCoIVkJhyQB1mVTv1jXA==&c=&ch=)

Ceres Phase 1 “Validator” assisting banking and real-estate industry

Ceres AI reviews Phase 1 reports and compares the reports to ASTM standards.

---“It will read a 500 page report in just minutes. It’s like ‘check the carfax’ for environmental reports” -Mike Harol, VP, Ceres AI

[Read more or to purchase \(http://r20.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebe wH8IOcDekSIm9GSOIxY7Zjh_uvfhOq2S5U7ctlXpUabZHnQ_EahQSQK9FJmgsLUyBdjW8mqKR 7_1w00Toms4LRFRCyQOG5aWrYQHq6rOo9yTthinpZFOzbo-GMQ==&c=&ch=\)](http://r20.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebe wH8IOcDekSIm9GSOIxY7Zjh_uvfhOq2S5U7ctlXpUabZHnQ_EahQSQK9FJmgsLUyBdjW8mqKR 7_1w00Toms4LRFRCyQOG5aWrYQHq6rOo9yTthinpZFOzbo-GMQ==&c=&ch=))



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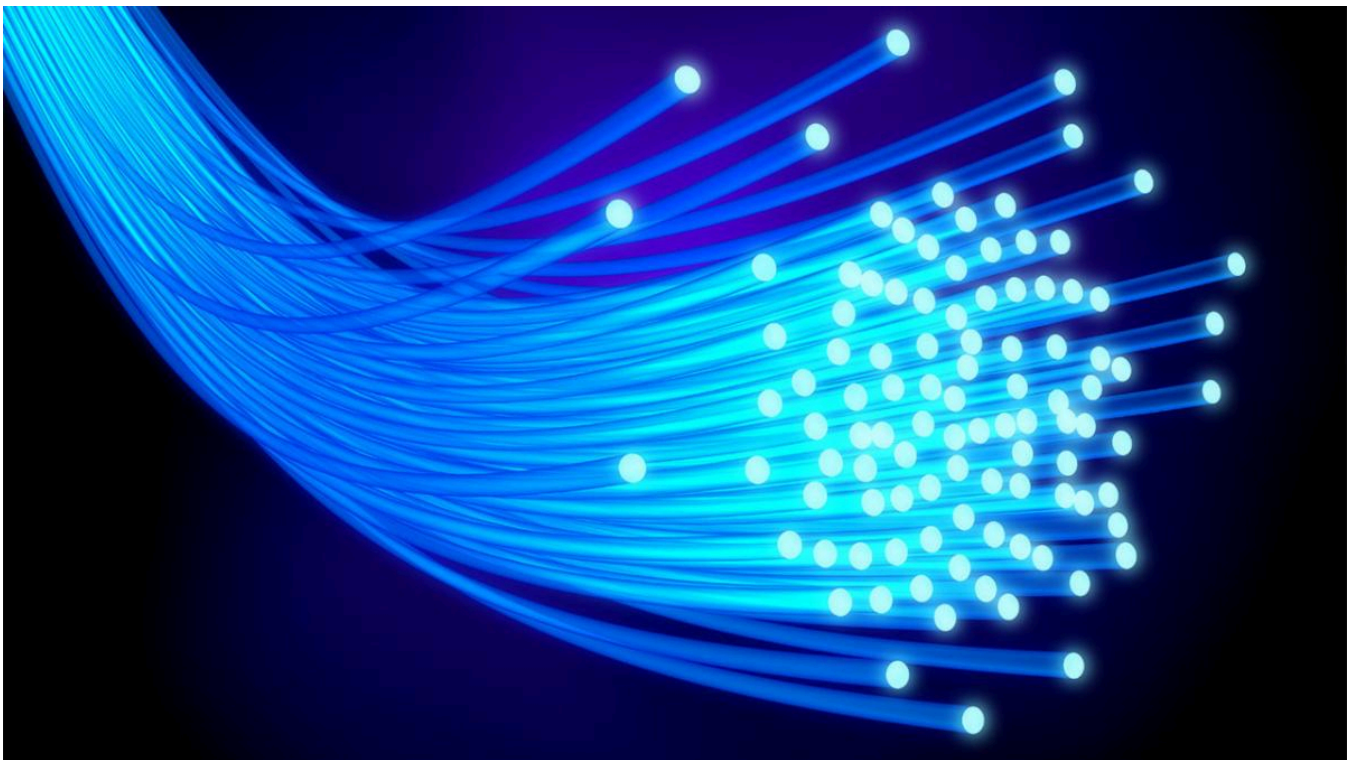
ENVIRONMENTAL
**PHASE 1
VALIDATOR**
By Ceres™ AI

