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## Elon Musk unveils underground tunnel, offers rides to VIPs

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**Los Angeles:** Elon Musk unveiled his underground transportation tunnel on Tuesday, allowing reporters and invited guests to take some of the first rides in the revolutionary albeit bumpy subterranean tube â€" the tech entrepreneur's answer to what he calls "soul-destroying traffic.―

Guests boarded Musk's Tesla Model S and rode along Los Angeles-area surface streets about a mile away to what's known as O'Leary Station. The station, smack dab in the middle of a residential neighborhood â€" "basically in someone's backyard,― Musk says â€" consists of a wall-less elevator that slowly took the car down a wide shaft, roughly 30 feet (9 meters) below the surface.

The sky slowly fell away and the surprisingly narrow tunnel emerged.

"We're clear,― said the driver, who sped up and zipped into the tunnel when a red track light turned green, making the tube look like something from space or a dance club.

The car jostled significantly during the ride, which was bumpy enough to give one reporter motion sickness while another yelled, "Woo!―

Musk described his first ride as "epic.―

"For me it was a eureka moment,― he told a room full of reporters. "I was like,  This thing is going to damn well work.'―

He said the rides are bumpy now because "we kind of ran out of time― and there were some problems with the speed of his paving machine.

"It'II be smooth as glass,― he said of future systems. "This is just a prototype. That's why it's a little rough around the edges.―

Later in the day, Musk emerged from the tunnel himself inside one of his cars. He high-fived guests and pumped his fists in the air before delivering a speech in the green glow of the tunnel about the technology and why it makes sense.

"Traffic is soul-destroying. It's like acid on the soul,― he said to guests who snacked on marshmallow treats and hot dogs and hoped for a turn in the tunnel.

On Tuesday, he explained for the first time in detail how the system, which he simply calls "loop,― could work on a larger scale beneath cities across the globe. Autonomous, electric vehicles could be lowered into the system on wall-less elevators, which could be placed almost anywhere cars can go. The cars would have to be fitted with specially designed side wheels that pop out perpendicular to the car's regular tires and run along the tunnel's track. The cost for such wheels would be about \$200 or \$300 a car, Musk said.

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A number of autonomous cars would remain inside the tunnel system just for pedestrians and bicyclists. Once on the main arteries of the system, every car could run at top speed except when entering and exiting.

"It's much more like an underground highway than it is a subway,― Musk said.

The cars would have to be autonomous to work in the system but not Teslas specifically, and they would have to be electric because of the fumes from gas, Musk said.

The demo rides were considerably slower — 40 mph (64 kph) — than what Musk says the future system will run at: 150 mph (241 kph). Still, it took only three minutes to go just over a mile from the beginning to the end of the tunnel, the same amount of time it took to accomplish a right-hand turn out of the parking lot and onto a surface street even before the height of Los Angeles' notorious rush-hour traffic.

Tuesday's reveal comes almost two years to the day since Musk announced on Twitter that "traffic is driving me nuts― and he was "going to build a tunnel boring machine and just start digging.―

"l am actually going to do this,― he added in response to initial skepticism. Soon after, he began The Boring Company, tongue in cheek intentional.

For the privately funded test tunnel, Musk acquired a tunnel-boring machine that had been used in a San Francisco Bay Area project and put it down a shaft in a parking lot at the SpaceX headquarters.

Musk dismissed concerns such as the noise and disruption of building the tunnels, saying that when workers bored through the end of the test tunnel the people in the home 20 feet (6 meters) away "didn't even stop watching TV.―

"The footsteps of someone walking past your house will be more noticeable than a tunnel being dug under your house,― he said.

The Boring Company canceled its plans for another test tunnel on Los Angeles' west side last month after a neighborhood coalition filed a lawsuit expressing concerns about traffic and disruptions from trucks hauling out dirt during the boring process.

However, Steve Davis, head of The Boring Company, said the interest in the tunnel systems has been significant â€" anywhere from five to 20 calls a week from various municipalities and stakeholders.

One project Musk is planning on, known as the Dugout Loop, would take Los Angeles baseball fans to Dodger Stadium from one of three subway stations. Another would take travelers from downtown Chicago to O'Hare International Airport. Both projects are in the environmental review phase.

Musk said he thinks the Chicago project has the most potential to open soonest and that he's hoping an extensive network opens in Los Angeles before the city hosts the 2028 Olympics.

"Wouldn't it be incredible if you could travel around LA, New York, D.C., Chicago, Paris, London â€" anywhere â€" at 150 mph?― Musk said. "That'd be phenomenal.―

Musk's representatives also unveiled on Tuesday a new tunnel-boring machine they say they hope to have online soon, one that can bore four times faster than the one they've been using.

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Musk said it took about \$10 million to build the test tunnel, a far cry from the \$1 billion per mile his company says most tunnels take to build.

Cost-cutting measures included improving the speed of construction with smarter tools, eliminating middlemen, building more powerful boring machines, and turning the dirt being excavated into bricks and selling them, Musk said.

The tunnel will not be open to the public for the foreseeable future, Musk said, adding that regulations wouldn't allow for it to open widely for demo rides just yet.

Musk's vision for the underground tunnels is not the same as another of his transportation concepts known as hyperloop. That would involve a network of nearly airless tubes that would speed special capsules over long distances at up to 750 mph (1,200 kph), using a thin cushion of air, magnetism and solar power.

- AP