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The bus stop of the future... today
9 Comments
by John Biggs on May 19, 2009
This sassy little bus stop - it actually looks more like a cellphone, but who cares - is a design created by MIT architects and engineers. The system will let you tell when the next bus is due, figure out where you are, and even grab news headlines from the aether.

It is “covered” in touch-sensitive e-ink screens and can sense where you are, where it is, and what the surroundings are like. The obvious assumption here is that in the future buses will still exist or our robot overlords will use these as stations for picking up “meat batteries.” Either way, I’m sold.

Imagine if your local bus stop allowed you to check your e-mail, share community information on a digital message board or monitor the local air quality? And perhaps best of all, what if it could tell you the exact location of that bus that you’re waiting for?
MIT architects and engineers just unveiled a design for such a bus stop this past Saturday, at the Genio Fiorentino festival in Florence, Italy. (A more formal prototype will be unveiled this October.)

Called EyeStop and developed by the MIT SENSEable City Lab, it takes the tedium out of waiting for the bus and showcases the potential of next-generation urban transportation design.

The EyeStop is partially covered with touch-sensitive e-INK and screens, and features state-of-the art sensing technologies and a variety of interactive services. Riders can plan a bus trip on an interactive map, surf the Web, monitor their real-time exposure to pollutants and use their mobile devices as an interface with the bus shelter. They can also post ads and community announcements to an electronic bulletin board at the bus stop, enhancing the EyeStop’s functionality as a community gathering space.

“The EyeStop could change the whole experience of urban travel,” said Carlo Ratti, Head of the SENSEable City Lab at MIT. “At the touch of a finger, passengers can get the shortest bus route to their destination or the position of all the buses in the city. The EyeStop will also glow at different levels of intensity to signal the distance of an approaching bus.”

In addition to displaying information, the bus stop also acts as an active environmental sensing node, powering itself through sunlight and collecting real-time information about the surrounding environment.

“EyeStop is like an ‘info-tape’ that snakes through the city,” said project leader Giovanni de Niederhousern. “It senses information about the environment and distributes it in a form accessible to all citizens.”

Unlike the typical mass-produced bus stop, EyeStop is designed to fit the physical characteristics of its surroundings. A computer program generates a unique design for each bus stop, providing both optimal sheltering for users and maximum sunlight exposure for power generation. Simple materials like steel, glass and gray local stone (“pietra serena,” as it is called locally), together with its minimalist design, will help the EyeStop blend into the historic urban fabric of Florence, or wherever else it might be deployed.

“Since the Renaissance, there has been an interplay between the physical form of the city (urb) and its citizenship (civitas),” added Carlo Ratti. “Today’s technologies are adding new possibilities to that age-long relationship, thanks to the addition of digital information to physical space. It is as if a new materiality were emerging in architecture, with the seamless blending of bits and atoms.”

EyeStop was developed at the SENSEable City Laboratory by Giovanni de Niederhousern, Shaocong Zhou, Assaf Biderman and Carlo Ratti, in collaboration with the Province of Florence and the local public transportation authority ATAF.

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