Quantum Internet ... A Major Breakthrough

A quantum entangled optical connection has now been extended to 50 km. Science, Nature, and Physics all covered the story. A quantum internet will eventually allow for essentially instantaneous communication of unlimited data. Although Einstein

called quantum entanglement “spooky”, its becoming increasingly handy and outright “jaw dropping” in recent computing and communications advancements.

[Read more.](http://r20.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebewH8IOcDekSIIm9GSOIxY7Zjh_uvbt7LPRzWzkNy1tjPPXmwNv_YsLPGIpb6Je3iGpaN8YE_oV74dySRg-Z9n5E63LlpBeWaugjaBj3HOP2K3cfaU4G8VzVrpsy2SovnjIA6S7JvWxq7CgkPvHOc4N-ZcU6G71rLAXhf2UpQncjgr104xnGzPVg5HfmKvv_jEltLrwMXQ2FDNNhgtV5yYE2lSMpFddD7aS8SZ24npY5Vyli3s=&c=&ch=)) ([http://r20.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebewH8IOcDekSIIm9GSOIxY7Zjh_uvbt7LPRzWzkNy1tjPPXmwNv_YsLPGIpb6Je3iGpaN8YE_oV74dySRg-Z9n5E63LlpBeWaugjaBj3HOP2K3cfaU4G8VzVrpsy2SovnjIA6S7JvWxq7CgkPvHOc4N-ZcU6G71rLAXhf2UpQncjgr104xnGzPVg5HfmKvv_jEltLrwMXQ2FDNNhgtV5yYE2lSMpFddD7aS8SZ24npY5Vyli3s=&c=&ch=\)](http://r20.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebewH8IOcDekSIIm9GSOIxY7Zjh_uvbt7LPRzWzkNy1tjPPXmwNv_YsLPGIpb6Je3iGpaN8YE_oV74dySRg-Z9n5E63LlpBeWaugjaBj3HOP2K3cfaU4G8VzVrpsy2SovnjIA6S7JvWxq7CgkPvHOc4N-ZcU6G71rLAXhf2UpQncjgr104xnGzPVg5HfmKvv_jEltLrwMXQ2FDNNhgtV5yYE2lSMpFddD7aS8SZ24npY5Vyli3s=&c=&ch=)))

