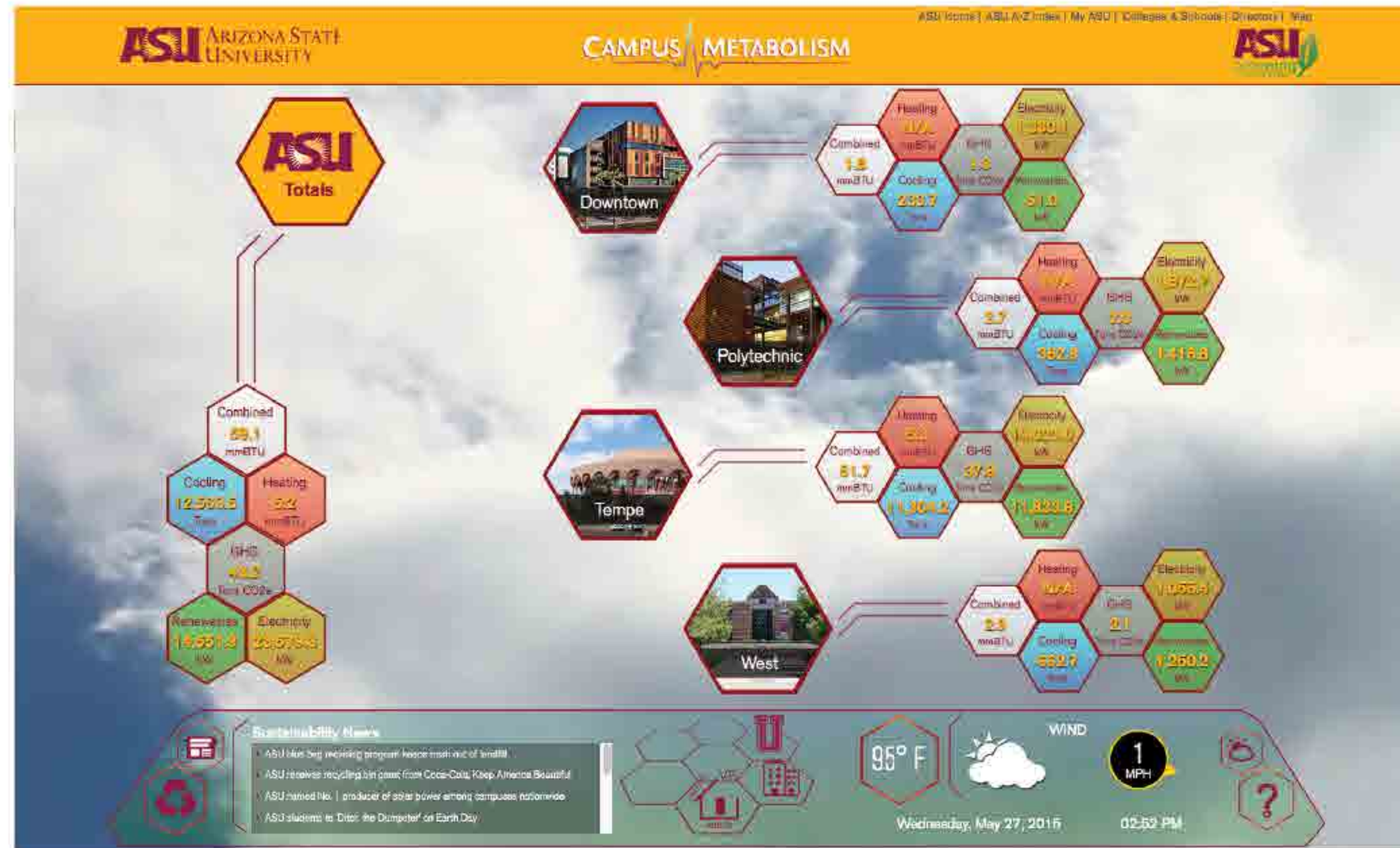


Campus Metabolism at Arizona State University

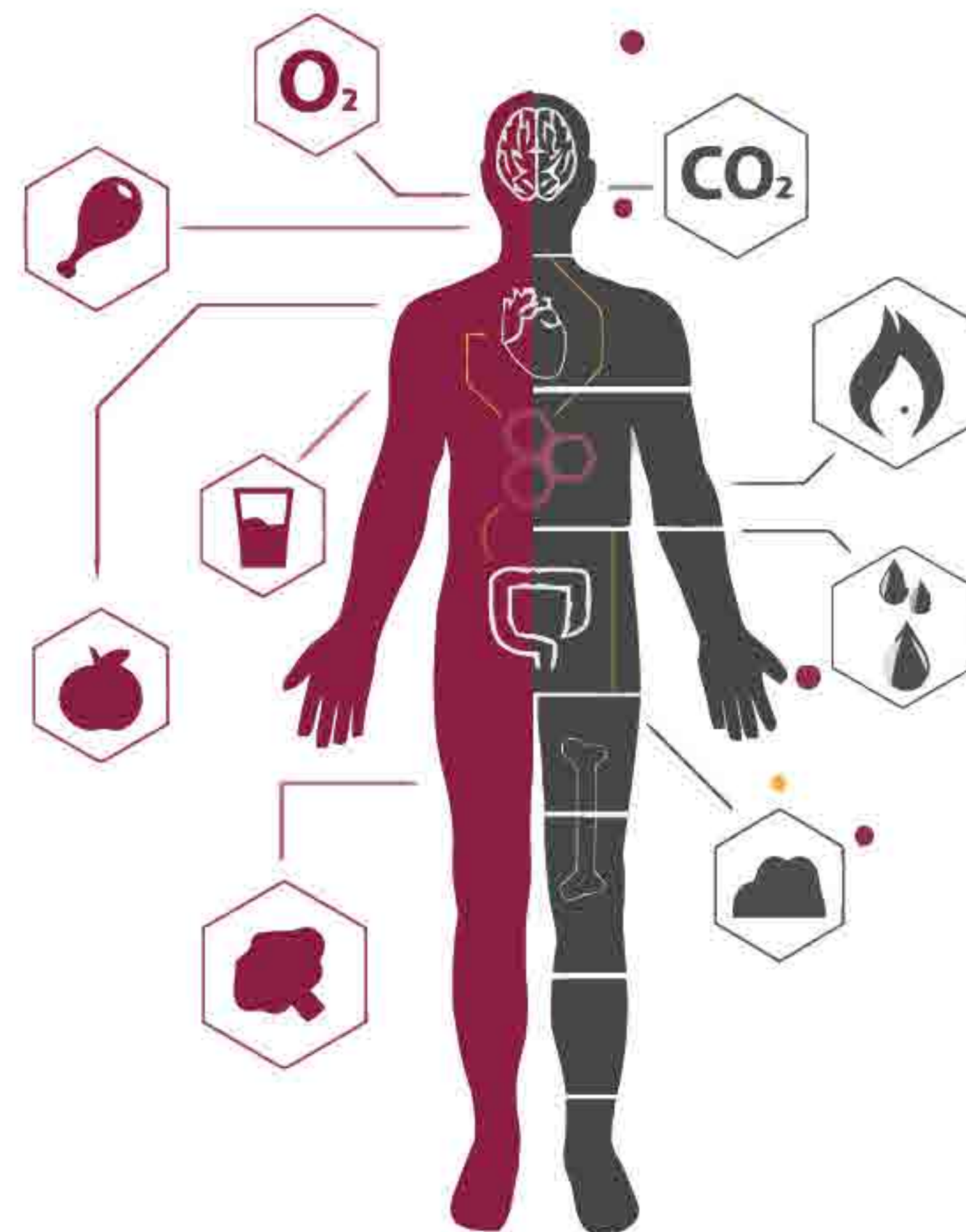
Campus Metabolism (CM) is an interactive web tool used to highlight the interconnection between our daily actions and energy use. CM was originally developed as a student project but later redesigned from input across the ASU community. Today, CM has become a centralized engagement tool that fosters in depth data analysis and thus a deeper understanding of the utilities used within a campus or a building environment. This tool brings energy use to life and translates it into terms and visualizations that help everyone at ASU, and the community at large, to understand and play their part.



CAMPUS METABOLISM



The initial overview allows an instant window into how a campus or building is performing. The data displayed shows metrics on electrical, cooling and heating usage as well as overall greenhouse gas emissions and renewable energy production.



Metabolism:
Is the set of chemical reactions that occur in living organisms in order to maintain life.



Urban Metabolism:
The sum total of the technical and socio-economic process that occur in cities, resulting in growth, producing energy, and elimination of waste.

The CM application fosters research and student engagement in order to better understand how energy is being consumed. Through the analytics provided, one can get a deeper understanding of the campus energy footprint.



The Virtual Room allows a user to get a true sense of the energy impact their behavior has on their own surroundings within a residential, office, or lab environment.

The utility data is stored in 15min averages. From there, historical trend analysis can identify energy saving opportunities as well as verify savings from already applied measures.



<https://cm.asu.edu>

