

Benefits

PURETi now offers a range of innovative, environmentally friendly and commercial photocatalytic formulations designed to react with nearly any surface—from building facades to textiles to glass—into a self-cleaning solution. Once spray application of the photocatalytic solution has broken down organic pollutants, keeps surfaces clear of grime and mold, and purifies surrounding air for at least 3 years.

When applied to outdoor surfaces such as building facades, these proprietary photocatalytic coatings offer extensive savings by reducing maintenance by up to 50 percent and typically offering a life span of up to 10 years. Indoors, they reduce odors and create hospital-grade air quality, with an 85 percent reduction in volatile organic compounds (VOCs).

This sculpture—called Wendy and coated with PURETi's technology—will be the world's most self-cleaning sculpture.



1

00:00:02,080 --> 00:00:05,509

Hi, I'm NASA Administrator Charlie Bolden.

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00:00:05,509 --> 00:00:10,170

Ever since NASA's founding in 1958, the technologies that we've developed to power

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00:00:10,170 --> 00:00:13,370

space exploration have also found a home here on Earth.

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00:00:13,370 --> 00:00:18,100

In fact, it's part of NASA's mission to ensure that the results of our research and

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00:00:18,100 --> 00:00:22,560

development go on to benefit all of society.

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Technology spinoffs are made possible by the unique partnerships forged between NASA and

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00:00:27,029 --> 00:00:28,699

people like you.

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To date, our technology transfer programs have helped to create more than 1,800 spinoffs,

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00:00:34,290 --> 00:00:39,839

touching on nearly every aspect of our lives; from life-saving medical devices to the food

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00:00:39,839 --> 00:00:41,120

you eat.

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00:00:41,120 --> 00:00:47,300

Each year, NASA's Spinoff publication highlights the best examples of these technologies.

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00:00:47,300 --> 00:00:51,760

My favorites in this year's book include
a satellite tracking system that has saved

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00:00:51,760 --> 00:00:57,530

30,000 lives worldwide, a surface coating
for buildings that eliminates air pollution,

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00:00:57,530 --> 00:01:02,000

and hospital robots programmed to help care
for patients.

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00:01:02,000 --> 00:01:07,790

Spinoffs represent the practical, down-to-Earth
benefits of our space investments.

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00:01:07,790 --> 00:01:12,650

As we look to NASA's future in exploration
— and the technology required to get us

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00:01:12,650 --> 00:01:16,430

there — it's clear that there is much,
much more to do.