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'Smart dust' aims to monitor everything

By John D. Butler, CNN
May 3, 2010 9:27 a.m. EDT



Taking the Earth's pulse

What if we put tiny sensors on everything? That's the vision for "smart dust." We could learn about ourselves, our cities and the environment in a way that might help us live more efficiently. Click on each picture to learn more.

STORY HIGHLIGHTS

'Smart dust' refers to tiny sensors that would monitor everything on Earth.

The concept was dreamed up by an academic in the 1990s.

But it's becoming increasingly real, as companies deploy wireless sensor networks.

HP says it aims to put a billion sensors all over the globe.

Palo Alto, California (CNN) -- In the 1990s, a researcher named Kris Pister dreamed up a wild future in which people would sprinkle the Earth with countless tiny sensors, no larger than grains of rice.

These "smart dust" particles, as he called them, would monitor everything, acting like electronic nerve endings for the planet. Filled with computing power, sensing equipment, wireless radios and long battery life, the smart dust would make observations and relay mountains of real-time data about people, cities and the natural environment.

Now, a version of Pister's smart-dust fantasy is starting to become reality.

"It's exciting. It's been a long time coming," said Pister, a computing professor at the University of California, Berkeley.

"I coined the phrase 14 years ago. So smart dust has taken a while, but it's finally here."

Maybe not exactly how he envisioned it. But there has been progress.

The latest news comes from the computer and printing company Hewlett-Packard, which recently announced it's working on a project it calls the "Central Nervous System for the Earth." In coming years, the company plans to deploy a billion sensors all over the planet.

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