Industrial Design and Future Technology – Tuvie

EyeStops : Futuristic Bus Stops from SENSEable City Lab of MIT

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EyeStops is a concept device for bus stops which will allow the passengers to do a lot more activities than just sitting idle and wait. The SENSEable City Lab of MIT has designed this solar-powered booth that are outfitted with touchscreen displays that will show necessary information like bus schedules or the shortest route for a certain destination. Even more, you will be able to browse the web, check the air quality, see the exact location of your desired bus, interact with a mobile device and use the booth as a community message board to post announcements and ads. On top of that, this booth will surely change the appearance of a traditional bus stop.

[Press Release]

MIT unveils EyeStop: an iPhone-like interactive bus stop for the City of Florence

May 14, 2009. MIT architects and engineers have unveiled EyeStop, an interactive bus stop designed for the city of Florence. On Saturday 16 May the project will be presented officially at the Genio Fiorentino by the President of the Province of Florence Matteo Renzi (dubbed ‘The Italian Obama’ by TIME Magazine).

EyeStop, developed by MIT’s SENSEable City Lab, is an exploration into the next generation of smart urban furniture; it aims to enrich the city with state of the art sensing technologies, interactive services,
community information and entertainment. The project is partially covered with touch sensitive e-INK and screens, so that it can deliver information to people seamlessly. Users can plan a bus trip on an interactive map, exchange community-relevant information on a digital message board, surf the web, monitor their real time exposure to pollutants and use their mobile devices as an interface with the bus shelter. “Interacting with EyeStop could change the access to urban information in a similar way to how the iPhone has changed our mobile life” commented Carlo Ratti, Head of the SENSEable City Lab at MIT.

At the touch of a finger users can indicate their desired destination; the system will then display the shortest bus route from where they are and the position of all relevant buses real-time. The EyeStop will glow at different levels of intensity to signal the distance of an approaching bus. Riders and passers-by can also post ads and community announcements to an electronic bulletin board placed on the bus stop, enhancing its functionality as a public space - a place to gather and exchange community relevant information.

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 air quality and the urban environment. “EyeStop is an experiment into urban computing: it may be considered an “info-tape” that snakes through the city, rising up like a pole or cropping out of the sidewalk like a shelter. It senses information about the environment and distributes it in a form accessible to all citizens” – commented project leader Giovanni de Niederhousern.

A generative parametric model produces a unique design for each bus stop, providing both optimal sheltering for users and maximum sunlight exposure for direct photovoltaic powering. Unlike the typical mass-produced bus stop, EyeStop is designed to fit the physical characteristics of its surroundings, with each unit being slightly different from the others. Furthermore, simple materials like shiny steel, extra clear glass and gray local stone (pietra sera), together with its minimalist design, serve to optimize how it blends into the historic urban fabric of Florence.

“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.

Designer: Giovanni de Niederhousern, Shaocong Zhou, Assaf Biderman and Carlo Ratti via Core77

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Robert · 91 weeks ago
This is brilliant! I've always had an idea that futuristic bus-stops would be around by 2020, and this certainly fits the bill!

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Marisa · 91 weeks ago
I just discovered this today! And I am attached, I love it!! How do I sign up for e-mail updates?

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V · 66 weeks ago
This smart urban furniture's vandalism toll would be kinda high... Just a big acrylic box with advertising space would suffice. The problem with stylish real life bus stops is that they're designed by people who never use the bus - especially in rainy weather.

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Alberto Basso · 64 weeks ago
good idea to use the “pietra serena” in this project, is a wonderful material, very elegant and historical

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Judge · 41 weeks ago


very nice if everyone in this world was rich so no one would steal this stuff and sell it or sleep there as shelter.
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