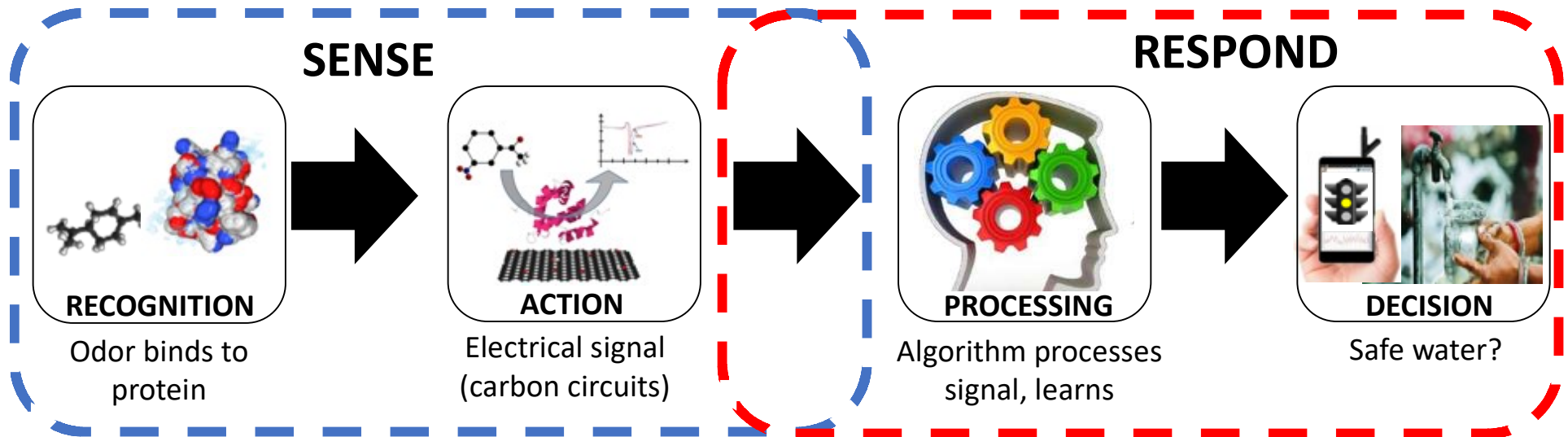


The robot nose in our lab uses a ***lock and key*** process that mimics olfaction. Targets stick to insect-derived ***olfactory proteins*** that are on the surface of ***carbon circuits*** within a gas sampling device. The electrical signals are converted to data, and ***algorithms*** are then used for signal processing and decision support.



Robot nose biosensors are used to provide decision support to the user regarding safe water, food, medicine, and livelihood.