

graphene enabled biomimetic sensing



OVERVIEW

Imagine has developed a data generating sensing platform that enables valuable information and analytics to be generated in real time. 2D coatings of graphene 'ink' on nearly any surface measures strain, pressure, water and temperature from the edge. The unique value proposition is in the vertical integration of graphene coated materials, with edge-based signals processing delivering data into the cloud. This makes sensing inexpensive, easy to upgrade and creates potential for innovative business models such as freemium to be applied.

THE PROBLEM

Our living environment is facing challenges. We are experiencing infrastructural health and safety issues; climate change is accelerating moisture problems in buildings and the impact of extreme weather conditions. The population is growing older and aged care requires solutions to sustain safe living for elderly people. Growing population in future cities require smart solutions for traffic and logistics. We are not able to manage what we cannot measure but cost-efficient measurement has not been viable – until now.

1
SENSING SURFACES
MANUFACTURABILITY AT SCALE

2
HARDWARE
SIGNAL PROCESSING AT THE EDGE

3
SOFTWARE
CONFIGURABLE TO END USER NEED

4
OPEN API
END USER DETERMINES
THE DATA ANALYTICS REQUIRED

YOUR GOAL

Imagine the possibilities and select an area where you go deep and define the use case and design the entire solution from sensing surfaces to real time information to solve a real-life problem for us.