



CASE STUDY

[Xinova](#)

Sweat Monitoring



Explore: Despite the proliferation of health monitoring wearable devices, most are still limited in their ability to provide in depth analysis beyond movement, temperature and heart monitoring. Sweat can be an exceptionally useful compartment for physiological monitoring, however, most technologies to analyze sweat are still lab-based.



Invent: We invented a series of miniature sweat monitors, ranging in levels of cost and sophistication, which can be implemented into wearable devices. These components add the ability to measure the rate of sweat, as well as the composition, in real time, providing a robust measure of the persons hydration status.



Build: Initial prototypes were fabricated in our lab that demonstrate the ability to measure sweat from a very small area of skin with precision sufficient to extrapolate to the entire body.