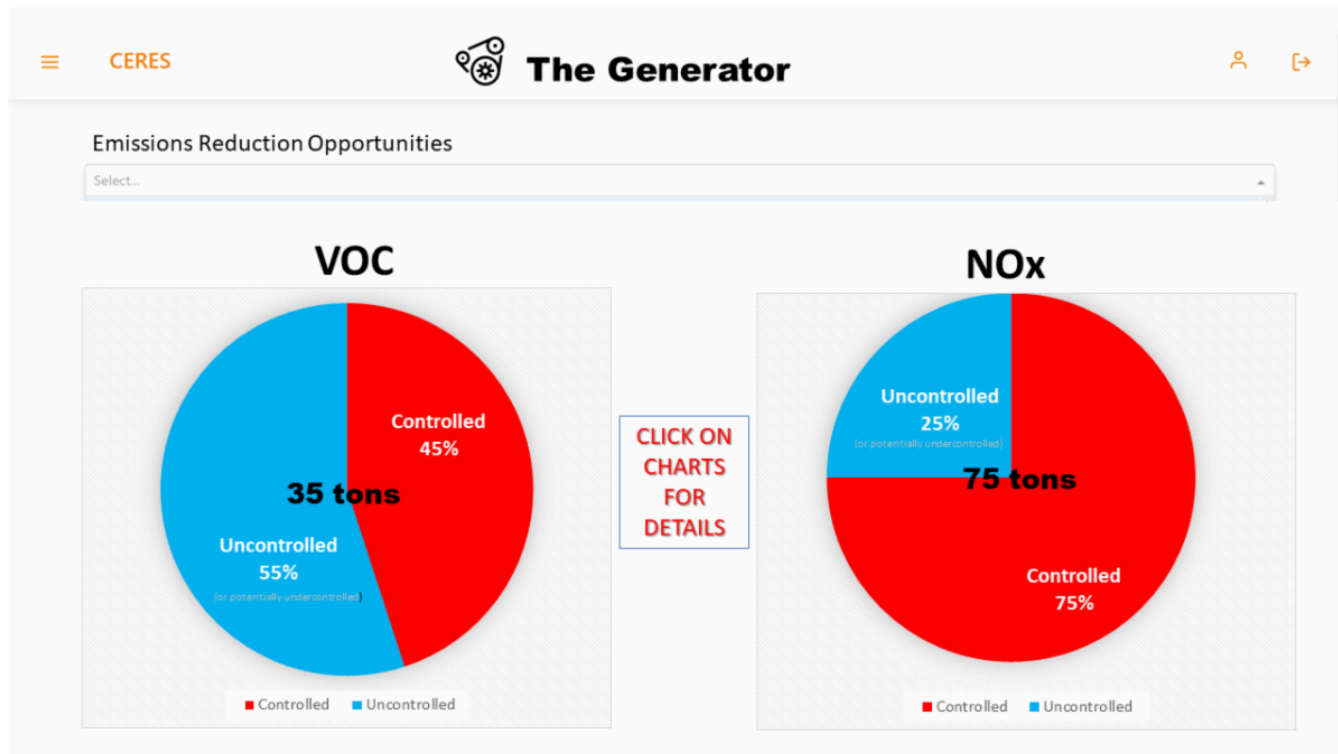


Ceres “The Generator” Scheduled for Deployment on April 10th

- Want to see where you can potentially reduce more emissions?
- Looking for Emission Reduction Credit opportunities?

The Generator sifts through facility and equipment emissions/control data to find potential opportunities.

For Ceres access. (http://r20.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebewH8IOcDekSIIm9GSOIxY7Zjh_uvYG_5CM8kw5kNaCholnDtTFJoz_cCpZj2x03xYmImFialKuXt1eoxFliCoVrlqwHFG37zEyc53K8ZqbHjrFY1eIzozGxXQoqOFXVloAg5tHPmNFO8XSQT2I=&c=&ch=)



Ceres AI's Search ... "Google" for environmental

Ceres AI provides unparalleled access to environmental data.

More data. More knowledge. More power.

[Read more or to purchase \(http://r20.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebe wH8IOcDekSIm9GSOIxY7Zjh_uvSqQ5sFysOxio1XwPe7500vr349sWBkx72Qjk6My3g3Or-UjscYc9 AKqQDUcTbvfkUs9Ya-1ii7JUWcthv8BD4r8tMldDjnxTg==&c=&ch=\)](http://r20.rs6.net/tn.jsp?f=00101tfJtQHTGQ7BxsfmyCZU9G4ebe wH8IOcDekSIm9GSOIxY7Zjh_uvSqQ5sFysOxio1XwPe7500vr349sWBkx72Qjk6My3g3Or-UjscYc9 AKqQDUcTbvfkUs9Ya-1ii7JUWcthv8BD4r8tMldDjnxTg==&c=&ch=))



Information. Data. Power. Speed.



This is an advertisement for Ceres AI

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Original source: Constant Contact campaign

Markdown source: <https://jedanderson.org/posts/latest-news-2.md> (https://jedanderson.org/posts/latest-news-2.md).

Source on GitHub: [/src/content/posts/latest-news-2.md](https://github.com/jedanderson432/jedanderson-site/blob/main/src/content/posts/latest-news-2.md) (https://github.com/jedanderson432/jedanderson-site/blob/main/src/content/posts/latest-news-2.md).