The Copenhagen Wheel is a new emblem for sustainable urban mobility that improves the cycling experience. Smart, responsive and elegant, it transforms existing bicycles quickly into hybrid electric-bikes with regeneration and real-time sensing capabilities. Its sleek hub not only contains a motor, batteries and an internal gear system - helping people overcome hilly terrains and long distances - but also includes environmental and location sensors that provide data for cycling-related mobile applications. These applications help to foster a cycling community, but can also assist cities in making more informed environmental and traffic policy decisions.

Designer: SENSEable City Lab, MIT
Distributor: prototype
Year of Development: 2009
Main Materials: Aluminium

Photos: Courtesy of the Distributor