

Strap on your computer, wearable tech taking off

October 1 2013, by Martha Mendoza



Claire Collins is given a demonstration of Optinvent ORA-S augmented reality glasses at the GLAZED Conference, a conference for the business of wearable technology, in San Francisco, Monday, Sept. 30, 2013. The digital domain is creeping off our desktops and onto our bodies, from music players that match your tunes to your heart beat, to mood sweaters that change color depending on your emotional state -- blue for calm, red for angry. There are vacuum shoes that clean the floor while you walk and fitness bracelets, anklets and necklaces to track your calorie burning. (AP Photo/Jeff Chiu)



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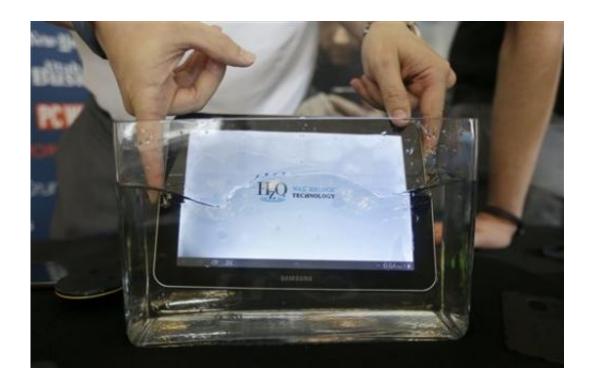
"Everyone agrees the race is just beginning, and I think we're going to see some very, very big leaps in just the next year," said tech entrepreneur Manish Chandra at a wearable technology conference and fashion show in San Francisco Monday that was buzzing with hundreds of developers, engineers and designers.

Wearable technologies have long been a sideshow to mainstream laptop and smartphones, but this year Google's glasses and rumors of Apple's iWatch are popularizing the field. Analysts forecast swift growth. Last year the market for wearable technology—encompassing everything from hearing aids to wristband pedometers—totaled almost \$9 billion. That should climb to \$30 billion by 2018, said analyst Shane Walker at IHS Global Insights.

Humans have been wearing technology for centuries, from strapped-on compasses to pocket watches. The current surging industry is centered in the Silicon Valley and San Francisco Bay area, where mostly smaller startups design their products locally and have them manufactured in Asia to take advantage of cheap labor. Monday's conference was one of several focusing exclusively on wearable technology in recent years.

As wearable technologies proliferate, humans will need to adapt, said Georgia Tech professor Thad Starner. He advises Google on its glasses, which are lightweight frames equipped with a hidden camera and tiny display that responds to voice commands. Starner has worn his for several years.





Steven Sherman, project management director for HZO, gives a demonstration of the HZO Waterblock Technology as he places a tablet into water at the GLAZED Conference, a conference for the business of wearable technology, in San Francisco, Monday, Sept. 30, 2013. The digital domain is creeping off our desktops and onto our bodies, from music players that match your tunes to your heart beat, to mood sweaters that change color depending on your emotional state -- blue for calm, red for angry. There are vacuum shoes that clean the floor while you walk and fitness bracelets, anklets and necklaces to track your calorie burning. (AP Photo/Jeff Chiu)

"We're talking about paradigm changing devices," said Starner.

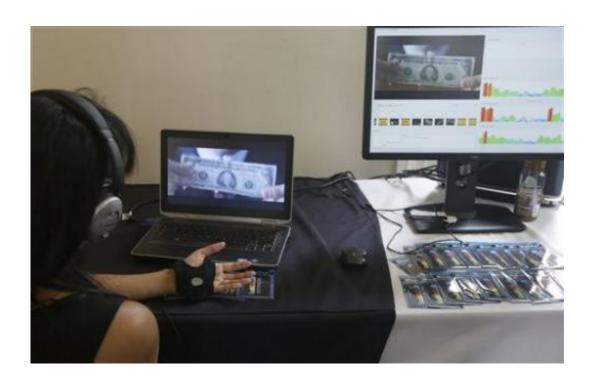
He said that, unlike computers and tablets that people engage with, wearable computers are designed to be in the background, secondary to the wearer's attention.

[&]quot;Capabilities that people haven't thought of before."



"It seems like a paradox, but when you pull the technology closer to your body, there's a seamless interaction, it's more an extension of yourself," he said.

But there are sure to be cultural and social issues. Google Glass—and some emerging competitors—have raised concerns of people who don't want to be surreptitiously videoed or photographed. And what about interacting?



Jenn de la Vega wears a device on her hand as she gives a demonstration on a Technicolor mobile app that measures analytics for emotional response to content that will give feedback to the content creators at the GLAZED Conference, a conference for the business of wearable technology, in San Francisco, Monday, Sept. 30, 2013. The digital domain is creeping off our desktops and onto our bodies, from music players that match your tunes to your heart beat, to mood sweaters that change color depending on your emotional state -- blue for calm, red for angry. There are vacuum shoes that clean the floor while you walk and fitness bracelets, anklets and necklaces to track your calorie burning. (AP Photo/Jeff Chiu)



At Monday's conference, attendees slipped on monitors that measured their heart rates and temperatures to reflect whether they really were enjoying a movie, and shot photos through their Google Glasses of Vibease, the world's first wearable vibrator controlled by smartphones, promising long distance intimacy.

"Do you really want a touch screen on the front of your t-shirt? Is it socially acceptable to be poked all over your body for somebody to use your wearable computer?" asked Geneviève Dion, who directs a fashion and technology lab at Drexel University.

The answer, for some, is no.

In a newly released survey from Cornerstone OnDemand, 42 percent of workers said they would not be willing to strap on wearable tech for their jobs, with older and more traditional employees more reluctant than their counterparts. The survey polled 1,029 Americans aged 18 and over in August, and had a 3.1 percentage point margin of error.





A mannequin wearing headphones and accessories for Vibease, the world's first wearable sexual vibrator controlled by smartphones, is displayed at the GLAZED Conference, a conference for the business of wearable technology, in San Francisco, Monday, Sept. 30, 2013. The digital domain is creeping off our desktops and onto our bodies, from music players that match your tunes to your heart beat, to mood sweaters that change color depending on your emotional state -- blue for calm, red for angry. There are vacuum shoes that clean the floor while you walk and fitness bracelets, anklets and necklaces to track your calorie burning. (AP Photo/Jeff Chiu)

And then there's an issue of bandwidth, said Ritch Blasi, a consultant with SVP-Comunicano who researches the wearable technology market. At this point, there simply isn't enough network service to support



universal and constant wireless use, he said. But that too will catch up.

"It almost makes you think everyone is going to turn into a cyborg," he said, referring to a fictional, prosthetic-laden high tech comic book superhero.

And will they?

"When you look at the world and everything people are doing?" said Blasi, pausing for a moment. "I think the answer to that is yes."

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