Large-scale Production of Nanosensors for Use in the Internet of Things (IoT) Sector

2019-09-23
Imagine Intelligent Materials, an Australian Company, has developed a graphene-based integrated sensing system for large surface areas. The system is capable of collecting data on pressure, humidity, stress, and temperature aimed at industrial applications in the Internet of Things (IoT) market.

Australia-based graphene and data analytics company, Imagine Intelligent Materials, has developed an integrated sensing solution that uses graphene coatings and edge-based signal processing devices to collect data from objects with large surface areas.

Proven over areas as large as 4,000 square meters, the system gathers data such as pressure, moisture, stress and temperature and is aimed at industrial and consumer applications in the IoT market.

The new technology is a development of the company's first product, imgneX3 graphene coating used to detect leakages across the geotextiles that line minesite tailings dams.

Imagine's President Jaakko Kaidesoja said the company was developing applications that address needs in health care, buildings and automotive markets. He said: "Aging demographics and increased residential care mean there is an urgent need to monitor movements; to reduce the frequency of falls, to reduce the likelihood of bedsores and do this inexpensively and reliably…. We can deliver improved sensing in automotive applications too, and are working on an after-market product that monitors stress in concrete in high rise buildings."

Read the [original article](#) on Graphene Info.