

Friday, December 31, 2021



Metro Line 14 runs automatically. The 38-kilometer line, with 31 stations, opened on Thursday. It interchanges with 13 other Metro lines in the city. — Jiang Xiaowei

Records set by the new Metro Line 14

- The Yuyuan Garden Station is located 36 meters underground and is the deepest Metro station in Shanghai.
- The Changyi Road Station is located 35.5 meters underground and is the deepest Metro station in the Pudong New Area.
- The tunnel between the Yuyuan Garden and Lujiazui stations under the Huangpu River is 40 meters underground in the deepest part and is the deepest Metro tunnel in Shanghai.
- The Jing'an Temple Station is the first Metro station in the world which is located in the center of a city on soft soil that was constructed by trenchless pipe jacking method.

Tianhe swerves to avoid collision with Starlink

CHINA said its space station was forced to take evasive action to avoid collision with satellites launched by Elon Musk's Starlink program.

The satellites from Starlink Internet Services, a division of Musk's SpaceX aerospace company, had two "close encounters" with the Chinese space station on July 1 and October 21, according to a document submitted by China earlier this month to the UN's space agency.

"For safety reasons, the China Space Station implemented preventive collision avoidance control," China said in a document published on the website of the UN Office for Outer Space Affairs.

With nearly 30,000 satellites and other debris believed to be orbiting the planet, scientists have urged governments to share data to reduce the risk of catastrophic space collisions.

SpaceX alone has deployed nearly 1,900 satellites to serve its Starlink broadband network, and is planning more.

US space agency NASA was forced to abruptly call off a spacewalk at the end of November, citing risks posed by space debris.

Musk tweeted in response that some Starlink satellite orbits had been adjusted to reduce the possibility of collisions.

China began constructing the space station in April with the launch of Tianhe, the largest of its three modules.

(Reuters)

Shanghai Metro network extends to 831km

Chen Huizhi

WITH two new Metro lines went into operation on December 30, the total length of Shanghai's Metro network extends to 831 kilometers and remains the longest in the world.

Metro Line 14 and the northern section of Phase 1 of Metro Line 18 opened on Thursday Shanghai Metro announced.

Line 14, with an operating length of 38km, is the first fully automatic Metro line for eight-car trains in Shanghai. With 31 stations, it is expected to serve

as a horizontal artery in the metropolis.

With that, Shanghai have five driverless Metro lines, stretching a total of 167km, leading the world in an autonomous Metro system.

Line 14, which runs from Fengbang in suburban Jiading District in the west to Guiqiao Road in the Pudong New Area in the east, is the first driverless Metro line in Shanghai with eight-carriage trains.

The line, which connects downtown Jing'an Temple, Huangpi Road S., Yuyuan Garden and

Lujiazui, is expected to ease the pressure on Line 2 between Jing'an Temple and Lujiazui as well as on Line 6 between Yunshan Road and Minsheng Road stations.

Line 14 provides a fast link between Jiangqiao, Zhenru and Jinqiao areas and the city center.

With the opening of a part of Line 18, the Longyang Road Station becomes the first Metro station in Shanghai where passengers can interchange between five lines.

Line 18 has stations at Fudan University and Shanghai University of Finance and Economics.

It is expected to ease commuter traffic pressure at the Century Avenue Station, which is also connected to lines 2, 4, 6 and 9.

The two new lines are the last to cut across the city's central districts.

About 12 million people used the Metro this year, accounting for 70 percent of all users of the city's public transportation network, according to Shanghai Metro.



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